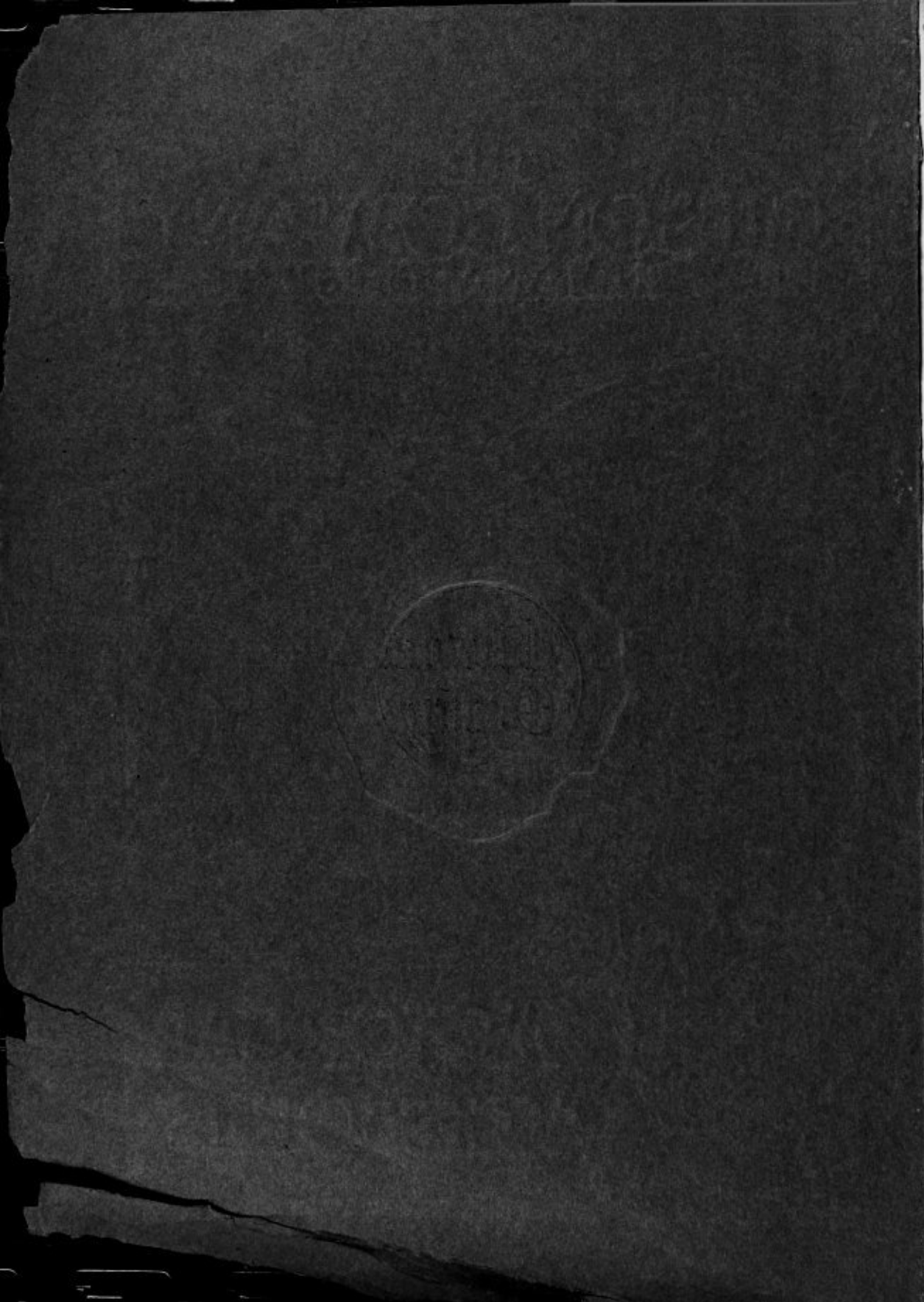


THE
GIBSON COMPANY
1916 INDIANAPOLIS 1916







1916

Discount Sheet



Applying to the 1916 Catalog of

THE GIBSON COMPANY, Indianapolis

All prices in this Catalog PRECEDED BY THE LETTERS D.P. are subject to a discount of

50% and 10%

except in the case of very few pages, which we list below, and which take special discounts. These pages are easily located as the following words appear at the bottom of each one: "Special Discount Applies to Prices on This Page," printed in italics.

For the convenience of our Dealers we have shown a retail price on the articles in this Catalog. This price is shown in heavy black-face type, thus (\$12.00), and is the price at which you should sell these accessories. The Retail Price must not be used when figuring your discount. Always be sure to figure discounts from those prices having the letters D.P. in front of them.

Pages On Which Special Discounts Apply

PAGE	DISCOUNT
16 to 19 For Prices on Falcon Cases and Tubes see Special Price List	
33 Stanweld Rims and Parts	20 per cent
63 Automobile Fuses	50 per cent
69 USL Storage Batteries	25 per cent
70 USL Storage Batteries	25 per cent
71 USL Storage Batteries	25 per cent
72 USL Storage Battery Parts and Accessories	33½ per cent
90 Schebler Carburetor Parts	25 per cent
91 Schebler Carburetor Parts	25 per cent
113 Klaxon Horns, Single Lots	25 per cent
Dozen Lots	30 per cent
Lots of Fifty	35 per cent
120 Edison Mazda Lamps, broken packages	25 per cent
120 Edison Mazda Lamps, Unit packages	35 per cent
121 Edison Mazda Lamp Assortments	35 per cent
163 Gordon Seat Covers	33½ per cent
164 Gordon Seat Covers	33½ per cent
165 Gordon Seat Covers	33½ per cent
166 Gordon Seat Covers	33½ per cent
167 Gordon Seat Covers	33½ per cent
174 Weed Chains, 1 to 11 pairs	25 per cent
174 Weed Chains, 12 pairs or over	33½ per cent
In making up 12 pair lots, 100 cross chains will be considered equal to 1 pair chains	
175 Weed Chains for Solid Tires, 1 to 11 pairs	25 per cent
175 Weed Chains for Solid Tires, 12 pairs or over	33½ per cent
180 Vulcan Springs	40 per cent
181 Vulcan Springs	40 per cent
182 Vulcan Springs	40 per cent
183 Vulcan Springs	40 per cent
190 Fafnir Ball Bearings, Single Lots	40 per cent
190 Fafnir Ball Bearings, Dozen Lots	50 per cent
238 Leak-Proof Piston Rings	20 per cent
324 Weed Chains for Ford, 1 to 11 pairs	25 per cent
324 Weed Chains for Ford, 12 pairs or over	33½ per cent
324 For prices on Falcon Tires and Tubes see Special Price List	
366 to 371 Parts for Ford	25 per cent

NOTE—Falcon Tires and Tubes and Klaxon Horns are subject to a cash discount of five per cent. All other items are subject to the regular cash discount of 2 per cent., unless specified in the catalog that the prices are net.

A simple formula for figuring the net dealer's price on a discount of fifty and ten per cent. is as follows:

If the list price is D.P. \$12.22—

Divide the amount by two - - - thus: 2) \$12.22

6.11

Then take ten per cent. off the result—thus: .61

Which makes the net price - - - - - \$5.50

We believe you will find our prices as low (quality and service considered) as those of any legitimate jobber or distributor. We know that our stock is the most up to date in this line, and that it will pay you to send your orders to this House. Every consideration will be given your requirements, and should the prices shown in this catalog be changed you will receive the benefit of such change.

THE GIBSON COMPANY, Indianapolis

"WE SERVE THE DEALER ONLY"

PRICES

FALCON AUTOMOBILE TIRES AND TUBES

Price List Effective January 18th, 1916

THESE PRICES ARE CURRENT AND ARE NOT GUARANTEED

Falcon Casings Consumers' and Dealers' Prices

Size	Consumr's Price	Dealer's Price	Consumr's Price	Dealer's Price	Size
	Smooth Thread Casings	Smooth Thread Casings	Non-Skid Casings	Non-Skid Casings	
28x3	\$11 00	\$8 42	\$12 65	\$9 68	28x3
30x3	11 70	8 97	13 50	10 31	30x3
32x3	13 35	10 22	15 40	11 78	32x3
30x3 1/2	15 30	11 69	17 60	13 46	30x3 1/2
31x3 1/2	16 45	12 58	18 90	14 48	31x3 1/2
32x3 1/2	17 60	13 46	20 25	15 49	32x3 1/2
34x3 1/2	21 30	16 28	24 55	18 77	34x3 1/2
30x4	22 65	17 34	26 00	19 90	30x4
31x4	23 85	18 26	27 45	21 00	31x4
32x4	24 40	18 68	28 10	21 51	32x4
33x4	25 60	19 57	29 40	22 51	33x4
34x4	26 05	19 94	30 05	22 97	34x4
35x4	27 40	20 96	31 45	24 07	35x4
36x4	27 85	21 29	32 00	24 49	36x4
37x4	30 20	23 11	34 70	26 56	37x4
34x4 1/2	36 15	27 65	41 60	31 81	34x4 1/2
35x4 1/2	36 30	27 78	41 75	31 93	35x4 1/2
36x4 1/2	36 85	28 20	42 40	32 44	36x4 1/2
37x4 1/2	39 95	30 55	45 90	35 10	37x4 1/2
35x5	42 15	32 25	48 50	37 11	35x5
36x5	41 15	31 47	47 30	36 19	36x5
37x5	43 00	32 90	49 45	37 83	37x5
37x5 1/2	62 95	48 17	72 40	55 39	37x5 1/2

All sizes made in Regular Clincher, Q. D. Clincher and Straight Side.
Prices for Metric Sizes same as prices for Relative Standard Sizes.

All prices quoted in this list are subject to change without notice.

Falcon Red and Gray Tubes Consumers' and Dealers' Prices

Size	Consumr's Price	Dealer's Price	Consumr's Price	Dealer's Price	Size
	Price Gray Tube	Price Gray Tube	Price Red Tube	Price Red Tube	
Comb't'n Ford	\$3 30	\$2 53	\$3 80	\$2 90	Comb't'n Ford
28x3	2 65	2 03	3 00	2 31	28x3
30x3	2 80	2 15	3 20	2 44	30x3
30x3 1/2	3 35	2 56	3 85	2 95	30x3 1/2
31x3 1/2	3 45	2 65	3 95	3 03	31x3 1/2
32x3 1/2	3 55	2 70	4 00	3 07	32x3 1/2
34x3 1/2	3 75	2 86	4 30	3 28	34x3 1/2
36x3 1/2	4 00	3 07	4 60	3 53	36x3 1/2
30x4	4 40	3 37	5 05	3 87	30x4
31x4	4 55	3 49	5 30	4 04	31x4
32x4	4 75	3 62	5 40	4 13	32x4
33x4	4 80	3 66	5 50	4 21	33x4
34x4	4 95	3 78	5 65	4 33	34x4
35x4	5 20	3 96	5 95	4 54	35x4
36x4	5 35	4 08	6 10	4 68	36x4
37x4	5 45	4 17	6 25	4 80	37x4
34x4 1/2	6 25	4 80	7 25	5 55	34x4 1/2
35x4 1/2	6 35	4 84	7 30	5 60	35x4 1/2
36x4 1/2	6 50	4 96	7 50	5 72	36x4 1/2
37x4 1/2	6 80	5 21	7 80	5 97	37x4 1/2
35x5	7 65	5 85	8 80	6 73	35x5
36x5	7 80	5 97	8 95	6 85	36x5
37x5	7 90	6 06	9 15	6 99	37x5
37x5 1/2	8 65	6 61	9 90	7 58	37x5 1/2

MOTORCYCLE TUBE PRICES

28x2 1/4	\$2 10	\$1 60	\$2 55	\$1 94	28x2 1/4
28x2 1/2	2 35	1 80	2 85	2 19	28x2 1/2
28x2 3/4	2 45	1 89	3 00	2 31	28x2 3/4
29x2 3/4	2 60	1 98	3 10	2 35	29x2 3/4
28x3	2 90	2 23	3 40	2 61	28x3
29x3	3 00	2 28	3 60	2 74	29x3

ALL THE ABOVE DEALERS' PRICES ARE SUBJECT TO 5% CASH DISCOUNT.

FREIGHT PAID ON SHIPMENTS OF 100 LBS. OR MORE.

SEND FOR OUR SPECIAL FALCON DISTRIBUTING PROPOSIT



THERE IS AN HONOR IN BUSINESS
THAT IS THE FINE GOLD OF IT: THAT
RECKONS WITH EVERY MAN JUSTLY:
THAT REGARDS KINDNESS AND
FAIRNESS ABOVE ALL ELSE. IT BECOMES
A MAN MORE THAN HIS FURNISHINGS
OR HIS HOUSE. IT SPEAKS FOR HIM
IN THE HEART OF EVERYONE. HIS
FRIENDSHIPS ARE SERENE AND
SECURE. HIS STRENGTH IS LIKE A
YOUNG TREE BY THE RIVER.

"THE BUSINESS YEAR BOOK"
WALKER, LONGFELLOW & CO.

7432

FOREWORD

- ✎ This is our sixteenth year in the distribution and sale of motor car accessories, and this, our sixteenth annual catalog, is, we believe, the most complete publication of its kind ever distributed in the motor car accessory field.
- ✎ In the past we have made a consistent effort to simplify our line and have catalogued only those articles that have a known reputation for service and efficient performance. We carry no obsolete, untried or unsalable materials, and before attempting to market any device or accessory, it is first subjected to analysis and test by our Engineering and Research Departments in a completely equipped physical and chemical testing laboratory which we maintain for that exclusive purpose.
- ✎ This catalog will prove a valuable guide to every Dealer in the selection of his goods and shop equipment. It displays only the best obtainable from the markets of the world, and contains a line of information valuable alike to the Dealer, Engineer or Mechanic in the automobile field.
- ✎ We display in this book a line of accessories manufactured by the Solar Manufacturing Company. These specialties represent the highest grade possible to produce and are offered with our recommendation.
- ✎ Your attention is directed to the line of Falcon automobile casings, inner tubes and Falcon tire accessories. These are the highest grade in material, workmanship and construction, and are superior to anything manufactured for their particular purpose and service. They carry a guarantee to the consumer that is positive insurance to the Dealer.
- ✎ The reputation of this Company has been established through the maintenance of a "single outlet policy." We cater to the legitimate automobile dealer or garage operator. We protect this policy as far as it lies within our power. Should our literature fall into the hands of the illegitimate "cut-rate" concern or the consumer, he has obtained it by misrepresentation, and we will appreciate your notifying us of such cases.
- ✎ The three factors contributing to the wonderful success of this Company are: Service, Quality and fair Treatment. These fundamentals of every business are a creed with us. Our constant aim is to give every possible assistance and co-operation, and to conserve the interests of all our Dealers.
- ✎ Organization is the key note of success in any line. We have an organization trained to the needs of the automobile accessory business. The Company is officered by men of wide experience, sound business judgment and unlimited means. These factors are of exceptional benefit to every Dealer. They are a guarantee that his transactions will be handled promptly and in an equitable and satisfactory manner. It also guarantees relations with a house that is established on a sound business basis and will remain a permanent institution. Any bank, trust company or commercial agency will establish our responsibility.
- ✎ We cover the major portion of the United States with trained salesmen. There are, however, some points that we cannot reach advantageously. From those districts, and in fact from all our trade, we invite their business by mail. A good proportion of all orders we handle are sent us by this method. These orders receive the same careful attention, quick shipment, and the sender is insured the same price advantage he would receive should the order have been taken by one of our representatives. The name "Gibson" is a guarantee to all Dealers, and this guarantee insures safety in the handling of your mail order business. If our salesmen do not visit you, advise us, and we will have a representative call.
- ✎ There may be some articles you need that we do not show in our catalog. If this should be the case, do not hesitate to send us your order. If the item can be had, we will obtain it for you.
- ✎ Finally—we solicit your consideration—your business—we assure you a class of "service" and "treatment" that will justify your confidence.

THE GIBSON COMPANY
INDIANAPOLIS

APR 3 1916

CARNEGIE LIBRARY
PITTSBURGH, PA.

MOTOR CAR ACCESSORIES AND TIRES

SHOP EQUIPMENT AND
ELECTRICAL SUPPLIES
CATALOG FOR 1916



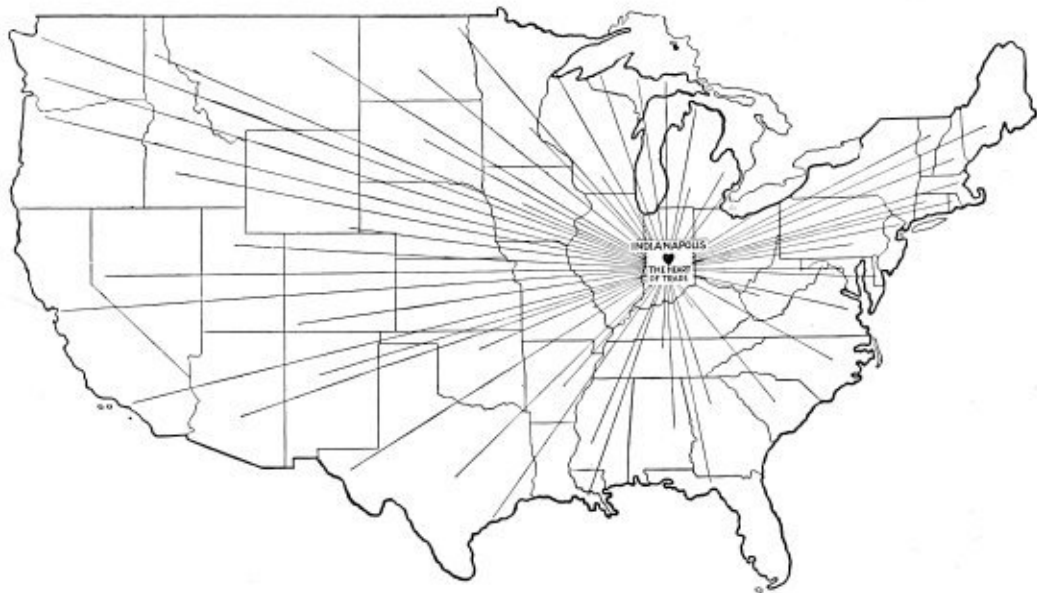
FOUNDED 1900
AVAILABLE RESOURCES
\$ 7,000,000. 00
WE SERVE THE
DEALER ONLY

THE GIBSON COMPANY
416-424 NORTH CAPITOL BOULEVARD
INDIANAPOLIS

INDIANAPOLIS

IS

"THE HEART OF TRADE"



¶ With exceptional shipping facilities and being centrally located, it is the ideal distributing point. ¶ It is within fifty miles of the center of population of the United States. ¶ A letter mailed at any point fifteen hundred miles distant will be delivered at Indianapolis within thirty hours. These important factors, combined with

"GIBSON QUALITY" SERVICE

insure the dealer quick deliveries
on all requirements

Trade Mark Registered United States Patent Office



March Sixteenth, Nineteen Hundred and Fifteen



EXTENSION OF GIBSON QUALITY SERVICE

On account of the *great* reduction recently, in express rates by the various express companies, together with the lower rates on parcel post and the increase in the weight limit, *Gibson Quality Service* can now be obtained by all dealers, regardless of your location and at practically the same rates as if ordered from your neighboring jobber.

With these facilities at your command, dealers a thousand miles away can draw on our *unlimited stock* with the confidence that your orders will be filled promptly and properly and goods received with quick dispatch. INDIANAPOLIS, SITUATED PRACTICALLY IN THE CENTER OF THE UNITED STATES, MAKES AN IDEAL DISTRIBUTING POINT, AND IT ALSO BEING ONE OF THE LEADING RAILWAY CENTERS OF THE COUNTRY, GIVES YOU AN ADDED ADVANTAGE FOR RATES AND QUICK TRANSPORTATION.

We give below, rates to various points from Indianapolis. In some cases parcel post rates are lower than express rates, in which event we take the lower rate. We always use our best judgment in making shipments.

Minimum Rates on Shipments Up to Twenty Pounds

FROM INDIANAPOLIS TO					FROM INDIANAPOLIS TO					FROM INDIANAPOLIS TO				
5	10	15	20		5	10	15	20		5	10	15	20	
Lbs.	Lbs.	Lbs.	Lbs.		Lbs.	Lbs.	Lbs.	Lbs.		Lbs.	Lbs.	Lbs.	Lbs.	
ALABAMA—					IOWA—(Continued.)					NORTH DAKOTA—				
Anniston	.*23	*43	51	62	Fl. Dodge	.*23	40	51	61	Fargo	.*32	49	63	78
Birmingham	.*23	40	50	60	Ottumwa	.*14	*24	*34	*44	OHIO—				
Mobile	.*32	45	58	71	Sioux City	.*23	*43	60	73	Akron	.*14	*24	*34	44
Montgomery	.*23	43	54	66	Waterloo	.*23	37	45	54	Bellefontaine	.*09	*14	*19	*24
Selma	.*23	43	54	66	KANSAS—					Cincinnati	.*09	*14	*19	*24
ARIZONA—					Achison	.*23	40	51	61	Columbus	.*14	*24	*34	44
Phoenix	.*51	96	135	173	Oberlin	.*32	54	71	88	Canton	.*14	*24	*34	44
Prescott	.*51	93	129	166	Topeka	.*23	40	51	61	Dayton	.*09	*14	*19	*24
ARKANSAS—					Wichita	.*23	*43	63	77	Premont	.*14	*24	*34	39
Fl. Smith	.*23	*43	60	73	KENTUCKY—					Lima	.*09	*14	*19	*24
Little Rock	.*23	42	54	65	Bowling Green	.*14	*24	34	39	Marietta	.*14	*24	*34	41
Pine Bluff	.*23	42	54	65	Frankfort	.*09	*14	*19	*24	Portsmouth	.*14	*24	*34	44
CALIFORNIA—					Henderson	.*09	*14	*19	*24	Springfield	.*09	*14	*19	*24
Los Angeles	.*51	*101	150	194	Louisville	.*09	*14	*19	*24	St. Marys	.*09	*14	*19	*24
COLORADO—					Lexington	.*09	*14	*19	*24	Toledo	.*14	*24	34	39
Denver	.*32	60	80	100	Owensboro	.*09	*14	*19	*24	Youngstown	.*14	*24	*34	44
CONNECTICUT—					Paducab	.*14	*24	31	39	Zanesville	.*14	*24	*34	41
Hartford	.*31	42	53	64	LOUISIANA—					OKLAHOMA—				
DELAWARE—					Baton Rouge	.*23	*43	62	76	Guthrie	.*32	50	66	81
Dover	.*23	39	48	58	New Orleans	.*32	48	62	76	Oklahoma City	.*32	50	66	81
DIST. COLUMBIA—					Shreveport	.*32	49	63	78	Muskogee	.*23	*43	60	74
Washington	.*23	38	47	56	MAINE—					Tulsa	.*23	*43	58	71
FLORIDA—					Augusta	.*32	46	60	73	OREGON—				
Jacksonville	.*32	51	66	82	MARYLAND—					Portland	.*09	109	153	198
Key West	.*41	66	89	112	Baltimore	.*23	38	47	56	PENNSYLVANIA—				
Pensacola	.*32	47	60	74	MASSACHUSETTS—					Philadelphia	.*23	39	48	58
Tampa	.*32	55	72	90	Boston	.*31	42	54	65	Pittsburgh	.*23	39	48	58
GEORGIA—					MICHIGAN—					RHODE ISLAND—				
Atlanta	.*23	42	53	64	Adrian	.*14	*24	34	39	Providence	.*31	43	54	66
Columbus	.*23	*43	57	70	Benton Harbor	.*14	*24	34	39	S. CAROLINA—				
Macon	.*23	*43	58	71	Battle Creek	.*14	*24	*34	41	Columbia	.*23	*43	59	72
Rome	.*23	38	48	57	Cold Water	.*09	*14	*19	*24	Charleston	.*23	*43	*63	80
Savannah	.*23	*43	62	76	Detroit	.*14	*24	*34	41	Spartanburg	.*23	*43	57	69
IDAHO—					Grand Rapids	.*14	*24	*34	41	SOUTH DAKOTA—				
Boise	.*51	97	135	174	Kalamazoo	.*14	*24	*34	41	Sioux Falls	.*23	*43	57	69
INDIANA—					Niles	.*09	*14	*19	*24	TENNESSEE—				
Anderson	.*09	*14	*19	*24	St. Joseph	.*14	*24	34	39	Chattanooga	.*14	*24	*34	*44
Bloomington	.*09	*14	*19	*24	MINNESOTA—					Knoxville	.*14	*24	*34	*44
Connersville	.*09	*14	*19	*24	Minneapolis	.*23	41	52	63	Memphis	.*23	37	45	54
Columbus	.*09	*14	*19	*24	MISSISSIPPI—					Nashville	.*14	*24	*34	44
Elkhart	.*09	*14	*19	*24	Gulfport	.*32	45	58	71	TEXAS—				
Evansville	.*09	*14	*19	*24	Jackson	.*23	43	54	66	Austin	.*32	60	80	100
Frankfort	.*09	*14	*19	*24	Meridian	.*23	43	54	66	Dallas	.*32	54	71	88
Fl. Wayne	.*09	*14	*19	*24	Natchez	.*23	*43	*59	72	El Paso	.*41	77	105	134
Kokomo	.*09	*14	*19	*24	Vicksburg	.*23	43	54	66	Fl. Worth	.*32	56	74	92
Lafayette	.*09	*14	*19	*24	MISSOURI—					Galveston	.*32	57	75	94
Logansport	.*09	*14	*19	*24	Jefferson City	.*23	36	44	52	San Antonio	.*32	*62	86	108
Muncie	.*09	*14	*19	*24	Kansas City	.*23	39	48	58	UTAH—				
Mt. Vernon	.*09	*14	*19	*24	St. Louis	.*14	*24	*34	41	Salt Lake City	.*41	*81	116	148
Richmond	.*09	*14	*19	*24	St. Joseph	.*23	39	48	58	VERMONT—				
South Bend	.*09	*14	*19	*24	MONTANA—					Burlington	.*31	42	53	64
Terre Haute	.*09	*14	*19	*24	Butte	.*41	*81	120	153	VIRGINIA—				
Vincennes	.*09	*14	*19	*24	NEBRASKA—					Lynchburg	.*23	39	49	59
ILLINOIS—					Lincoln	.*23	42	54	65	Norfolk	.*23	*43	57	69
Bloomington	.*09	*14	*19	*24	Omaha	.*23	41	52	63	Richmond	.*23	42	53	64
Cairo	.*14	*24	*34	41	NEVADA—					WASHINGTON—				
Champaign	.*09	*14	*19	*24	Reno	.*51	*101	147	190	Seattle	.*60	108	152	196
Charleston	.*09	*14	*19	*24	NEW HAMPSHIRE—					W. VIRGINIA—				
Chicago	.*09	*14	*19	*24	Berlin	.*32	43	55	67	Charleston	.*14	*24	*34	*44
Clinton	.*09	*14	*19	*24	NEW JERSEY—					Huntington	.*14	*24	*34	*44
Decatur	.*09	*14	*19	*24	Newark	.*30	40	51	61	Martinsburg	.*23	37	45	54
Danville	.*09	*14	*19	*24	NEW MEXICO—					Wheeling	.*14	*24	*34	*44
Joliet	.*14	*24	34	39	Santa Fe	.*41	66	90	113	WISCONSIN—				
Moline	.*14	*24	*34	44	NEW YORK—					Madison	.*14	*24	*34	44
Peoria	.*14	*24	34	39	Buffalo	.*23	35	42	50	Milwaukee	.*14	*24	*34	44
Paris	.*09	*14	*19	*24	New York	.*30	41	51	62	Racine	.*14	*24	*34	44
Quincy	.*14	*24	*34	41	N. CAROLINA—					WYOMING—				
Rock Island	.*14	*24	*34	44	Asheville	.*23	41	52	63	Cheyenne	.*32	61	81	102
Springfield	.*14	*24	32	36	Charlotte	.*23	43	54	66					
IOWA—					Raleigh	.*23	*43	58	71					
Burlington	.*14	*24	*34	44	Wilmington	.*23	*43	61	75					
Cedar Falls	.*23	37	45	54										
Davenport	.*14	*24	*34	44										
Des Moines	.*23	38	47	56										

*Denotes parcel post rates. Other amounts, express rates.

THE "GIBSON" POLICY

Quality Goods Immediate Shipment Fair Treatment

Instructions for Ordering

DESCRIPTION OF ARTICLES

Write your order plainly, describe goods wanted carefully. Give all necessary information. Use our catalog number and page wherever possible. If it should happen that we are temporarily out of an article ordered, and unable to secure it without delay, rather than hold shipment and inconvenience you, we may take the liberty of shipping an article similar and of equal quality, in which event you will be promptly notified, and if our action is unsatisfactory you can return the article to us, we assuming all charges.

SHIPPING INSTRUCTIONS

Be sure and state specifically how you wish your order shipped;—whether by freight, express, traction or parcel post. If method of transportation is not indicated, we use our own judgment, choosing the quickest and cheapest route. If the goods are to be shipped to one of your customers and be charged direct to you, kindly give us all necessary data that the invoice may be properly sent you.

TERMS

Our terms are 30 days net or two (2%) per cent for cash in ten (10) days, except on Falcon Casings and Inner Tubes, Automobile Tires and Klaxon Horns, on which items the cash discount is five (5%) per cent instead of two (2%) per cent.

RATINGS

If you are not rated in Dun's or Bradstreet's and do not have a line of credit with us, it will expedite shipment and favor us if you will send us satisfactory reference covering your responsibility, and we will be pleased to open an account with you. If you are in immediate need of the goods, and do not have a rating, we would suggest your sending remittance with order or instructing us to ship C. O. D., sending sufficient funds with your order to insure charges both ways.

REMITTANCES

May be made by check, draft, post office or express money order or currency if the latter is sent in a registered letter.

LIABILITY IN TRANSIT

We exercise the utmost care in the packing and shipping of all orders; when they leave our establishment they are in first-class condition. We are not responsible for loss or damage to goods in transit. Our liability ceases when the goods are delivered to the transportation company and receipted for by them. At the same time, if such cases are reported to us, we will gladly co-operate with our customers in having all claims adjusted.

RETURNED MERCHANDISE

Goods returned to us must have all charges prepaid. When returning goods for repairs, credit or exchange, MARK EACH PACKAGE PLAINLY with your name and address. At the same time write us fully by separate mail, giving specific details covering reason for return. When orders have been correctly filled, we can not allow the return of goods, unless a full explanation has been made and our consent obtained. If accepted, all goods returned in a salable condition—so they can be sold as new goods—will be credited at the price prevailing when the goods are returned, less a 10 per cent service and rehandling charge, and shipping expenses.

CLAIMS

Claims for shortage, damages, etc., must be made within ten days from date of invoice.

PRICES

All prices shown in this catalog and quotations made by this company are subject to change and may be withdrawn without notice. All articles quoted are subject to prior sale. At the time this catalog is published the European war is still in progress, and prices on all raw materials are very uncertain. We can not guarantee prices on any articles, and while we will use every effort to protect our trade, our prices and deliveries must of necessity be governed by market conditions and our ability to obtain materials.

ERRORS

We make mistakes. We use every vigilance to avoid them. Serving thousands of dealers as we do, with our large organization, errors are bound to creep in. When they happen, we are only too glad to correct them, if the fault lies with us. We can only serve you satisfactorily and hold your trade by giving you the "Square Deal" to which you are entitled.

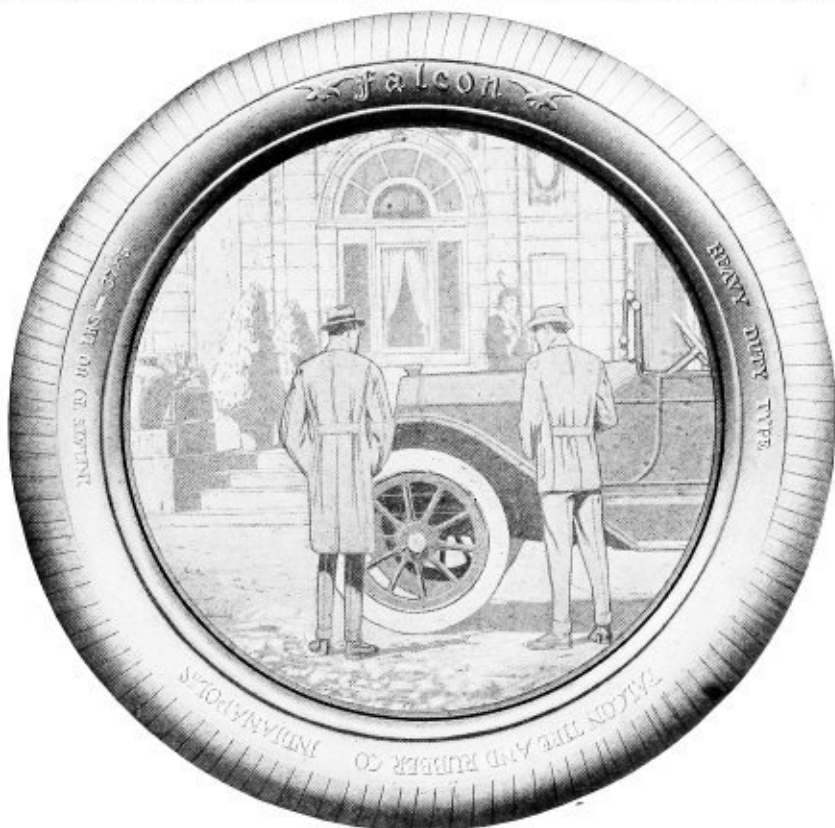


THE GIBSON COMPANY

"FALCON" Single Cure Wrapped Tread Process of Tire Manufacture

Falcon

Falcon



OF ALL THE PROBLEMS confronting the motorist, the bulk of them have been solved with the exception of tire upkeep and expense, which without question constitute seventy-five per cent. of all "motor ailments." This, in a measure, is easily explained. The automobile industry, which has sprung up with lightning-like rapidity in little more than a decade, gave early manufacturers of tires little or no opportunity for necessary experimentation or investigation of the best methods of manufacture or the varying demands that would be placed upon tires in automobile service.

The automobile itself, an offshoot of the bicycle industry, naturally attracted the attention of bicycle tire manufacturers, and the methods in use at that time were continued in the building of automobile tires. This method was the "full-moulded" process, which method is still used by a few manufacturers, not because they believe this method possesses advantages over any other, but because it would involve the scrapping of an enormous amount of equipment which they have installed during that period of the automobile industry when "quantity of output rather than quality of product" was the watchword.

But a new era for the motorist has arrived, for new manufacturers with improved methods based on careful experiments and extensive tests have entered the field.

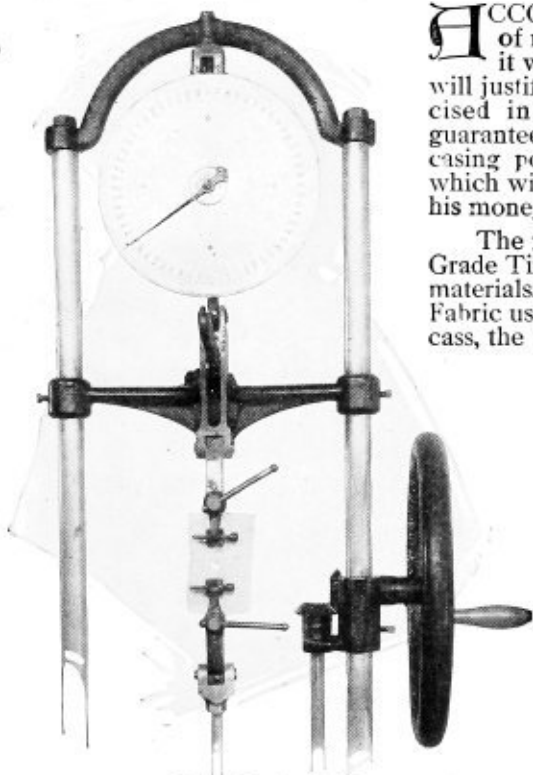
This new method is the "Single Cure Wrapped Tread Process" of "Vulcanization in Live Steam instead of Dry Heat."

This is the method used in the manufacture of Falcon Casings, which, coupled with "Falcon" standards, gives the motorist the much-desired and long-sought perfect automobile tire. An evidence of the superiority of the Single Cure Wrapped Tread Process is reflected by the fact that practically every manufacturer of the modern school is using it, and that many of the older ones are gradually coming to it. We review briefly this process on the following pages.

The "FALCON" Process of Tire Manufacture

Falcon

Falcon



Falcon Testing Machine

ACCOMPANY us through the process of manufacturing "Falcon" Casings; it will prove interesting to you, and will justify our claims, that the care exercised in the production of these tires guarantees every user the highest grade casing possible to manufacture, and one which will give him the greatest value for his money.

The first essential to a successful High-Grade Tire is the proper selection of raw materials. These materials consist of the Fabric used in the construction of the carcass, the breaker strip, which is one of the most important elements in the entire structure, and the rubber. With these three materials of the highest grade, the first step is accomplished.

In the manufacture of "Falcon" Casings we use nothing but the very best Long Staple Sea-Island Cotton in our fabric—there are many substitutes known as Egyptian Fabric, Island Fabric, etc.—but they are not Sea Island basis.

In the production of the Breaker Strip, the same high-grade material is employed, and is selected for its toughness and uniformity.

Your attention is directed to the Tensile Testing Machine, shown on this page. Every bolt of Fabric purchased by us is tested for tensile strength. You will note the piece in the machine shows a strength of 390 pounds to the square inch. This is a fair average of what is expected from this material.

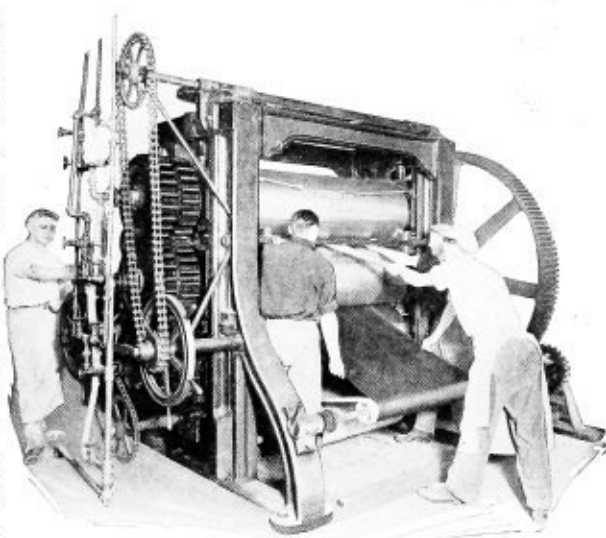
The material for the Breaker strip is subjected to the same drastic test, and none is accepted unless it meets the exacting approval of our test inspectors. A large percentage of tire troubles can be attributed to weak and unsatisfactory fabric, which will permit blow-outs, when the least excess pressure is exerted on the tire. We discard or reject many bolts of fabric that would ordinarily be accepted as standard by the majority of Tire Manufacturers.

After having tested and accepted the Fabric, the next and most important step is the selection of the Rubber. There are many kinds, some of which, while fair for work of this nature, does not have the flexibility, resiliency and toughness demanded by the "Falcon" standard; we therefore use nothing but the highest-grade "Up-River Para" rubber, knowing it to be vastly superior to any of the other kinds.

We have now selected our materials, let us pass to the manufacturing of the "Falcon" Single-cure Wrapped Tread Tires.

The "FALCON" Process of Tire Manufacture

THE next step after having selected the most excellent materials from all the markets of the world, is the calendering of the fabric. This is the process of forcing the pure rubber through the very close mesh of the fabric. This is a most important and exacting operation. Unless great care is exercised, there is constant liability of an uneven permeation of the fabric. When this occurs, the uniformity of the carcass is destroyed and there is a possibility of one layer separating from the other and a short-lived, unsatisfactory tire is the result



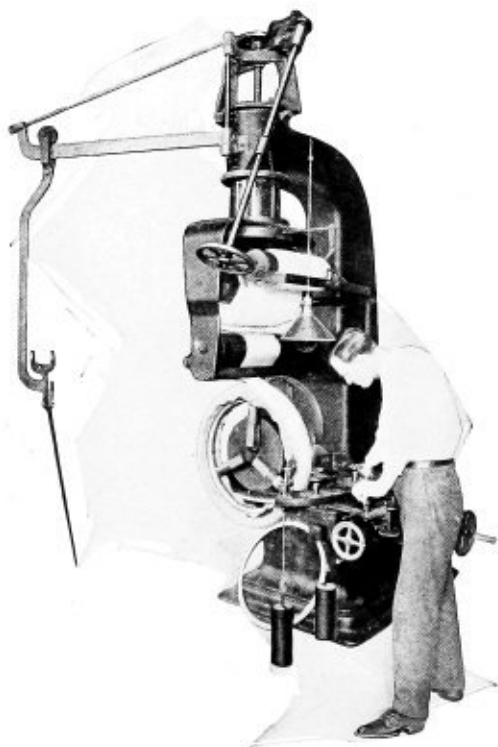
Falcon Calender

We show on this page one of the Friction Calenders, one of a battery of ponderous machines on which the calendering process is performed under the "Falcon" process. As in the selection of the raw materials, the same great care is exercised in the calendering and in every process or operation in the construction of the "Falcon" Single-cure Wrapped Tread Casings. We have installed what is considered the latest improved and largest calender in operation to-day. This machine is so constructed that the regulation of the distribution of the rubber is controlled to the thickness of a hair; this machine is driven by a 300 H.P. motor. The huge rolls of these calenders have the smoothness of glass; they are heated internally by steam, the temperature being regulated to a degree that positively insures uniform application of the rubber to the fabric, which is the very life of the tire itself.

"Falcon" standards in manufacture are employed in this process. To guarantee the ultimate "beyond criticism" Tire, this same exacting standard is maintained in every department. That Standard is reflected in the long and satisfactory service the "Falcon" Tire renders its users.

We now have the materials worked into a form that permits the next step in the production of the Tire, which is that of building the Tire from the foundation of calendered fabric.

The "FALCON" Process of Tire Manufacture



Falcon Tire Building Machine

THE NEXT operation in building the "Falcon" Tire is the construction of the fabric carcass. The carcass is built by stretching the required number of plies of calendered fabric, one over another, around a metal core, of the same shape as the Tire that is to be made.

The old method of tire building was by hand, which method was unsatisfactory and uncertain. One of the most important essentials in the manufacture of a perfect tire is perfect adhesion and a uniform stretch of the fabric plies, of which its carcass is built. If one small spot does not adhere or if uniform stretching is not effected, a weak spot is developed in the carcass that will eventually result in a blow-out after the tire is placed in use. It

is manifest, therefore, that when built by hand, there is great possibility of a lack of uniformity, owing to the changeable strength of the tire-builder, which will naturally vary over the working day.

"Falcon" Casings are built on the most highly developed machine ever devised for this purpose. It represents many years of study in the process of tire making, and is absolutely infallible in its operation. One of the "Falcon" Tire Building Machines is shown on this page. Please observe that the lower roll contains frictioned or rubberized (calendered) fabric, which is fed directly over the core. The upper roll merely strips off the light covering of muslin, which is used to protect the rubberized (calendered) surfaces of the fabric, from contamination and handling from the time it is calendered until it is ready for use in building a carcass.

Please note that the tension on the fabric is absolutely uniform, and that there is no possibility of "spots" not adhering. After the required number of layers have been applied, we have our carcass complete and we are now ready for the next operation in the "Falcon" standard of Tire Manufacture.

The "FALCON" Process of Tire Manufacture

THE OLDER processes of Tire manufacture contemplated the use of moulds. This has been proven a very unsatisfactory and questionable method, as, after the Tire had been placed in the mould, the uneven expansion and contraction of the Tire and the mould would invariably cause some part of the carcass to "pinch," which would rupture the fabric and thus weaken the entire structure. After the Tire is placed in use, the point where this pinch occurred is its weakest point, and the result is almost invariably a blow-out.

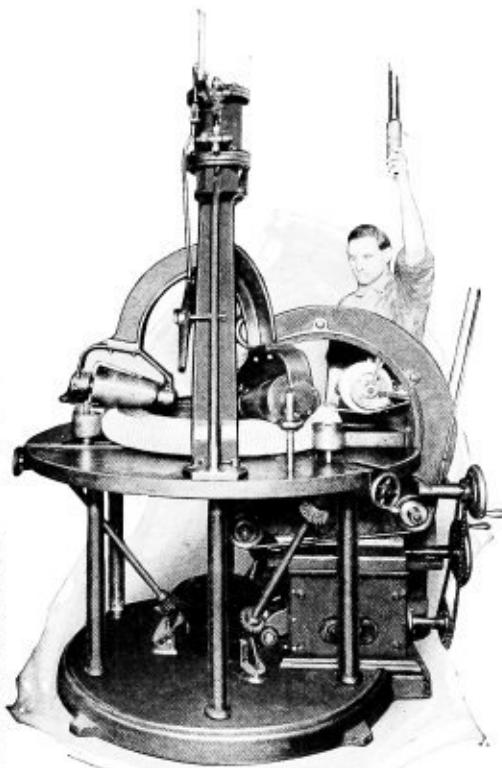
With the "Falcon" Single Cure Wrapped Tread process, the following method is employed: after the Tire is completely built upon the core, a light ring is placed upon either side of the completed Tire. These rings exactly conform to the bead of the tire and extend up to about one-fourth of an inch below the tread. As these rings are drawn together, the fabric is drawn tight, away from the apex of the tire toward the bead. It is therefore impossible for a pinch or buckle to occur. This eliminates one of the most troublesome features heretofore found in tire manufacture and that is the pinching of the fabric.

The fit of these rings is so exact that they must conform to micrometer measurements—a part of the "Falcon" standard.

After these rings are in place, the carcass is wrapped with heavy cotton tape by the machine shown on this page. This tape is uniformly distributed over the whole surface and under strong tension. This compression gives the tread the utmost cohesion and insures an absolutely even flow of rubber during vulcanization.

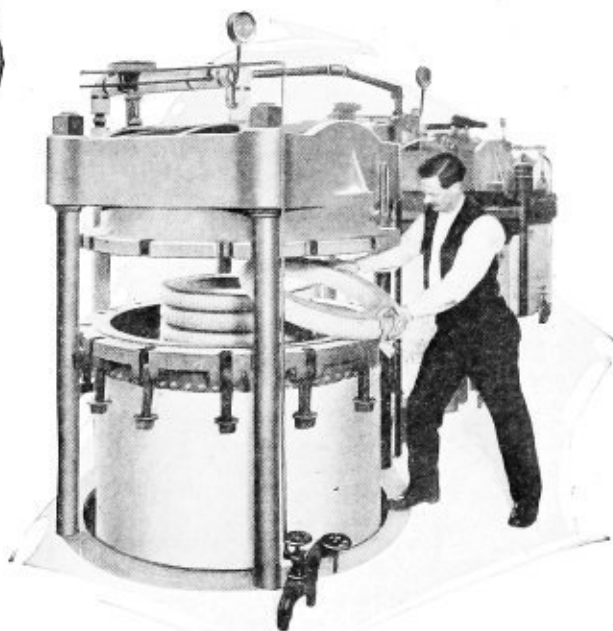
You will observe that the mechanical accuracy of the wrapping machine positively insures even application of the wrapping material, and that there is absolutely no possible opportunity for a variation of the pressure exerted on the carcass by the tape.

The Tire is now ready for the most important and vital operation in its production. The vulcanizing process as used under the "Falcon" standard preserves the vitality of the raw materials and guarantees every "Falcon" user the utmost in Tire value.



Falcon Tire Wrapping Machine

The "FALCON" Process of Tire Manufacture



Falcon Vulcanizing Machine

method (moulded process) requires about 287 degrees to vulcanize a tire. The "Falcon" process is to vulcanize at a low degree of heat, without robbing the fabric of its life-giving wax and oil, thus saving the fibre from becoming brittle and losing the tensile strength which we are so careful to maintain in the selection of the raw product. The "Falcon" Tire is not devitalized during manufacture—every life-giving element is preserved for the wear to which it is subjected by the Motorist.

After "Falcon" Tires are wrapped securely in tape, as described on the preceding page, grids are placed between them and about twenty tires are placed in the vulcanizer for one vulcanization. These grids separate the tires completely but do not obstruct the free circulation of the live steam to every part of the tire itself. As the temperature of steam is constantly at a fixed degree of heat, great care is exercised to maintain the pressure at a given point. A fluctuation of one degree, while not of great moment, is a violation of the "Falcon" standard and will not be tolerated. The length of time these tires remain in the vulcanizer is determined by tests made on many hundreds of casings. Test sections are made at the same time these tires are vulcanized, and after the tires are finished these pieces are subjected to every known analysis and test. This consists of pulling the fabric layers away from each other and the friction measured to a certain number of pounds per square inch. This positively insures the purchaser of "Falcon" casings constant uniformity.

The "Falcon" tire built to "Falcon" standards is now ready for you.

We show you on the next page how we determine the longevity of the "Falcon" casings, and it is so rigorous that we know your service will be mild in comparison.

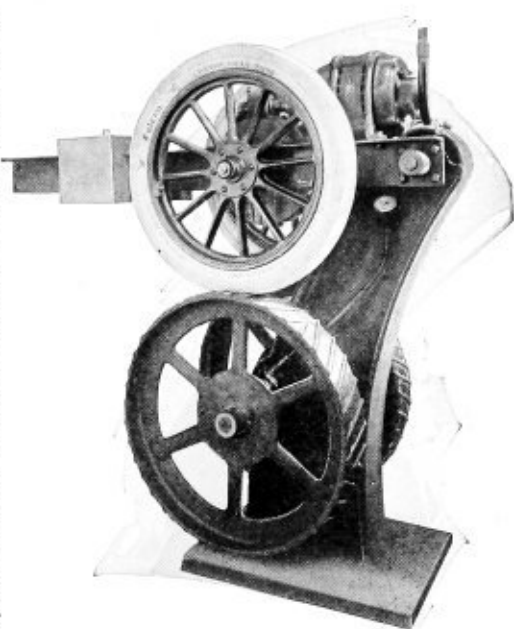
IN the old or moulded tread process of tire manufacture, dry heat of excessive temperature was used. Being encased in a heavy mould and hermetically sealed, no part of the tire ever came in contact with the live steam. Every manufacturer of rubber products is aware that the only satisfactory and permanent method of vulcanization is by the application of live steam to the rubber itself.

The "Falcon" process retains the natural vegetable wax and oil in the cotton fibre during the process of vulcanization. This natural lubricant in the cotton means less internal friction and more life, consequently more mileage.

Wax and oil carbonize at 240 degrees. The old

The "FALCON" Process of Tire Manufacture

EVERY manufacturer of a commodity should take pride in his product. If his efforts have been consistent and conscientious, he has the satisfaction of knowing that he has given the world the best it is possible to construct. So it is with the "Falcon" Tire. The high standard necessary throughout its manufacture guarantees the user the very highest value obtainable in Tires. Excellence in Raw Materials, the most skilled workmen in the industry, together with the most improved modern machinery obtainable, leaves nothing to be desired in the delivering of a superior Tire to the ultimate user—the Motorist. There must, however, be some means at hand whereby the manufacturer can determine the full merit of his product, operating under the same conditions as it would encounter in actual service.



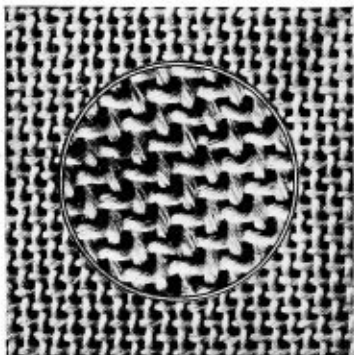
Falcon Tire Testing Machine

To satisfy ourselves that "Falcon" Tires are beyond criticism, and that they will give extended service to every purchaser, the factory has installed the machine illustrated on this page. This is the latest improved tire-testing machine. A tire is selected at random from every heat, and tested to destruction on this machine. The method of testing is as follows: the tire is first placed on the wheel in exactly the same manner as it is applied to the automobile wheel in daily practice; the wheel is then placed on the testing machine. You will please note the weight at the end of the arm—this weight is adjusted to the comparative weight of the car using this same size tire. This insures the same pressure as would be found in regular road driving, with a loaded car. The tire is in contact (with this weight bearing thereon) with a wheel having irregular corrugations, which correspond with the usual road obstructions and ruts. The wheels to which the tires are attached are driven by a motor, and the wheels having the corrugations are in turn driven by the tires. This gives exactly the same result as driving a car over a hard, rough and stony road. Please note also the speedometer on the side of the machine. It tells the mileage obtained in these tests. There is no harder test possible for a tire. We have tried them all, but "Falcon" standards demand the most severe tests ever invented. The result is, that unless the production of every heat will meet a certain mileage, that heat is discarded.

If any method, any device, any process can be found that will improve "Falcon" Casings, you may be assured it will become a part of the "Falcon" standard of producing Tires that are supreme in the tire field.

"FALCON" Casing Construction

Of greatest importance in the manufacture of Automobile Casings is the selection of the fabric, the construction of the breaker strip, the frictioning of the fabric, and the proper compounding of the rubber (to which, of course, must be added high standards of manufacture with properly designed machinery) and the most rigid inspection and test.



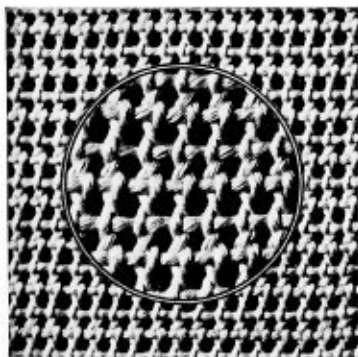
No. 1

THE BREAKER STRIP

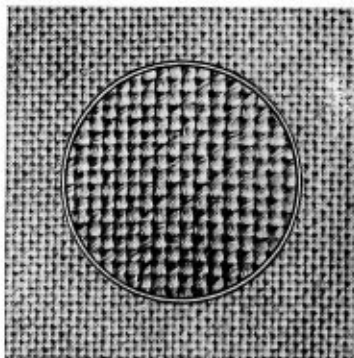
This very important factor in the life of a Casing must be of selected long staple cotton, preferably Sea Island. As it is the element which binds the carcass to the tread, care should be exercised in the weaving—an uneven mesh means uneven distribution of the rubber "rivets," and would without question weaken the "hold" of the tread to the casing. Illustration No. 1 shows the kind of breaker strip used in the majority of tires; note the unevenness of the mesh, and the fact that there is nothing to prevent the spreading of the strands, making the "rivets" of various size and thus permitting the usual loosening of the tread, where this class of material is employed.

"FALCON" BREAKER STRIP

"FALCON" Standards insist on the superfine in all materials entering into the manufacture of the "FALCON" products. Illustration No. 2 shows the Breaker Strip used in "FALCON" Casings. Note the weave, the correct and regular spacing of the mesh. This Breaker Strip is made of the highest grade long staple Sea Island Cotton; it costs several cents per pound more than the other kind, but gives hundreds of miles more in service to the motorist.



No. 2—"Falcon" Breaker Strip



No. 3—"Falcon" Fabric

CARCASS FABRIC

In more than 80 per cent. of the tires manufactured Domestic Staple Cotton is used. The principal reason is owing to the cost. This Fabric will give ordinary service, and being one of the "hidden" elements in tire construction, the motorist is none the wiser. Its strength is variable, and there is that constant possibility of defects which finally result in blow-outs and quick deterioration of the whole structure. "FALCON" Carcass is made from Sea Island Fabric (long staple), the most expensive cotton fabric on the market. It is uniform in weight and texture, and guarantees the motorist exceptional strength in his tires and consequent long life. Note the uniformity of this fabric as shown in Figure 3.



"FALCON" Tube Construction

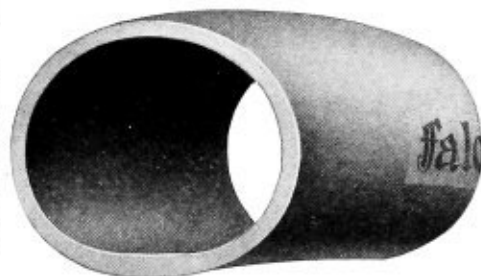
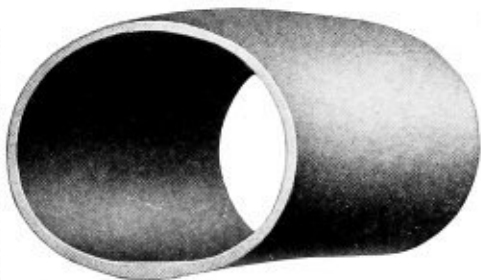


The unprecedented demand for Automobile Tires and Tubes has proven a great temptation to many manufacturers. The big difficulty has been to produce enough tubes to supply this demand. The consequence has been that tubes have been made of the very cheapest materials obtainable, and of the lightest construction possible.

The "FALCON" Tubes are made with the greatest care from the very highest grade "Up-River-Para" Rubber, using just enough compound to insure toughness and vitality. It has not been a question of large production, but a desire to manufacture the best and longest lived tube possible to produce. The "FALCON" Tube is uniform in material and thickness, and after it is finished it is subjected to the most rigid inspection and test. Nothing is overlooked in its manufacture that could improve its quality or longevity.

These tubes are of liberal size and are carefully packed.

Note the illustration showing the comparative thickness of the "FALCON" Tube and another tube that is widely advertised as being of extra heavy construction. The walls of the "FALCON" Tube are nearly double in thickness, and bear in mind that the materials in the "FALCON" are the most expensive and purest obtainable.



An inner tube, while a very small part of an automobile, is one of the most important factors in the complete enjoyment of motoring. Faulty tubes cause much trouble, and very often serious accidents. This is one of the things that should be the highest grade obtainable—better to pay a little more for "FALCON" Tubes and have the assurance that your tube worries are reduced to a minimum.

BUY FALCONS FIRST—BECAUSE FALCONS LAST

"FALCON" Single Cure Wrapped Tread Casings

PLAIN TREAD



IT is impossible to do justice to the appearance of the "Falcon" Casing in an engraving. The illustration on this page shows the plain tread. It is without exception the finest product ever offered in this line. The appearance, workmanship and design are so far above the average a comparison is impossible. All "Falcon" Casings are built oversize. They have more pure rubber and high-grade fabric than any other tire on the market. A four-inch tire is larger than four inches in diameter.

The perfect symmetry of the "Falcon" Tire Tread is owing to the Single Cure Wrapped Tread Process of Vulcanization. There are no "lumps" or flat places as is the case with Moulded Tread Tires. This insures even wear over the whole tread and avoids quick deterioration of the carcass.

All the natural life-giving oils, so necessary to the preservation of the fabric and the rubber, are retained; the chemical and physical content of these elements being preserved by the live steam process of vulcanizing. When Tires of the moulded tread type are vulcanized dry heat is used. This takes away these waxes and oils, reducing the vitality of the fabric and rubber, and in consequence, shortening the life of the casing.

"Falcon" standards, as described in the preceding pages, are the positive insurance to the motorist of absolute uniformity in this product. Careless construction or selection of raw materials means a lot to the ultimate purchaser—it may mean an accident more costly than all the tires he would use in a lifetime. "Falcon" Casings are all the same—the best in every sense, from the selection of the materials entering into their construction to the final inspection and test.

At the time this catalog is published the European war is still in progress and the market on all raw material entering into the manufacture of Casings and Tubes being very uncertain, it is practically impossible to publish a list of prices that would obtain for any period of time. We are inserting in the front of this catalog a price list current at this time. Send us your orders for "Falcon" Tires and Tubes. We assure you that you will receive the lowest prevailing price on date your order is sent.

"FALCON" Single Cure Wrapped Tread Casings

NON-SKID TREAD

NON-SKID tires are gaining in popularity. Heretofore the various types of non-skid tires offered have not been designed to meet the varying conditions encountered in every-day service, with the result that some users have not had the success that is possible with a well-designed non-skid tread.

The "Falcon" Non-skid Tread is of special design, based on actual experience and many tests. You will please note in the photograph that the non-skid is not merely an indentation in the tread, but is a special thickness added to the regular plain tread tire, giving that much more additional wearing surface and in no way robbing the tire of thickness or strength. This piece is vulcanized on the tire at the same time the whole tire is vulcanized. The crescents are of special curvature, which, together with the angles at the points, insure constant contact with the road surface, causing them to "grip instead of slip," and this non-skid feature remains until the tires are worn out, whereas, with the raised type of non-skid tire the non-skid feature is retained but a short time.

Every conceivable operation, apparatus and test looking to the production of absolutely perfect automobile casings are employed in the manufacture of "Falcon" Tires. The non-skid was adopted after exhaustive, comparative tests with numerous designs, and as built is nearer the ideal non-skid tire than any other on the market.

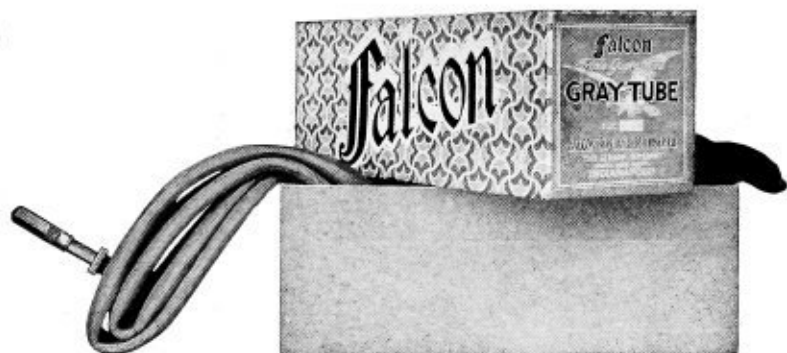
"Falcon" Casings are warranted to give complete satisfaction. The purchaser is protected by a triple guarantee: that of the manufacturer, the Gibson Company and the dealer. Any casings proving defective will be adjusted on a mileage basis. We have many instances where "Falcon" Casings have given as high as 8,000 miles and were still in service.

Dealers should recommend the "Falcon" Non-skid Casings. They give the motorist additional mileage for his money and at the same time insure him against accidents and slipping.





"FALCON" Gray Inner Tubes



"Falcon" Inner Tubes have made their reputation by the service they have rendered. These tubes are made of the very highest grade "Up-River-Para" Rubber, with just enough compound to insure preservation of the rubber and to give the tube toughness and vitality. There are numerous brands of tubes offered the motorist, and on account of the unusually large and growing demand, manufacturers have been prone to cheapen their product. This does not apply to the "Falcon" Tubes. The greatest possible care in the selection of the raw materials, the use of the most modern machinery, the highest class skilled labor obtainable, combined with "Falcon" standards, makes this tube the very finest product in this line. It is impossible to produce a better tube than the "Falcon."

"Falcon" Tubes are of extra heavy thickness—the walls are heavier than any other tube of equal size on the market. This reduces the liability to blow-outs and punctures.

"Falcon" Tubes are packed first in waxed paper, then in a rubberized water-proof bag, the whole being contained in a handsome lithographed box. Our method of packing insures preservation of the tube. It is dust-proof, water-proof and oil-proof, and when placed in the tool box there is little chance of its being affected by abrasion or rough handling.

"Falcon" Tubes bear a triple guarantee: that of the manufacturer, the Gibson Company and the dealer. The motorist takes no chance on this warranted product, and is positively assured service and satisfaction.

"Falcon" Gray Inner Tubes are more than ninety per cent. pure rubber; they are what is known as "floating stock" and will float in water. Try this on other tubes offered you. One of the best recommendations of a Falcon Tube is that it is "floating stock."

The Valve Base in "Falcon" Tubes is concealed, giving a much neater job and making this portion of the tube more substantial and less liable to wear.

"FALCON" Red Inner Tubes



The "Falcon" Red Inner Tube is the "Superlative" in inner tubes. It has been made for the discriminating motorist and is without equal in this line. Some people demand the exceptional in quality and we have made this tube for that class.

The "Falcon" Red Inner Tube contains the same high-grade "Up-River-Para" Rubber as used in the "Falcon" Gray Tube but is compounded in a different manner. The process of manufacture takes somewhat longer time and the methods employed in handling are slightly different. The finished product is tested in every conceivable manner and when delivered to the motorist is as near perfect as human ingenuity can make it. "Falcon" Standards, as applied to Casings and Gray Inner Tubes, dominate the "Falcon" Red Inner Tube.

"Falcon" Red Inner Tubes are extra heavy in thickness. Their color is a fine golden brown. The compound used in their manufacture gives a peculiar flexibility to the tube and at the same time preserves the texture of the material. "Falcon" Red Inner Tubes never deteriorate.

"Falcon" Red Inner Tubes are packed in the same manner as the Gray: first in waxed paper, then in rubberized water-proof bags, and the whole in high-grade lithographed boxes. This package is dust-proof, water-proof and proof against abrasion and rough handling when placed in the tool box.

"Falcon" Tubes bear a triple guarantee: that of the manufacturer, The Gibson Company and the dealer. The motorist takes no chance on this warranted product and service and satisfaction are positively assured him.

At the time this catalog is published the European war is still in progress and the market on all raw material entering into the manufacture of Casings and Tubes being very uncertain, it is practically impossible to publish a list of prices that would obtain for any period of time. We are inserting in the front of this catalog a price list current at this time. Send us your orders for "Falcon" Tires and Tubes. We assure you that you will receive prevailing price on date your order is sent.



The GIBSON COMPANY INDIANAPOLIS

FALCON BLOW-OUT PATCHES



No. 10—Five Ply

Falcon Double Wing Blow-Out Patches

Five Ply White Friction with Black Rubber Tread and Tips.

No. 10, 3x9 inch, each	.....\$0.35
Each...D.P. \$0.44	Dozen...D.P. \$5.00
No. 11, 3½x9 inch, each	......40
Each...D.P. \$0.51	Dozen...D.P. \$5.55
No. 12, 4x10 inch, each	......50
Each...D.P. \$0.57	Dozen...D.P. \$6.10
No. 13, 4½x10 inch, each	......55
Each...D.P. \$0.66	Dozen...D.P. \$7.22
No. 14, 5x10 inch, each	......60
Each...D.P. \$0.73	Dozen...D.P. \$7.77



No. 20—Six Ply

Falcon Hook-On Boots

No. 40, 3x8 inch, each	.....\$0.70
Each...D.P. \$1.00	Dozen...D.P. \$10.05
No. 41, 3½x8 inch, each	......75
Each...D.P. \$1.05	Dozen...D.P. \$11.55
No. 42, 4x9 inch, each	......80
Each...D.P. \$1.16	Dozen...D.P. \$12.77
No. 43, 4½x9 inch, each	......85
Each...D.P. \$1.26	Dozen...D.P. \$13.06
No. 44, 5x9 inch, each	.....1.00
Each...D.P. \$1.38	Dozen...D.P. \$14.88

Falcon Lace-On Boots

No. 30, 3x8 inch, each	.....\$0.75
Each...D.P. \$1.11	Dozen...D.P. \$12.00
No. 31, 3½x8 inch, each	......90
Each...D.P. \$1.32	Dozen...D.P. \$14.40
No. 32, 4x9 inch, each	.....1.00
Each...D.P. \$1.44	Dozen...D.P. \$15.55
No. 33, 4½x9 inch, each	.....1.10
Each...D.P. \$1.60	Dozen...D.P. \$17.22
No. 34, 5x9 inch, each	.....1.15
Each...D.P. \$1.65	Dozen...D.P. \$18.00

Falcon Double Wing Blow-Out Patches

Six Ply Black Friction with White Rubber Tread and Tips.

No. 20, 3x9 inch, each	.....\$0.50
Each...D.P. \$0.55	Dozen...D.P. \$6.00
No. 21, 3½x9 inch, each	......55
Each...D.P. \$0.62	Dozen...D.P. \$6.06
No. 22, 4x10 inch, each	......60
Each...D.P. \$0.71	Dozen...D.P. \$7.77
No. 23, 4½x10 inch, each	......70
Each...D.P. \$0.80	Dozen...D.P. \$8.66
No. 24, 5x10 inch, each	......80
Each...D.P. \$0.88	Dozen...D.P. \$9.55



No. 40—Hook-On Boots



No. 30—Lace-On Boots



BLOW-OUT PATCHES AND RELINERS

Firestone Inside Blow-Out Patches

The Firestone Blow-Out Patch is made with extra strength and stiffness, and will hold any ordinary cut or blow-out without help of an outside boot. The flaps, which fit snugly around the bead of the tire, hold the patch firmly in place.



Firestone Inside Blow-Out Patches, 3x10 inches, each	\$0.65
Each... D.P. \$0.66	
Firestone Inside Blow-Out Patches, 3½x10 inches, each	.75
Each... D.P. \$0.77	
Firestone Inside Blow-Out Patches, 4x10 inches, each	.95
Each... D.P. \$0.88	
Firestone Inside Blow-Out Patches, 4½x10 inches, each	1.00
Each... D.P. \$1.00	
Firestone Inside Blow-Out Patches, 5x10 inches, each	1.15
Each... D.P. \$1.11	

Firestone Hook-On Boots



Firestone Hook-On Boot has the same toughness of tread for which Firestone tires are famous, and has the quality of fabric that gives strength for any temporary trip, no matter how exacting the test.

Firestone Hook-On Boots, 3-inch, each	\$1.00
Each... D.P. \$1.44	
Firestone Hook-On Boots, 3½-inch, each	1.10
Each... D.P. \$1.54	
Firestone Hook-On Boots, 4-inch, each	1.25
Each... D.P. \$1.66	
Firestone Hook-On Boots, 4½-inch, each	1.40
Each... D.P. \$1.76	
Firestone Hook-On Boots, 5-inch, each	1.50
Each... D.P. \$2.00	

Firestone Lace-On Boots

It differs from the Hook-On Boot already described only in the manner of it being attached, since it has all the strength, toughness and service features of the regular Firestone building.



Firestone Lace-On Boots, 3-inch, each	\$1.10
Each... D.P. \$1.66	
Firestone Lace-On Boots, 3½ and 4-inch, each	1.25
Each... D.P. \$1.76	
Firestone Lace-On Boots, 4½ and 5-inch, each	1.50
Each... D.P. \$2.22	

Dobbins Blow-Out Chains



The Dobbins Blow-Out Chain reinforces the shoe and holds the worst blow-out so securely that it becomes the strongest part of the tire. Made for either clincher or straight side tires. In ordering specify type wanted.

Dobbins Blow-Out Chain for 3 or 3½ inch tires, each	\$1.00
Each... D.P. \$1.48	
Dobbins Blow-Out Chain for 4 or 4½ inch tires, each	1.50
Each... D.P. \$2.22	
Dobbins Blow-Out Chain for 5 or 5½ inch tires, each	1.75
Each... D.P. \$2.60	



Falcon Lapped End Reliners

Lapped End Reliners will double the life of any casing, old or new. Users have secured from 1,000 to 2,500 miles from old, worn-out casings ready to be discarded. Made of extra quality moulded on regular tire light-weight duck and cores, they fit perfectly. Outside covered with our self-vulcanizing preparation, the Reliner becomes, in use, cemented to and a part of the casing. Can not creep, buckle or chafe tube. We recommend their use.

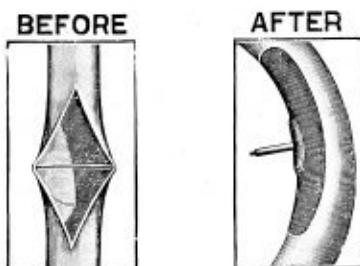
Size	Ply.	Retail Price	Size	Ply.	Retail Price
28x3	3	\$1.90	35x4	3	\$3.40
Each... D.P. \$2.77			Each... D.P. \$5.05		
30x3	3	2.00	36x4	3	3.55
Each... D.P. \$2.94			Each... D.P. \$5.22		
32x3	3	2.15	37x4	3	3.70
Each... D.P. \$3.16			Each... D.P. \$5.44		
30x3½	3	2.40	40x4	3	4.00
Each... D.P. \$3.55			Each... D.P. \$5.88		
31x3½	3	2.50	32x4½	4	3.30
Each... D.P. \$3.66			Each... D.P. \$4.88		
32x3½	3	2.60	34x4½	4	3.40
Each... D.P. \$3.84			Each... D.P. \$5.04		
34x3½	3	2.80	35x4½	4	3.55
Each... D.P. \$4.15			Each... D.P. \$5.22		
36x3½	3	3.10	36x4½	4	3.65
Each... D.P. \$4.55			Each... D.P. \$5.40		
30x4	3	2.80	37x4½	4	3.85
Each... D.P. \$4.15			Each... D.P. \$5.66		
31x4	3	3.00	34x5	5	4.00
Each... D.P. \$4.33			Each... D.P. \$5.88		
32x4	3	3.10	35x5	5	4.15
Each... D.P. \$4.50			Each... D.P. \$6.10		
33x4	3	3.15	36x5	5	4.30
Each... D.P. \$4.60			Each... D.P. \$6.33		
34x4	3	3.30	37x5	5	4.35
Each... D.P. \$4.88			Each... D.P. \$6.44		



The GIBSON COMPANY INDIANAPOLIS

PATCHING MATERIAL, TOOLS, FLAPS, ETC.

Everloc Patch



Everloc Self Vulcanizing Fabric Patch is a sheet of uncured rubber with fabric back that prevents stretching and if applied with a coat of cement will hold permanently. Made in sheets and can be cut to suit size of repair. The ordinary job can be done in five minutes, any place and any time by anyone, and it will hold as long as the life of the tube. This is a cold patch—no heat or tools required to make repair. Just stick on patch, pump up tire and forget it. It smiles at the hot roads and continues to hold.

No. 1 Everloc Patch, size 6x18, in screw top box with tube of cement, each.....\$1.50
Each..D.P. \$2.00

No. 2 Everloc Patch, size 3x18, in screw top box with tube of cement, each..... 1.00
Each..D.P. \$1.32

No. 3 Everloc Patch, size 2x15, in screw top box with tube of cement, each..... .50
Each..D.P. \$0.77

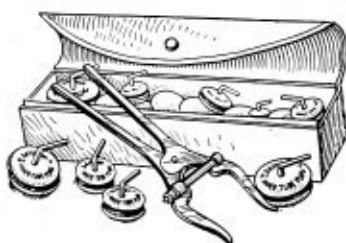
C. O. T. Cementless Cure Patch



The C. O. T. Cementless Cure Patch differs from other cementless patches in that there is no uncured rubber used and it is not affected by heat and where applied to tube it becomes part of same by using one coat of cementless cure which is packed in box with patches.

Price per box of eight patches and tube of cement,
each.....\$0.50
Each..D.P. \$0.56

Tire Repair Tools



The Sampson Repair Kit

Sampson Repair Plug for Automobile Inner Tubes. The quickest permanent repair ever devised. Requires no cement, no cleaning, no gasoline, just the bare hands; has been tested to the limit and never found wanting.

- No. 1 Sampson Repair Outfit, containing tool and half dozen assorted plugs, in carton, each.....\$1.50
Each..D.P. \$2.22
- No. 2 Sampson Repair Kit, as illustrated, containing tool and one dozen assorted plugs in permanent kit, each..... 2.50
Each..D.P. \$3.88
- No. 3 Sampson Repair Plugs, per dozen..... 1.75
Per dozen..D.P. \$2.78
- No. 4 Sampson Repair Tool, each..... .50
Each..D.P. \$0.77

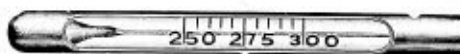
Rubber Roughener



Just the thing to roughen up the parts that want to be prepared before applying cement.

Rubber Roughener, each.....\$0.20
Dozen..D.P. \$2.66

Thermometers—For Vulcanizers



No. 55 Nickel Plated case, 24 inches long; will fit any vulcanizer, thermometer registers 300 degrees F.\$0.60
Each..D.P. \$0.77 Dozen..D.P. \$8.88

Firestone Flaps

A flap to protect the tube in Clincher or Straight Side tires that has enough shape and body to take its place easily and hold it; made from high grade material, with enough of that material in them to form a real protection, to give permanent shape and let them keep their places.



Flaps for 3-inch Tires, each.....\$0.85
Each..D.P. \$1.44

Flaps for 3½-inch Tires, each..... 1.15
Each..D.P. \$1.77

Flaps for 4-inch Tires, each..... 1.50
Each..D.P. \$2.00

Flaps for 4½-inch Tires, each..... 1.60
Each..D.P. \$2.32

Flaps for 5-inch Tires, each..... 1.75
Each..D.P. \$2.55



"FALCON" No-Cement Patches

WHEN THE MOTORIST has but one Tube in each tire, and suffers a puncture on the road, he is confronted with the necessity of getting home, and if he runs his tire flat there is no question but what he will ruin the casing. Here is the solution—"Falcon" No-Cement Patches. With these



patches a puncture can be fixed in ten minutes' time and without the use of a vulcanizer. All that is necessary is to clean the punctured place with a little gasoline, applying a very small quantity of the gas to the patch. Place the patch on the punctured place, press down firmly with the hand. Allow to dry for about five minutes, place the tube in the casing, inflate and drive away. The heat caused by the friction of the tire on the road will make a permanent and neat repair.

These patches are made from highest quality materials and are used by many garage and repair men for repairing tubes brought to them for fixing. They are made in red and gray.



Every dealer should carry a large stock of these patches. They are ready sellers, and as every motorist is learning the necessity for carrying a box in his tool kit, you can work up a nice steady trade on this article.

Falcon Gray No-Cement Patches, per box	\$0.25
Dozen...D.P. \$3.33	
Falcon Red No-Cement Patches, per box .....	.50
Dozen...D.P. \$6.66	



The GIBSON COMPANY INDIANAPOLIS

CEMENTS

Michelin Cement



- Michelin Pure Gum Cement, 1-ounce tubes, each. \$0.10
Dozen..D.P. \$1.10
- Michelin Pure Gum Cement, 2-ounce tubes, each... .15
Dozen..D.P. \$1.66
- Michelin Pure Gum Cement, 1/2-pint cans, each..... .25
Dozen..D.P. \$4.00
- Michelin Pure Gum Cement, 1-pint cans, each..... .75
Dozen..D.P. \$13.34

Michelin Mastic



(Put up in wide-mouth, seal-top, 2-ounce cans.)

- Michelin Mastic, 2-ounce cans, each.....\$0.40
Dozen..D.P. \$6.66



- Michelin Combination Kit, consisting of a can of Mastic and a can of cement, each.....\$0.50
Dozen..D.P. \$8.88

Firestone Para Dry Patching Cement

This cement spreads easily and uniformly. It is to be applied to both surfaces that are to be welded together.

- No. 1043 Firestone Para Patching Cement, in tubes 2x1 inches, each.\$0.10
Dozen..D.P. \$1.10

- No. 1043 Firestone Para Patching Cement, in tubes 1x6 inches, each. .15
Dozen..D.P. \$1.66

- No. 1043 Firestone Para Patching Cement, in 1/2-pint cans, each.... .15
Dozen..D.P. \$2.22

- No. 1043 Firestone Para Patching Cement, in 1-pint cans, each25
Dozen..D.P. \$3.20

- No. 1043 Firestone Para Patching Cement, in pint cans, each..... .40
Dozen..D.P. \$5.33



Firestone Vulcanizing Cement



Firestone Gums and solvent are given the laboratory test for purity and efficiency. The dissolving and mixing are done by scientific methods, on a big scale, and the operators are experts who devote their entire time to this work.

- No. 1086 Firestone Vulcanizing Cement, 1/2-pint cans, each..\$0.15
Dozen..D.P. \$2.44

- No. 1086 Firestone Vulcanizing Cement, 3/4-pint cans, each... .25
Dozen..D.P. \$3.55

- No. 1086 Firestone Vulcanizing Cement, pint cans, each... .45
Dozen..D.P. \$6.66

- No. 1086 Firestone Vulcanizing Cement, quart cans, each... .90
Dozen..D.P. \$13.32

Firestone "Cure-Cut"



To neglect a small cut in the tire is to rob yourself mileage. Sand, grit and moisture will work into such a cut and form blisters under the tread, which eventually results in tread separation.

- Firestone Cure-Cut, each\$0.30
Dozen..D.P. \$1.44



REPAIR MATERIAL

Tire-Doh



Save nine-tenths of tire repair expense. Permanently repairs punctures in the shop or on the road. No tools or heat needed—nothing but two hands and a Tire-Doh Outfit. Better, quicker and easier than vulcanizing. Costs a tenth as much. Any car owner can repair his own punctures and blow-outs in tube, or cuts in casing. Takes only 15 minutes for a puncture. Costs only 2 cents. Increases tire mileage by curing small cuts in casing treads.

Regular Tire-Doh Outfit, containing 3½ ounces Tire-Doh and 2 ounces Tire-Doh Cement, each \$1.00
Dozen...D.P. \$17.76

Junior Tire-Doh Outfit, containing 1½ ounces Tire-Doh and 1 ounce Tire-Doh Cement, each.... .50
Dozen...D.P. \$8.88



2-ounce Cans Tire-Doh only, each.....\$.50
Dozen...D.P. \$8.88

4-ounce Cans Tire-Doh Cement only, each..... .25
Dozen...D.P. \$4.44

Narco Rubber Reviver and Refinisher



A liquid rubber compound combined with other ingredients of a highly beneficial nature to anything of rubber or fabric—waterproofs, revives and refinishes.

Ideal for all automobile and vehicle tops. Applied with a brush—lasts a long time—will not crack. Not one of those varnishy things—greatly improves the appearance of the car.

7-ounce Can—enough for waterproofing and reviving boots, coats or other rubber goods\$0.50
Dozen...D.P. \$8.88

1-quart Can—enough for a large vehicle top or auto top..... 1.60
Dozen...D.P. \$26.65

Narco Tire Cut Filler

The Motorist's Self-Vulcanizer

A very heavy rubber compound that fills the cuts and holes—solidifies quickly and becomes a part of the tire.

Narco Tire Cut Filler welds itself to the walls of the cut, becoming an integral part of the tire—a union so perfect no road abuse can remove it.

Narco Tire Cut Filler in small tubes, each\$0.50
Dozen...D.P. \$8.88



Tirenew

Tirenew prevents tire decay. A compound of pure rubber in liquid form. Upon application to the tire, it flows into the small cuts and crevices and waterproofs the exposed fabric, preventing decay. Should be used in conjunction with Narco Tire Cut Filler.

Causes the tire to look clean and new, giving the entire car a well-groomed appearance. Ideal for spares—protecting them from injurious atmospheric influences. Supplied in both white and tire gray.



TIRENEW COSTS

One 12-ounce Can, will coat five tires\$0.50
Dozen...D.P. \$8.00

One quart Can, will coat twelve tires 1.15
Dozen...D.P. \$18.40

One 1-gallon Pail, will coat twenty-four tires 2.15
Dozen...D.P. \$34.40

One Gallon Pail, will coat forty-eight tires 4.00
Dozen...D.P. \$64.00

Adamson Repair Gum

This Vulcanizing Rubber is especially prepared for use with Adamson Vulcanizers.

It has proven to have many advantages in general repair work.

A high-grade repair stock for use in repairing both tubes and casings.

Adamson Repair Gum is compounded so as to give a perfect adhesion without the use of cement.



Repair Kit Rolls, per dozen\$2.00
Dozen...D.P. \$3.32
One-fourth Pound Rolls, each50
Dozen...D.P. \$9.32
One-half Pound Rolls, each 1.00
Dozen...D.P. \$18.64



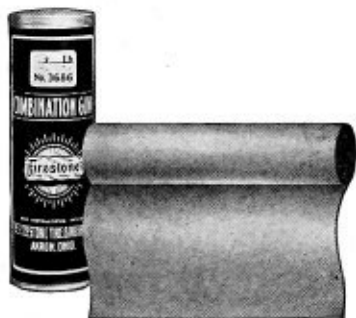
REPAIR MATERIALS

Firestone Combination Tube Gum

When a tube is so injured as to require a large patch the repair should be vulcanized.

Two styles of gum are necessary in this case.

Firestone Combination Tube Gum is so-called because one side is semi-cured, the other uncured. The advantage of this is apparent to the repair man at once. The semi-cured side forms the inside surface of the patch. No sticking to other side of tube.



- No. 3686 Firestone Combination Gum, $\frac{1}{4}$ -lb. boxes, each... \$0.65
One-thirty-second gauge.
Each.. D.P. \$0.77
- No. 3686 Firestone Combination Gum, $\frac{1}{4}$ -lb. boxes, each... .90
One-thirty-second gauge.
Each.. D.P. \$1.44
- No. 3686 Firestone Combination Gum, 1-lb. boxes, each... 1.75
One-thirty-second gauge.
Each.. D.P. \$2.44
- No. 2054 Firestone Combination Gum, $\frac{1}{4}$ -lb. boxes, each... .50
One-thirty-second gauge.
Each.. D.P. \$0.66
- No. 2054 Firestone Combination Gum, $\frac{1}{4}$ -lb. boxes, each... .85
One-thirty-second gauge.
Each.. D.P. \$1.10
- No. 2054 Firestone Combination Gum, 1-lb. boxes, each... 1.60
One-thirty-second gauge.
Each.. D.P. \$2.22

Firestone Tube Gum

This gum is used most largely in connection with Firestone Combination, just described, for vulcanizing tubes.

It is an uncured gum. When the inside patch has been made with the semi-cured gum, the cavity or outside depression is filled with this tube gum and the complete patch then vulcanized.

A tube so repaired is stronger at this point than ever. See illustration of filling in patch.

- No. 1086 Firestone Tube Gum, $\frac{1}{4}$ -lb. boxes, each... \$0.55
One-thirty-second gauge.
Each.. D.P. \$0.77
- No. 1086 Firestone Tube Gum, $\frac{1}{4}$ -lb. boxes, each... .85
One-thirty-second gauge.
Each.. D.P. \$1.32
- No. 1086 Firestone Tube Gum, 1-lb. boxes, each... 1.60
One-thirty-second gauge.
Each.. D.P. \$2.44



- No. 1216 Firestone Tube Gum, $\frac{1}{4}$ -lb. boxes, each... \$0.75
One-thirty-second gauge.
Each.. D.P. \$1.00
- No. 1216 Firestone Tube Gum, $\frac{1}{4}$ -lb. boxes, each... 1.00
One-thirty-second gauge.
Each.. D.P. \$1.44
- No. 1216 Firestone Tube Gum, 1-lb. boxes, each... 1.80
One-thirty-second gauge.
Each.. D.P. \$2.88



REPAIR MATERIALS

Firestone Tread Gum

These gums are for repairing tread cuts, putting in new sections of tread or for complete retreading.



- No. 1097 Firestone Tread Gum, $\frac{1}{4}$ -lb. rolls, each.....\$0.40
Cures Slate Gray. One-sixteenth gauge.
Each..D.P. \$0.55
- No. 1097 Firestone Tread Gum, $\frac{1}{4}$ -lb. rolls, each..... .75
Cures Slate Gray. One-sixteenth gauge.
Each..D.P. \$1.00
- No. 1097 Firestone Tread Gum, 1-lb. rolls, each..... 1.25
Cures Slate Gray. One-sixteenth gauge.
Each..D.P. \$1.88
- No. 1200 Firestone Tread Gum, $\frac{1}{4}$ -lb. rolls, each..... .35
Cures Light Gray. One-sixteenth gauge.
Each..D.P. \$0.46
- No. 1200 Firestone Tread Gum, $\frac{1}{4}$ -lb. rolls, each..... .60
Cures Light Gray. One-sixteenth gauge.
Each..D.P. \$0.88
- No. 1200 Firestone Tread Gum, 1-lb. rolls, each..... 1.10
Cures Light Gray.
Each..D.P. \$1.76

No. 1200 is especially recommended for use with small gasoline vulcanizers.

Firestone Cushion Gum

This highest grade Firestone treated rubber, built in between fabric and tread, insures an inseparable union. The pure gum welds with the fabric body and the tread layer or breaker layer with a grip that holds. Being extra resisting, it absorbs the sudden shocks of travel and distributes the impact of stone or rut over a wide surface, preventing to a large extent the separation of the "repair" from the tire carcass.

- No. 1090 Firestone Cushion Gum, $\frac{1}{4}$ -lb. boxes, each.....\$0.40
One-thirty-second gauge.
Each..D.P. \$0.60
- No. 1090 Firestone Cushion Gum, $\frac{1}{4}$ -lb. boxes, each..... .70
One-thirty-second gauge.
Each..D.P. \$1.00
- No. 1090 Firestone Cushion Gum, 1-lb. boxes, each..... 1.40
One thirty-second gauge.
Each..D.P. \$2.10



Firestone Rebuilding Fabric

Firestone Rebuilding Fabric is light in weight but stronger than any requirement of service will ever demand.

It is frictioned with the regular extra high quality of gum, giving the Firestone long life and gripping strength.

- No. 8498 Firestone Rebuilding Fabric, 1-lb. boxes, each.....\$1.60
Frictioned two sides. Skim one side.
Each..D.P. \$2.22
- No. 1398 Firestone Rebuilding Fabric, 1-lb. boxes, each..... 1.60
Frictioned two sides.
Each..D.P. \$2.22





The GIBSON COMPANY INDIANAPOLIS

TIRE TAPE, TALC AND MICA

Falcon Tire Tape

Every garage, repair shop and motorist has constant need for a first-class high-grade tire tape. There are many grades offered, but unless they are carefully made they refuse to adhere for any length of time. The principal essentials in the selection of tape should be its adhesiveness, a high grade cotton tape as a base, and the whole to be thoroughly waterproof.

Falcon Tire tape is the best manufactured. It is manufactured over an improved process, is guaranteed to be absolutely waterproof, and to give the very best results. It is highly adhesive and will stick where "put."



No. 1 Falcon Tire Tape, one ounce rolls, 1/4-in., per pound\$0.60

Per Pound..D.P. \$0.66

25-lb. lots, per pound..D.P. \$0.53



No. 2 Falcon Tire Tape, four ounce rolls, 1-in., per pound60

Per Pound..D.P. \$0.66

25-lb. lots, per pound..D.P. \$0.53

No. 3 Falcon Tire Tape, eight ounce rolls, 1-in., per pound60

Per Pound..D.P. \$0.66

25-lb. lots, per pound..D.P. \$0.53

Falcon Tire Talc

No tube should ever be placed in a casing without first sifting some talc or mica powder over the entire inner surface of the casing. Unless some material of this kind is employed, the tube is liable to pinch and grind, but the most serious possibility is the sticking of the tube to the casing. When the car is driven any distance, the friction of the tires on the road sets up a very high heat which (unless some good quality talc or mica powder is used) will soften the tube and cause it to stick to the casing.

Falcon Talc is of the very highest grade. It is ground to extra fineness, contains no lumps or grit. It is recommended for this purpose.

Falcon Tire Talc is packed in 2x7-in. cans with sifting top. Will not sift out in repair kit.



Each\$0.10
Dozen...D.P. \$1.32 Gross...D.P. \$14.44

Falcon Mica Powder

Some prefer mica powder for the prevention of friction and sticking. We recommend Falcon Mica Powder as being the very best obtainable for the purpose. Is from selected mica, ground to a very fine powder. Is guaranteed not to cake.

Falcon Mica Powder is packed in sifting top cans, 2x7-in.



Each\$0.15
Dozen..D.P. \$2.66 Gross..D.P. \$28.88



VULCANIZERS

Portable Vulcanizers



Positive No. 140

No. 140 Positive Steam Vulcanizer repairs Auto, Cyclecar, Motorcycle and Bicycle tubes; is made expressly for repairing inner tubes, using the steam principle of vulcanizing, the method used by all tire manufacturers and the only scientific way of vulcanizing. The Positive repairs a tube so that the patch actually becomes a part of the tube. It cannot come off, which frequently happens when the patches are cemented on. Repairs a hole up to 12 inches square in any sized tube in one operation. For larger repairs reset the vulcanizer.

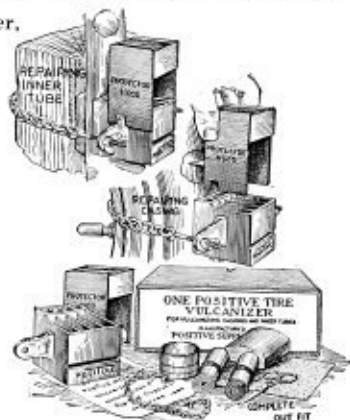
Packed in a neat box with complete vulcanizing outfit, consisting of measuring cup, screw, sandpaper, directions and enough tube repair stock to do \$5.00 worth of repair work. Weight, each, 3 lbs.

No. 140 Positive Steam Tube Vulcanizer, each.....\$1.50
Each..D.P. \$2.22

No. 142 Positive Steam Combination Vulcanizer repairs both casings and tubes; is a complete steam vulcanizing plant, put up in a small box so it can be carried in the tool kit of every car. Vulcanizes by steam, not under pressure, so cannot explode. Safe, sure—needs no attention. Repairs blow-outs, stone bruises, glass cuts and punctures in any sized casing or inner tube as perfectly as a large steam plant. Uses the same scientific method of vulcanizing by steam that all tire manufacturers use. Cannot burn, undercure, nor overcure.

Furnished free with each Positive Vulcanizer, a Complete Vulcanizing Outfit, including a measuring cup, steel protector hood, special wood block for repairing tubes, scissors for cutting the rubber, directions, and enough tube and casing repair rubber to do \$10.00 worth of repair work. Weight, each, 4 lbs.

No. 142 Positive Combination Steam Vulcanizer, each.....\$3.50
Each..D.P. \$5.55



Positive No. 142

Horsely Inner Tube Pony Vulcanizer

The Horsely Pony Vulcanizer is specially made and constructed to demonstrate that No-Cement Tube Patches can be vulcanized after applying according to directions without the use of any cement.

Is built on the principle of large vulcanizers.

Is the only small vulcanizer that has a spring tension on tube during vulcanizing.

Is the only small vulcanizer that can be handled without danger of burning your hands and the tube.

Is the only vulcanizer that is heated with denatured alcohol, giving a steady uniform heat without flaring up, and is safe and not dangerous like gasoline. Denatured alcohol is sold everywhere.

Vulcanizer is 5 x 6 inches and all parts nickel plated, and is mounted on



Horsely Pony Vulcanizer

8 x 10-inch board protected with galvanized iron.

It is the safest, the most complete, the most practical, the most perfect and the best value of any small vulcanizer sold. Will repair 90 per cent. of punctures and blow-outs.

It is built on scientific principles, and is indispensable to automobile owners and garages.

Horsely Pony Vulcanizer is packed in a substantial box with one box containing 12 assorted (large and small)

Horsely No-Cement Patches, sandpaper and instruction sheet, all complete, each.....\$3.00
Each..D.P. \$5.00

Premier Automatic Electric Vulcanizer

An absolutely safe and entirely automatic portable vulcanizer designed to operate from 110-volt lighting circuit as electricity is used instead of highly inflammable liquids as fuel.

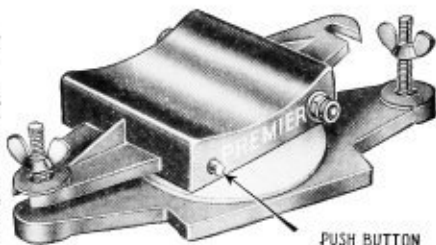
Simplicity of Operation—Simply connect to the lighting socket and press the button. Then forget it. Automatic heat controlling device assures just the correct temperature for a perfect job of vulcanizing.

The "PREMIER" Automatic Electric Vulcanizer reduces vulcanizing to a simple process. With this vulcanizer you simply make preparations for the repair, stick on the vulcanizer and press the button. This requires about three to five minutes time and no further attention is necessary, for when the repair is vulcanized the button is automatically released, which cuts off the current and the vulcanizer then cools off.

Operates under all weather conditions. No gasoline to measure, nor open flame to blow out in the wind. It will repair tubes and casings with less trouble than any other vulcanizer and burned or over-cured tubes or casings are an absolute impossibility.

Small and compact, less cumbersome than other portable vulcanizers and as it weighs approximately two pounds it is not a burden to carry in the tool compartment, but is always ready to put a patch on an inner-tube that "stays put" and to heal cuts in casings while fresh, which means much toward cutting down tire expense. It is economical, saves time and eliminates all fire danger.

The outfit includes flexible connecting cord, repair gum, cement, "PECO" tire tool, a durable chain, scissors and directions ready for use. Price complete.....\$3.50
Each..D.P. \$5.83 In lots of six, each D.P. \$5.44



PUSH BUTTON



The GIBSON COMPANY INDIANAPOLIS

SHALER

MOTORISTS' VULCANIZERS

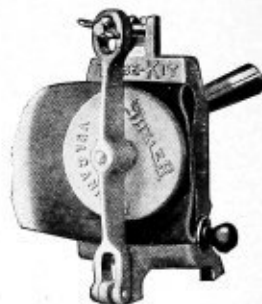
PORTABLE MODELS

Tube-Kit—For All Sized Tubes

The Tube-Kit, which is intended to be carried in the tool box of a car for emergency repairs, mends all tube injuries quickly and permanently. It is as simple and easy to use as an unsatisfactory temporary patch. This model is all that is needed if one does not want to take care of casings.

The correct amount of heat is produced by a lamp which burns gasoline or alcohol without smoke, soot or dangerous exposed flame. The fuel is contained in the lamp in such a way that accidental tipping over of the vulcanizer while in use would not cause trouble. A measure, graduated to give the proper fuel charge to cure every repair exactly right, is furnished with the vulcanizer so that no watching or regulating is necessary. The asbestos inlaid tube plate is swivelled to insure uniform pressure being applied to all parts of repair and so that the largest tube can be mended without pinching the edges. Vulcanizing surface 10 square inches. The handle is detachable and the outfit is packed in a small, strong box for carrying with car. Complete with repair material. Nickel plated.

Type F. No. 31, Shaler Tube-Kit, weight 4 lbs. \$2.00
Each. . D.P. \$2.77

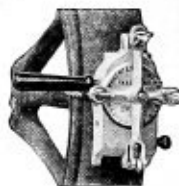


Safety Vul-Kit—Complete for Tubes and Casings

Besides making every practicable kind of tube repairs, the Safety Vul-Kit has a 3½x4 in. surface curved to fit any sized tire for mending casing injuries. This is very valuable because while tubes are only mended when the tire goes flat, casings always need attention. Small cuts neglected, quickly become blowouts. It is easy to mend a small cut while tire is on wheel. Simply fill cut with rubber, clamp on the vulcanizer and in a few minutes you have a permanent repair. Casings cost several times as much as tubes. When a casing blows out it ruins the tube too. An ounce of prevention is worth a pound of cure. As this vulcanizer produces no exposed blaze it can be used close under a fender without scorching the paint. The lamp, which burns either gasoline or alcohol, contains the fuel in such a way that it is impossible to

spill blazing liquid even if the vulcanizer were accidentally upset. The fuel supply is limited to that required for perfect vulcanization. You can't overcure or undercure a repair. Tube repairs are cured on asbestos inlaid plate, 3½ in. in diameter, which is swivelled so that uniform pressure is automatically applied to all parts of the repair. The Vul-Kit is nicked and polished, packed with repair material in strong box for carrying in tool box of car.

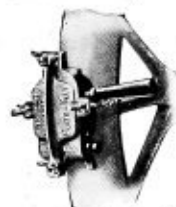
Type G No. 32, Safety Vul-Kit, weight 5 lbs. \$3.50
Each. . D.P. \$5.00



Ford-Kit—For Ford Tubes and Casings

Especially designed to fit Ford tires. It mends all tube injuries and small casing cuts as perfectly and permanently as the most elaborate outfit. Can be carried in tool box for use anywhere. This vulcanizer operates the same as the Safety Vul-Kit described above, but instead of the swivelled plate for repairing tubes, has a detachable plate, the pressure being supplied by two wing nuts.

Type H No. 33, Ford-Kit, weight 5 lbs. \$2.75
Each. . D.P. \$3.88



Ford Tube-Kit—For Ford Tubes

Identical with the Ford-Kit described above, except that it does not have a concave face for casings.

Type I No. 34, Ford Tube-Kit, weight 4 lbs. \$1.75
Each. . D.P. \$2.44

Electric Heated Model

A safe, clean vulcanizer which derives its heat from the most convenient source, by attachment to any lamp socket. Anyone can mend tubes and casings perfectly with it, as the exact vulcanizing temperature is maintained indefinitely by a thermostat which automatically closes and opens the circuit—no possibility of overcuring a repair. No watching or regulating. Although impossible to overheat a repair with this vulcanizer, deep casing repairs requiring a long cure can be cured as well as superficial cuts. Successive repairs are made by moving the vulcanizer from one to another, the handle always being cool. Tube and casing surfaces are 3½x7 in. Larger repairs made by resetting. One side of heater is concave for mending cuts on side or tread of any sized tire while inflated on wheel. Self-

adjusting universal clamp insures uniform pressure all over the repair and makes application to tube or casing easy and quick. Patented heating unit distributes the heat equally to every part of the repair. Flat face of heater used in combination with an asbestos inlaid shelf vulcanizes two tubes as quickly as one—punctures or blowouts. Connects in place of any incandescent lamp. Cost of operation about ½ cent per hour. Heats as quickly as you can get a repair ready. Packed in wooden case with complete outfit, ten foot conducting cord, repair material, Government-tested thermometer and instruction book.

Type D No. 83, A. C. or D. C. Polished Nickel, weight 13 lbs. \$12.50
Each. . D.P. \$20.86



Type D
Repairing Rim Cut



Repairing Tube

(When ordering state voltage and current and whether A. C. or D. C.)

Covers all requirements of a garage or repair shop. Handles every practicable sort of tube and casing repairs. Machined surface of the tube plate, 4x30 in., vulcanizes six tubes as quickly as one and can be heated independently of casing attachment. Swivelled clamps insure even pressure to all parts of any tube repair. All sizes of casings repaired by approved wrapped tread method as used by tire manufacturers. Simply build up a re-enforcement of fabric inside the casing and fill the hole with Para gum (it is unnecessary to cut away a lot of expensive rubber and fabric). The inside casing mandrel, 14 inches long, then applies heat directly against the fabric; the outside casing form, which has one side shaped for tread repairs, the other to fit close to the rim, heats from the outside. A wrapping of tape and the Shaler clamping device force new and old material into contact under enormous pressure. No air bags are necessary. The resulting repair becomes the strongest part of the tire. In order to fail, the re-enforcement would have to be torn loose and blown through the original hole, practically an impossibility. No attention is necessary after lighting burner. The boiler, a copper coil, raises steam in about twenty minutes and holds it at the right pressure indefinitely, a thermostat regulating the flame. Steam gauge and thermometer serve as a check on the operation by indicating both pressure and temperature. Safety valve eliminates danger of explosion.

When ordering, specify whether gas or gasoline burner is desired. Gasoline burner furnished unless otherwise specified.

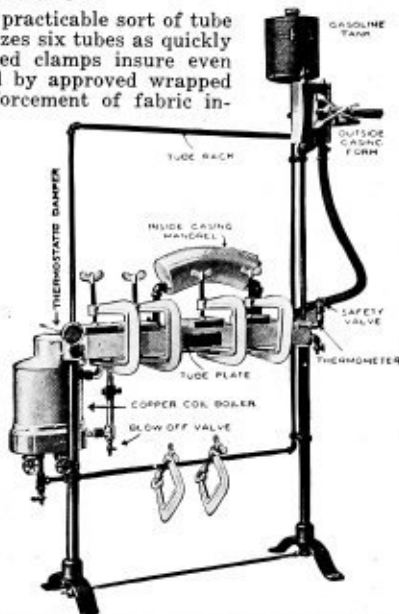
Type NPR No. 41—Complete Garage Outfit as shown, wt. 190 lbs. \$60.00
(Includes 6 clamps and blocks for tube work, bead strips for rim cuts, casing clamps, tape for wrapping treads, thermometer, steam gauge and safety valve.)

Each..D.P. \$100.00

Type NPR No. 41—Same as above but equipped for tube work only

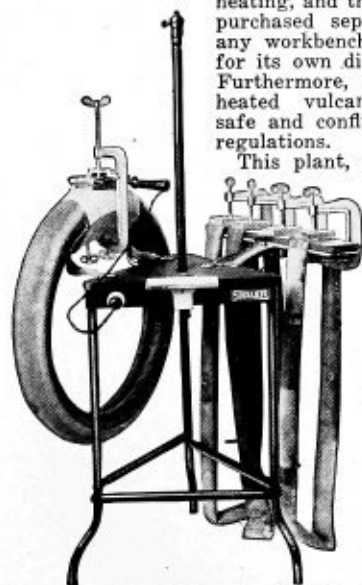
wt. 150 lbs. \$35.00

Each..D.P. \$58.33



Electric Heated Plant

Some of the advantages of a vulcanizing plant heated electrically are simplicity, portability, quick heating, and that each unit may be purchased separately attached to any workbench or table and used for its own distinct kind of work. Furthermore, the use of electric heated vulcanizers is perfectly safe and conflicts with no garage regulations.



This plant, Type ACE, consists of the complete units Type A, Type C and Type E, mounted on a strong tubular stand. It will do the same perfect work and has the same capacity as Type NPR steam plant — twenty tubes and one casing per hour.

Type C (inside casing form) and Type E (tube plate) are permanently attached to the stand and have switches to permit independent heating.

Type A (outside casing form) has five feet of conducting cord with a plug which fits a socket in the stand or any lamp socket if work is to be done elsewhere on inflated tires. All wiring is complete in the stand and connection to city current is made overhead, out of the way, through a plug at the top of the upright standard by means of extension cord to any lamp socket. No special wiring needed as the entire apparatus uses less current than a flatiron.

Type ACE No. 101 for A. C., shipping wt. 115 lbs. \$60.00
Each..D.P. \$100.00

For rheostat controlled direct current equipment, add list .. \$10.00
Each..D.P. \$36.67

Stand only, wired, for present users of electric equipment, shipping weight 40 lbs. \$7.50
Each..D.P. \$12.45

(Specify voltage when ordering electric vulcanizers.)

UNITS WHICH MAKE UP PLANT

Can be purchased and used separately

Type A—Comb Casing Form and Tube Plate

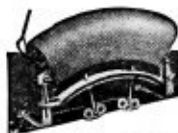


Corresponds with outside form of Type NPR, that is one face mends rim cuts, while the other fits large tread repairs. A flat surface mends one or two tubes at a time on an asbestos inlaid shelf that attaches to workbench. Temperature controlled automatically by a thermostat. No watching or regulating. Fits all sized tires and will mend cuts, etc., while tire is inflated on rim. Supplied with tube shelf, thermometer, conducting cord and full instructions.

Type A No. 61, Polished Nickel for A. C. and D. C. \$13.50
Each..D.P. \$22.48

Type C—Inside Casing Form

Corresponds with inside form on Type NPR. Used with Type A for making casing repairs by the wrapped tread method. Fits any sized tire. Supplied with tread tape, bench brackets, conducting cord and thermometer.



Type C No. 71, Thermostat Control, A. C. only.. \$20.00
Each..D.P. \$33.32

For rheostat controlled direct current equipment add \$5.00 list.
Each..D.P. \$8.33

Type E—"Gang" or Multi-Tube Model

4½x24 in. surface; mends 6 tubes at once or a two-foot slit at one setting. Furnished with 4 clamps and blocks for different sized repairs, conducting cord and two thermometers.

Type E 91, Thermostat Control, A. C. only..... \$25.00
Each..D.P. \$41.66.

For rheostat controlled direct current equipment add \$5.00 list.
Each..D.P. \$8.33



VULCANIZERS

Adamson Universal Vulcanizer Model "U"

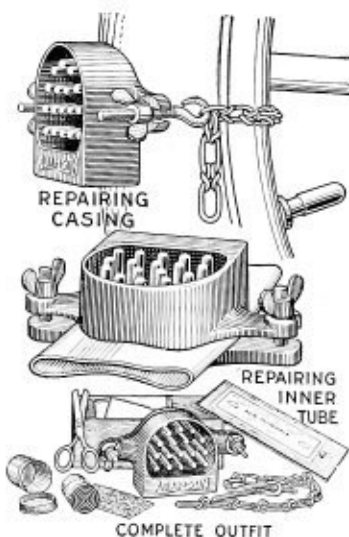
For tubes and casings.

Tire cuts ruin casings. They admit moisture to the carcass and cause the fabric to rot and weaken, grow larger—end in blow-outs. You can vulcanize your casings and tubes anywhere in 15 minutes at a cost of one cent.

Quick and reliable. Absolutely automatic. Place the patch—attach the Vulcanizer, put in gasoline—light it. No further attention required. It can't burn, scorch or injure tube or casings. It can't fail to do its work. So simple anyone can operate it.

A practical vulcanizing outfit complete with repair gum ready for instant use.

Model "U," mailing weight 4 lbs. \$3.00
Each. .D.P. \$5.00 Dozen. .D.P. \$56.00



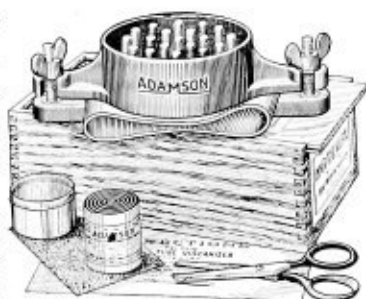
Adamson Tube Vulcanizer Model "T"

For Inner Tubes only.

A perfectly vulcanized repair in 15 minutes anywhere, on road or at home, for less than one cent.

It's quick. No cement or acid is used; the repair gum is placed on the tube according to directions. The Vulcanizer is applied by simply clamping it centrally over the repair gum and tube as illustrated. To vulcanize the repair, one ounce of gasoline is placed into the vulcanizer and ignited.

Model "T," mailing weight 4 lbs. \$2.00
Each. .D.P. \$3.34 Dozen. .D.P. \$37.34



Patented April 1, 1913
A Complete Outfit with Repair Gum, Ready for Instant Use

Adamson Stationary Vulcanizer Model "S"

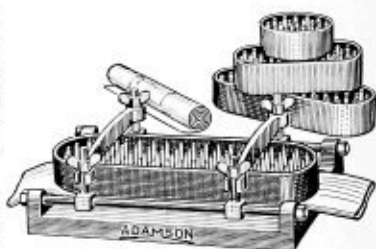
For private garages and repair shops. The most profitable investment a repairman can make.

This outfit is especially designed for repairing inner tubes. It is entirely automatic. Requires no attention. Anyone can operate it. No steam—no electricity. The most practical and most convenient vulcanizer made.

With this Vulcanizer a cut 12 inches in length is repaired in 15 to 20 minutes. You positively can not injure tubes as with other vulcanizers. The patch is prepared in the usual manner common to repair shops and the proper size cup is clamped directly over the repair. The bottom faces of the cups are polished and slightly concave; this prevents the gum from flowing and produces a perfect patch.

To vulcanize the repair, the proper amount of gasoline is placed into the Vulcanizer and ignited; no further attention is required.

Model "S," complete with $\frac{1}{2}$ lb. repair gum, shipping weight 30 lbs. \$12.00
Each. .D.P. \$18.66



Patented April 1, 1913

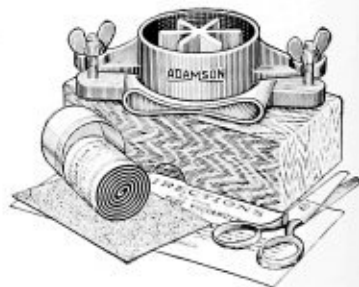
Adamson "Ford Special" Vulcanizer Model "M"

Especially adapted for repairing motorcycle, bicycle, Ford and cyclecar tubes.

A perfectly vulcanized repair in 15 minutes, anywhere, on road or at home, for less than one cent.

It's quick. No cement or acid is used, the repair gum is placed on the tube according to directions. The Vulcanizer is applied by simply clamping it centrally over the repair gum and tube as illustrated. To vulcanize the repair, one ounce of gasoline is placed into the Vulcanizer and ignited.

Model "M," mailing weight 2 lbs. \$1.50
Each. .D.P. \$2.48 Dozen. .D.P. \$28.00



Patented April 1, 1913
A Patented Outfit with Repair Gum, Ready for Instant Use



STANWELD RIMS

Stanweld Series Twenty

Simplicity and ease of operation are the dominating qualities of the Series Twenty, Stanweld Demountable Rims.

You will find few rims as light in weight, yet capable of performing the same functions as the Series Twenty Stanweld Rims.



Cross-Section of No. 21 Rim

Cross-Section of No. 22 Rim



No. 21 Rim Unlocked for Removal of Casing

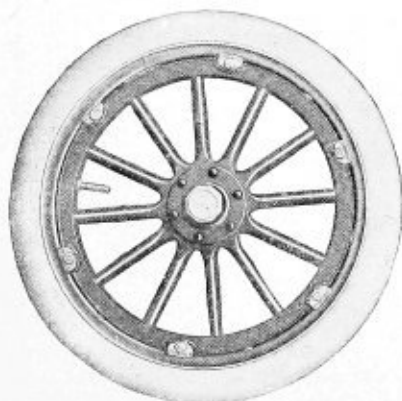
What a Set of Rims Consists of:

A complete set of 21 or 22 rims consists of:

- Four (4) Felloe Bands;
- Five (5) Complete Rim Bases;
- One (1) Brace Wrench.

All bolts, wedges and screws necessary for proper application of the rims to wheels are furnished.

	Per Set	Spares, Each.
No. 21 or 22 Stanweld Rims, 30 or 32x3½	\$21.00	\$3.00
No. 21 or 22 Stanweld Rims, 32, 34 or 36x4	23.50	3.50
No. 21 or 22 Stanweld Rims, 34 or 36x4½ or 5	27.65	4.25



Stanweld Series Twenty

Spare Parts for Stanweld Series Twenty Rims

Series Twenty Stanweld Rims are made in two types—the Straight-Side Type, or Number Twenty-One Rim, and the Clincher Type, or Number Twenty-Two Rim.

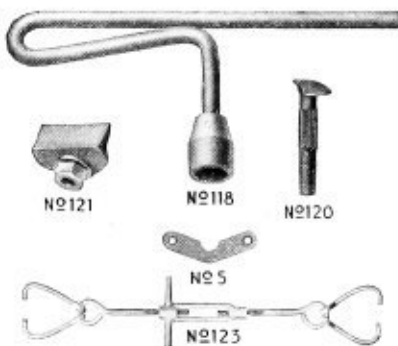
Each size of the Straight-Side Type is made in two different widths. One width is known as the "Regular," or "Narrow-Base," the other is known as the "New-Style," or "Wide-Base."

Clincher-Type rim-bases are NOT made in the "Wide-Base" style. They can, however, be applied to the "wide-base" felloe-band provided new wedges are used—wedges imprinted with the letter "C."

"Wide-Base" Straight-Side Rims will NOT fit "Narrow-Base" felloe-bands. If a car is equipped with "Narrow-Base" felloe-bands and the owner wishes to apply Straight-Side rim-bases without changing felloe-bands, he must purchase "Narrow-Base" Straight-Side rim-bases.

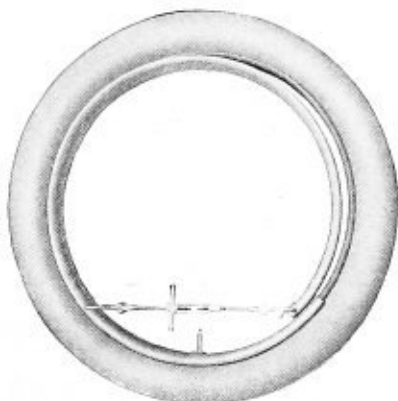
A car equipped with any type of felloe-band that will accept Series Twenty rim-bases, such as the Number Three Gilbert-Type Continental Rim, can be re-equipped with new Number Twenty-Two (Clincher-Type) rim-bases or new Number Twenty-One (Straight-Side-Type) "Narrow-Base" rim-bases.

When ordering spare parts always give the part number (see illustrations), the type of rim, the size of rim, and if the parts are desired for Straight-Side Rims, state whether "Wide-Base" or "Narrow-Base." To distinguish between "Wide-Base" and "Narrow-Base" rims all "Wide-Base" rims are imprinted in the metal of both the rim-base and felloe-band "Wide-Base."



Parts for Stanweld Rims, Types 21 and 22

Felloe Bands, 32, each	.....	\$1.80
Felloe Bands, 4, each	.....	1.90
Felloe Bands, 4½ and 5, each	.....	2.10
No. 120 Bolt, each	.....	.15
No. 5 Wedge Plate, each	.....	.06
No. 121 Wedge with Nut, each	.....	.20
Cam Lock for Latch, each	.....	.15
No. 118 Demounting Tool, each	.....	1.00
No. 123 Turnbuckle Detaching Tool, each	.....	1.00



Showing Turnbuckle Tool in Use



PUMPS

Springfield



Springfield Single Action Tire Pump. The barrel is of best Mandrel Drawn Brass Tubing, 27 inches long, 1 3/16 diameter, 20 gauge. Hose is of the best 5-ply rubber, guaranteed to stand 200 pounds pressure. Weight, 2 1/2 pounds.

Each \$3.50

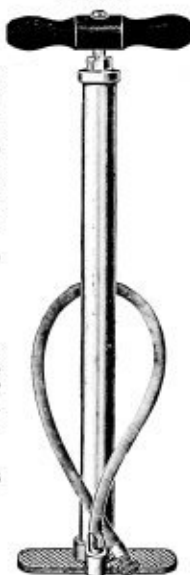
Each..D.P. \$4.44
Dozen..D.P. \$50.00

Crown Single Action Tire Pump for small size tires. Barrel made of heavy seamless brass tubing, 1 1/2-inch. Full length of pump, 20 1/2 inches.

Each \$1.25

Each..D.P. \$1.76
Dozen..D.P. \$20.00

Crown



Aeolus



Aeolus Double Cylinder Tire Pump. Cylinders made of seamless brass tubing; absolutely non-leakable. The air intake, as well as delivery of air into tire, is at top of pump. Full length, 20 inches.

Each \$2.25

Each..D.P. \$3.10 Dozen..D.P. \$33.33

Stapley Compound Tire Pump. Will inflate a tire to required pressure quickly. Cylinder is a seamless brass tube; the base is non-leakable.

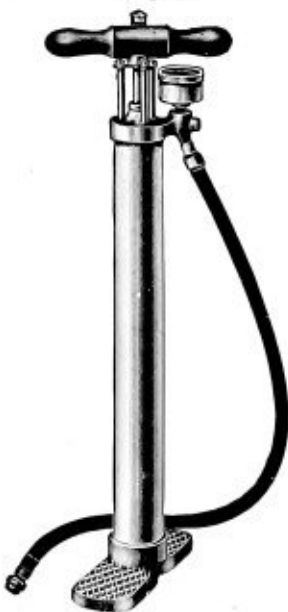
Stapley Pump, without gauge, each \$3.50

Each..D.P. \$5.00 Dozen..D.P. \$57.33

Stapley Pump, with gauge, each 4.50

Each..D.P. \$7.52 Dozen..D.P. \$83.33

Stapley



The Victor

The Victor Triple Action Hand Pump will inflate tires with less strokes than any other. Has no valves to get out of order. Packing made from Metallic Tanned Leather and guaranteed. Heavy tubes expanded and soldered into the deep collar at the base. The original three-cylinder pump. Not best because it was first, but first because it is best.

Each \$5.00

Each..D.P. \$7.76

THE VICTOR



The Yankee Folding

The Yankee Folding Pump makes hand inflation of automobile tires a simple and easy matter. Built to clamp quickly to the running board of any automobile, it is worked easily, with one hand, from a natural upright comfortable position. This is in strong contrast to the position necessitated in the operation of the ordinary pump, which requires the use of both hands and feet, and all of one's body.



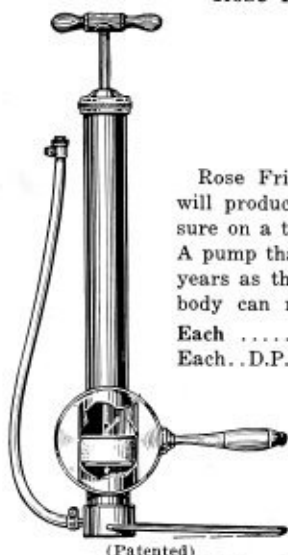
Yankee Folding Pump, without gauge, each.....\$4.50
Each..D.P. \$7.22

Yankee Folding Pump, with gauge, each..... 5.50
Each..D.P. \$8.88



PUMPS

Rose Pump



(Patented)

Rose Frictionless Auto Tire Pump will produce 200 pounds of air pressure on a test gauge with one stroke. A pump that will work as well in five years as the day purchased, and anybody can repack it in two minutes.

Each \$2.50
Each..D.P. \$3.88

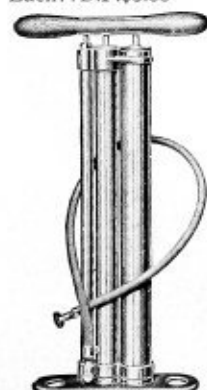
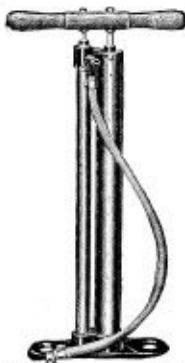
Kellogg Pumps

A very powerful and easy working two-cylinder pump. Pistons and stuffing boxes of special Kellogg design and are easily repacked. Cylinders are heavy gauge brass tubing and will not rust. The foot piece is large and strong and the handle extra smooth.

Length over all, 19 inches; large barrel, 1 1/4 inches; small barrel, 1 inch.

Inflates a tire quickly and with little effort. A thoroughly dependable pump in every way.

No. 8 Kellogg Compound Pump, each.....\$2.50
Each..D.P.\$3.88



Kellogg Special Compound Three Barrel Pump, each \$4.00
Each..D.P.\$6.66

Will inflate a tire in the shortest possible time with the least amount of effort. Three stage compression. Pistons and stuffing boxes of special Kellogg design. Cylinders are heavy gauge brass tubing and will not rust. Foot piece is extra broad and strong. Handle extra large and finished smooth to prevent blistering the hands.

A very satisfactory, efficient, and dependable pump of large volume.

Length over all, 19 inches; sizes of barrels, 2 inches, 1 1/4 inches, and 1 inch.

Kellogg Engine Driven Tire Pump

For Dodge and Chevrolet



Complete with hose, gauge and all fittings for the Chevrolet and Dodge for which that model was made expressly. All metal construction, piston rings, babbitt lined bearings, and other features insure satisfactory service from this pump.

Complete instructions with installation drawings are furnished with each outfit. No machine work is needed to attach the pump. All fittings are furnished properly machined and ready to install.

No. 121 Kellogg Engine Driven Tire Pump, each \$10.00
Each..D.P. \$15.55

Kellogg Engine Driven Tire Pump

For the Model T Ford



Complete with hose, gauge, and all necessary fittings ready to install. Is attached in twenty minutes without removing radiator and does not interfere with the following starting systems: Gray & Davis, Genemotor, Dyneto, and North East. In ordering, mention starter used.

This is a high grade pump in every way. All metal construction, piston rings, babbitt bearings, etc., and is driven by spur gears just like the larger engine driven pumps.

We recommend this pump as a very useful and dependable equipment for the Ford car.

Ford Model Kellogg Engine Driven Tire Pump, each \$8.50
Each..D.P. \$14.10



The GIBSON COMPANY INDIANAPOLIS

PUMPS

Kellogg Engine Driven Tire Pump

Complete with hose, gauge and all necessary fittings, ready for installation on almost every car, including Buick, Chalmers, Chandler, Hudson, Hupmobile, Oakland, Oldsmobile, Overland, Reo and Studebaker, as well as cars using Buda, Continental, Herschell-Spillman 8 and Northway motors.

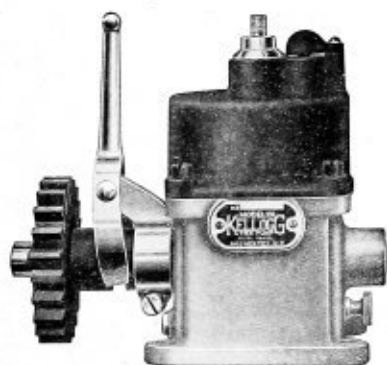
Guaranteed Not to Spray Oil with the Air

This feature, with all metal construction, babbitt lined bearings, piston rings, poppet valves, and the Kellogg system of lubrication, make for the superiority of the pump.

We recommend it because of its proven efficiency, durability, and the satisfactory service it has given.

In ordering give name, model and year of car to be equipped.

No. 101 Kellogg Engine Driven Tire Pump, each.....\$15.00
Each . . D.P. \$23.32



No. 101 Kellogg

Fittings now ready for equipping the following cars with No. 101 Kellogg Pump. Fittings are properly designed and carefully machined. They are attached without machine work in a very short time. Complete directions are furnished with each outfit:

Abbott-Detroit	44-50, 1912-13-14. Six Cylinder, 1914.	Mitchell	Six Cylinder, 1915. Four Cylinder, Six Cylinder, 1914.
Aleo	Six Cylinder, 1910-11-12-13.	Monarch	Six Cylinder, 1915.
Apperson	6-45, 1914-15. Light Six, 1915. (Advise whether motor base is drilled for pump bracket.)	Moon	6-40, 1915. 6-50, 1914-15.
Auburn	6-40, 1915-16, 6-47, 1915. (Continental motor.) Four Cylinder, 1916. (Teetor motor.)	Marion	Four Cylinder, 1912.
Buick	D44, D45, D46, D47, D54, D55, 1916. C-55, C4, C36, 37, C98, C24, C25, 1915. B56, B37, B38, B55, B24, B25, 1914. 30, 31, 1913. 28, 29, 1912. 26, 27, 1911.	National	Six Cylinder, 1914-15.
Cadillac	1913-14-1912-1911-1910. (Early or late.)	Oakland	37, 49, 1915. 36, 48, 43, 1914. 4-42, 1913.
Cartecar	9, 1915. 7, 1914. 5, 1913-14. 8, S.A., R, 1912.	Oldsmobile	35, 1912-13. 40, 1912. 43, 1916. 6-55, 1915. 42, 1914-15. 6-54, 1914.
Case	25, 1915. 35, 1914-15. 40, 1912-13-14.	Overland	Six Cylinder 86, Knight 84, 83, 82, 81, 80, 79 and 69 (with Magneto Coupling Hub, 1 1/2" diameter), 69 (Bosch Magneto), 61, 58, 40, 41, 42, 45, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61.
Chalmers	32, 6-40, 1915-16. 26, 1914-15. 24, 1914. 29, 1915. Master Six, 1914-15-16 (Bosch Magneto).	Ogren	Six Cylinder, 1915.
Chandler	14-15-16 (Bosch Magneto).	Pierce-Arrow	1909-15.
Chevrolet	Four Cylinder, 1914-15-16. (Special Pump, \$10.00.)	Packard	3-38, 4-48, 1915. (Special. Buy from Packard.) 14-48, 2-38, 1914. 38, 1913. 30, 1908-09-10-11-12.
Cole	Eight Cylinder, 1915-16. 4, series 30, 1915. Series 9 and 10, 1914-15. (State whether drive gear is already on motor.) 6-60, 4-40, 1914-15. 6-60, 40, 1913. 30, 1912.	Paige-Detroit	6-46, 1915-16. (State whether there is leather coupling in water pump shaft.) 4-36, 1914-15.
Everett	Six Cylinder, 1913.	Pathfinder	Big Six, 1915. Six Cylinder, 1914.
Flanders	Six Cylinder, 1913.	Paterson	4-33, 1914. Four Cylinder, Six Cylinder, 1915.
Franklin	Six Cylinder, 1914.	Reo the Fifth	1915. (State whether leather or metal disc generator coupling.) Models before 1915.
Grant	Six, 1915. (Special Pump, \$10.00.)	Simplex	38-50, 1915. 38-50, 1914.
Haynes	Light Six, 1915.	Speedwell	Six Cylinder, 1914-15 (Continental Motor).
Hudson	6-40, 6-54, 1914-15-16. 54-1913. 37, 33.	Standard Steel	Eight Cylinder, 1915.
Hupmobile	N, 1916. K, 1915. 32, 1913-14.	Stearns	Four Cylinder, 1916. Six Cylinder, 1915-16. Light 4, 1915.
Imperial	Six Cylinder, 1915. 6-54, Four Cylinder, 1914. Four Cylinder, 1913.	Studebaker	Four Cylinder, Six Cylinder, 1916. Six Cylinder, 1914. (Leather Generator Coupling.) Four or Six Cylinder, 1914-15. Coupling A or B.
Jackson	6-48, 4-44, 4-46, 1915. Majestic Olympic, 1913-14.	Stutz	Four Cylinder, 1914-15-16. Six Cylinder, 1914-15.
Jeffrey	Four Cylinder, 1914-15.	Vello	Big Six, 1914-15.
King	Four Cylinder, 1914-15 (Atwater Kent Ignition).	Westcott	Four Cylinder, 1914-15. Six Cylinder, 1914. 1915. 1750.
Kissell	6-48, 1914-15. 4-36, 6-42, 1915. (State if there is a pad on motor for pump base.) 4-40, 1914. 6-60, 1913-14.		All cars using motors below.
Lexington	Light Six, Six Cylinder, 1914. Supreme Six, 1915. Four Cylinder, 1914.	Continental	Model 6P, 6C, 6N, 4E, 4C, 7N, 7W.
Lewis	Six Cylinder, 1914-15.	Northway	Model 33, 37, 42, 39, 40.
Lozier	77.	Buda	Model 88, 3 1/2" x 5 1/2", LSU, 3 1/2" x 5 1/2".
Marmon	41, 1914.	Teetor	Model Big Six, 4 1/2" x 6".
Maxwell	25, 1914-15-16. (Special Pump also, \$10.00.) Six Cylinder, 1914.	Herschell-Spillman	Model Eight Cylinder.



PUMPS

Stewart Engine Driven Tire Pump

The Stewart Power Pump, operated by your engine, quickly fills any size tire in a few minutes. Easily installed by any one, on any car—old or new.

A real pump for only \$12.00. Mounted right on the motor. Simply throw over the lever and the pump operates instantly. Throw out the lever when tire or air-starter is sufficiently filled up. Means keeping your tires up to proper inflation pressure.

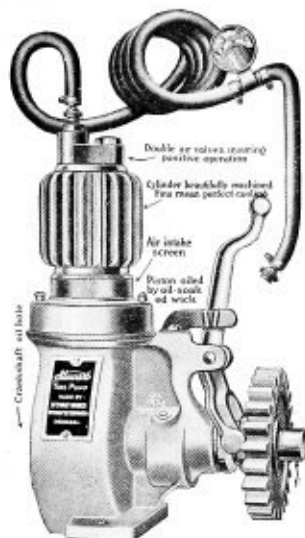
The Stewart Tire Pump is not only the most perfect and most efficient pump built, but it is also cheaper in price than even poorly built pumps. Cylinder is a finely machined job. It is air-cooled, with projecting fins on the cylinder to aid the cooling. Double air valves are provided, which means that pump is efficient to the last pound of pressure.

There are no rubber nor leather packings to wear and cause leakage. Its capacity is such that it will fill a 36-inch x 4 1/2-inch tire in less than five minutes. Piston rubs against an oil-soaked wick, which supplies every bit of oil it needs, and yet prevents excessive oiling. This wick projects outside, where oil is dropped on it through two small oilers. Crank shaft is provided with a separate oiler. The bottom of the crank-case is open, so that in case there should be the least amount of free oil it will immediately drop out. None can be carried up through the air connection and into the tires.

This is without question the best tire pump ever offered.

In ordering, state year, model and make of car pump is wanted for.

Price, with air-pressure gauge and 15 feet of high grade hose, with bracket and gears complete, ready to install right on your car.....\$12.00
Each...D.P. \$17.76



Fittings are now ready for equipping the following cars with Stewart Pump:

Abbott-Detroit	Model 8, F6, 1916, 6-00, 44-50, 34-40, 1914, 6N, 1915.
Allen	4-40, 5-00, 6-15, 6-48, 1915, 6-60, 1914.
Apperson	4-28, 6-38, 6-40A, 1916, 4-36, 4-38, 6-40, 1915, 4-40, 1914.
Auburn	Model 6, 1915.
Black Hawk	Model 4, 1914-15.
Briscoe	Model R, U, and O.
Buda Motors	D44, D45, D46, D47, D55, 1916, 24C, C36, C37, C35, C44 Truck, 1915, 24B, 25A, 36B, 37B, B55, 1914, 24, 25, 36, 37, 4-30, 4-31, 1913, 4-28, 4-29, 1912.
Buick	1911-12-13-14.
Cadillac	Model 7, 5A, 1914, 9, 1915, 5A, 1913, 40, 4-25, 1915, 40, 1914.
Cartercar	35, 1916, 32, 26-B-6, 1915, 24-6, 24-4, 1914.
Case	Model 6, 1914-15.
Chalmers	Baby Grand, 1916, H2, H4, 1914-15.
Chandler	Eight Cylinder, 1916, 6-00, 4, Little Six, 1915, Little Six, 4, 6-00, 1914, 4, 4-50, 6, 1913, Commerce Truck.
Chevrolet	1916, 6N, Four Cylinder, 1915.
Cole	1915-16.
Davis	4-30, 1912.
Dodge	Six Cylinder, 1915-16.
E. M. F.	1916, 6N, Four Cylinder, 1915.
Enger	Six Cylinder, 1915-16.
Franklin	Six Cylinder, 1914-15.
Haynes	32, 1915, 6-27, 4-28, 1914, 4-50, 4-38, 6, 1913.
Halladay	Six Cylinder, 1915.
Hudson	6-40, 6-54, 1914-15-16, 54, 1913.
Hupmobile	K, 1915.
Imperial	1916, 4-64, 1915, 44, 54-6, 1914.
Jackson	4-34, 44, S, 1916, 44, 46, 48 Olympic, 1915.
Jeffrey	Four Cylinder, 1914-15.

King	Eight Cylinder, 1916.
Kissel	4-35, 6-42, 1916, 1915.
Lexington-Howard	GM, 1916, 6N, 1915, Six Cylinder, 1913-14.
Madison	1916.
Marion	1916.
Maxwell	1916, 25, 1915, 25, 35, 6-50, 1914.
M. C. H.	1916.
Merced	1914, 1915, Six Cylinder.
Mitchell	Eight Cylinder, 1916, 4-40, 4-50, 6-50, 6-00, 1914.
Moon	6-30, 6-40, 1916, N, 6N, 1915.
National	Six Cylinder, 1915-16.
Oakland	8-50, 37, 38, 1916, 37, 6-48, 6-49, 1915, 36, 37, 49, 1914, 6-00, 1914-15.
Ogden	6-00, 1914-15.
Oldsmobile	43, 8-44, 1916, 42, 45, 1915, 42, 54, 1914.
Overland	83, 86, 1915-16, 80, 81, 82, 1915, 69, 79, 1914.
Packard	2-38, 4-48, 1915, 1-38, 3-48, 1913-14, Model 30, 1908-9-10-11-12.
Paige	6-36, 1916, 4, 6-46, 1915, 36, 1913-14.
Patfinder	6N, 1916, 1914-15.
Premier	18E, 1915.
Reo	Four Cylinder, Six Cylinder, 1916, 1912-13-14-15.
Standard Steel	Eight Cylinder, 1915-16.
Studebaker	Four Cylinder, Six Cylinder, 1914-15-16, Four Cylinder, 1913.
Stutz	C4, 1916, 4F, 1915, 4E, 1914, 4B, 1913.
Velic	Big Six, 6-22, 1916, 11, 1915, 9, 10, 1914.
Westcott	6N, 1916, 4-35, 6-50, 6N, 6D, 1915, Six Cylinder, 6D, 4-40, 1914, 4-40, 6, 1913.
Willys-Knight	Model 84, 1916.



The GIBSON COMPANY INDIANAPOLIS

PUMPS

The Manzel Engine Driven Tire Pump

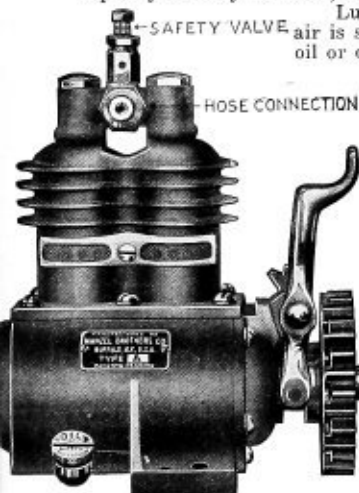
Will pump the tire in less time than it usually takes to locate the hand pump

The Manzel Tire Pump is placed on the side of the motor, right under the hood, and is always ready for use. To inflate a tire it is only necessary to attach the hose, throw the gears into mesh and start the engine.

Manzel Pumps are made in two styles—the Two Cylinder Model, considered by every one to be the height of efficiency in tire pump construction, and the Single Cylinder Model, a very durable and efficient machine, which is considered to be superior to any other single cylinder pump on the market at the present time.

Both models are built on the same principle, and with the same exacting care. They are all metal and there is nothing used in the construction of either which is likely to wear out or require replacing. All parts are accurately fitted and ground, and the workmanship is equal to that of the highest priced motors. They have ample capacity for any size tire, each pump being tested to 250 pounds pressure before leaving factory.

Lubrication is by means of the splash system. There is only one place to oil. Pure SAFETY VALVE air is supplied to the tire, each pump being equipped with an air filter which prevents any oil or dirt from getting into the tube.

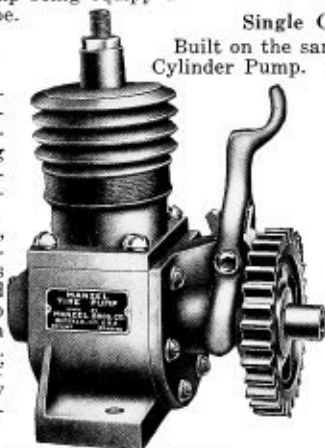


Double Cylinder Model

Built like an engine—has fine gray iron cylinders, pistons and piston-rings—bronze connecting rods and bearings—drop-forged steel crank shaft—aluminum crank case.

The pistons are opposed, giving an absolutely uniform flow of air. It runs smoothly and easily and will fill the largest tire to any desired pressure in about three minutes' time.

A special feature of this model is the safety valve to prevent over-inflation of the tires.



Single Cylinder Model

Built on the same principle as the Two Cylinder Pump. Has fine gray iron cylinder, piston and crank case—steel piston-rings—bronze connecting rod—bronze bearings—drop-forged steel crank shaft.

The greatest strain on any tire pump is on its connecting rod and crank-shaft bearings. We have given this matter particular attention, providing a wide bearing on the connecting rod and on EACH side of the crank shaft.

Any Automobile Owner Can Install the Manzel Pump

You can install a Manzel Pump on your own car. The services of a mechanic are not required. There are no holes to drill or machine work of any kind to do. Brackets and necessary gears are supplied, correctly designed and fitted for each individual car, and the installation can be made by any one in about one hour's time.

List of cars for which we can supply fittings:

DOUBLE CYLINDER FITTINGS		SINGLE CYLINDER FITTINGS	
Abbott-Detroit 44, 1912; 34-40, 44-50, 1913; 34-40, 41-50, 50-60, 1914; P. 8-cyl., 1915; 8-cyl., 1916	Mitchell 4, Little 6, Big 6, 1914; Big 6, Special 6, 1915.	Abbott-Detroit 44, 1912; 44-50, 1913; 44-50, 50-60, 1914;	Oldsmobile 6, 1914; 42, 6-55, 1915; 43, 1916.
Buick 17, 1909; 17, 19, 1910; 26, 27, 1911; 28, 29, 34, 35, 43, 1912; 24, 25, 30, 31, 40, 1913; B24, B25, B36, B37, B55, 1914; C24, C25, C36, C37, C38, C54, C55, 1915; D44, D45, D46, D47, D54, D55, 1916.	Monarch 6, 1915.	Cadillac 1910-11-13-14.	Packard 30, 1907-08-09-10-11-12, 3-48, 1914; 2-38, 1915.
Cadillac '09-10-11-12-13-14.	Moon 6-40, 1915.	Cartercar 7, 1914; 9, 1915.	Paige-Detroit 4-36, 1913-14-15; 6-46, 1915.
Cartercar R, 45, 1912; 5, 1913; 5, 7, 1914; 9, 1915.	Oakland 40, 45, 1912; 35, 42, 6-60, 1913; 36, 6-48, 6-61, 6-62, 1914; 37, 1915; 38, 39, 1916.	Case 35, 40, 1914.	Rambler Cross Country 1913-14.
Case 35, 40, 1914.	Oldsmobile, 6, 1914; 42, 6-55, 1915; 43, 1916.	Cole 6-60, 19, 4-45, 1914; 10, 4-45, Light Six 1915.	Reo the Fifth 1911-12-13-14-15-16.
Chalmers 30, 1912; 24, 1914; 26A, 26B, 29, 1915; 32, 1916.	Overland 54, 59, 1911; 61, 1912; 69, 71, 1913; 79, 1914; 80, 81, 82, 1915; 83, 86, 1916.	Continental Motors 7N, 7W.	Simplex 3-38, 1909-10-11-12-13.
Chandler 6, 1914-15-16.	Packard 30, 1907-08-09-10-11-12; 3-48, 1914; 2-38, 1915.	Elkhart 8, 1915-16.	Speedwell 6, 1913-14.
Chevrolet 6, 1913-14-15.	Paige-Detroit 4-36, 1913-14-15; 6-46, 1915.	E. M. F. 30, 1910-11-12.	Standard Steel Car Co., S, 1915-16.
Cole 4-40, 6-60, 1913; 6-60, 10, 4-45, 1914; 10, 4-45, Light 6, 1915; 6-00, 1916.	Rambler Cross Country 1913-14.	Enger 6-50, 1915.	Studebaker 4-35, 1913; 4-25, 6-40, 1914-15.
Dodge 1915.	Reo the Fifth 1911-12-13-14-15-16.	Franklin 6, 1914.	Stutz 4, 6, 1914; 4, 1915.
Elkhart 8, 1915-16.	Simplex 3-38, 1909-10-11-12-13.	Jeffery 4, 1914-15-16.	Velle 4-45, 6-50, 1914; 4-45, Big 6, 11, 1915; 15, 22, 1916.
E. M. F. 30, 1910-11-12.	Speedwell 6, 1913-14.	Kissel Kar 4-10; 6-48, 6-60, 1914; 4-36, 6-42, 6-48, 6-60, 1915.	Westcott O35, U50, 1915.
Enger 6-50, 1915.	Standard Steel Car Co., S, 1915-16.	Maxwell 25, 6150, 1914; 25, 1915.	Trucks
Franklin 6, 1914.	Studebaker 4-35, 1913; 4-25, 6-40, 1914-15.	Michigan 40, 1913-14.	Lippard-Stewart Truck 1912-13-14.
Grant 6-cyl., 1915.	Buick Truck 4C, 1915; 4D, 1916.	Price	Stewart Motor Corp. 4-40, 1913-14.
Hudson 33, 1912; 37, 54, 1913; 6-40, 6-54, 1914-15-16.	Lippard-Stewart Truck 1912-13-14.	Each ..D.P. \$12.00	Reo Model F, 1915.
Hupmobile 1915.	Reo Model F, 1915.	Special List of Additional Models	Stewart Motor Corp. 4-40, 1913-14.
Imperial 6, 1914.	Stewart Motor Corp. 4-40, 1913-14.	Buick 17, 1909; 17, 19, 1910; 34, 35, 1912; 24, 25, 1913; B24, B25, B36, B37, B55, 1914; C24, C25, C36, C37, C54, C55, 1915; D44, D45, D46, D47, D54, D55, 1916.	Price
Jeffery 4, 1914-15-16.	Trucks	Truck 4C, 1915; 4D, 1916.	Each ..D.P. \$15.55
Kissel Kar 4-10; 6-48, 6-60, 1914; 4-36, 6-42, 6-48, 6-60, 1915.	Lippard-Stewart Truck 1912-13-14.		
Maxwell 25, 6150, 1914; 25, 1915.	Reo Model F, 1915.		
Michigan 40, 1913-14.	Stewart Motor Corp. 4-40, 1913-14.		
Price			
Each ..D.P. \$23.33			

Above prices include necessary brackets and gears, fifteen feet of air hose, pressure gauge, etc.—everything ready for immediate attachment.

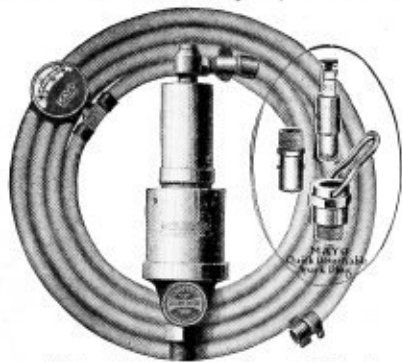
If interested in any model not listed above, write us, as this list is being added to continually.



PUMPS

Mayo Spark Plug Pump

A thoroughly reliable pumping plant which can be instantly attached to all four-cycle motors of two, four or six cylinders (not operative on two-cycle motors) and be depended upon in every instance to inflate the tire with pure, fresh air in from two to four minutes, depending on size and pressure desired. Guaranteed pressure obtainable, 100 pounds and over. Can be attached to any car in a few seconds' time and cost of outfit is final. Anybody can use it with sure results.



Let the Motor Pump Your Tires

Simply remove a spark plug from any convenient cylinder and substitute the pump (with the hands only) is the advantageous method of attaching to all motors. After connecting the hose from the pump to the tire, the motor should be started and run on low throttle from two to four minutes until the tire has been inflated to the pressure desired.

PUMPING TIRES THE "SPARK PLUG" WAY
MAKES HARD WORK EASY ON THE
HOTTEST DAY

You save 25% of Your Tire Expense Using this Outfit

This claim is corroborated by thousands of automobile owners from actual experience. The Mayo Spark Plug Pump enables you to keep your tires properly to pressure all the time so that full mileage service is obtained, to say nothing of the great convenience and labor saving advantages. The pump is noiseless in operation, non-adjustable, requiring no attention whatever other than an occasional drop of oil, and works equally well on all sized cars. Small, light, compact—weighing only 2½ pounds—which can be carried anywhere. Always in working order and ready for use. The pump is fully guaranteed for one year—built like your motor with metal rings and to last as long as your car.

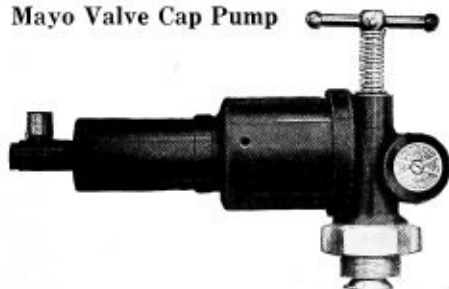
Outfit consists of pump with adapter to fit any car, 12 ft. superior hose, with connections and guaranteed accurate pressure gauge installed in the hose line ready for use.

Price \$8.00
Each..D.P. \$13.32

A MAYO QUICK DETACHABLE SPARK PLUG greatly adds to the convenience of using the pump outfit. Can be installed in your motor the same as an ordinary spark plug. A quarter turn of the lock handle permits the core of the special spark plug to be slipped out—pump slips in and is locked ready for use in the same manner. Both operations in two seconds. Furnished in ⅜-18 and ½-inch sizes (no metric) complete with connection for Mayo pump. \$1.50 extra.

Each..D.P. \$2.44

Mayo Valve Cap Pump



A "Stay on the Motor" pump always attached and ready for service. To fit your engine, remove a cap from over one of the exhaust valves and tap same 1½-24 thread. Install pump into the valve cap as per directions furnished. This pump is fully guaranteed to give satisfactory service. Furnished complete with 14 ft. of superior hose, with accurate gauge and connections and full directions for attaching.

Each \$10.00
Each..D.P. \$16.66

Before ordering examine your motor to be sure valve cap can be drilled and tapped 1½-inch. If not, consult your local machinist about making a new valve cap.

Mayo Ford Pump

A diminutive Mayo Spark Plug Pump built especially for the Ford car. A real power tire pump guaranteed to give satisfaction and inflate a tire with pure, fresh air. 32 x 3 size to 65-lb. pressure in two minutes; 32 x 3½ size to 70-lb. pressure in three minutes. Attached and used the same as the standard Mayo Spark Plug Pump. Construction is strong—metal piston rings and valves used. No wearing parts to break or get out of order—fully guaranteed for one year.



Fitted with ½-inch connection and furnished complete with 10-foot hose, accurate gauge and connections.

Each \$5.00
Each..D.P. \$8.33



PUMP ACCESSORIES



Pump Leathers

The size of a cup means the outside diameter of the cylinder for which the cup is intended. For instance, our 1-inch cup fits a cylinder which is one inch outside diameter. Remember this when ordering.

Pump Leathers, 1/2-inch, each	.....	\$.02
Per Dozen, D.P. \$0.26	Per 100, D.P. \$1.66	
Pump Leathers, 1-inch, each	.....	.02
Per Dozen, D.P. \$0.26	Per 100, D.P. \$1.66	
Pump Leathers, 1 1/2-inch, each	.....	.02
Per Dozen, D.P. \$0.33	Per 100, D.P. \$1.76	
Pump Leathers, 1 1/2-inch, each	.....	.02
Per Dozen, D.P. \$0.33	Per 100, D.P. \$1.76	
Pump Leathers, 1 1/2-inch, each	.....	.03
Per Dozen, D.P. \$0.44	Per 100, D.P. \$2.76	
Pump Leathers, 1 1/2-inch, each	.....	.05
Per Dozen, D.P. \$0.88	Per 100, D.P. \$5.55	
Pump Leathers, 2-inch, each	.....	.05
Per Dozen, D.P. \$1.00	Per 100, D.P. \$6.10	
Pump Leathers, 2 1/2-inch, each	.....	.15
Per Dozen, D.P. \$3.32	Per 100, D.P. \$22.00	
Pump Leathers, 3-inch, each	.....	.15
Per Dozen, D.P. \$3.54	Per 100, D.P. \$23.32	

Pump Leathers in Sets



Leather Packing Sets for the leading makes of auto pumps. What they fit—

No. 1 Set fits the Stapley Pump, per set	.....	\$.05
Per Set, D.P. \$0.15	Per Dozen Sets, D.P. \$1.66	
No. 2 Set fits the Brown Impulse Pump, per set	.....	.35
Per Set, D.P. \$0.27	Per Dozen Sets, D.P. \$1.88	
No. 3 Set fits the Imperial Wixom Pump, per set	.....	.15
Per Set, D.P. \$0.15	Per Dozen Sets, D.P. \$1.66	
No. 4 Set fits the Aeolus Pump, per set	.....	.15
Per Set, D.P. \$0.15	Per Dozen Sets, D.P. \$1.66	
No. 5 Set fits the Nos. 99 and 50 Pumps, per set	.....	.35
Per Set, D.P. \$0.44	Per Dozen Sets, D.P. \$5.00	
No. 6 Set fits the Kellogg Pump, per set	.....	.45
Per Set, D.P. \$0.15	Per Dozen Sets, D.P. \$1.66	
No. 7 Set fits the Rex Pump, per set	.....	.15
Per Set, D.P. \$0.15	Per Dozen Sets, D.P. \$1.66	
No. 8 Set fits the Skinner Pump, per set	.....	.15
Per Set, D.P. \$0.15	Per Dozen Sets, D.P. \$1.66	
No. 13 Set fits the Kellogg Power Pump, per set	.....	.35
Per Set, D.P. \$0.44	Per Dozen Sets, D.P. \$5.00	
No. 15 Set fits the Victor Pump, per set	.....	.30
Per Set, D.P. \$0.16	Per Dozen Sets, D.P. \$1.66	
No. 16 Set fits the Stapley Pumps (new model), per set	.....	.15
Per Set, D.P. \$0.15	Per Dozen Sets, D.P. \$1.66	

Pump Tubing



No. 10 Pump Tubing, 3/16 3 ply, per foot	.....	\$0.10
Per Ft., D.P. \$0.12	Per Ft., in 50-ft. lengths, D.P. \$0.11	
No. 20 Pump Tubing 1 1/2 ply, per foot	.....	.12
Per Ft., D.P. \$0.15	Per Ft., in 50-ft. lengths, D.P. \$0.13	
No. 30 Pump Tubing, 1 1/2 ply, extra quality for high pressure, per foot	.....	.15
Per Ft., D.P. \$0.18	Per Ft., in 50-ft. lengths, D.P. \$0.15	
No. 120 Extra Heavy Compressor Tubing, 2 in., per foot	.....	.30
Per Ft., D.P. \$0.33	Per Ft., in 50-ft. lengths, D.P. \$0.30	

Armored High Pressure Tubing



No. 40 Pump Tubing, 1-inch, 5 ply, 1/2-inch outside diameter, armored or wire wrapped in 25-foot lengths only, for garage use	.....	\$4.00
25-ft. Lengths, each, D.P. \$5.76		
No. 50 Pump Tubing, 1-inch, 5 ply, 1/2-inch outside diameter, extra quality, armored or wire wrapped in 25-foot lengths only, for garage use	.....	4.25
25-ft. Lengths, each, D.P. \$6.10		

Braided Cloth Covered Pump Tubing



No. 60 Braided Cloth Covered Pump Tubing, 3 1/2-inch. The braided cover makes this a very serviceable article and very satisfactory under high pressure, per foot	.....	\$0.07
Per Ft., D.P. \$0.09	Per Ft., in 50-ft. lengths, D.P. \$0.08	
No. 70 Braided Cloth Covered Pump Tubing, 1-inch, per foot	.....	.08
Per Ft., D.P. \$0.11	Per Ft., in 50-ft. lengths, D.P. \$0.10	

Conqueror Air Hose

The service on Air Line Hose is naturally hard. In order to meet the exacting requirements we recommend the Conqueror Brand, which is the best that can be made. The tube and cover are made from the highest grade materials known to the rubber trade and the piles of fabric are practically inseparable. In a word, the hose is of such high grade that it will withstand not only exposure and hard service, but will show excellent lasting qualities even when abused. It is guaranteed to stand 700 pounds pressure. To those who had trouble with air line hose—and there are many—this hose, which is made on the principle of "Not How Cheap, But How Good," will solve the problem.



Conqueror Air Hose, 1-inch, per foot	.....	\$0.25
Per Foot, D.P. \$0.40		
Conqueror Air Hose, 2-inch, per foot	.....	.35
Per Foot, D.P. \$0.48		

Hose Bands

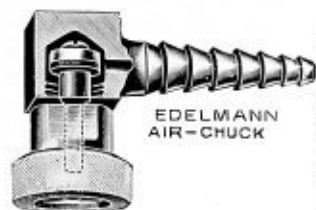
Esco Hose Bands, No. 1, 2; price, each	.....	\$0.05
Esco Hose Bands, No. 2, 7/16; price, each	.....	.05
Esco Hose Bands, No. 3, 1/2; price, each	.....	.05
Dozen, D.P. \$0.55		
Sure Grip Hose Bands, No. 1, 2 inside, each	.....	\$0.35
Dozen, D.P. \$0.55		
Sure Grip Hose Bands, No. 3, 2 inside, each	.....	.05
Dozen, D.P. \$0.55		





PUMP ACCESSORIES

Automatic Air Chuck No. 47



EDELMANN AIR-CHUCK

This air chuck has been proven to be the ideal connection at the end of storage tank hose line. It fills the long-felt demand for an automatic shut-off coupling. It will pay for itself quickly in time and air saved.

To operate, attach the air chuck to the hose line and apply to tire. The plunger will then open and permit the air to flow freely. When removed, the air chuck automatically closes, preventing the air from escaping and eliminates the necessity of running back and forth to close a valve.

Each \$1.00
 Each..D.P. \$1.66 Dozen..D.P. \$18.65

No. 46 Pump Connection

No. 46 Pump Connection is a heavy, substantial connection for air hose.

Each \$0.25
 Each..D.P. \$0.33
 Dozen..D.P. \$3.32



No. 46

No. 52 Pump Connection



No. 52

A perfect slip-on connection that stays on. This connection is designed so that when it is applied to the tire, a quarter turn locks it on the threads of the tire valve and it cannot come off until released. Made extra heavy, of brass, for hard service.

Each \$0.30
 Each..D.P. \$0.44 Dozen..D.P. \$4.78

No. 45 Pump Connection

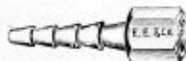
No. 45 Screw Connection for air pumps. Made entirely of brass. A good, serviceable connection with fiber washer.

Each \$0.15
 Each..D.P. \$0.15
 Dozen..D.P. \$1.66



No. 45

No. 53 Tank Connection



No. 53

No. 53 Tank or Pipe End Connection made to fit 1-inch iron pipe.

Each \$0.30
 Each..D.P. \$0.44 Dozen..D.P. \$4.44

Acorn Connection



The Acorn Connection will fit any valve, as a perfectly air-tight connection is made instantly by simply pushing it over the valve. It will pull off as easily. Absolutely air-tight, quick, and will last for months before rubber washer needs replacing, which can be done in a few moments.

Each \$0.15
 Each..D.P. \$0.18 Dozen..D.P. \$1.88

Genuine "Eclair" Connection

Same type as Acorn but of better quality.

Each \$0.35
 Each..D.P. \$0.48 Dozen..D.P. \$5.00

Acorn No. 3

No. 3 Acorn Connection same as regular Acorn with center pin to open valve spring and right angle stem to fit 1-inch hose.

Each \$0.25
 Each..D.P. \$0.36 Dozen..D.P. \$3.88



Acorn B

No. B Acorn Air Cock. Regular Acorn head with right angle shut-off stem. Has screw in top which may be removed and gauge with 1/2 pipe thread may take its place.

Each \$0.75
 Each..D.P. \$0.88 Dozen..D.P. \$9.60

Acorn Washers

Rubber Washer for Acorn and similar connections.

Each \$0.05
 Box of 25..D.P. \$0.66



Keno Connection



No. 3 Keno Connection has a long stem and extra screw to hold the valve open when pumping.

Each \$0.30
 Each..D.P. \$0.44
 Dozen..D.P. \$5.00

No. 4 Keno Connection has a long stem and extra screw and fits outside Schrader valve.

Each \$0.30
 Each..D.P. \$0.44 Dozen..D.P. \$5.00



The GIBSON COMPANY INDIANAPOLIS

PUMP ACCESSORIES

The Romort Automatic Air Valve Style "A"



Patented

The Romort Automatic Air Valve, Style "A," is the most popular valve in use for heavy work. Solid bronze, practically indestructible. Made to fit any size tubing. All parts, with exception of the rubber gasket, guaranteed to wear one year without repair or replacement. Instantaneous in opening and closing; positively air tight. Impossible for users to waste air. Weight, 9 ounces.

Price, each\$3.00
Each. .D.P. \$5.00

The Romort Automatic Air Valve Style "B"



The Romort Automatic Air Valve, Style "B" is a high grade air valve made to meet the popular demand for a light and inexpensive automatic air device. Solid bronze, one-piece casting, universal stem will fit any size tubing. Automatic in opening and closing. Guaranteed air tight. Highly recommended for Public Service Stations, Vulcanizers and Repair Shops. Weight, 5 ounces.

Price, each\$1.00
Each. .D.P. \$1.66

Romort Angle Pump Connection Not Automatic



Extra heavy solid bronze one piece casting, made for direct connected air compressors of all types. Especially convenient for power tire and spark plug pumps attached to automobiles. The very best for vulcanizing and tube repair shops where automatic air connections are not required. Has threaded taper stem to fit tubing from $\frac{1}{4}$ to $\frac{3}{8}$ inch. Equipped with Romort design rubber washer. With exception of the rubber gasket guaranteed for one year.

Price, each\$0.40
Each. .D.P. \$0.66

Romort Straight Pump Connection Not Automatic



Solid bronze one-piece casting, will stand severe abuse. Made for use on direct connected air pumps, hand and foot pumps. Replaces the awkward and inconvenient screw connection. Has threaded taper stem to fit tubing from $\frac{1}{4}$ to $\frac{3}{8}$ inch. When connected to tire valve it will not leak or blow off. Equipped with Romort design rubber washer. With exception of the rubber gasket guaranteed for one year.

Price, each\$0.25
Each. .D.P. \$0.42

Romort Tank Connection



The Romort tank or pipe end connection is a brass union with step up stem to fit any size hose. This union is made to fit one-half inch iron pipe and it contains a leather washer that will not come out when the union is taken off or dropped. The union is knurled so it can be taken off by hand without the use of a wrench. With this union the air line can be taken in at night, eliminating the chance of thieves stealing hose and connections.

Price, each\$0.60
Each. .D.P. \$1.00

Romort Special Pump Connection Rubber



Made extra heavy of a special compound. Easily slips on and off the tire valve. Will hold firm against high or low air pressure, and positively will not blow off or turn inside out. Made especially for the Romort valves and will also fit all other pump connections. See that "Romort" is stamped on the rubber.

Price, each\$0.05
Dozen. .D.P. \$0.42

Romort Air Nozzle (Cushion Cleaner)

For Romort Valves and Pump Connections



This device is designed to release the air in Romort Automatic Air Valves, Styles "A" or "B," when air is required for the purpose of blowing the dirt and dust off cushion tops, foot mats, machinery, etc. When attached the air flows out of a needle point with terrific force, forming a perfect and effective air cleaner. This nozzle may also be used on Romort Angle and Straight Pump Connections. Satisfaction guaranteed.

Price, each\$0.25
Each. .D.P. \$0.42



VALVE TOOLS, WIRE, ETC.

Utility "Three in One" Valve Tool



Each \$0.20
Per Dozen.. D.P. \$2.22

"Three in One" Valve Tool



"Three in One." Made in one piece from drop forging.
No. 1 Valve Tool, each \$0.25
Per Dozen.. D.P. \$4.26

"Three in One" Valve Tool



For re-cutting outside thread, tapping inside and removing valve from stem. Combined in one tool as shown.
No. 2 Valve Tool, each \$0.25
Per Dozen.. D.P. \$4.26

"Four in One" Valve Tool



These tools are unquestionably superior to those offered generally to the trade. Minute comparison as to material, workmanship and finish solicited.
No. 3 Valve Tool, each \$0.35
Per Dozen.. D.P. \$4.66

Valve Die



A very useful tool for re-threading outside or body of Standard Valves.
Each \$0.75
Per Dozen.. D.P. \$10.66

Schrader Universal Valve Repair Tools



One Dozen on card, each \$0.25
Per Dozen.. D.P. \$4.00

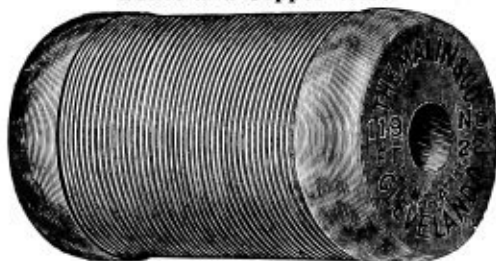


Valve Base



Valve Patch for 2½-inch and 3-inch tubes, each... \$0.20
Per Dozen.. D.P. \$2.77
Valve Patch for 3½-inch and 4-inch tubes, each... .30
Per Dozen.. D.P. \$3.55
Valve Patch for 4½-inch and 5-inch tubes, each... .35
Per Dozen.. D.P. \$4.00

Brass and Copper Wire



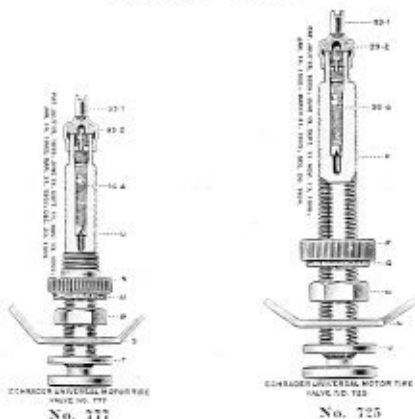
Copper Wire, 17, 20, 22 or 24 gauge, ¼-lb. spool, price \$0.30
Per Dozen.. D.P. \$4.44
Brass Wire, 17, 20, 22 or 24 gauge, ¼-lb. spool, price30
Per Dozen.. D.P. \$4.44



The GIBSON COMPANY INDIANAPOLIS

VALVES AND VALVE PARTS

Schrader Valves



- No. 777 Schrader Valves, small, for 2½ and 3-inch tires, each\$0.35
Each . . .D.P. \$0.55
- No. 725 Schrader Valves, large, for 3½ to 5-inch tires, each40
Each . . .D.P. \$0.58
- No. 792 Schrader Valves, large, for demountable tires, each45
Each . . .D.P. \$0.60

Schrader Universal Dust Caps



- No. 835 For motor tire valves. \$0.10
Dozen . . .D.P. \$1.60
- No. 2078 Slips over valve and locks securely with 1 turn.40
Dozen . . .D.P. \$7.72
- No. 2069 Schrader Dust Cap, each10
Dozen . . .D.P. \$1.40

Schrader Universal Valve Parts



Used on all types of pneumatic tire valves.

Schrader Universal Valve Insides

- Packed 5 in a metal box, insuring them against injury. Twenty of these small boxes in a carton.
- Price, each\$0.05
Price, per box of five20
Price, per carton of 100 4.00
Per 100 . . .D.P. \$5.77



No. 819
For use on No. 777 type Schrader Universal motor tire valve.



No. 880
For use on motor tire valves.

- Combination Rim Nut and Dust Cap Bushing
Each\$0.10
Per Dozen . . .D.P. \$1.60

- Motor Valve Cap
Each\$0.05
Per Dozen . . .D.P. \$0.66
Per 100 . . .D.P. \$5.32

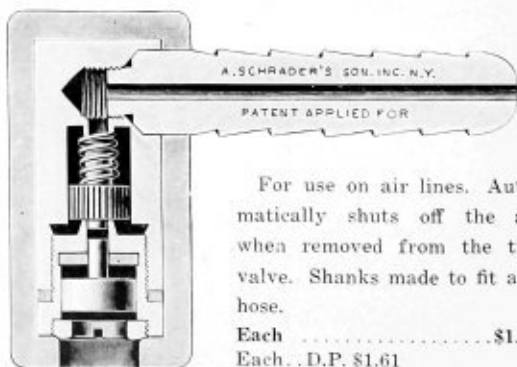
Pump Connection

It is a patented device which may be attached to any and all pumps now in use for inflating automobile or motorcycle or bicycle tires. It screws on to the end of the rubber tubing of the pump, as shown in the illustration, and connects with the tire valve by means of a simple syivel-nut. In combination with the contact with the tire-valve, is a deflating pin which permits of the pressure in the tire being taken while the pump is still attached to the tire in operation.



- Each\$0.35
Each . . .D.P. \$0.54
- No. 2038

Inflating Valve



- For use on air lines. Automatically shuts off the air when removed from the tire valve. Shanks made to fit any hose.
- Each\$1.00
Each . . .D.P. \$1.61
- No. 1869



TIRE PRESSURE GAUGES AND TIRE CALIPER

No. 2 Pump Gauge



For use on all makes of pumps, furnished in brass or nickel plated. Made with bottom or back connection. This illustration shows back connection. In ordering specify style of connection wanted.

Each \$1.00
 Each.. D.P. \$1.44
 Dozen.. D.P. \$16.00

No. 4 Edelmann Pump Gauge

For use on Power Pumps. This is a Special Gauge for use in hose-line. Used largely by manufacturers of spark plug pumps.

Fits 1/4-inch air hose.

Each \$1.25
 Each.. D.P. \$1.54
 Dozen.. D.P. \$16.66



Reliable Watch Gauge

No. 40 Reliable Watch Gauge. Guaranteed correct within two per cent. Indicator hand remains at maximum pressure while you reset it. Nickel plated.

Each \$1.00
 Each.. D.P. \$1.44
 Dozen.. D.P. \$16.00

Full size

Invincible Tire Pressure Gauge

The Invincible Tire Pressure Tester is an excellent sample of high grade mechanical work, made substantially like any high grade pressure gauge and the best material is used in its construction. It is practically indestructible and will last a natural lifetime.

Each \$2.00
 Each.. D.P. \$2.44
 Dozen.. D.P. \$26.66



Schrader Universal Tire Pressure Gauge



Nothing is as essential to the long life of tires as air. The only way to know whether or not your tires have enough air is to measure it with a reliable tire pressure gauge.

The Schrader Universal Tire Pressure Gauge is such a gauge.

Convenient in size, simple and absolutely accurate.

Endorsed by Tire Manufacturers as the most reliable gauge on the market.

Each \$1.00
 Dozen.. D.P. \$19.32

Twitchell Gauge

The Twitchell Gauge Locks, Showing True Pressure or None.

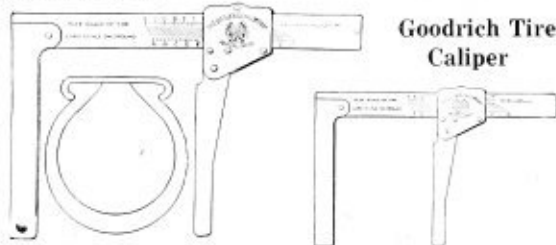


The Twitchell Gauge was the first pencil type gauge. It is built on a principle that has long ago proved a success in other tools, but had never before been applied to air gauges. After a number of improvements it today represents the last word in the pressure gauges. What particularly distinguishes the Twitchell from other pencil type gauges, is the locking device. It makes absolutely impossible the slipping of the indicator bar and the inaccuracy of reading resulting therefrom. The Twitchell will indicate true pressure or none.

The figures indicating the pressure are white on black background and may be read with great ease. By the sense of touch you can determine the pressure even in the dark, by counting the notches on the indicator. While doing this, it is necessary to press against the smooth side of the indicator to insure its staying locked.

Although guaranteed for one year only, the Twitchell is so carefully made and the material used in its construction of such high quality, that it will remain accurate and be of serviceable use for a number of years.

Each \$1.00
 Dozen.. D.P. \$19.32



Goodrich Tire Caliper

The Goodrich Tire Caliper gives you the correct inflation for any tire, under any condition or load. If you start out with an extra heavy load, you need more air; the caliper will show you just how much.

The Goodrich Caliper test has nothing to do with the valve. You can make the test without removing the dust and valve caps, and you can test without delay while the tire is being inflated.

Too little air in a tire causes rim cutting, breaking of the side walls, fabric separation, and quick ruin for any make or type of pneumatic tire. Too much air makes the riding rough, thus defeating the very purpose of the pneumatic tire. The tire should always give a little under load, but mere inspection is never a reliable inflation test.

Every Caliper is made of steel heavily nickel plated. When folded and in its leather holster, it occupies but small space in pocket or tool box. It cannot get out of order, cannot wear out and is by far the cheapest tire insurance you can buy.

Each \$1.00
 Each.. D.P. \$1.55



The GIBSON COMPANY INDIANAPOLIS

FIRE EXTINGUISHERS

Pyrene Fire Extinguishers



Pyrene Bracket
Pyrene Fire Extinguisher

The use of Pyrene Fire Extinguishers reduces automobile fire insurance premium 15%. Saving on insurance will pay for Extinguisher. It is also invaluable for garage protection because it is the best means of extinguishing burning gasoline and other obstinate blazes. It is a permanent investment. It is guaranteed against mechanical defects, poor workmanship and material and against freezing. It weighs without holder 6 pounds, or with vehicle bracket about 7 pounds. It is substantially built of brass and will throw a stream of Pyrene Liquid about 30 feet. A few squirts of the Liquid usually suffice to extinguish a fire. The balance may be preserved for future use indefinitely provided handle is merely

- Pyrene Fire Extinguisher, Brass, each.....\$7.00
- Each..D.P. \$12.44
- Pyrene Fire Extinguisher, Nickeled, each..... 8.00
- Each..D.P. \$14.22
- Enameled Bracket for Pyrene Extinguisher, each.. .50
- Each..D.P. \$0.88
- Brass Bracket for Pyrene Extinguisher, each..... .75
- Each..D.P. \$1.32
- Nickeled Bracket for Pyrene Extinguisher, each.. 1.00
- Each..D.P. \$1.76
- Pyrene Liquid, quart, each..... 1.25
- Per quart..D.P. \$2.20
- Pyrene Liquid, gallon, each..... 4.50
- Per gallon..D.P. \$8.00

Fire-Fly Extinguishers



Fire-Fly is a dry powder fire extinguisher and it does the work.

It is put out in convenient size tubes and does not contain any grit, therefore will not injure the bearings should it be thrown onto the engine or working parts of the machine.

- Fire-Fly Fire Extinguisher, large size, each.....\$0.75
- Each..D.P. \$0.78 Dozen..D.P. \$8.33
- Fire-Fly Fire Extinguisher, small size, each..... .50
- Each..D.P. \$0.66 Dozen..D.P. \$6.66

J-M Fire Extinguisher



The J-M Fire Extinguisher requires no pumping while aiming. Both hands are free to direct the stream. Can be used in cramped quarters where lack of space prevents pumping. Stream will hit a dollar at thirty feet. Puts out any fire. Instantly extinguishes any fire caused by gasoline, oil, electricity, etc., without harming fabrics, furniture or skin. Never deteriorates. Sealed at both ends. This prevents tampering and also shows you at a glance that your extinguisher is charged and ready for use. Anybody can operate it. A woman, child, or even a one-armed man can use the J-M. Reduces auto insurance 15 per cent. Inspected, approved and labeled by the Underwriters' Laboratories, Inc. Listed as an approved fire appliance by the National Board of Fire Underwriters.

- Brass or Nickel, complete with bracket, each.....\$8.00
- Each..D.P. \$13.32

Alenco Underwriters' Chemical Extinguishers



The Alenco Extinguisher is made of the very best grade of Lake Superior Cold Rolled Copper. The lapped joints are first tinned and copper riveted, then the solder sweat through to the outer edge of the laps with the rivet heads well covered with solder on the inside. The dome and bottom are formed by stamping, which gives uniform strength and eliminates the unevenness of a spun shell; the inside of the shell and all parts are heavily coated, where necessary, after being formed, with a metal mixture to prevent corrosion.

The normal finish of the extinguisher is red enamel baked on. We recommend this finish as it is distinctive of fire apparatus and it is impossible for it to tarnish. Polished copper finish can also be supplied without extra charge.

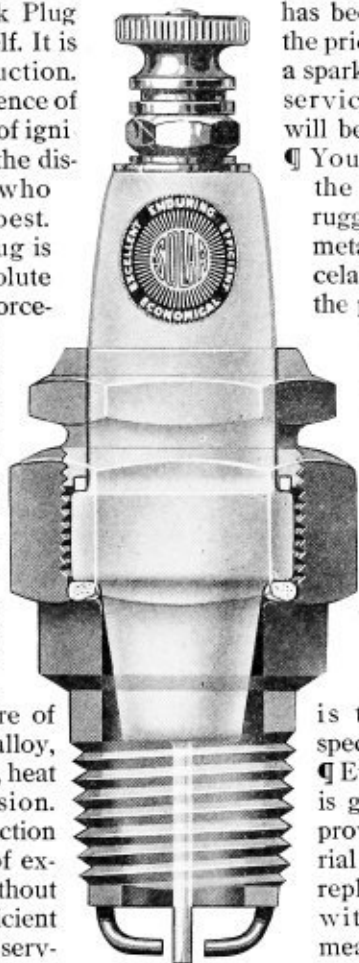
- Weight, empty, 17 pounds. Weight, charged and ready for use, 36 pounds. Duration of stream, 1 1/2 minutes. Capacity, 3 gallons. Chemical charge Bi-Carbonate of Soda, 1 1/2 pounds. Commercial Sulphuric Acid, 4 fluid ounces. Distance a stream is thrown, 45 to 50 feet. Cost of chemicals to recharge, 50 cents. Maximum pressure in operation, 120 pounds. Extinguisher tested to 400 pounds. Bursting pressure, 600 pounds. Safety factor, 480 pounds. Experience required to use, none. Experience required to recharge, none.
- Alenco Fire Extinguisher, each.....\$13.50
- Each..D.P. \$23.32



"SOLAR" Guaranteed Spark Plugs

THE SUPERLATIVE IN SPARK PLUGS. THIS SPARK PLUG
COMBINES ALL THE ESSENTIALS NECESSARY
TO LONG LIFE, POSITIVE FIRING
AND
ABSOLUTE INSULATION

THE "Solar" Spark Plug is in a class by itself. It is of extra heavy construction. It represents the experience of years in the production of ignition materials. It is for the discriminating motorist who insists on having the best. The "Solar" Spark Plug is guaranteed to give absolute satisfaction. ¶ Cores (porcelains) are made from the very best imported clay combined with a special material which insures positive insulation and provides for the exceptional expansion and contraction to which porcelains are constantly subjected. They are baked to the proper consistency in special kilns. ¶ Electrodes and terminals are of a special non-fusible alloy, tested for conductivity, heat resistance and expansion. ¶ The gasket construction is the result of years of experimenting and is without exception the most efficient and best adapted to this service. It insures against leakage and will stand extreme pressures without blowing out. ¶ Every detail looking to long and satisfactory service



has been provided for and at the price it is impossible to find a spark plug that will give the service and satisfaction that will be found in the "Solar."

¶ Your attention is called to the very neat design, the rugged construction of the metal parts, the heavy porcelain, the large terminal, the positive sparking points and the excellent proportions of the firing chamber. ¶ Every dealer should stock the "So:ar" Spark Plug. It presents an excellent selling proposition. It insures him a satisfied customer wherever this plug is installed. It is guaranteed to give long life and perfect results. It

is the most profitable specialty that he can carry. ¶ Every "Solar" Spark Plug is guaranteed by us. Any proving defective in material or workmanship will be replaced free of charge and without question. This means double protection to the user and provides against the worries incident to nearly every plug on the market. The "Solar" Plug is a Quality Plug.

¶ The "Solar" Plug is made for all cars in all sizes. Every dealer should carry a complete stock. ¶ Each plug is packed in a neat water-proof and dust-proof metal case, which insures its safe carrying in the tool box. Packed one dozen to a carton. Order in dozens or the multiple thereof.

SOLAR

SOLAR



SOLAR

SOLAR

"SOLAR" Guaranteed Spark Plugs

1/2-in. Regular or Standard Type. "SOLAR"

THIS is the most popular of all the various types of Solar Plugs, as it is the one used in the majority of cars. Designed to handle the hottest magneto spark.

1/2-in. size, each\$1.00

PACKED IN DUST AND WATERPROOF CANS

- Lots 1 to 11Each D. P. \$1.22
- Lots 12 to 49Each D. P. 1.11
- Lots 50 to 100.....Each D. P. 1.00

As these plugs are packed one dozen to a carton, it will pay you to order in dozens or the multiple thereof.



3/8-in. Standard "SOLAR"

THIS Plug is used in a great many cars, and is another of the very popular Solar Types. Every Solar Plug, irrespective of type, is given a thorough test before packing. It must stand excessive heat and cold and be perfect electrically.

3/8-in. size, each\$1.00

PACKED IN DUST AND WATERPROOF CANS

- Lots 1 to 11...Each D. P. \$1.22
- Lots 12 to 49...Each D. P. 1.11
- Lots 50 to 100...Each D. P. 1.00

As these plugs are packed one dozen to a carton, it will pay you to order in dozens or the multiple thereof.

Special "Buick" Type "SOLAR"

THE Motor in "Buick" Cars requires a special plug, having a long barrel, special terminal and base. The "SOLAR" Special Buick is the type approved by the Buick Company. One of the outstanding features of the Solar Plug is its ruggedness; it is built for extraordinary service—and gives it, too.

3/4-in. Special "Buick" Type, each\$1.00

PACKED IN DUST AND WATERPROOF CANS

- Lots 1 to 11Each D. P. \$1.22
- Lots 12 to 49Each D. P. 1.11
- Lots 50 to 100Each D. P. 1.00

As these plugs are packed one dozen to a carton, it will pay you to order in dozens or the multiple thereof.





SOLAR

SOLAR



"SOLAR" Guaranteed Spark Plugs

Metric Type "SOLAR"

THIS Plug is used on all foreign built automobiles and is also standard on certain American cars. The Solar Metric is built with exceptional care, and for high duty on cars of great power will give wonderful results.

Metric Type, each\$1.00

PACKED IN DUST AND WATERPROOF CANS

Lots 1 to 11 Each D. P. \$1.22

Lots 12 to 49 Each D. P. 1.11

Lots 50 to 100 Each D. P. 1.00

As these plugs are packed one dozen to a carton, it will pay you to order in dozens or the multiple thereof.

"Overland," or Long Barrel Type "SOLAR"

IN the earlier types of Overland Cars, a long and special type of plug is necessary. This is also true of a number of other cars having thick cylinder tops. The Special Long Barrel "SOLAR" is designed for cars of this kind. The "SOLAR" Spark Plug is the result of much experimenting in the ignition field; it represents the experience of years in the manufacture of products of this nature.

½-in. Overland, or Long Barrel Type, each\$1.00

PACKED IN DUST and WATERPROOF CANS

Lots 1 to 11 Each D. P. \$1.22

Lots 12 to 49 Each D. P. 1.11

Lots 50 to 100 Each D. P. 1.00

As these plugs are packed one dozen to a carton, it will pay you to order in dozens or the multiple thereof.



"SOLAR"

Waterproof and Dustproof Packages

EVERY "SOLAR" Spark Plug is packed in a beautiful lithographed metal case. This is a marked advantage to the dealer and motorist. It prevents the plugs from rusting while in stock, and gives the dealer a better opportunity to display them. For the motorist it is indispensable, as it permits him to carry his extra plugs without possible deterioration through dust or moisture. It also will protect the plug from being broken from contact with tools and other articles in the tool box.

Buy "SOLAR" Guaranteed Spark Plugs for One Reason—
THEY ARE THE BEST



The GIBSON COMPANY INDIANAPOLIS

SPARK PLUGS

Special $\frac{1}{2}$ Inch

Champion "X"

THE FORD PLUG

Adopted by the Ford Motor Company as Standard Equipment on the Ford car since 1911

The following is quoted from the Ford Manual in answer to No. 76:

"There is nothing to be gained by experimenting with different makes of plugs. The make of plugs with which Ford engines are equipped when they leave the factory are best adapted to the requirements of our motor."

Champion X Spark Plugs, $\frac{1}{2}$ -inch Ford, retail price, each\$0.75

Lots less than 100, each..D.P. \$0.78

Lots 100 or more, each..D.P. \$0.74

Champion

REGULAR

A most reliable plug—Sturdy in construction, patented Cup Gasket Assembly, making compression leakage impossible.

Adopted as Standard Equipment on Studebaker, Maxwell and other well-known cars.

 $\frac{1}{2}$ in. $\frac{1}{8}$ -18, Metric

Champion Regular Spark Plugs, $\frac{1}{2}$ -inch, $\frac{3}{8}$ -inch or Metric. Retail price, each.....\$1.00

Lots less than 100, each..D.P. \$0.89

Lots 100 or more, each..D.P. \$0.85

In ordering state size wanted.

Special $\frac{1}{2}$ Inch

Champion "O"

THE OVERLAND PLUG

Specially built for use in the Overland car. Originally adopted as factory equipment.

Numerous testimonials from car owners prove it to be the one dependable plug for the Overland under all conditions, giving maximum power and efficiency.

Champion "O" Spark Plugs, $\frac{1}{2}$ -inch Overland. Retail price, each.....\$1.00

Lots less than 100, each..D.P. \$0.89

Lots 100 or more, each..D.P. \$0.85

 $\frac{1}{2}$ -18 Long

Champion Buick Plug

FOR BUICK CARS

The Champion Regular $\frac{1}{2}$ -18 long plug is specially made for the Buick car. Has long shell, conical porcelain Buick terminal.

The long shell allows the spark to ignite within the cylinder instead of in a pocket, as occurs when the ordinary type plug is used.

Champion Long Spark Plugs, $\frac{1}{2}$ -inch Buick. Retail price, each.....\$1.00

Lots less than 100, each..D.P. \$0.89

Lots 100 or more, each..D.P. \$0.85

Champion

ONE PIECE—HEAVY STONE

Specially made for racing cars and those of high power. Extra heavy material throughout. Absolutely compression tight.

Will give extremely satisfactory service on such cars as Cadillac, Chalmers, Chandler, Franklin, Hudson, Locomobile, Mitchell, Oldsmobile, Packard, Pierce-Arrow, Stearns-Knight and Peerless.

 $\frac{1}{2}$ in. $\frac{1}{8}$ -18, Metric

Champion One-Piece Heavy Stone Spark Plugs, $\frac{1}{2}$ -inch, $\frac{3}{8}$ -inch or Metric. Retail price, each.....\$1.25

Lots less than 100, each..D.P. \$1.32

Lots 100 or more, each..D.P. \$1.26

In ordering state size wanted.

 $\frac{1}{2}$ in. $\frac{1}{8}$ -18, Metric

Champion

TWO PIECE—HEAVY STONE

Made of the same heavy materials and has the same heavy construction as the Champion One-Piece Heavy Stone Plug, but has the added convenience of being easily taken apart and cleaned.

Is very well adapted to the same type of cars as shown above.

Champion Two-Piece Heavy Stone Spark Plugs, $\frac{1}{2}$ -inch, $\frac{3}{8}$ -inch or Metric. Retail price, each.....\$1.25

Lots less than 100, each..D.P. \$1.32

Lots 100 or more, each..D.P. \$1.26



SPARK PLUGS



Champion Priming

Will start any motor any time on the first quarter turn.

Has key lock attached to needle valve for easy opening and closing.

Brings the gasoline right at the sparking point.

Smaller size made specially for use in motorcycles.

$\frac{3}{8}$ in. $\frac{1}{8}$ -18, Metric

Champion Priming Plugs, $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch or Metric. Retail price, each.....\$1.25

Lots less than 100, each..D.P. \$1.37

Lots 100 or more, each..D.P. \$1.32

In ordering state size wanted.

Champion Metz

FOR METZ CARS

Adopted since 1913 as standard equipment on Metz cars.

Has extra long shell, bringing the spark well down into the cylinder.

This type of Champion Spark Plug was used in the Metz car, which won the Glidden tour in 1913, as well as many other victories.



$\frac{1}{2}$ in. Ex. Long

Champion Extra Long Spark Plugs, $\frac{1}{2}$ -inch Metz.

Retail price, each.....\$1.00

Lots less than 100, each..D.P. \$0.89

Lots 100 or more, each..D.P. \$0.85



$\frac{3}{8}$ in. $\frac{1}{8}$ -18, Metric

Champion Heavy Duty

The same heavy construction as our Heavy Stone, but smaller in size.

Made for use where compactness is necessary.

Built for efficiency of the very highest type. The one piece construction makes leakage impossible.

Champion Heavy Duty Spark Plugs, $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch or Metric. Retail price, each.....\$1.00

Lots less than 100, each..D.P. \$0.89

Lots 100 or more, each..D.P. \$0.85

In ordering state size wanted.



Champion Reliance

SPARKS IN WATER

The porcelain is baked around a very fine platinum wire, with just the top brought flush with the porcelain.

The ideal plug for motor boat use. Moisture, fog and rain on the outside of this plug does not interfere with its operation.

Gives a spark so hot that it actually consumes the moisture, oil, soot and carbon which would collect on any other plug and cause short circuiting.

$\frac{3}{8}$ in. $\frac{1}{8}$ -18, Metric

Champion Reliance Regular Spark Plugs, $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch or Metric. Retail price, each.....\$1.00

Lots less than 100, each..D.P. \$1.44

Lots 100 or more, each..D.P. \$1.32

In ordering state size wanted.

Champion Reliance Magneto

Has closed end, conical porcelain platinum point.

Gives extra long service and high efficiency with magneto.

Specially adapted to oily motors, as it absolutely will not foul from oil.



$\frac{1}{2}$ in. $\frac{1}{8}$ -18, Metric

Champion Reliance Magneto Spark Plugs, $\frac{1}{4}$ -inch,

$\frac{3}{8}$ -inch or Metric. Retail price, each.....\$1.25

Lots less than 100, each..D.P. \$1.66

Lots 100 or more, each..D.P. \$1.56

In ordering state size wanted.



$\frac{3}{8}$ in. $\frac{1}{8}$ -18, Metric

Champion Porcelain Motorcycle

Strong, extra heavy and exceedingly durable. Short, do not project. Excessive heat or constant jolting will not injure them.

Have same general construction as other Champion Spark Plugs.

Champion Porcelain Motorcycle Spark Plugs, $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch or Metric. Retail price, each.....\$0.75

Lots less than 100, each..D.P. \$0.77

Lots 100 or more, each..D.P. \$0.73

In ordering state size wanted.



The GIBSON COMPANY INDIANAPOLIS

SPARK PLUGS

AC Titan Spark Plugs

The development of modern high speed motors has brought home the fact that their efficiency is limited by the ability of the spark plugs to stand the strain. Plugs of ordinary design that were considered perfectly good until very recently were found sorely wanting, in fact useless, when placed on high speed, high compression motors, and the main reason for their failure is the fact that they are bound to leak compression when they become hot.

AC Titan plugs are made according to a special process which keeps them gas-tight at all motor temperatures. The fact that they have been adopted by nearly all the leading manufacturers is evidence that they are particularly adapted to the modern high speed motor and, therefore, the best for all motors.

Regular $\frac{1}{2}$ AC Titan Plug



Regular equipment on Chalmers models 26 and 35, Cole, Enger six cylinder, G. M. C., Jackson, Moline-Knight, Oakland models 28 and 50, Peerless, Pierce-Arrow and Westcott.

Regular AC Titan Spark Plugs, $\frac{1}{2}$ inch, retail price, each\$1.00

Lots of 12 Each...D.P. \$1.22
Lots of 50 Each...D.P. \$1.11
Lots of 100 Each...D.P. \$1.00

Long $\frac{1}{2}$ AC Titan Plug



This type is one of the largest sellers, as it is regular equipment on Buick, Chalmers model 32, Chevrolet, Enger twelve cylinder and Olds.

AC Titan Spark Plugs, $\frac{1}{2}$ inch long, retail price, each\$1.00

Lots of 12, each, D.P. \$1.22
Lots of 50, each, D.P. 1.11
Lots of 100, each, D.P. 1.00

Long Body $\frac{1}{2}$ AC Titan Plug



Made especially for motors on which a longer body plug is required in order to be accessible. For Chandler, Simplex and White 1916.

AC Titan Spark Plugs, long body, $\frac{1}{2}$ inch, retail price, each...\$1.00

Lots of 12 Each...D.P. \$1.22
Lots of 50 Each...D.P. \$1.11
Lots of 100 Each...D.P. \$1.00

SAE or ALAM AC Titan Plug

Regular equipment on Apperson six cylinder, Velle, Haynes, Stearns-Knight and National.

Standard AC Titan Spark Plugs, $\frac{1}{2}$ -18 thread, with small body (2 hex.), retail price, each \$1.00

Lots of 12 Each...D.P. \$1.22
Lots of 50 Each...D.P. \$1.11
Lots of 100 Each...D.P. \$1.00



Long SAE or ALAM AC Titan Plug

This plug has the same characteristics as the regular S. A. E. but has a longer shell for motors requiring an extension plug. Regular equipment on Oakland model 32, Scripps-Booth and Apperson 8.

Long SAE or ALAM AC Titan Spark Plugs, retail price, each\$1.00

Lots of 12, each, D.P. \$1.22
Lots of 50, each, D.P. 1.11
Lots of 100, each, D.P. 1.00



Regular $\frac{1}{4}$ -inch AC Titan Plug

Recommended for all cars whether old or new, on which the regular $\frac{1}{2}$ inch size is used. Particularly for the following: Cadillac up to 1913, Mitchell, Overland Four 1915-1916, Oakland up to 1913, Rambler up to 1913, Regal and Studebaker.

Regular AC Titan Spark Plugs, $\frac{1}{4}$ inch, retail price, each\$1.00

Lots of 12, each, D.P. \$1.22
Lots of 50, each, D.P. 1.11
Lots of 100, each, D.P. 1.00



Long $\frac{1}{4}$ -inch AC Titan Plug

For Overland and Winton Cars up to 1914.
Long AC Titan Spark Plugs, $\frac{1}{4}$ inch, retail price, each\$1.00

Lots of 12 Each...D.P. \$1.22
Lots of 50 Each...D.P. \$1.11
Lots of 100 Each...D.P. \$1.00



Metric AC Titan Plug

For Pierce-Arrow 1915, Peerless 1915 and White 1915, and all cars using metric plugs.
AC Titan Spark Plugs, metric, retail price, each\$1.00

Lots of 12 Each...D.P. \$1.22
Lots of 50 Each...D.P. \$1.11
Lots of 100 Each...D.P. \$1.00





SPARK PLUGS

AC Cico and Regular Type Two-Piece Spark Plugs

Regular 3/4-inch AC Cico Plug



Regular equipment on Dort, Enger six cylinder, Federal Truck, Hudson, Hupp, Lambert, Maxwell, Moon, Paige, Paterson, Pilot.

Regular AC Cico Spark Plugs, 3/4 inch, retail price, each \$0.75

Lots of 12 Each...D.P. \$0.83
Lots of 50 Each...D.P. \$0.78
Lots of 100 Each...D.P. \$0.74

SAE or ALAM AC Cico Plug



Regular equipment on all Saxon cars.

Standard AC Cico Spark Plugs, 1-18 thread, with small body, retail price, each \$0.75

Lots of 12, each, D.P. \$0.83
Lots of 50, each, D.P. \$0.78
Lots of 100, each, D.P. \$0.74

Dodge Bros. Special AC Cico Plug



Exclusive equipment on Dodge cars, and made especially for Dodge Brothers.

AC Cico Special Dodge Spark Plugs, slightly longer than regular 3/4 inch, retail price, each \$0.75

Lots of 12 Each...D.P. \$0.83
Lots of 50 Each...D.P. \$0.78
Lots of 100 Each...D.P. \$0.74

3/4-inch Long AC Cico Plug

AC Cico Spark Plugs for Chevrolet 490, Harley-Davidson and Monroe.

AC Cico Spark Plugs, 3/4 inch long, retail price, each \$0.75

Lots of 12 Each...D.P. \$0.83
Lots of 50 Each...D.P. \$0.78
Lots of 100 Each...D.P. \$0.74



AC Cico Special Ford Plug

This plug has an extra long porcelain, insuring a great length of insulation to withstand oil and carbon and the long body makes it readily accessible.

AC Cico Special Ford Spark Plugs, 3/4 inch, retail price, each \$0.75

Lots of 12, each, D.P. \$0.83
Lots of 50, each, D.P. \$0.78
Lots of 100, each, D.P. \$0.74



3/4-inch Long AC Cico Plug

Regular equipment on 1916 Reo cars and trucks. The correct size for Overland cars up to 1914.

AC Cico Spark Plugs 3/4 inch long, retail price, each \$0.75

Lots of 12 Each...D.P. \$0.83
Lots of 50 Each...D.P. \$0.78
Lots of 100 Each...D.P. \$0.74



Regular 3/4-inch AC Cico Plug

Particularly recommended for Studebaker cars, and for all cars using 3/4 inch standard plugs.

Regular AC Cico Spark Plugs, 3/4 inch regular, retail price, each \$0.75

Lots of 12 Each...D.P. \$0.83
Lots of 50 Each...D.P. \$0.78
Lots of 100 Each...D.P. \$0.74



Metric Motorcycle AC Cico Plug

Metric Motorcycle Spark Plugs for Excelsior, Emblem, Henderson, Indian, and all motorcycles using Metric plugs.

AC Cico Spark Plugs, Metric Motorcycle, retail price, each \$0.75

Lots of 12 Each...D.P. \$0.83
Lots of 50 Each...D.P. \$0.78
Lots of 100 Each...D.P. \$0.74

AC Spark Plugs, Two-Piece Type



Long 3/4" Price \$1
This type has a large following among **OVERLAND** dealers for cars made up to 1914. It is an exceedingly good plug for cars requiring an extension 3/4" plug.



For Ford Cars Price \$1. It has a great length of insulation making it practically impossible to short circuit and is readily accessible.



Standard AC
Made in 1", 1 1/2" and Metric sizes. Price \$1.00 equipment on Lexington-Howard McFarlan Wilcox Truck



Long 2" Price \$1
This plug was designed especially for Buick motors in 1908 and was used for regular equipment on all Buick models until 1914. It is a very large seller.

All sizes AC Two-Piece Spark Plugs, retail price, each \$1.00

Lots of 12, each...D.P. \$1.11
Lots of 50, each...D.P. \$1.00
Lots of 100, each...D.P. \$0.89



The GIBSON COMPANY INDIANAPOLIS

SPARK PLUGS

RAJAH PLUGS

Rajah Plugs embody no freak ideas nor experiments. On account of the simplicity in construction, it is easy to repair or replace parts, and they are thoroughly mechanical in every feature. No change in construction has been made in over ten years, as none has been found necessary.



1-Inch

Rajah Ford

Rajah Ford Spark Plugs, $\frac{1}{2}$ inch, No. 2. Retail price, each.....\$1.00

Lots 1 to 11, each... D.P. \$1.55

Lots 12 to 49, each... D.P. 1.43

Lots 50 to 99, each... D.P. 1.38

Lots 100 and up, each... D.P. 1.32

Rajah Regular

Rajah Spark Plugs, $\frac{1}{2}$ inch, $\frac{1}{4}$ inch and Metric. Retail price, each \$1.00

Rajah Spark Plugs, $\frac{1}{2}$ inch long, for Overland or Reo. Retail price, each\$1.00

Rajah Spark Plugs, $\frac{1}{2}$ inch long, for Buick. Retail price, each..\$1.00

Lots 1 to 11, each... D.P. \$1.55

Lots 12 to 49, each... D.P. 1.43

Lots 50 to 99, each... D.P. 1.38

Lots 100 and up, each... D.P. 1.32



1-Inch

Rajah Giant

The RAJAH Giant Spark Plug is of the same general construction as the regular Rajah Plug, but much heavier in the porcelain and metal parts. It was originally designed for racing purposes and is an ideal plug for those who desire one of this kind.

Rajah Giant Spark Plugs, $\frac{1}{2}$ inch or $\frac{3}{4}$ inch. Retail price, each..\$1.50

In ordering, state size wanted.

Lots 1 to 11, each... D.P. \$1.87

Lots 12 to 49, each... D.P. 1.76

Lots 50 to 99, each... D.P. 1.70

Lots 100 and up, each... D.P. 1.65



1-Inch

SPLITDORF COMMON SENSE PLUGS

Splitdorf Ford

The Splitdorf Ford is of same construction as regular type, but with longer body.

Splitdorf Ford Spark Plugs, $\frac{1}{2}$ inch. Retail price, each.....\$1.00
Each.....D.P. \$1.11



Ford Special

Splitdorf Standard

A porcelain plug with a white India mica insulation. Made in all sizes of the best material obtainable and is absolutely indestructible.

Splitdorf Spark Plugs, $\frac{1}{2}$ inch, $\frac{3}{4}$ inch or Metric. Retail price, each\$1.00
Each.....D.P. \$1.11

In ordering, state size wanted.



1-Inch

Splitdorf Buick

Plugs with white India Mica core, rolled on a tapered steel pin in such a manner as to make them absolutely gas tight. At the same time the core can be easily removed for cleaning when fouled.

Splitdorf Spark Plugs, $\frac{1}{2}$ -inch Special Buick Type. Retail price, each\$1.00
Each..D.P. \$1.11



Buick Type

Splitdorf Spark Plugs

IN CASE

A set of four Splitdorf Plugs in a highly polished wood case complete with socket wrench.

Each\$4.00

Each..D.P. \$5.00



In ordering specify size of plugs wanted.



SPARK PLUGS

RED HEAD PLUGS

Red Head Spark Plugs are designed and constructed not as an accessory, but with a view of making them an integral part of the engine. They are manufactured in four distinct types, a variety which will enable the user to select the particular plug specified by the builder of the motor to insure its successful operation with minimum fuel consumption.

Red Head Regular



1/2-Inch Regular 3/4-Inch Regular Metric Regular

Red Head Spark Plugs, Regular, 1/2 inch, 3/4 inch or Metric. Retail price, each.....\$0.75

Lots of 12, each..D.P. \$1.00

Lots of 100, each..D.P. \$0.94

In ordering, state size wanted.

Red Head Big Boy

The Red Head Big Boy is a new three-point plug designed to meet the demands of the heavy engine and will give maximum service in any engine. It will cope with modern engine conditions.

Retail price, each.....\$1.00

Lots of 12, each..D.P. \$1.44

Lots of 100, each..D.P. \$1.39



Big Boy

Red Head Priming Plug for Ford



Priming

This plug solves the problem of starting a cold engine instantly. Gasoline introduced through the cup of the Red Head Priming Plug passes down the canal drilled in the shell, flows along the porcelain and drips directly to the sparking points, where it vaporizes and is ignited. Red Head Priming Plugs can be cleaned without removal from the cylinders. Open the pet-cocks while the engine is running and the compression shoots out the carbon.

Retail price, each.....\$1.25

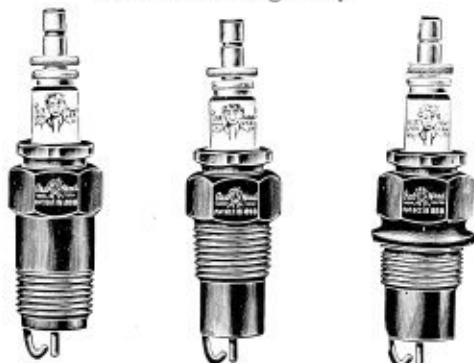
Lots of 12, each..D.P. \$1.66

Lots of 100, each..D.P. \$1.54

RED HEAD PLUGS

Every part of the Red Head Plug is manufactured under the supervision of ignition experts and the processes of the assembly are under rigid inspection. The porcelains are made in the manufacturer's own potteries on automatic turning lathes and they are remarkable for insulating quality, mechanical strength and uniformity—the basis for our guarantee that Red Head porcelains will not crack from the heat of the motor.

Red Head Long Body



Ford and Reo Overland Buick
1-Inch Long Body 1 1/2-Inch Extension 2-Inch Extension

Red Head Long Body Spark Plugs, 1/2 inch Ford, 1/2 inch Overland or 1/2 inch Buick. Retail price, each.....\$0.75

In ordering, state size wanted.

Lots of 12, each..D.P. \$1.00

Lots of 100, each..D.P. \$0.94

Red Head Spark Plug Display Cabinets

This Red Head Display and Stock Cabinet simplifies the sale of spark plugs.

On the display side are shown the leading models of each type, with an alphabetical index of cars and engines that shows which size plug is required. Inside of the case is a carefully selected stock of plugs, the best sellers only. No money tied up in slow-moving sizes—no sales lost—no time lost in serving your customers.

Cabinet No. 50—Contains 50 assorted plugs.

Cabinet No. 100—Contains 100 assorted plugs.



No. 50 Cabinet

Red Head Cabinet No. 50, price, each D.P....\$ 54.72

Red Head Cabinet No. 100, price, each D.P.... 118.06



SPARK PLUGS

Herz Bougie-Mercedes—No Cleaning

Once installed, the plug need never be taken out of the motor. Forms part of the motor, same as the Piston. Not affected by oil. Absolutely Self-Cleansing. No cracking. Porcelain, it's Stone. Recommended where all others fail. A revelation in the construction of Spark Plugs.



The insulation is made of unbreakable stone, which, being pressed and baked at a temperature of over 2,000 degrees, will withstand the highest temperature without cracking.

Bougie-Mercedes Spark Plugs. $\frac{1}{2}$ inch, $\frac{3}{8}$ inch or Metric. Retail price, each.....\$1.50

In ordering state size wanted.
Lots of 12, each..D.P. \$2.00
Lots of 50, each..D.P. 1.88
Lots of 100, each..D.P. 1.75

Bougie-Mercedes Long Shank Plugs

The insulation consists of two parts, double stone. The inner member is tapered and is ground into the steel fitting without any packing whatsoever. This prevents the loosening of the insulation. The inner member gradually decreases in size, thus making the plug absolutely self-cleansing.

Every explosion makes the fit tighter and tighter. The outer member of the insulation releases the inner member of all strain and tension from the outside.

Bougie-Mercedes Long Shank Spark Plugs, $\frac{1}{2}$ inch for Ford, Maxwell or Overland, $\frac{3}{8}$ inch for Buick. Retail price, each..\$1.50

In ordering state size wanted.
Lots of 12, each..D.P. \$2.00
Lots of 50, each..D.P. 1.88
Lots of 100, each..D.P. 1.75



Gibson Quality Spark Plugs

One of our popular brands. Supplied in all sizes. Designed to handle the hottest spark delivered by any magneto.

Regular type, $\frac{1}{2}$ inch or $\frac{3}{8}$ inch, each.....\$1.00

Ford type, $\frac{1}{2}$ inch, each..\$1.00

Overland type, $\frac{1}{2}$ inch long, each.....1.00

Buick type, $\frac{3}{8}$ inch, each..1.00

Lots of 12, each..D.P. \$0.44

Lots of 50, each..D.P. 0.42

Lots of 100, each..D.P. 0.40



Soot-Proof Spark Plugs

You can not short-circuit a Soot-Proof Spark Plug. This porcelain has been subjected to the most exhaustive heat tests, and while it is, of course, too much to say that it will not crack under any conditions, still it will stand more severe tests and harder use than any other insulator known, and this porcelain is used only on the Soot-Proof.

The rest of the Soot-Proof Spark Plug is constructed of materials and in a manner worthy of its splendid design and quality.

Soot-Proof Spark Plugs, $\frac{1}{2}$ inch, $\frac{3}{8}$ inch or Metric. Retail price, each.....\$0.75

In ordering state size wanted.
Lots of 12, each..D.P. \$0.66



Kingston Spark Plugs

The Kingston Spark Plug is a most excellent plug. They are built up of the very best grade of mica with a special fireproof cement under high pressure, then baked at a much higher temperature than they will ever be subjected to in service.

Kingston Mica Spark Plugs, $\frac{1}{2}$ inch, $\frac{3}{8}$ inch or Metric. Retail price, each.....\$0.75

In ordering state size wanted.
Lots of 12, each..D.P. \$0.89
Lots of 50, each..D.P. .83
Lots of 100, each..D.P. .80



Speedway Spark Plugs

Speedway Spark Plugs are designed along conservative lines, using the well-known petticoat type of porcelain, made from imported clay capable of taking a smooth, perfect glazing and of such quality that it will withstand wide ranges of temperature without cracking. Center electrode is exceptionally large and of one solid piece firmly fastened in core. Size and texture make them particularly adaptable to magneto use.

Speedway Spark Plugs, $\frac{1}{2}$ inch or $\frac{3}{8}$ inch. Retail price, each....\$1.00

Speedway Spark Plugs, $\frac{1}{2}$ inch Ford. Retail price, each.....1.00

In ordering state size wanted.
Lots of 12, each..D.P. \$0.55
Lots of 50, each..D.P. 0.50
Lots of 100, each..D.P. 0.44





SPARK PLUGS



Bethlehem Five Point Spark Plugs

Special Alloy, forged by the famous Bethlehem Steel Company, is used in the shell and electrodes of Bethlehem Plugs. No heat generated in any motor car breaks the Bethlehem porcelain.

Regular Type Bethlehem Spark Plugs, $\frac{1}{2}$ inch, $\frac{3}{4}$ inch or Metric.
Retail price, each.....\$1.25

Lots of 12, each..D.P. \$1.32
Lots of 50, each..D.P. 1.22
Lots of 100, each..D.P. 1.16

Bethlehem Ford Type

Bethlehem Five Point Spark Plugs shoot the spark as near the center of the sphere of combustion as possible, down into the cylinder, not up in the plug chamber.

Type A Bethlehem Ford Special Spark Plugs, $\frac{1}{2}$ inch. Retail price, each.....\$1.25

Lots of 12, each..D.P. \$1.32
Lots of 50, each..D.P. 1.22
Lots of 100, each..D.P. 1.16



Bethlehem Overland Type

The Bethlehem Five Point Spark Plugs have been proven. They are a success. The multiple sparking point idea is correct.

Type C Bethlehem Spark Plugs, $\frac{1}{2}$ inch long, for Overland, Winton and Reo. Retail price, each....\$1.25

Lots of 12, each..D.P. \$1.32
Lots of 50, each..D.P. 1.22
Lots of 100, each..D.P. 1.16

Bethlehem Buick Type

Bethlehem Plugs are guaranteed for the life of the car if the proper plug is properly placed in the proper car.

Type D Bethlehem Spark Plugs, $\frac{3}{4}$ inch long, for Buick. Retail price, each.....\$1.25

Lots of 12, each..D.P. \$1.32
Lots of 50, each..D.P. 1.22
Lots of 100, each..D.P. 1.16



Bethlehem Type "K" Spark Plugs



The Type K Bethlehem Plug is a heavy duty plug especially designed for use in high-powered motors, auto trucks, motor boats and aeroplanes. One-half inch and $\frac{3}{4}$ inch. This plug is considerably larger than the average sized plug, thus enabling us to use a larger porcelain and insulator than has heretofore been used in any plug. The fact that we are able to increase the size of our insulator in this way gives it added strength and practically insures the car owner against any trouble from broken insulator.

Type K Bethlehem Spark Plugs, $\frac{1}{2}$ inch and $\frac{3}{4}$ inch, retail price, each..\$1.50

Lots of 12, each..D.P. \$1.66
Lots of 50, each..D.P. 1.55
Lots of 100, each..D.P. 1.44

Bethlehem Motorcycle Plugs

Mica Motorcycle Plugs. Core made of highest grade India mica.

Bethlehem Motorcycle Mica Spark Plugs, $\frac{3}{4}$ inch or Metric. Retail price, each.....\$1.25

Lots of 12, each..D.P. \$1.44
Lots of 100, each..D.P. 1.27



Bethlehem Spark Plug Display Case



No. 1 Bethlehem Spark Plug Display Case, contains 34 Assorted sizes and types of Bethlehem Plugs and six extra Porcelains.....D.P. \$62.35

No. 2 Bethlehem Spark Plug Display Case, contains 36 Assorted sizes and types of Bethlehem Plugs...D.P. \$45.77

Prices cover cost of contents only, no charges being made for case.



SPARK PLUGS



Mosler Vesuvius Plug

Stone (Vitite) insulator; continuous knife edge electrode gives a ribbon of flame which explodes all the gas and develops all the power of motor. Guaranteed to outlast the motor.

Mosler Vesuvius Plugs, $\frac{1}{2}$ inch, $\frac{3}{4}$ inch or metric, in round metal box, each\$1.00
Per dozen..D.P. \$14.65

Vesuvius Overland Type

Special gasket construction insures absolutely gas-tight joints. The electrodes are anchored at both ends and cannot get out of adjustment. Guaranteed to outlast the motor.

Vesuvius Overland Type Plugs, $\frac{1}{2}$ inch long, in round metal box, each\$1.00
Per Dozen..D.P. \$14.65



Vesuvius Buick Type

Should also be used for Winton 1915 and 1916 Chevrolet. Quality makes it "The Indestructible Plug." Guaranteed to outlast the motor.

Vesuvius Buick Type Plugs, $\frac{1}{2}$ inch long, in round metal box, each..\$1.00
Per Dozen..D.P. \$14.65



Mosler Superior Plug

The Ford Special and Other Sizes

Designed to meet specifications of the Ford motor. Stone Insulator (Vitite) outlasts any ordinary porcelain. Side electrode shaped to allow oil to drop off and not form at firing point.

Mosler Superior Plugs, $\frac{1}{2}$ inch, $\frac{3}{4}$ inch and metric, each.....\$0.75
Per Dozen..D.P. \$8.00

Mosler Superior Plugs, $\frac{1}{2}$ inch long, $\frac{3}{4}$ inch long, each..... .75
Per Dozen..D.P. \$9.32

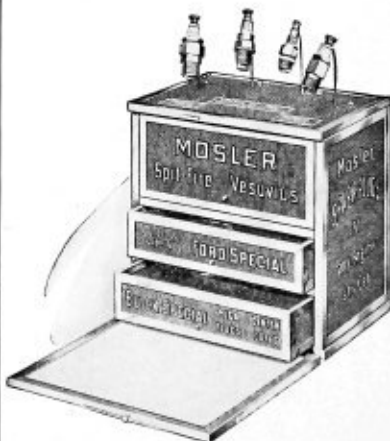
Mosler Spit-Fire Plug

Platinum Point Red Tag. The ends of the base being protected, makes "Spit-fire" stand soot, oil and water. All platinum point plugs are boxed with "Red Tag" guarantee. Made to fit any engine.

Mosler Spitfire Platinum Point Plugs, $\frac{1}{2}$ inch standard, long and extra long, $\frac{3}{4}$ inch standard, long and extra long and metric, each..\$1.25
Per Dozen..D.P. \$23.98



Mosler Display Cabinet



Mosler Display Cabinet contains fifty-four plugs as follows: Twenty Vesuvius, twenty-four Superior Ford Special, four Buick Special, four Mica, two Spitfire and six center cores; weighs forty pounds complete with especially built shipping case. Also contains display cards, felt counter mat and full assortment of literature.

Each, D. P.\$56.44

The above price covers the contents only, no charge being made for the cabinet.



SPARK PLUG PARTS

Rajah Porcelains



Rajah Porcelains for Regular Plugs. Retail price, each \$0.50
In dozen lots, each..D.P. \$0.78

Rajah Porcelains for Ford Plugs. Retail price, each .50
In dozen lots, each..D.P. \$0.78

Rajah Giant Porcelains

Rajah Porcelains for Giant Plugs. Retail price, each \$0.60
In dozen lots, each..D.P. \$0.88.

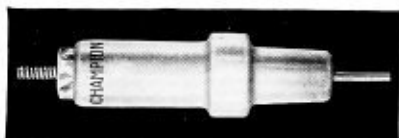
Bethlehem Porcelains



Bethlehem Porcelain Cores, standard type, each.....\$0.40
Each..D.P. \$0.66

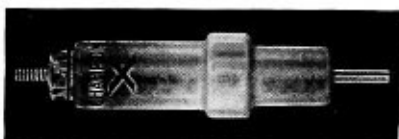
Bethlehem Porcelain Cores, Type K, each50
Each..D.P. \$0.88

Champion Porcelains



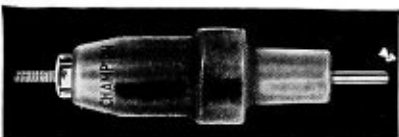
Porcelains for Champion Regular Plugs, retail price, each .40
In dozen lots, each..D.P. \$0.66

Porcelains for Champion Long Plugs, retail price, each.. .40
In dozen lots, each..D.P. \$0.66



Porcelains for Champion X Plugs, retail price, each..... .35
In dozen lots, each..D.P. \$0.55

Porcelains for Champion Priming Plugs, retail price, each .50
In dozen lots, each..D.P. \$0.73



Champion Heavy Stone Porcelains, each..... .50
In dozen lots, each..D.P. \$0.73

Lower Gaskets for Champion Porcelains, retail price, each .03
In dozen lots..D.P. \$0.40.

Upper Copper Washers for Champion Porcelains, retail price, each03
In dozen lots..D.P. \$0.40.

Asbestos Gaskets for upper portions Champion Porcelains, price, each03
In dozen lots..D.P. \$0.40.

"AC" Porcelains



"AC" Porcelain—for all "AC" Plugs made up to 1912, retail price, each \$0.34
In dozen lots, each..D.P. \$0.55.

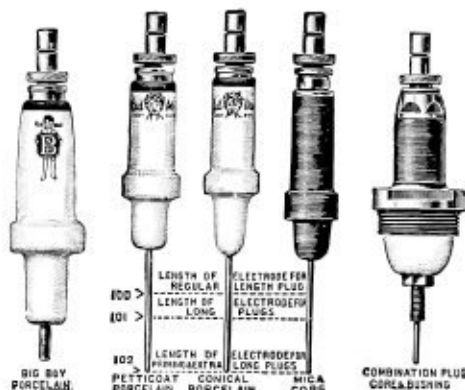


"AC" 1 Porcelain—Standard Porcelain for 1913 plugs (order by number), retail price, each35
In dozen lots, each..D.P. \$0.55.



"AC" 2 Porcelain—for Special Ford, long 1-inch priming plug (order by number), retail price, each..... .35
In dozen lots, each..D.P. \$0.55.

Red Head Porcelains



Porcelains for Red Head, Regular. Each.....\$0.45

Porcelains for Red Head, Long Body. Each..... .45
In dozen lots, each..D.P. \$0.71

Porcelains for Red Head, Big Boy. Each..... .65
In dozen lots, each..D.P. \$0.98

Porcelains for Red Head, Combination. Each.... .95
In dozen lots, each..D.P. \$1.30

Porcelains for Red Head, Priming. Each..... .55
In dozen lots, each..D.P. \$0.75

Soot-Proof Porcelains

Porcelains for Soot-Proof Plugs. Retail price, each \$0.40
In dozen lots, each..D.P. \$0.44

Speedway Porcelains

Porcelains for Speedway Plugs. Retail price, each \$0.30
In dozen lots, each..D.P. \$0.33



The GIBSON COMPANY INDIANAPOLIS

PORCELAINS, SPARK PLUG WRENCHES AND BRUSHES

Porcelains



Solar Stone Cores, each.....\$0.35
In dozen lots, each..D.P. \$0.44



Superior Center Cores, each.....\$0.30
In dozen lots, each..D.P. \$0.44



Vesuvius Center Cores, each.....\$0.49
In dozen lots, each..D.P. \$0.55



Spit-Fire Center Cores, with platinum points, each..\$0.75
In dozen lots, each..D.P. \$1.11

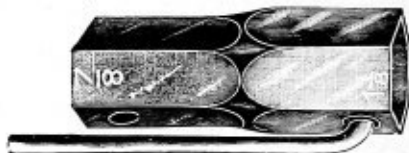


Gibson Quality Porcelains for Magneto Plugs, each.....\$0.35
Gibson Quality Porcelains for Ford Plugs, each..... .35
Gibson Quality Porcelains for Overland Plugs, each..... .35
Gibson Quality Porcelains for Buick Plugs, each..... .35
Gibson Quality Porcelains for Priming Plugs, each..... .35
In dozen lots, each, \$0.23
Gibson Quality Platinum Point Porcelains, each..... .75
In dozen lots, each..D.P. \$0.82

Spark Plug Wrenches



No. 1 Spark Plug Wrench $\frac{1}{2}$ Hex closed end, $\frac{1}{4}$ Hex open end, japanned, each.....\$0.20
In dozen lots, each..D.P. \$0.20
No. 2 Spark Plug Wrench $\frac{1}{2}$ Hex closed end, $\frac{1}{4}$ Hex open end, nicked, each..... .30
In dozen lots, each..D.P. \$0.33



No. 4 Two In One Spark Plug Wrench $\frac{1}{2}$ and 1 inch, nicked, each.....\$0.50
No. 5 Two In One Spark Plug Wrench, $\frac{1}{2}$ and 1 $\frac{1}{2}$ inch, nicked, each..... .50
In dozen lots, each..D.P. \$0.55



Champion Priming Plug Wrench, complete wrench for all sizes and styles of spark plugs. Retail price, each.....\$0.50
In dozen lots, each..D.P. \$0.55



No. 3 Buckeye Combination Spark Plug Wrench and tire tool. One end made to fit a standard $\frac{1}{2}$ -inch plug ($\frac{1}{4}$ inch across the hex), and this same end "stepped" so as to take care of the odd size plugs which measure $\frac{15}{16}$ inch across the hex. The other end made to fit a standard A. L. A. M. plug with large shoulder, and measuring $1\frac{1}{4}$ inch across the hex.
Retail price, each.....\$0.50
In dozen lots, each..D.P. \$0.66

Spark Plug Brush

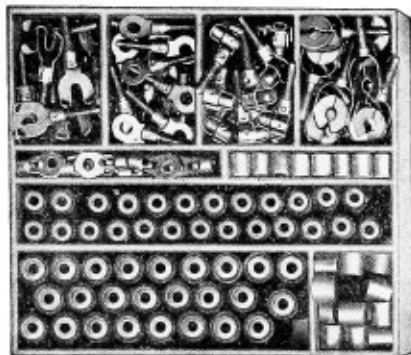


A very handy article to clean your spark plugs with. Has strong wire for grease and dirt, bristle hair for finer parts and two tempered thin flat steels with which to reach inaccessible parts.
Retail price, each.....\$0.25
In dozen lots, each..D.P. \$0.27



TERMINALS

Becco Terminal Assortment



Becco Terminals save their cost in cable ends, solder and trouble. The most saleable terminal on the market and the most practical for dealers or garagemen's use.

THE BOX CONTAINS

25 Spring Clip Terminals.....	Price 15c each—	\$3.75
25 Post Terminals.....	Price 15c each—	3.75
25 Slot Terminals.....	Price 10c each—	2.50
25 Eyelet Terminals.....	Price 10c each—	2.50
25 Primary Terminals.....	Price 5c each—	1.25
25 Fibres for 9 MM Cable.		
25 Fibres for 7 MM Cable.		
25 Brass Ferrules for 9 MM Cable.		
25 Brass Ferrules for 7 MM Cable.		

Per box....D.P. \$11.10

Entire contents \$13.75

Becco Terminals



Slot Type

Becco Terminals, Slot Type, each.....\$0.10
Per dozen.....D.P. \$1.11
Per box of 50...D.P. 5.06



Eyelet Type

Becco Terminals, Eyelet Type, each.....\$0.10
Per dozen.....D.P. \$1.11
Per box of 50...D.P. 5.06



Type With Posts

Becco Terminals, Post Type, each.....\$0.15
Per dozen.....D.P. \$1.44
Per box of 50...D.P. 5.10

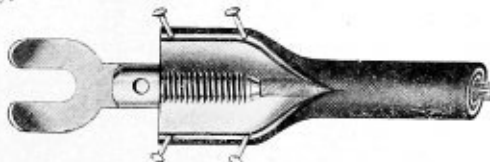


Spring Clip Type

Becco Terminals, Spring Clip Type, each.....\$0.15
Per dozen.....D.P. \$1.44
Per box of 50...D.P. 5.10

Directions for Use of Becco Terminals

The cut below shows the hollow screw terminal after it has been screwed into the cable, with the rubber insulation cut open to see just how the wire strands enter the hole in the screw to make electrical contact. If you doubt this try it yourself by screwing the terminal into a short piece of cable and cut the insulation of the cable open to expose the result. The screw terminals are for use on Secondary High Tension cables only.



To fasten the screw terminals, take the cable end in one hand and the terminal in the other, moisten the screw and press the point of the screw into the end of the cable so that the wires will enter the hole of the terminal; then screw the terminal up to the shoulder by pressing and turning the same as you do when you force a wood screw.

If brass ferrules or fibre sleeves are used, the ferrules or fibres are first placed on the cable and the screw terminal is threaded into the cable through the hole in the ferrule or fibre.

Clip Terminals



Clip Terminal, inside diameter .190 for single braided and 5 M.M. Primary Rubber Cable. Per dozen.....\$0.60

Clip Terminal, inside diameter .235 for double braided Primary Cable. Per dozen......60

Clip Terminal, inside diameter .310 for wrapped Magneto and double braided Magneto Cable. Per dozen......60

Clip Terminal, inside diameter .325 for Secondary and 9 M.M. Rubber Cable. Per dozen......60

Clip Terminal, inside diameter .400 for medium Secondary Braided Cable. Per dozen......60

Clip Terminal, inside diameter .475 for Secondary Braided and 12 M.M. Rubber Cable. Per dozen......60

All sizes, per dozen...D.P. \$0.55

Per 100.....D.P. \$3.77

E. G. Terminal Assortment

The box contains every type of terminal and battery connector that is in demand—each style is in a separate compartment—on the inside cover of the box there are illustrations that show how and where the terminals are used, and templates to guide you in quickly fitting any size of cable.



Terminal Assortment "A"

consists of 25 Eye Terminals, 125 (6 sizes) Clip Terminals, 12 (3 sizes) Fibre Clip Terminals, 12 (3 sizes) Fibre Magneto Terminals, 6 Combination Plug Terminals, 50 plain and 50 Holdfast Battery Connectors.

Total price.....\$8.60

Per Box...D.P. \$12.73

Terminal Assortment "B"

consists of half of the quantities of Terminals and Battery Connectors furnished in Assortment "A," excepting Fibre Clip and Fibre Magneto Terminals—8 of each (2 sizes) included.

Total price.....\$4.45

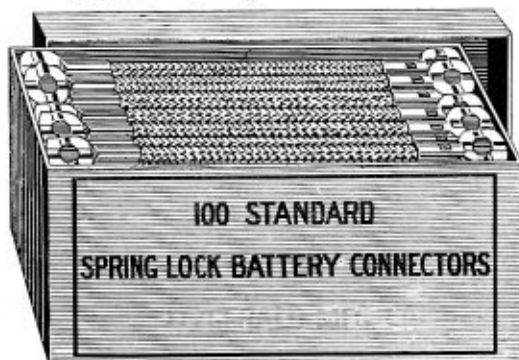
Per Box...D.P. \$6.60



The GIBSON COMPANY INDIANAPOLIS

BATTERY CONNECTORS AND TERMINALS

Standard Spring Lock Connectors



Standard Battery Connectors, with corrugated tips. Have sufficient spring to lock thumb nut, insuring perfect contact.

Per dozen.....\$0.30
Per dozen..D.P. \$0.33
Per 100.....\$1.50
Per 100..D.P. \$2.00



Perfection Connectors

Perfection Spring Battery Connector is a distinct improvement over other Spring Connectors and can be used with or without nut.

Per dozen.....\$0.70
Per dozen..D.P. \$0.77
Per 100.....\$5.00
Per 100...D.P. \$5.00



Bull Dog Connectors



No. 1026—Bull Dog Battery Connector

Per dozen.....\$1.00
Per dozen..D.P. \$0.78
Per 100.....\$7.50
Per 100...D.P. \$7.22

Copper Terminals



No. 1



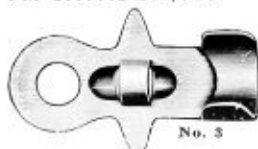
No. 2

No. 1 Copper Terminals for small size Primary Cable (5/32 to 3/16).

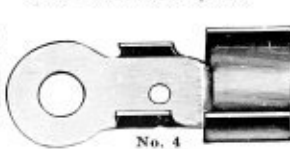
No. 2 Copper Terminals for most of the Primary Cable (3/16 to 1/2).

Per dozen.....\$0.25
Per 100...D.P. \$0.55

Per dozen.....\$0.35
Per 100...D.P. \$1.10



No. 3



No. 4

No. 3 Copper Terminals for average size Secondary Cable (5/16 to 3/8).

No. 4 Copper Terminals for large Secondary Cable (7/16 to 1).

Per dozen.....\$0.40
Per 100...D.P. \$1.55

Per dozen.....\$0.50
Per 100...D.P. \$1.76

Handy Box

An assortment of 100 Battery connections, 100 each of Nos. 2 and 3, and 50 each of Nos. 1 and 4 Copper Terminals, put up in a substantial wooden box. This assortment contains about the average quantities of the various sizes. Very handy in every garage.



No. 9 Handy Box, each.....\$4.00
Per box..D.P. \$6.22

Assortment "Rajah" Terminals



This box contains 118 Rajah Terminals—98 Clip and 20 Primary—in the styles and sizes mostly used. The assortment is particularly valuable for garages, dealers and repair shops.

Per Box.....\$10.00
Per box..D.P. \$12.20

Rajah Regular Clip Terminals



These are furnished with collar nut, which fits any spark plug.

No. 4. Clip Terminals, complete, each.....\$0.10
Per dozen..D.P. \$1.33



Rajah Stud Terminal makes Champion Terminals fit Rajah Plugs, without alteration.

Each.....\$0.10
Per dozen..D.P. \$1.33




Rajah Thumb Nut Terminal, each....\$0.10
Per dozen..D.P. \$1.33



AUTOMOBILE FUSES

We list below Union Automobile Fuses both Glass and Fibre Tube, used in connection with the electric lighting system on both Gasoline and Electric cars. Types 1A, 2A, 3A and 4A can be used for any voltage up to 50 Volts. Types 5A and 6A can be furnished as high as 250 Volts.

GASOLINE CARS				(STANDARD PACKAGE 100)	GASOLINE CARS—Continued			
Make of Car	Uses Fuse No.	Amp.	Volts	When ordering, do not fail to specify fuse number, ampere and make of car; this will insure our sending the correct fuse.	Make of Car	Uses Fuse No.	Amp.	Volts
Allen	5A Glass	15	1-50	 Type 1A Glass Tube 8 1/2"x1 1/2"	Oakland	4A	15	1-50
Amesberry	6A	20	1-50		Overland, Models 79-83	1A	20	1-50
Arbenz	4A	10	1-50		Overland 1914 Coupe	6A	20	250
Auburn 1915	5A	15	1-50		Overland 1916	1A	20	1-50
Austin	5A	5-15	1-50		Pathfinder 1915-1916	5A	5-15	1-50
Briscoe	3A	15-20	1-50		Packard 1916	2A	10	1-50
Buick	Special Link Fuse				Paige	1A	20	1-50
Cadillac 1913	4A	15	1-50		Peerless 1914	3A	20	1-50
Cadillac 1914	6A	25	250		Peerless 1915	1A	20	1-50
Carderac	15 Fuseplug				Pierce-Arrow	5A Glass / 5, 10 & 30		
Carderac, Model 9	4A	15	1-50	Pope-Hartford	4A	10	1-50	
Case Car	5A	5-15	1-50	Pratt	1A	20	1-50	
Chadwick	4A	5	1-50	Premier	3A	10	1-50	
Chadwick	5A	15	1-50	Premier	4A	10	1-50	
Chalmers 1914	6A	15	250	Regal 1914-1915	5A	5	1-50	
Chalmers 1915	6A	20	250	Reo 1914-15	4A	10 & 15	1-50	
Chalmers, Model 32	1A	20	1-50	Saxon Six	1A	20	1-50	
Chandler	5 & 1	1-50		Saxon Six	5A	15	1-50	
Chandler 1916	1A	20	1-50	Studebaker 1914	4A	15	1-50	
Chevrolet	6A	20	250	Studebaker 1915	2A	15	1-50	
Cole 1193-1914	4A	15	1-50	Studebaker 1916	3A	10	1-50	
Cunningham, J. 1914	4A	15	1-50	Stearns-Knight	1A	20	1-50	
Cunningham, J. 1915	1A	20	1-50	Stearns-Knight 1916	3A	20	1-50	
Cunningham, J. 1916	5A	20	1-50	Speedwell	4A	15	1-50	
Davis	5A	5-15	1-50	Staver	4A	15	1-50	
Detroit	5A	15	1-50	Stutz	3A	15	1-50	
Dispatch	4A	10	1-50	Velic, Model 15	1A	20	1-50	
Dodge 1915-16	4A	10	1-50	Velic 1916	Special Link Fuse			
Dorris	5A Glass	15	1-50	Westcott	4A	15	1-50	
Dort	3A	15	1-50	Winton	3A	10	1-50	
Empire	3A	5 & 15	1-50	Winton, Model 21A	5A	5-20	1-50	
Enger	1A	20	1-50	White	4A	10	1-50	
Fiat	5A	5 & 15	250	Willys-Knight	6A	20	250	
Fiat 1916	6A	30	250	Willys-Knight	5A	15	1-50	
Franklin	3A	15	1-50	Willys-Knight	4A	15	1-50	
Glide	5A	5-15	1-50	Willys-Knight	2A	15	1-50	
Grant Six	5A	Special	1-50	Zimmerman	3A	15	1-50	
Hudson	4A	15	1-50					
Hupmobile 1914	5A	5, 10 & 15	250					
Hupmobile 1915	4A	15	1-50					
Hupmobile 1916	4A	15	1-50					
Imperial, Model 56	4A	5	1-50					
Imperial, Model 64	1A	20	1-50					
Imperial, Models 66F & 66, 1916	5A Glass	15	1-50					
Jeffery 1913-1914	5A	15	1-50					
Jeffery 1915	4A	10	1-50					
Jeffery 1916	3A	20	1-50					
Kissel-Kar 1915	4A	15	1-50					
Kissel-Kar 1916	3A	20	1-50					
Knox	4A	10-15	1-50					
Lexington-4	6A	15	250					
Lexington-4	5A	5-15	1-50					
Lexington-6	5A	5-15	1-50					
Locomobile 1914	6A	30	250					
Locomobile 1915	5A	15	1-50					
Locomobile 1916	5A Glass	10	1-50					
Loyne-Knight 1913-14	4A	10	1-50					
Lozier	6A	10	250					
L. C. E.	4A	15	1-50					
Marion	5A	5 & 15	1-50					
Marmion	4A	20	1-50					
Maxwell 1914	4A	15	1-50					
Maxwell 1915-16	3A	20	1-50					
McFarlan-76	5A	5-15	1-50					
Mercer	1A	20	1-50					
Metz	1A	20	1-50					
Mitchell 1913-14	4A	15	1-50					
Mitchell 1915	3A	15	1-50					
Moline 1914	4A	10	1-50					
Moline 1915	5A	15	250					
Moline, Model 40	1A	20	1-50					
Monroe	6A	20	250					
Norwalk-6	5A	15	1-50					
National 1914	4A	15	1-50					

When ordering, do not fail to specify fuse number, ampere and make of car; this will insure our sending the correct fuse.



Type 1A

Glass Tube 8 1/2"x1 1/2"



Type 2A

Glass Tube 1 3/16"x1 1/2"



Type 3A

Glass Tube 1 1/2"x1 1/2"



Type 4A

Glass or Fibre Tube 1 1/2"x1 1/2"



Type 5A

Glass or Fibre Tube 1 1/2"x1 1/2"



Type 6A

Fibre Tube 2"x1 1/2"

1-A, 2-A and 3-A Each Doz. 100
 Fuses D.P. . \$0.10 \$0.75 \$5.00
 4-A and 5-A Fuses D.P.25 2.75 18.00
 6-A Fuses D.P.35 3.75 25.00
 Buick and Velie 1916 Special Link Fuse same price as 5-A.

ELECTRIC CARS

American	5A	10	80
Anderson	6A	10	250
Argo A-B-C	5A	10	40
Bortland	5A	10	80
Broc	5A	10	80
Baker	5A	10	110
Bailey	6A	10	250
Century	6A	10	250
Chicago	6A	15	250
Detroit 1914	6A	10	250
Detroit 1915	5A	15	250
Dayton	6A	10	250
G. V. C.	6A	5	90
Grinnell	6A	15	250
Ohio	6A	15	250
Standard	6A	15	250
Waverly	4A	5	100
Woods	5A	5	250

ELECTRIC STARTING AND LIGHTING SYSTEM FUSES

Dean	3A	15	1-50
Electric Auto Lite	1A	20	1-50
Esterline	4A	15	1-50
Gray & Davis	1A	20	1-50
Gray & Davis Ford	5A Glass	30	1-50
North East	4A	10	1-50
Remy	3A	5 & 15	1-50
Westinghouse	4A	15	1-50
Westinghouse Special	5A	20	1-250
Westinghouse (Ford)	3A	15	1-50



SOLAR DRY BATTERIES

A Superior Grade of Dry Cell Manufactured Especially for Ignition and Open Circuit Work.

The "SOLAR" Dry Battery is equal to the best on the market and superior to the majority.

THE Solar Battery is manufactured in the best organized Dry Cell Plant in the world. Each Cell is individually constructed. It is made from the highest grade Zinc, Carbon and Chemicals obtainable. Each Cell is subjected to the most severe tests possible. It is allowed to age the proper length of time, and when offered the consumer, is uniform in strength, life and appearance.

Every Solar Battery is guaranteed, covering long life, high amperage and quick recuperation. We will gladly replace any not meeting our claims in this respect.

The selection of a satisfactory Dry Cell presented a big problem to us until we found the Solar. We have tested and sold all the standard makes



ONE of the most troublesome commodities carried by the dealer is the Dry Battery. The "SOLAR" will eliminate these worries. He can offer them to his trade with the knowledge that each and every one is uniform and is the highest grade manufactured.

The "SOLAR" Battery sells itself, it is neat in appearance, clean cut and attractive. Each Cell is inspected for defects and when packed are as near perfect as human ingenuity and high class machinery can make them.

We have a SPECIAL BONUS CONTRACT to offer the wide-awake dealer. You should investigate this today. The "SOLAR" Cell is a business producer and a profit-maker.

THE SOLAR BATTERY CARRIES A TRIPLE GUARANTEE
IT IS POSITIVELY THE BEST THE MARKET AFFORDS



"SOLAR" DRY BATTERIES ROUND CARTONS



THIS Battery is the type most used. It is particularly adapted for ignition work, hand lanterns and telephone service.

The "SOLAR" Battery is designed for heavy duty service. It will give a constant, steady flow of current at high amperage for a long period of time. It recuperates very quickly, and as they are uniform in material and construction, they give excellent results when arranged in groups (series).

"SOLAR" DRY BATTERIES SQUARE CARTONS

SOME of our customers prefer the square carton, and for that trade we are prepared to furnish the "SOLAR" in square cartons.

The Cell is exactly the same as that contained in the round carton, possesses the same excellent features and is offered at exactly the same price as the round type.



ON account of the very uncertain condition of the raw materials market occasioned by the European war, it is impossible to quote a price on these Batteries, as the price is fluctuating from day to day. However, you are perfectly safe in sending us your orders for "SOLAR" Dry Batteries, in the assurance that you will receive the very lowest price current at that time.

"SOLAR" Batteries are lower in price than other brands of the same quality.

DEALERS—Our Special Bonus Battery Contract should be in your hands. It is one of the most attractive propositions we have ever offered. SEND FOR IT TODAY!



BATTERIES



Columbia Regular

The Columbia Regular Battery will stand hard and heavy service. When properly packed it is not injured by transportation.

Columbia Regular Dry Cell,
each\$0.40

Small quantities,
each..D.P. \$0.65

Half-barrel lots (62),
each..D.P. \$0.63

Barrel lots (125),
each..D.P. \$0.54½

Columbia Ignitors

Columbia Ignitors, made especially for heavy ignition work. Ignitors are supplied by us from a stock which is always fresh.

Columbia Ignitor Dry Cell,
each\$0.40

Small quantities,
each..D.P. \$0.68

Half-barrel lots (62),
each..D.P. \$0.65

Barrel lots,
each..D.P. \$0.56½



Columbia Multiple Battery



A unit battery for every type of ignition and heavy service. Convenient—not necessary to wedge cells in place. Only two connections to be made. All connections are soldered. Waterproof—a hermetically sealed can makes the battery impervious to the action of water.

No. 356. Columbia Multiple Battery, each.....\$7.00
Dimensions: 13½ long, 8½ wide, 8½ high.
Each..D.P. \$13.32

Columbia Hot Shot Battery



Columbia Hot Shot is a unit battery in an attractive red, moisture-proof case. Soldered copper strips connect the individually tested cells, which are entirely surrounded by waterproof insulating compound. It is only necessary to connect two wires to the binding posts. The battery is then ready to operate. Hot Shot is particularly useful for ignition where the variety of sizes makes it adaptable for motors of all sorts—stationary, vehicle or motor boat. It is very satisfactory for carriage lighting outfits.

They are low in cost and save trouble, worry and loss of time in hunting for poor connections. They are highly efficient, and more economical than single sets of dry cells connected with loose wires. Below are given a few of the more common sizes. If none of these meet your requirements, let us know. There is a battery made which exactly fits your need.

Type.	Voltage.	Length.	Width.	Height.	Weight.	Each.
*1461	6.0	10½	2½	7¼	9 lb.	\$2.00
Each..D.P.						\$3.33
1561	7.5	8	4½	7¼	11 lb.	2.50
Each..D.P.						\$4.18
†1661	9.0	8	5½	7¼	13 lb.	3.00
Each..D.P.						\$5.00
*2462	6.0	10½	5½	7¼	18 lb.	4.00
Each..D.P.						\$6.66
‡2562	7.5	13½	5½	7¼	22 lb.	5.00
Each..D.P.						\$8.33

*For make and break ignition systems, low voltage, horns, etc.
†For jump spark ignition, horns, 6-volt tungsten lamps lighting, etc.

‡For single spark systems, high voltage horns.

STORAGE BATTERIES

USL Starting and Lighting Storage Batteries

The electric Storage Battery end of the Motor Car Accessory Trade is the most neglected branch of that large and profitable business. It is only recently that the far-seeing dealer has realized the tremendous market for a dependable storage battery.

There are over 1,000,000 storage batteries replaced every year. Practically every one of the 2,200,000 automobile owners in this country buys a storage battery once every two years or less. You can therefore estimate the profit that can be derived in your immediate district from the sale of a high-class dependable battery.

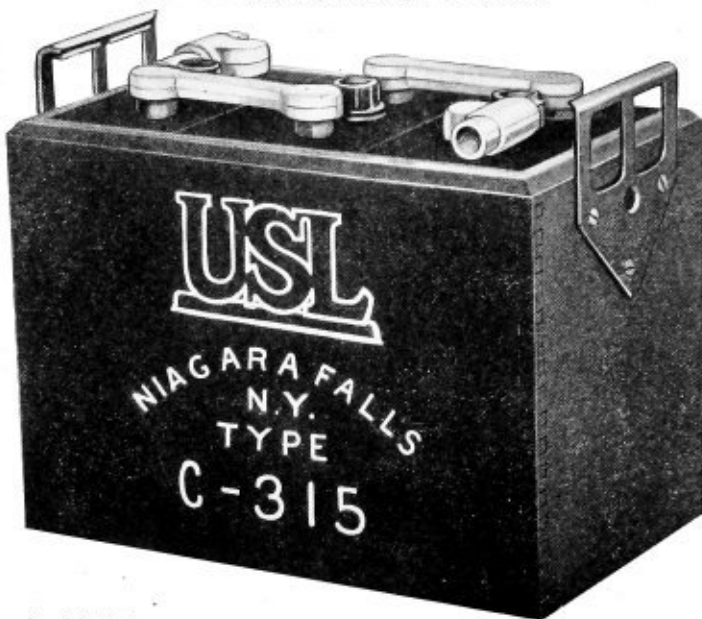
There are many reasons why thousands of batteries of all makes have in the past proved unsatisfactory. In the first place, because a battery is a "mysterious" thing at best, most of them can be cheated. As large distributors we have been bothered so much by the general worthlessness of inferior batteries and the constant trouble they cause that we determined some time ago to look into the storage battery business very seriously. We looked over the entire field, inspected factories, processes, materials, laboratories, etc., etc., and after a long and painstaking search we found the battery we wanted—THE NEW TYPE USL. The USL cannot be "cheated," because every single part is built in the USL factory and is inspected piece by piece by expert inspectors. USL batteries are **not assembled** batteries, they are **BUILT** for service and long life.

The chief difficulty heretofore experienced in the use of starting and lighting batteries has been the rapid deterioration of the plates, due not only to inferior materials and faulty workmanship, but more than anything else to an out-of-date, imperfect method of combining the oxide paste with the grid to form the plate. More than any other factor, this paste determines the life and service of a storage battery, for its action in connection with the acid solution liberates the power stored in the battery, and this power is **great or little**, and battery life **long or short** as the plate is **good or bad**.

THE COMMON METHOD OF PLATE PASTING.—Briefly and without going into any obscure details or technicalities, the common method of making battery plates (and this method is used by every other manufacturer but the USL) is to "hand-paste" them. The workman rubs the oxide paste (which sets very quickly) into the grid by hand on one side and then turns it over and rubs in the other side. One side "sets" before the other can be rubbed in and the whole operation results in an imperfectly welded plate, full of flaws and weak spots, which gives off an unsatisfactory flow of current, "washes" away easily, crumbles rapidly under strain and shock, and is the cause of the short life of 90 per cent. of the batteries that prove unsatisfactory to the car owner.

THE TRIUMPH OF THE MACHINE-PASTED PLATE.—A different method of pasting plates has been developed by the USL engineers after many years of experimenting. It is a special process and is patented; it is used exclusively by the USL Company. It produces a plate as superior to the old type as the **self-starter is superior to the starting-crank**. There is no uncertainty in the production of USL plates. These plates are placed in an ingenious machine and the paste is quickly pressed into the grid from **both sides at once**. It is pressed in evenly and more oxide goes into the grid than can possibly be pressed in by the old, antiquated hand method. It sets as a mass, and the result is a **solid, compact plate, uniform in density throughout**, which **WEARS EVENLY, GIVES OFF A CONSTANT AND STEADY FLOW OF POWER, DOES NOT WASH AWAY, DOES NOT BREAK DOWN OR CRUMBLE FROM ROAD SHOCK OR VIBRATION, AND THEREFORE LASTS LONGER THAN ANY OTHER STARTING AND LIGHTING BATTERY PLATE EVER BUILT.**

The time is not far distant when every manufacturer of storage batteries in the world will be put to the necessity of changing from the old hand-pasted plate method to the more modern and efficient "machine-pasted" plate method.



STORAGE BATTERIES

USL Starting and Lighting Storage Batteries

RIGHTLY BUILT AND CLOSELY INSPECTED

USL Batteries possess many points of superiority, aside from the wonderful machine-pasted plates. They are the most CAREFULLY BUILT and closely inspected batteries manufactured.

The boxes are sturdily constructed. The jars are made of a SUPERIOR GRADE OF RUBBER, and before installation are tested far beyond any shock or strain they will be subjected to under the most severe service. An exclusive vent and expansion chamber prevent loss of acid solution. The terminals are strong and well made, and all metal parts, even to the handles, are lead coated to prevent corrosion.



And one of the most important features of USL construction is the wonderful method of grid casting, which ABSOLUTELY PREVENTS plate buckling under any abnormal service. Sixteen years' experience in the design and manufacture of Storage Batteries guarantees the USL as being the superior in this field.

A POSITIVE GUARANTEE

All USL Batteries are sold under the most generous guarantee known to the battery business. They are warranted for FIFTEEN MONTHS, on a definitely specified dollars and cents adjustment basis. For instance, should a USL battery fail at the end of ten months the user will be given a new battery by the factory, in exchange for his old one and ten-fifteenth of the price of the new battery. The same proportion prevails throughout the guarantee period of fifteen months.

SELLING FEATURES OF THE USL

Every dealer offering this battery to his trade has a fixed assurance of satisfaction. The exceptional construction features, the exclusive "machine-pasted" plate and the wonderful guarantee and adjustment privilege will make this battery the most popular in America. Its use will dispose of the majority of battery worries and will make a satisfied instead of a disgruntled customer. IF YOU EXPECT TO GET THE BATTERY BUSINESS OF YOUR DISTRICT YOU SHOULD STOCK USL BATTERIES. YOUR WORRIES AND THE MOTORISTS' TROUBLES WILL BE REDUCED TO A MINIMUM.

OUR SERVICE STATION PROPOSITION

We have the exclusive distribution of the USL Batteries within a certain district, and we have a special Service Station arrangement to offer those wide-awake, energetic dealers who are looking to the enlargement of their profits and who wish to control the battery business of their city. If you are in position to give service, repair batteries and have the proper charging equipment it will make you eligible. If you do not have this equipment we can furnish it at a nominal figure. In any event BETTER SEND US YOUR APPLICATION FOR A SERVICE STATION CONTRACT AT ONCE, YOUR TERRITORY MAY STILL BE OPEN.

THE USL STORAGE BATTERY IS YEARS IN ADVANCE OF ALL OTHER STORAGE BATTERIES IN DESIGN, CONSTRUCTION, SERVICE, GUARANTEE AND LONG LIFE. IT IS THE STORAGE BATTERY YOU SHOULD RECOMMEND TO YOUR TRADE—BECAUSE—IT IS THE SUPERIOR OF EVERY OTHER MANUFACTURED.

See following pages for sizes, dimensions and prices.



STORAGE BATTERIES

USL Starting and Lighting Storage Batteries



Type A-313-A End Assembled



Type C-315 Side Assembled-Single Row

When ordering be sure to specify Type Number and letters preceding and following the numbers. The first letter, which in many cases is the only letter shown, refers to the general type of construction. It stands for the type of plate used. For example, Type C-607 means that Type C plates

are used in that battery; also Type C jars, Type C links, etc. The last one or two numbers represent the number of plates to each cell; for instance, Type A-317 has three cells of seventeen plates each, while type EL-1207 has twelve cells of seven plates each. The letter (should there be one) following the numbers refers to the type of assembly, whether side or end type; for instance, Type EL-607-C is side assembled in one row, while EL-607-E is end assembled in two rows.

Don't fail to INDICATE ALL THE LETTERS AND NUMBERS WHEN ORDERING; it is our best means of identifying what you want, and there is every assurance that your order will be filled correctly.

6-Volt, Types A, C and G Batteries

TYPE A

Volts	Ampere Hours	Side Assembled Height=8 $\frac{1}{2}$ " Width=7 $\frac{3}{8}$ "			End Assembled—1 Row Height=8 $\frac{1}{2}$ " Length=20 $\frac{1}{8}$ "			Weights in Pounds	Prices
		Catalog Numbers	Code Words	Lengths Inches	Catalog Numbers	Code Words	Widths Inches		
6	35	A-307	Chevi	6 $\frac{1}{4}$	A-307-A	Chlp	2 $\frac{1}{8}$	30	\$15.40
6	50	A-309	Chewy	8 $\frac{1}{8}$	A-309-A	Chinx	3 $\frac{3}{8}$	36	17.60
6	60	A-311	Cheyf	9 $\frac{1}{8}$	A-311-A	Chioh	3 $\frac{1}{2}$	43	19.80
6	80	A-313	Chiaq	10 $\frac{1}{4}$	A-313-A	Chirv	4 $\frac{1}{4}$	49	22.90
6	100	A-315	Chiba	12	A-315-A	Chiso	4 $\frac{1}{2}$	56	24.20
6	110	A-317	Chici	13 $\frac{1}{8}$	A-317-A	Chity	5 $\frac{1}{8}$	62	26.40
6	120	A-319	Chif	14 $\frac{1}{8}$	A-319-A	Chjub	5 $\frac{1}{4}$	69	28.60
6	140	A-321	Chihu	15 $\frac{1}{4}$	A-321-A	Chiyf	6	75	30.80
6	160	A-323	Chike	17 $\frac{1}{4}$	A-323-A	Chobs	6 $\frac{1}{8}$	82	33.00

TYPE C

Volts	Ampere Hours	Side Assembled Height=9 $\frac{1}{2}$ " Width=7 $\frac{3}{8}$ "			End Assembled—1 Row Height=9 $\frac{1}{2}$ " Length=20 $\frac{1}{8}$ "			Weights in Pounds	Prices
		Catalog Numbers	Code Words	Lengths Inches	Catalog Numbers	Code Words	Widths Inches		
6	35	C-307	Chock	6 $\frac{1}{4}$	C-307-A	Chooz	2 $\frac{1}{8}$	31	\$16.50
6	50	C-309	Chodt	8 $\frac{1}{8}$	C-309-A	Chopf	3 $\frac{3}{8}$	39	18.70
6	60	C-311	Choez	9 $\frac{1}{8}$	C-311-A	Chore	3 $\frac{1}{2}$	47	20.90
6	80	C-313	Choirv	10 $\frac{1}{4}$	C-313-A	Chotz	4 $\frac{1}{4}$	55	23.10
6	100	C-315	Chojv	12	C-315-A	Chovo	4 $\frac{1}{2}$	63	25.30
6	110	C-317	Choka	13 $\frac{1}{8}$	C-317-A	Chowe	5 $\frac{1}{8}$	71	27.50
6	120	C-319	Chold	14 $\frac{1}{8}$	C-319-A	Choxi	5 $\frac{1}{4}$	79	29.70
6	140	C-321	Chomp	15 $\frac{1}{4}$	C-321-A	Choyb	6	87	31.90
6	160	C-323	Chong	17 $\frac{1}{4}$	C-323-A	Chozv	6 $\frac{1}{8}$	95	34.10

TYPE G

Volts	Ampere Hours	Side Assembled Height=11 $\frac{1}{2}$ " Width=7 $\frac{3}{8}$ "			End Assembled—1 Row Height=11 $\frac{1}{2}$ " Length=20 $\frac{1}{8}$ "			Weights in Pounds	Prices
		Catalog Numbers	Code Words	Lengths Inches	Catalog Numbers	Code Words	Widths Inches		
6	35	G-307	Chuap	6 $\frac{1}{4}$	G-307-A	Chuiw	2 $\frac{1}{8}$	44	\$17.90
6	50	G-309	Chuco	8 $\frac{1}{8}$	G-309-A	Chulv	3 $\frac{3}{8}$	53	20.40
6	60	G-311	Chuej	9 $\frac{1}{8}$	G-311-A	Chumz	3 $\frac{1}{2}$	62	22.55
6	80	G-313	Chuga	10 $\frac{1}{4}$	G-313-A	Chunz	4 $\frac{1}{4}$	71	25.30
6	100	G-315	Chuhf	12	G-315-A	Chuoz	4 $\frac{1}{2}$	80	27.80

The batteries listed in this catalog are starting batteries. They are also adaptable to lighting service. If batteries are desired for lighting service exclusively, they will be furnished at the same prices as shown for starting batteries.

Types C and G have similar construction but greater heights than the type "A."

STORAGE BATTERIES

USL Starting and Lighting Storage Batteries



Type C-607A.
End Assembled—Two Rows.



Type C-607.
Side Assembled—Single Row.

The capacity of a battery is measured in ampere hours. The volume of current flow is measured in amperes. A current of one ampere flowing for one hour is the unit by which capacity is measured and is called an ampere hour. Some manufacturers use this method to determine or indicate a particular size battery, as, for instance, LB68, which simply means a certain form of battery of six volts, eighty amperes. For the convenience of our dealers we show both voltage and amperage for each size and type. This will prove a guide in ordering.

stance, LB68, which simply means a certain form of battery of six volts, eighty amperes. For the convenience of our dealers we show both voltage and amperage for each size and type. This will prove a guide in ordering.

12-VOLT, TYPES A, C AND G BATTERIES

Volts	Ampere Hours	Type	Side Assembled—1 Row			End Assembled—2 Rows			
			Catalog Numbers	Widths Inches	Lengths Inches	Catalog Numbers	Lengths Inches	Widths Inches	
12	35	A	607	7 3/8	12 3/8	A	607-A	20 1/2	4 1/2
12	50	or	609	7 3/8	15	or	609-A	20 1/2	5 1/2
12	60	C	611	7 3/8	17 1/2	C	611-A	20 1/2	6 1/2
12	80	or	613	7 3/8	20 1/4	or	613-A	20 1/2	7 1/2
12	100	G	615	7 1/2	23	G	615-A	20 1/2	8 1/2

Volts	Ampere Hours	Side Assembled			End Assembled—2 Rows		Weights in Pounds	Prices
		Catalog Numbers	Code Words	Heights Inches	Catalog Numbers	Code Words		
12	35	A-607	Chups	8 1/8	A-607-A	Chuxy	57	\$27.50
12	50	A-609	Churb	8 1/8	A-609-A	Chuyg	70	31.90
12	60	A-611	Chush	8 1/8	A-611-A	Chyab	84	36.30
12	80	A-613	Chuve	8 1/8	A-613-A	Chyde	97	40.70
12	100	A-615	Churk	9	A-615-A	Chyen	110	45.10
12	35	C-607	Chyfa	9 1/2	C-607-A	Chynk	63	29.70
12	50	C-609	Chyfu	9 1/2	C-609-A	Chyof	79	34.10
12	60	C-611	Chyky	9 1/2	C-611-A	Chyrg	95	38.50
12	80	C-613	Chylz	9 1/2	C-613-A	Chysm	111	42.90
12	100	C-615	Chymd	9 3/4	C-615-A	Chyth	127	47.30
12	35	G-607	Chyur	11 1/2	G-607-A	Chyse	86	33.00
12	50	G-609	Chyva	11 1/2	G-609-A	Chyai	104	37.95
12	60	G-611	Chywo	11 3/2	G-611-A	Ciaw	122	42.90

18-VOLT, TYPES A AND C BATTERIES

Volts	Ampere Hours	Type	Side Assembled			End Assembled—3 Rows			
			Catalog Numbers	Widths Inches	Lengths Inches	Catalog Numbers	Lengths Inches	Widths Inches	
18	35	A	907	7 3/4	18 1/4	A	907-A	20 1/2	6 3/4
18	50	or	909	7 3/4	22 1/2	or	909-A	20 1/2	8 1/4
18	60	C	911	7 3/2	26 1/2	C	911-A	20 1/2	9 3/4

Volts	Ampere Hours	Type	Side Assembled			End Assemb.—3 Rows		Weights in Pounds	Prices
			Catalog Numbers	Code Words	Heights Inches	Catalog Numbers	Code Words		
18	35	A	A-907	Ciabt	8 1/2	A-907-A	Ciaev	84	\$42.90
18	50		A-909	Ciach	9	A-909-A	Ciang	103	48.40
18	60		A-911	Ciafy	9	A-911-A	Ciahn	122	53.90
18	35	C	C-907	Cisko	9 1/2	C-907-A	Cianz	91	44.00
18	50		C-909	Cialf	9 5/8	C-909-A	Ciaoc	114	49.50
18	60		C-911	Ciamt	9 3/4	C-911-A	Ciard	137	55.00

We carry repair parts and equipment for all makes of storage batteries.
Send for complete catalog of parts and USL Batteries.

YOU SHOULD HAVE A USL SERVICE STATION. SEND FOR OUR PROPOSITION.

STORAGE BATTERIES

USL Starting and Lighting Storage Batteries

Our list of USL Batteries will show a style and type of battery used on every car. By referring to the dimensions in the various tables and the voltage and amperage, it is an easy matter to determine the type of battery you will require for each particular case.

Types "F" and "EL", SHOWN BELOW, are of a less expensive type than those on the preceding pages. Their internal construction is first class, but they do not have the double cover of hard rubber. They are sealed over with the best sealing compound obtainable.



Type F-313,
Side Assembled.



Type G-315,
Side Assembled.

6-VOLT, TYPE F BATTERIES

Volts	Ampere Hours	Side Assembled Height=10 ³ / ₁₆ " Width=5 ⁷ / ₁₆ "			End Assembled—1 Row Height=10 ³ / ₁₆ " Length=15 ¹¹ / ₁₆ "			Weights in Pounds	Prices
		Catalog Numbers	Code Words	Lengths Inches	Catalog Numbers	Code Words	Widths Inches		
6	35	F-307	Ciase	6 ¹ / ₄	F-307-A	Cibou	2 ¹ / ₂	30	\$14.30
6	50	F-309	Ciatl	8 ¹ / ₁₆	F-309-A	Cibuy	3 ³ / ₈	36	16.50
6	60	F-311	Cinup	9 ³ / ₁₆	F-311-A	Cibyt	3 ¹ / ₂	43	18.70
6	80	F-313	Ciava	10 ¹ / ₄	F-313-A	Cicco	4 ¹ / ₄	49	20.90
6	110	F-315	Ciava	12	F-315-A	Cicoy	4 ¹ / ₂	56	23.10
6	120	F-317	Ciayk	13 ¹ / ₁₆	F-317-A	Cicyo	5 ¹ / ₈	62	25.30
6	140	F-319	Ciazm	14 ³ / ₁₆	F-319-A	Cidal	5 ³ / ₈	69	27.50
6	140	F-321	Cibao	15 ¹ / ₁₆	F-321-A	Cidol	6 ¹ / ₈	75	29.15
6	160	F-323	Cibia	17 ¹ / ₄	F-323-A	Cidfo	6 ¹ / ₂	82	31.35

12-VOLT, TYPE F BATTERIES

Volts	Ampere Hours	Side Assembled			End Assembled—2 Rows			Weights in Pounds	Prices
		Catalog Numbers	Widths Inches	Lengths Inches	Catalog Numbers	Lengths Inches	Widths Inches		
12	35	F-607	5 ¹ / ₄	12 ³ / ₈	F-607-A	15 ¹ / ₂	4 ⁷ / ₈		
12	50	F-609	5 ³ / ₈	15	F-609-A	15 ¹ / ₂	5 ¹ / ₄		
12	60	F-611	5 ¹ / ₂	17 ⁵ / ₈	F-611-A	15 ¹ / ₂	6 ⁵ / ₁₆		
12	80	F-613	5 ⁷ / ₈	20 ¹ / ₄	F-613-A	15 ¹ / ₂	7 ³ / ₁₆		
12	100	F-615	6	23	F-615-A	15 ¹ / ₂	8 ¹ / ₁₆		
			Code Words	Heights Inches	Catalog Numbers	Code Words			
12	30	F-607	Cidry	10 ³ / ₈	F-607-A	Cidyn		57	\$25.85
12	50	F-609	Cidis	10 ³ / ₈	F-609-A	Cidzu		70	30.25
12	60	F-611	Cidji	10 ³ / ₈	F-611-A	Cieng		84	34.65
12	80	F-613	Cidine	10 ³ / ₈	F-613-A	Cieba		97	39.05
12	100	F-615	Cidop	10 ¹ / ₂	F-615-A	Cieci		110	43.45

6-VOLT, TYPE EL BATTERIES

Volts	Ampere Hours	Side Assembled Height=10 ³ / ₁₆ " Width=5 ¹¹ / ₁₆ "			End Assembled—1 Row Height=10 ³ / ₁₆ " Length=14 ¹ / ₄ "			Weights in Pounds	Prices
		Catalog Numbers	Code Words	Lengths Inches	Catalog Numbers	Code Words	Widths Inches		
6	35	EL-307	Ceyrf	7 ¹ / ₈	EL-307-A	Chay	3 ¹ / ₂	28	\$14.30
6	50	EL-309	Ceyuj	8 ³ / ₁₆	EL-309-A	Chadi	3 ¹ / ₂	34	16.25
6	60	EL-311	Canij	10 ¹ / ₄	EL-311-A	Chab	4 ¹ / ₂	40	18.15
6	80	EL-313	Canog	11 ¹ / ₁₆	EL-313-A	Chabe	4 ¹ / ₂	46	20.10
6	100	EL-315	Canru	13	EL-315-A	Chaf	5 ¹ / ₂	52	22.00
6	110	EL-317	Canuw	14 ³ / ₁₆	EL-317-A	Chaks	5 ¹ / ₂	58	24.20
6	120	EL-319	Canvi	15 ¹ / ₁₆	EL-319-A	Chalj	6 ¹ / ₈	63	26.12
6	140	EL-321	Ceyxu	17 ¹ / ₁₆	EL-321-A	Chanp	6 ³ / ₈	69	28.05
6	160	EL-323	Chabo	18 ³ / ₁₆	EL-323-A	Chaoz	7 ¹ / ₈	75	30.00

12-VOLT, TYPE EL BATTERIES

Volts	Ampere Hours	Side Assembled Height=10 ³ / ₁₆ " Width=5 ¹¹ / ₁₆ "			End Assembled—2 Rows Height=10 ³ / ₁₆ " Length=14 ¹ / ₄ "			Weights in Pounds	Prices
		Catalog Numbers	Code Words	Lengths Inches	Catalog Numbers	Code Words	Widths Inches		
12	35	EL-607-C	Chapa	13 ³ / ₁₆	EL-607-E	Cheax	5 ³ / ₈	54	\$26.30
12	50	EL-609-C	Charx	16 ¹ / ₁₆	EL-609-E	Cheba	6 ¹ / ₈	65	28.60
12	60	EL-611-C	Chasu	19	EL-611-E	Chesa	7 ³ / ₈	77	33.00
12	80	EL-613-C	Chauv	21 ¹ / ₁₆	EL-613-E	Cheda	8 ¹ / ₈	89	37.40
12	100	EL-615-C	Chayn	24 ³ / ₈	EL-615-E	Chedm	9 ¹ / ₈	101	41.80

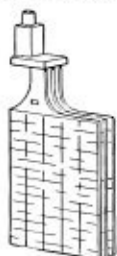
24-VOLT, TYPE EL BATTERIES

Volts	Ampere Hours	End Assembled—3 Rows Height=10 ³ / ₁₆ " Length=19 ¹ / ₄ "			Weights in Pounds	Prices
		Catalog Numbers	Code Words	Widths Inches		
24	35	EL-1207	Caour	7 ³ / ₈	105	\$42.90
24	50	EL-1209	Caowl	8 ³ / ₈	127	60.60
24	60	EL-1211	Caoyz	10 ¹ / ₁₆	149	88.30
24	80	EL-1213	Capai	11 ¹ / ₁₆	171	66.00
24	100	EL-1215	Capey	13	193	73.70

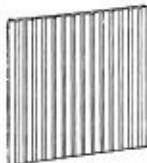
STORAGE BATTERIES

Repair Parts, Tools, Supplies and Equipment

We carry a complete line of parts for USL and all other standard makes of batteries. Our stock also includes all of the necessary equipment for the installation and conduct of a service station, whether of the largest or smallest type. We can furnish anything in shop equipment for the largest city or the smallest hamlet. It is impossible for us to list all the parts carried. If in need of material of this nature send for complete catalog of parts.



Positive Plate
Dark Brown



Separator

Nos. Plates per Cell	*Type A. Positive Groups		*Type C. Positive Groups		Nos. Plates per Cell	*Type F. Positive Groups		*Type G. Positive Groups		*Type EL. Positive Groups	
	Cat. Nos.	Prices	Cat. Nos.	Prices		Cat. Nos.	Prices	Cat. Nos.	Prices	Cat. Nos.	Prices
7	76,765	\$1.00	76,775	\$1.10	7	76,805	\$1.00	76,815	\$1.20	76,210	\$0.95
9	76,766	1.30	76,776	1.45	9	76,806	1.30	76,816	1.55	76,211	1.25
11	76,767	1.55	76,777	1.75	11	76,807	1.55	76,817	1.90	76,212	1.50
13	76,768	1.85	76,778	2.10	13	76,808	1.85	76,818	2.25	76,213	1.80
15	76,769	2.15	76,779	2.45	15	76,809	2.15	76,819	2.55	76,214	2.10
17	76,770	2.45	76,780	2.75	17	76,810	2.45			76,215	2.35
19	76,771	2.80	76,781	3.15	19	76,811	2.80			76,216	2.70
21	76,772	3.10	76,782	3.50	21	76,812	3.10			76,217	3.00
23	76,773	3.40	76,783	3.85	23	76,813	3.40			76,218	3.30



Negative Plate
Gray

Nos. Plates per Cell	*Type A. Negative Groups		*Type C. Negative Groups		Nos. Plates per Cell	*Type F. Negative Groups		*Type G. Negative Groups		*Type EL. Negative Groups	
	Cat. Nos.	Prices	Cat. Nos.	Prices		Cat. Nos.	Prices	Cat. Nos.	Prices	Cat. Nos.	Prices
7	76,785	\$1.30	76,795	\$1.45	7	76,835	\$1.30	76,845	\$1.60	76,212	\$1.25
9	76,786	1.60	76,796	1.80	9	76,836	1.60	76,846	1.95	76,213	1.55
11	76,787	1.90	76,797	2.15	11	76,837	1.90	76,847	2.30	76,214	1.85
13	76,788	2.20	76,798	2.50	13	76,838	2.20	76,848	2.60	76,215	2.15
15	76,789	2.50	76,799	2.80	15	76,839	2.50	76,849	3.00	76,216	2.40
17	76,790	2.80	76,800	3.15	17	76,840	2.80			76,217	2.70
19	76,791	3.10	76,801	3.50	19	76,841	3.10			76,218	3.00
21	76,792	3.40	76,802	3.85	21	76,842	3.40			76,219	3.30
23	76,793	3.70	76,803	4.20	23	76,843	3.70			76,220	3.60



Battery Jars

Cuts	Description of Parts	Cat. Nos.	Prices	Description of Parts	Cat. Nos.	Prices	Cuts
	*End Assembly Neutral Link for Batteries. Types A, C & G.	76,932	\$0.25	Terminal Bolt for Positive and Negative Cable Plug. Type C-407-E.	76,943	\$0.10	
	*End Assembly Neutral Link for Batteries. Type F.	76,933	.25	Terminal Bolt for Neutral Terminal. Types A, C, F, G & EL.	76,201	.10	
	*End Assembly Neutral Link for Batteries. Type EL.	76,225	.20	Square Joint Neutral Terminal for Batteries. Type EL.	76,941	.35	
	Straight Positive Terminal Link for Batteries. Types A, C, F & G.	76,934	.15	Terminal Bolt for Positive and Negative Cable Plug. Types A, C, F, G & EL.	76,942	.10	
	Straight Negative Terminal Link for Batteries. Types A, C, F & G.	76,935	.15	*End Assembly Link for Batteries. Types A, C, & G.	76,930	.20	



Motor-Generator Sets

For Battery Charging
No garage or battery service station is complete without one of these very efficient sets. We carry them in 175, 250, 375, 500 and 750 watt sizes for charging batteries in groups of from 1 to 12 at a time.

We have sold about 2000 of these units and they give perfect satisfaction. They are money makers. See electrical section for full details, prices, etc.

* Type A Compound is applied with a brush and forms a base for the finishing Compound, Type C. Type B Compound, surrounding the jars and extending to top of jars only, is used for sealing jars inside case.

	Cat. Nos.	Prices	
	76,980	\$15.00	
Electrolyte, 1,300 Sp. Gr., per pound	53,615	.03	
Electrolyte, 1,400 Sp. Gr., per pound	77,037	.03	
Antimonious Burning Lead, per pound	53,611	.20	
Pure Burning Lead, per pound	53,612	.12	
* Sealing Compound	Type A, per pound	53,620	.15
	Type B, per pound	76,981	.15
	Type C, per pound	53,621	.15

Don't fail to get our service station proposition. Remember the storage battery business is here to stay. The first to establish in your city with a high-class battery will command the better trade. Do you want it? If so—a USL station means the best to be had.

WRITE FOR COMPLETE CATALOG OF PARTS



HYDROMETERS AND TEST CLIPS

Storage Battery Hydrometer

A Battery Hydrometer is a gauge for determining the state of the charge in a storage battery. By its use the exact strength of batteries is known and the inconvenience by exhausted batteries is overcome.

STRENGTH AND INDICATIONS

If battery fully charged reads 1250 on hydrometer, then the various readings would indicate battery strength of the percentage shown below:

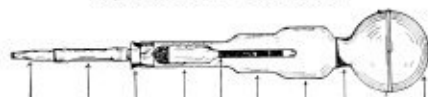
1250 indicates.....	100 per cent.
1225 indicates.....	80 per cent.
1200 indicates.....	60 per cent.
1175 indicates.....	40 per cent.
1150 indicates.....	20 per cent.
1125 exhausted.....	00 per cent.

See that Hydrometer floats freely in solution before taking reading. This is important.



No. 1023 Battery Hydrometer. Beame and specific gravity scale 1100 to 1300 Specific Gravity one degree graduation. Length about 4½ inches over all, shot weighted. In flannel bag with test jar packed in wood box, each.....\$0.50
Each...D.P. \$0.44 Dozen...D.P. \$4.44

Hydrometer Syringes



No. 4 Battery Testometer is an instrument for determining the charge in a storage battery. It consists of a high grade acid hydrometer fitted in a suitable glass cylinder with nozzle and rubber bulb, by which electrolyte can be drawn from the battery to float the hydrometer. The glass cylinder is so shaped that the hydrometer float cannot adhere to the sides no matter how careless the user is while taking the reading. The hydrometer will always float when brought in a vertical position.

Each.....\$0.75
Each...D.P. \$1.11



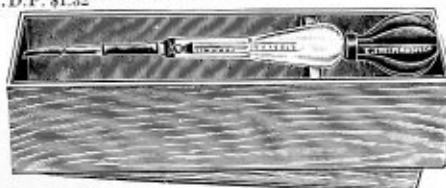
No. 10 "Break-Not" Hydrometer Syringe. This instrument is the very latest, improved type of Battery Syringe Hydrometer for use in testing storage batteries.

The advantages of this instrument and improvements over other styles will be readily apparent by referring to the illustration.

In this Syringe Hydrometer the glass is eliminated to a considerable extent, the lower part of the jar being made of a special acid-proof composition rubber.

The instrument is guaranteed accurate, the scale is very clear and plainly marked.

The outfit is put up in a blue mailing tube which is very strong and an ideal package.
Each.....\$1.00
Each...D.P. \$1.32



No. 20 Battery Testometer is the highest class outfit made for testing storage batteries. Furnished with extra large size bulb of high grade red rubber. The glass tube is so designed that the hydrometer may be taken out to prevent breaking. Each instrument packed in nicely finished wooden box with full instructions for using.
Each.....\$2.00
Each...D.P. \$3.32

Gasoline Hydrometer



No. 2064 Gasoline Hydrometer. Printed Scales, Beame 60 to 80, 1 degree graduation, length about 5 inches over all, shot weighted. In flannel bag with test jar in wood box, each.....\$0.50
Each...D.P. \$0.44 Dozen...D.P. \$4.44

Alcohol Freez-Meter



No. 2 Freez-Meter. An instrument which shows the exact temperature at which denatured alcohol and water will freeze, each.....\$0.75
Each...D.P. \$0.88 Dozen...D.P. \$9.44

Test Clips



Universal Test Clips are time savers for charging automobile storage batteries; lead plated for protection against acid fumes; may be used over and over again—will carry 20 amperes without heating—the jaws have a wide spread—the spring is strong.

To charge batteries in series, provide a number of pieces of lamp cord 15 to 20 inches long and equip with clips on each end. Connect the battery by snapping the clips over the lugs.

When used with the Willard or other batteries having large terminals, remove the taper plug and apply the clip by inserting one jaw in the hole, letting the other jaw rest on the outside of the lug.

On batteries with large hexagon nuts on the terminals, unscrew the nut and apply the clip to the stud.

No. 13-A Test Clips, each.....\$0.20
Dozen...D.P. \$3.32



No. 14-A Test Clips, same as No. 13-A but with rubber insulators which serve not only to protect the user from shock, but also prevent the clips from short-circuiting on each other when applied to terminals which are close together

Each.....\$0.25
Dozen...D.P. \$4.00



CABLES

Packard Ignition Cables



Packard Combination Low Tension Cable; standard for all kinds of low tension service. Color, brown. Diameter, 3/16 in. Per foot.....\$.10
Less than 100 ft. Per foot..D.P. \$.11
Per 100 ft.D.P. 10.55



Packard Combination High Tension Magneto Cable; designed especially for magnetos equipped with small terminals. Diameter, 5/16 in.; but the quality is unexcelled. Color, brown. Per foot.....\$.20
Less than 100 ft. Per foot..D.P. \$.22
Per 100 ft.D.P. 21.10



Packard Combination High Tension Cable; suitable for all forms of high tension service. This is easily the most popular size. Color, brown. Diameter, 1/2 in. Per foot.....\$.20
Less than 100 ft. Per foot..D.P. \$.22
Per 100 ft.D.P. 21.10



Packard Combination Low Tension Cable, 2 strand. Particularly adapted to single and two-cylinder engines. Replaces two single cables. Diameter, 7/16 in. Per foot.....\$.22
Less than 100 ft. Per foot..D.P. \$.24
Per 100 ft.D.P. 23.22



Packard Combination Low Tension Cable, 3 strand. An excellent cable for two-cylinder engines; also for wiring a double set of batteries. Diameter, 1 in. Per foot.....\$.35
Less than 100 ft. Per foot..D.P. \$.38
Per 100 ft.D.P. 36.93



Packard Combination Low Tension Cable, 4 strand. Admirably adapted to wiring 4-cylinder engines from coil to timer. Diameter, 1 in. Per foot.....\$.44
Less than 100 ft. Per foot..D.P. \$.48
Per 100 ft.D.P. 46.44

Packard Electric Lighting Cables



No. 14. One-strand Packard Combination Electric Lighting Cable. Recommended for wiring tail and side lamps. Color, brown. Diameter, 3/16 in. Per foot...\$.10
Less than 100 ft. Per foot..D.P. \$.11
Per 100 ft.D.P. 10.55



No. 14. Two-strand Packard Combination Electric Lighting Cable. Recommended for wiring tail and side lamps. Diameter, 7/16 in. Very popular. Color, brown. Per foot.....\$.22
Less than 100 ft. Per foot..D.P. \$.24
Per 100 ft.D.P. 23.22



No. 12. One-strand Packard Combination Electric Lighting Cable. Recommended for wiring small head lamps. Color, brown. Diameter, 7/32 in. Per foot...\$.11
Less than 100 ft. Per foot..D.P. \$.12
Per 100 ft.D.P. 11.66



No. 12. Two-strand Packard Combination Electric Lighting Cable. Recommended for wiring head lamps where a two-conductor cable is desired. Color, brown. Diameter, 1/2-inch. Per foot.....\$.24
Less than 100 ft. Per foot..D.P. \$.27
Per 100 ft.D.P. 25.33



No. 16. One-strand Packard Combination Electric Lighting Cable. Recommended for wiring from generator to battery and battery to switches. Also for wiring large head lamps. Color, brown. Diameter, 1 in. Per foot.....\$.13
Less than 100 ft. Per foot..D.P. \$.13
Per 100 ft.D.P. 12.66



No. 10. Two-strand Packard Combination Electric Lighting Cable. Recommended for wiring from generator to battery and from battery to controlling switches. Also used to wire head lamps which are of large size. Color, brown. Diameter, 3/4 in. Per foot.....\$.26
Less than 100 ft. Per foot..D.P. \$.29
Per 100 ft.D.P. 27.44



CABLE AND LAMP CORDS

Solar Cable

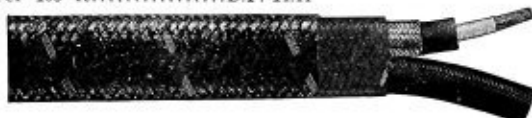
Solar Cable is used by the foremost car manufacturers in America. Garage and repair men have found it the best obtainable for lighting and ignition purposes; it is also ideal for electric starting and lighting systems.

This cable is manufactured in the largest plant in America devoted exclusively to the production of wire and wire products. None but the highest grade materials is used in its construction. The insulating materials are selected for their resistance to weather, moisture and chafing. The wires are of the very best electrolytic copper and have great carrying capacity with minimum resistance.

Every dealer should carry a stock of this cable; the demand is constant, and when overhauling cars or equipping them electrically this Solar Cable will be found the best obtainable for the purpose.



- Solar Low Tension Braided Cover Cable, 3/16 Diameter, per foot \$.10
 Less than 100 ft., per ft. D.P. \$.054
 Per 100 ft. D.P. 4.44
- Solar Magneto Braided Cover Cable, 5/16 Diameter, per ft. .15
 Less than 100 ft., per ft. D.P. \$.154
 Per 100 ft. D.P. 12.22
- Solar High Tension Braided Cover Cable, 7/16 Diameter, per foot \$.20
 Less than 100 ft., per ft. D.P. \$.174
 Per 100 ft. D.P. 14.44



- Solar Low Tension Braided Cover Cable, two-strand, 7/16 Diameter, per foot \$.15
 Less than 100 ft., per ft. D.P. \$.154
 Per 100 ft. D.P. 14.00
- Solar Low Tension Braided Cover Cable, three-strand, 7/16 Diameter, per foot \$.25
 Less than 100 ft., per ft. D.P. \$.20
 Per 100 ft. D.P. 18.00
- Solar Low Tension Braided Cover Cable, four-strand, 1/2 Diameter, per foot \$.35
 Less than 100 ft., per ft. D.P. \$.22
 Per 100 ft. D.P. 20.00



- Solar Rubber Covered Low Tension Cable, 3/16 Diameter, per foot \$.10
 Less than 100 ft., per ft. D.P. \$.054
 Per 100 ft. D.P. 5.00
- Solar Rubber Covered Magneto Cable, 1/2 Diameter, per foot \$.15
 Less than 100 ft., per ft. D.P. \$.11
 Per 100 ft. D.P. 10.00
- Solar Rubber Covered Magneto Cable, 9/32 Diameter, per foot \$.18
 Less than 100 ft., per ft. D.P. \$.154
 Per 100 ft. D.P. 14.00
- Solar Rubber Covered High Tension Cable, 3/4 Diameter, per foot \$.20
 Less than 100 ft., per ft. D.P. \$.20
 Per 100 ft. D.P. 18.00



- Solar Lighting Braided Cover Cable, one-strand, 3/16 Diameter, No. 14, per foot \$.07
 Less than 100 ft., per ft. D.P. \$.054
 Per 100 ft. D.P. 4.44
- Solar Lighting Braided Cover Cable, two-strand, 7/16 Diameter, No. 14, per foot \$.15
 Less than 100 ft., per ft. D.P. \$.13
 Per 100 ft. D.P. 11.00
- Solar Lighting Braided Cover Cable, one-strand, 1/2 Diameter, No. 12, per foot \$.10
 Less than 100 ft., per ft. D.P. \$.094
 Per 100 ft. D.P. 6.00
- Solar Lighting Braided Cover Cable, two-strand, 3/4 Diameter, No. 12, per foot \$.20
 Less than 100 ft., per ft. D.P. \$.164
 Per 100 ft. D.P. 15.00



Solar Lamp Cords

- No. 18. Old Code Flexible Lamp Cord, per foot \$.06
 Less than 100 ft., per ft. D.P. \$.044
 Per 100 ft. D.P. 4.00
- No. 18. New Code Flexible Lamp Cord, per foot \$.07
 Less than 100 ft., per ft. D.P. \$.064
 Per 100 ft. D.P. 5.55
- No. 16. New Code Flexible Lamp Cord, per foot \$.08
 Less than 100 ft., per ft. D.P. \$.08
 Per 100 ft. D.P. 7.22
- No. 18. New Code Flexible Lamp Cord, Braided Silk Cover, per foot \$.10
 Less than 100 ft., per ft. D.P. \$.10
 Per 100 ft. D.P. 8.88



- No. 18. Brewery Cord. Each conductor is made up of a copper wire strand insulated with code thickness rubber, covered with a cotton braid and saturated with weatherproof compound having polished finish; two such conductors are then twisted into pairs, forming a flexible cord. Per foot \$.10
 Less than 100 ft., per ft. D.P. \$.064
 Per 100 ft. D.P. 6.00



- No. 18. Packing House Cord. consists of two conductors stranded, rubber insulated, twisted together with jute filler and finished with two weatherproof braids. Per foot \$.10
 Less than 100 ft., per ft. D.P. \$.11
 Per 100 ft. D.P. 10.00



- No. 18. Canvasite Cord. This consists of regular New Code twisted cotton-covered lamp cord, braided over all with one cotton braid saturated with weatherproof compound then waxed and polished. Per foot \$.10
 Less than 100 ft., per ft. D.P. \$.09
 Per 100 ft. D.P. 8.00

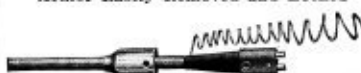


- No. 18. Re-enforced Portable Cord consists of two-conductor new code lamp cord with seamless rubber jacket and finished with a weatherproof glazed cotton or silk braid. Per foot \$.10
 Less than 100 ft., per ft. D.P. \$.11
 Per 100 ft. D.P. 10.00

Brass Armored Lighting Cable



Armor Easily Removed and Locked



Connection Made to Fitting and Armor Ready to Be Replaced

To meet the demand for a serviceable cable for low-tension automobile lighting which is moisture-proof, oil-proof and suitably protected to withstand the hard usage encountered, we have developed an extra flexible multiple conductor cable in the sizes listed. The conductors are suitably insulated, twisted together and finished over all with a strong braid. The cable is then compounded and finished with a half-round brass wire armor for mechanical protection.

- No. 1. Single Conductor Lighting Cable, with brass armor, 3/16 Diameter. Per foot \$.10
 Less than 100 ft., per ft. D.P. \$.11
 Per 100 ft. D.P. 10.00
- No. 2. Double Conductor Lighting Cable, with brass armor, 5/16 Diameter. Per foot \$.20
 Less than 100 ft., per ft. D.P. \$.19
 Per 100 ft. D.P. 16.00



The GIBSON COMPANY INDIANAPOLIS

CABLE, CONDUIT, CLEATS, PLUGS AND CONNECTORS

Solar Starter Cable



- No. 0 Extra Flexible Starter Cable** (19x17x.0179 tinned copper wires), 5/64 Rubber Old Code, finished with a tape and a weatherproof braid. Per foot\$0.50
Diameter 11/16 inch.
Less than 100 feet, per foot. .D.P. \$0.77
Per 100 feet. .D.P. \$66.66
- No. 1 Extra Flexible Starter Cable** (7x37x.0179 tinned copper wires), 5/64 Rubber Old Code, Tape and Braid. Per foot..... .40
Diameter 3/8 inch.
Less than 100 feet, per foot..D.P. \$0.58
Per 100 feet. .D.P. \$53.32
- No. 2 Extra Flexible Starter Cable** (7x30x.0179 tinned copper wires), 1/16 Rubber Old Code, Tape and Braid. Per foot..... .35
Diameter 1/2 inch.
Less than 100 feet, per foot. .D.P. \$0.44
Per 100 feet. .D.P. \$40.00
- No. 4 Extra Flexible Starter Cable**, 1/16 Rubber Old Code, Tape and Braid. Per foot..... .25
Diameter 3/8 inch.
Less than 100 feet, per foot. .D.P. \$0.31
Per 100 feet. .D.P. \$28.88

Flexible Metallic Conduit



This is the best wire protector especially on cars where there is much friction.

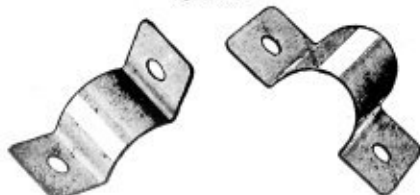
- Flexible Metal Conduit**, 5/16 I. D. Per foot.....\$0.12
Per foot. .D.P. \$0.09
- Flexible Metal Conduit**, 3/8 I. D. Per foot..... .15
Per foot. .D.P. \$0.10
- Flexible Metal Conduit**, 7/16 I. D. Per foot..... .18
Per foot. .D.P. \$0.13
- Flexible Metal Conduit**, 1/2 I. D. Per foot..... .20
Per foot. .D.P. \$0.15 1/2

Blake Fibre Insulated Staples



- No. 1 Blake Staples**, per 100.....\$0.45
Per 100. .D.P. \$0.44
- No. 3 Blake Staples**, per 100..... .45
Per 100. .D.P. \$0.44
- No. 6 Blake Staples**, per 100..... .50
Per 100. .D.P. \$0.55

Cleats



Tubing and Wire Cleats, all sizes, per dozen.....\$0.10
Per 100. .D.P. \$1.32

Plugs and Angle Connection



G 117

G 118

- No. G-117 Single Contact Angle Plugs** as used on Tail Lights 1915 Overland, each.....\$0.35
Each. .D.P. \$0.40 Per Dozen. .D.P. \$4.44
- No. G-118 Double Contact Angle Plugs** as used on Head Lights 1915 Overland, each..... .35
Each. .D.P. \$0.40 Per Dozen. .D.P. \$4.44



No. A8

- No. A-8 Angle Plug and Cap** as used on Ford, each..\$0.45
Each. .D.P. \$0.55 Per Dozen. .D.P. \$6.10



No. 221C

- No. 221-C Plug and Cap Double Contact**, each....\$0.25
Each. .D.P. \$0.33 Per Dozen. .D.P. \$3.54
- No. 221-C Plug and Cap Single Contact**, each.... .25
Each. .D.P. \$0.33 Per Dozen. .D.P. \$3.54
- No. 321-C Plug** has two terminals to take the extension cord, one terminal being grounded to the metal sleeve of the Plug and the other terminal directly connected with the center contact pin. The construction of these Plugs is mechanically perfect, and they will be found very satisfactory where one wishes to use a trouble lamp on a car that is equipped with a single wire system. Each.....\$0.35
Each. .D.P. \$0.44 Per Dozen. .D.P. \$4.76



No. 9

- No. 9 Oil Lamp Adapter with Socket and Cap**, each \$0.80
Each. .D.P. \$1.10 Per Dozen. .D.P. \$12.22



TUBE EXTENSIONS, SOCKETS AND ADAPTERS

Anchor Edi-Swan Plug Extensions



No. 51

This cut shows the flexible brass tube extension used in connection with all standard Edi-Swan and Anchor types of connectors. They are made in three standard sizes. Furnished in brass, white nickel or black nickel.

Prices
List Each

No. 51—10 inches over all, with $\frac{1}{8}$ inch plugs.....	\$0.75
Each..D.P. \$1.10 Dozen..D.P. \$12.22	
No. 51—13 inches over all, with $\frac{1}{8}$ inch plugs.....	.80
Each..D.P. \$1.22 Dozen..D.P. \$13.32	
No. 51—16 inches over all, with $\frac{1}{8}$ inch plugs.....	.85
Each..D.P. \$1.32 Dozen..D.P. \$14.66	



No. 52

This cut shows the duplex flexible cable with Anchor Edi-Swan type Plugs on each end, for extensions with all standard Edi-Swan type Connectors. They are made in three standard sizes. Furnished in white nickel, black nickel or brass.

Prices
List Each

No. 52—10 inches over all, with $\frac{1}{8}$ inch plugs.....	\$0.66
Each..D.P. \$0.78 Dozen..D.P. \$8.88	
No. 52—13 inches over all, with $\frac{1}{8}$ inch plugs.....	.65
Each..D.P. \$0.84 Dozen..D.P. \$9.10	
No. 52—16 inches over all, with $\frac{1}{8}$ inch plugs.....	.70
Each..D.P. \$0.88 Dozen..D.P. \$9.77	

Sockets



No. 20. Anchor Edi-Swan Lamp Socket, Nickel Plated Tube with 10-inch wires, each.....\$0.25
Each..D.P. \$0.26 Dozen..D.P. \$2.88



No. 82. Anchor Edi-Swan Lamp Socket with Nickel Plated Metal Cap and 10 inch wires, each.....\$0.40
Each..D.P. \$0.55 Dozen..D.P. \$6.10

For Gas or Oil Burners



No. 302. Style A for Oil Burner

No. 301 Style "A" Gil-Bo Adapter for Oil Burner with Fiber Candelabra Socket and ten inches weatherproof cord, each.....\$0.30
Each..D.P. \$0.35 Dozen..D.P. \$3.88

No. 302 Style "A" Gil-Bo Adapter for Oil Burner with Edi-Swan Lamp Socket and ten inches weatherproof cord, each......45
Each..D.P. \$0.55 Dozen..D.P. \$6.10



No. 304. Style B for Gas Burner

No. 303 Style "B" Gil-Bo Adapter for Gas Burner with Fiber Candelabra Socket and ten inches weatherproof cord, each.....\$0.30
Each..D.P. \$0.35 Dozen..D.P. \$3.88

No. 304 Style "B" Gil-Bo Adapter for Gas Burner with Edi-Swan Socket and ten inches weatherproof cord, each......45
Each..D.P. \$0.55 Dozen..D.P. \$6.10

Electric Adapters

Candelabra
to Edi-Swan

310

Min.
to
Cand.

312

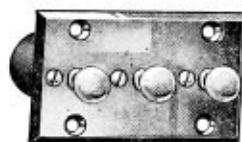
No. 310 Candelabra to Edi-Swan Adapter.....\$0.15
Each..D.P. \$0.22 Dozen..D.P. \$2.22

No. 312 Miniature to Candelabra Adapter......06
Each..D.P. \$0.07 Dozen..D.P. \$0.66



SWITCHES

Connecticut Lighting Switches



Three Gang Type "N" Lighting Switch

Primarily for lighting as pulling out the button closes an individual circuit and pushing it in opens the circuit. Multiple gang switches have a common bus bar for the battery wires.

This is a neat, simple and easily installed switch. All that is necessary is to bore a circular hole, or in case of

a multiple gang switch, holes with $\frac{1}{2}$ -inch centers.

The body of each unit is made of a material that will resist most intense heat, and also may be subjected to rough usage.

Type N Single Gang Lighting Switch. Size $1\frac{1}{2}$ high by 1 inch wide, each.....\$0.50

Each..D.P. \$0.56

Type N Two Gang Lighting Switch. Size $1\frac{1}{2}$ high by $1\frac{1}{2}$ inches wide, each.....\$1.00

Each..D.P. \$1.11

Type N Three Gang Lighting Switch. Size $1\frac{1}{2}$ high by $2\frac{1}{2}$ inches wide, each.....\$1.50

Each..D.P. \$1.66

Type N Four Gang Lighting Switch. Size $1\frac{1}{2}$ high by $3\frac{1}{2}$ inches wide, each.....\$2.00

Each..D.P. \$2.22



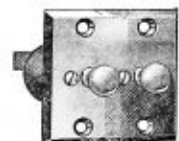
Single Gang Type "N" Switch.

Type "S"

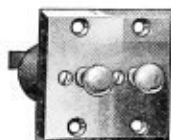
A two gang switch where one button controls head and tail with one movement and another button controls side and tail.

Type "S" Lighting Switch, each.....\$1.25

Each..D.P. \$1.66



Front View of Type "S" Switch



Type ND Lighting Switch

Type ND Lighting Switch

The Universal Switch—as the same switch without any change can be used for series dimming, or to control head and side lights, or large and small bulbs in headlights. In both cases one button puts "on" or "off" the lights of the car, including the tail light.

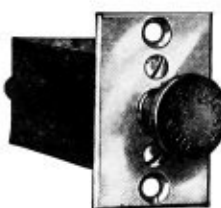
In series dimming the other button throws the lights from multiple to series wiring, thereby dimming. When wired to select between two sets of lamps, the position of the second button will determine whether the head lamps or side lamps are lighted; or with two bulb headlights, whether the large or small bulbs are lighted. Wiring diagram for either form of wiring packed with each switch.

Type ND Lighting Switch, each.....\$1.25
Each..D.P. \$1.66

Connecticut Dimming Switches

Type "D"

This is a series dimming switch and is made square instead of round as on the other lighting switches. Its dimensions are $\frac{3}{4}$ inch square by $1\frac{1}{4}$ inches deep. The mounting plate is the same size as the other switches so that they may be mounted side by side.



Type "D" Dimming Switch

This switch has no "Off" position, but must be used in conjunction with another switch controlling the circuit. When the button is in, the lights are in multiple and bright, while when the button is out, they are in series and dim.

Type D Dimming Switch, each.....\$0.75
Each..D.P. \$1.32

Connecticut Switches

Type "L"

This is a lock type switch with removable lever. Lever made of spring bronze, insuring positive contact. Back edge protected with soft rubber gasket to prevent penetration of water.



Type "L" Lever Switch

Type L Connecticut Lever Switch, each.....\$0.75
Each..D.P. \$1.32

Type "P"

Absolutely waterproof. Protected by soft rubber gasket fitted to the back of switch. Center plug used for holder of plug when switch is not in use.



Type "P" Plug Switch

Type P Connecticut Plug Switch, each.....\$0.75
Each..D.P. \$1.32

MB Kick Switch

Type MB Connecticut Flush Dash Kick Switch is a four-position switch arranged for controlling two sets of ignition where a battery is used as one system and closed circuit magneto as the other. First position is off, second position throws the battery into circuit, third position throws the battery and magneto in together and the fourth position throws the magneto into circuit only.



MB Kick Switch

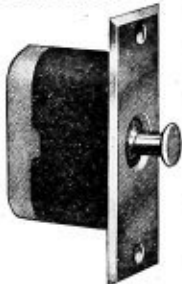
Type MB Connecticut Kick Switch, each.....\$1.50
Each..D.P. \$2.48



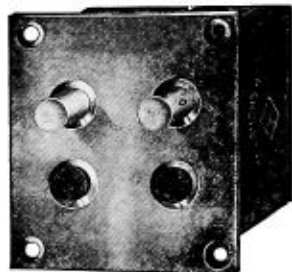
SWITCHES

Cutler-Hammer Push and Pull Switch

The Push and Pull Switch, while designed primarily for automobile service, may be used on low voltages wherever a small, compact switch is desired. In spite of its small size it has a larger current-carrying capacity than any other switch of its class, being rated at 10 amperes at 80 volts. It operates with an absolutely quick "make and break."



- No. 7160 Single Switch, complete with plate, each.....\$0.68
Each..D.P. \$0.75
- No. 7172 Gang of 2 switches, complete with plate, each.....1.36
Each..D.P. \$1.50
- No. 7173 Gang of 3 switches, complete with plate, each.....2.04
Each..D.P. \$2.26
- No. 7174 Gang of 4 switches, complete with plate, each.....2.72
Each..D.P. \$3.02



Showing No. 32—2 Series

- No. 33. 3 Series Flush Push Button Switch, each. 2.25
Each..D.P. \$2.64
- No. 34. 4 Series Flush Push Button Switch, each. 3.00
Each..D.P. \$3.52

Acme Switch

This is a high grade, rubber base switch, for any purpose where a switch is to be used for controlling electric circuits such as for automobile, motor boat, stationary engine, electric lighting and for innumerable other purposes. It has a strong base, phosphor bronze lever; heavy contacts and rubber button. A classy article. Nickel-plated.

- No. 1. Acme Switch, each.....\$0.25
Each..D.P. \$0.33 Dozen..D.P. \$3.33
- Levers for Acme Switches, each.. .15
Each..D.P. \$0.15 Dozen..D.P. \$1.44.



Kingston 1916 Switch

The Kingston 1916 Switch is made of rubber composition, of goodly proportion. It will withstand the severe service of a kick switch if so desired. The contacts are of the knife kind—the most positive known to the electric trade today. It is constructed for battery and either high or low tension magneto service; in fact, may be used by any two-current sources desired. The key is of the lock type, and nothing except the key can be used to operate it.

- 1916 Kingston Switch, each...\$1.25
Each..D.P. \$2.00



Splitdorf Switch

The Splitdorf is a well-known reliable switch. By pulling the plug out when leaving the machine you stop all chances of having the current turned on and probably your car stolen.

Can be used with two sets of batteries or one set and dynamo.

- No. 905 Splitdorf Switch, each.....\$1.00
Each..D.P. \$1.66



Enclosed Type of Splitdorf Switch



This new model Splitdorf Switch is constructed on the principle of the standard model, except all working parts are enclosed, making the switch absolutely waterproof. It can not short-circuit.

- No. 598. Splitdorf Switch, each.....\$1.50
Each..D.P. \$2.48

Splitdorf Kick-Off Switch

This Switch is of the double pole cut-out type and has the advantage of having all the metal parts enclosed, so that there is no possibility of a short circuit from the outside. Can be used with two sets of batteries or one set of batteries and magneto. It is fitted with a long lever which can be operated by the foot. It also includes push button feature, which enables the operator of the car to start his motor without cranking, providing of course the motor is properly balanced and holds compression.

- No. 1928 Splitdorf Kick-Off Switch, each.....\$4.00
Each..D.P. \$6.66



Heinze Kick-Off Switch

- Price, each.....\$2.00
Each..D.P. \$3.33



No. E26-3



SWITCHES

Tip-Top Push Buttons



Flush Type Mounting



Fore-Door Mounting

Three outstanding features characterize the Benjamin Tip-Top Button: (1) Instead of having a small door bell push button which is always hard to locate, its top has a diameter of 1 1/4 inches; (2) this top as a whole is the moving element, so designed that a touch on any portion causes the circuit to be closed; (3) it is practically self-cleaning, and cannot get out of order.

Tip-Top Push Button, Fore-Door type, each.....\$0.60
Each..D.P. \$0.88 Dozen..D.P. \$9.60

Tip-Top Push Button, Flush type, each......60
Each..D.P. \$0.88 Dozen..D.P. \$9.60

Steering Wheel Type



Steering Wheel Mounting

Used on the steering wheel, the Tip-Top Button should be placed with its edge about 1/4 of an inch from the rim on the right hand side, so that its top is within easy reach of the thumb. When the edge of the button is touched, the contact is closed within the case, and the circuit completed to the horn. As is often necessary, e. g., in turning corners, the button must be operated when the wheel is not in a straight-ahead position. In this case all the operator has to do is to drop either hand on the button.

Tip-Top Push Button, Steering Wheel type, each...\$0.60
Each..D.P. \$0.88 Dozen..D.P. \$9.60

Benjamin Presto Button



The Presto is similar in appearance to the Tip-Top Button, but is the single contact point construction. Reliable, waterproof and instantly responsive.

No. 8189-F Presto Buttons with fore door mounting, each.....\$0.25
Each..D.P. \$0.42 Per dozen..D.P. \$4.44

No. 8189-J Presto Buttons with steering spoke mounting, each.....\$0.35
Each..D.P. \$0.60 Per dozen..D.P. \$6.66

Push Buttons



No. 1179. Steering Spider Push Button, with shallow bracket for use on steering wheel spider, price, each\$0.40
Each..D.P. \$0.44 Dozen..D.P. \$5.00

No. 1178. Steering Post Push Button, with range from 1 1/4 to 2 inches clamping diameter; diameter of face 2 1/4 inches; height over all 2 1/4 inches, price, each40
Each..D.P. \$0.44 Dozen..D.P. \$5.00



No. 973

Oblong Push Button

No. 973. Oblong Push Button Switch, each \$0.50
Each..D.P. \$0.77

Floor Switches



No. 400

No. 400. Floor Horn Push Switch, each.....\$0.50
Each..D.P. \$0.66



No. 417

Dash Plug Switch

No. 417. Dash Plug Switch, each\$0.40
Each..D.P. \$0.44

No. 7 Samson Horn Cable Protector



Consisting of 36-inch Flexible Brass Tubing, 2 Spring Tension Holders, 1 Floor Bushing; neat and simple.

To install, wrap cable around spoke of wheel twice—fish through flexible tube—attach one holder at top and other near bottom around post and tube. Drill an inch hole in floor for bushing. If post is small take up some of spring in holders and cut off.

Price, outfit\$1.50
Each..D.P. \$1.88



METERS, AMMETERS AND COMPRESSOMETERS

"Eveready" Meters



No. 1002. "Eveready"
Ammeter for reading
current in amperes;
registers 0 to 35, each \$1.00
Each... D.P. \$1.44
Dozen... D.P. 16.00

No. 1003. "Eveready"
Volt Ammeter for
reading current in
both volts and am-
peres; registers 0 to 35
amperes; 0 to 14 volts,
each\$1.30
Each... D.P. \$1.76
Dozen... D.P. 20.00



No. 1005. "Eveready"
Volt Meters for read-
ing current in volts;
registers 0 to 10 volts,
each\$1.10
Each... D.P. \$1.55
Dozen... D.P. 17.32

Connecticut Meters

Supplied to register voltage and amperage, or combination of both. Very thorough workmanship and accurate. Made on the Dead Beat Principle with jeweled bearing, fitted with etched silver dial with scale in raised black. Temperature or dampness will not interfere with accuracy.



Volt Ammeter

Volt Ammeters
No. 802. 0-30 amp. 0-8 volts\$3.00
Each... D.P. \$5.00

No. 0802. 0-30 amp. 0-15 volts 4.00
Each... D.P. \$6.66

Ammeters
No. 803. 0-30 amp. 2.75

Volt Meters
No. 804. 0-3 volts in 1-10 div 2.75

No. 805. 0-8 volts 2.75
Each... D.P. \$4.00

No. 806. 0-15 volts 3.50
Each... D.P. \$5.82

Leather Cases, extra 50
Each... D.P. \$0.84

Monarch Indestructible Ammeter FOR DRY CELLS

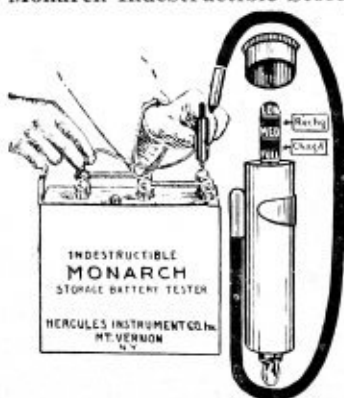


One dead cell in a series will quickly destroy the energy of all. By using a Monarch Ammeter you can locate the "dead one", saving expense and trouble.

Any one using dry cells, whether for bells, telephones, automobiles, or any other purpose, will find this Ammeter to be a handy asset. Tests up to 30 amperes.

Price, each\$1.00
Each... D.P. \$1.44

Monarch Indestructible Storage Battery Tester



This Tester accurately shows whether the battery is charged, partly charged or in need of recharging.

By having one handy all the time you can find out when the charge is running low, instead of waiting until it is so low that you can not start your motor.

Made in two sizes, for 6 and 12 volt storage batteries.

Price, each\$1.50
Each... D.P. \$2.22

Compressometer

This instrument is absolutely necessary in testing cylinders for leaky valves, etc. By its use one can readily determine the exact compression in pounds in each cylinder and make comparisons.



Compressometer, Nickered-Plated, 2½ inches over all, three bushings furnished with each one, ¼-inch, ½ and metric, each\$4.00
Each... D.P. \$6.66



EVEREADY AUTOMOBILE TYPE METERS

A great many automobile starting and lighting systems are not provided with instruments, and the car operator is unable to determine whether the storage battery is properly charging and discharging. EVEREADY Automobile Type Instruments are especially recommended for this service, as they are highly accurate, not affected by vibration, and are reasonable in price. Standard finish models 63, 64 and 67—Nickel—Dead Black Enamel, Brass, Copper or Gun Metal to order, no extra charge; Models 69 and 70—Dead Black Enamel, Nickel, Brass, Copper or Gun Metal to order, no extra charge.

Ammeters

Diameter, 3 inches; Scale, 1 11/16 inches; Max. Scale Div. 30

Amp. Range	Price Each
1-0-1	\$6.00
Each.. D.P.	\$10.00
5-0-5	6.50
Each.. D.P.	\$10.84
10-0-10	7.00
Each.. D.P.	\$11.66
15-0-15	7.50
Each.. D.P.	\$12.50
15-0-25	8.00
Each.. D.P.	\$13.32
50-0-30	8.50
Each.. D.P.	\$14.18
50-0-50	9.00
Each.. D.P.	\$15.00



Model 63

Size 4x4 inches, Maximum Scale Division 50

Amp. Range	Price Each
1-0-1	\$7.50
Each.. D.P.	\$12.50
5-0-5	8.00
Each.. D.P.	\$13.32
10-0-10	8.50
Each.. D.P.	\$14.18
15-0-15	8.50
Each.. D.P.	\$14.18
15-0-25	9.50
Each.. D.P.	\$15.82
30-0-30	9.75
Each.. D.P.	\$16.24
50-0-50	10.00
Each.. D.P.	\$16.66



Model 69

Duplex Volt Ammeter

Size 6x7 inches, Maximum Scale Division 30



Model 67

Amp. Rng.	Volt Rng.	Price
5-0-5	0-3	\$14.50
Each.. D.P.		\$24.18
10-0-10	0-10	15.50
Each.. D.P.		\$25.82
10-0-10	0-15	16.00
Each.. D.P.		\$26.66
15-0-15	0-15	16.50
Each.. D.P.		\$27.50

20-0-20	0-15	16.75
Each.. D.P.		\$27.90
30-0-30	0-15	17.00
Each.. D.P.		\$28.32
50-0-50	0-50	17.50
Each.. D.P.		\$29.16

Voltmeters

Diameter, 3 inches; Scale, 1 11/16 inches; Max. Scale Div. 30

Volt Range	Price Each
0-3	\$6.50
Each.. D.P.	\$10.84
0-10	7.00
Each.. D.P.	\$11.66
0-15	7.50
Each.. D.P.	\$12.48
0-30	8.00
Each.. D.P.	\$13.32
0-50	8.50
Each.. D.P.	\$14.18



Model 64

Size 4 inches, Maximum Scale Division 50

Volt Range	Price Each
0-3	\$8.50
Each.. D.P.	\$14.18
0-10	9.00
Each.. D.P.	\$15.00
0-15	9.50
Each.. D.P.	\$15.82
0-30	10.00
Each.. D.P.	\$16.66
0-50	10.25
Each.. D.P.	\$17.08



Model 70

Eveready Charging Board

Designed for charging twenty to one hundred ampere hour storage batteries from a direct current source of supply. Not suitable for alternating current. Shipped complete ready to install with following equipment:



No. 1024

Two binding posts at top of board for direct current service connection.
Two binding posts at bottom for storage battery connection.

Six receptacles for either 16 or 32 candle power lamps.

Two 10-ampere fuse plugs.

One 25-ampere switch.

One Model 50 Eveready Ammeter.

One Model 51 Eveready Voltmeter.

Board is 18 inches by 12 inches wide by one inch thick; is of slate, highly polished and is well finished throughout.

No. 1024 Charging Board, complete less lamps,
each \$30.00
Each.. D.P. \$50.00



The GIBSON COMPANY INDIANAPOLIS

AUTOMOBILE TYPE INSTRUMENTS, CIGAR LIGHTERS AND FUSE WIRE

1015 Indicating Ammeter

An Indicating Ammeter is a practical necessity for determining the condition under which a storage battery is operating. It indicates whether the battery is being charged or is discharging and the rate of current flow. The EVEREADY 1015 Indicating Ammeter is especially designed for this service.

It has accurate mechanism, not affected by vibration, one piece moisture and dust-proof case, heavy beveled plate glass front, insulated sub-base. Connections are made by means of two terminal studs which also serve to hold meter in plate. Standard finishes are nickel case with white metal dial and black lettering or black case with black metal dial and white lettering. Weight of motor, 4½ ounces; diameter, 2.5 inches; length of scale, 1.2 inches; length of terminal studs, 1.4 inches.



1015 Surface Type



1015 Flush Type

No. 1015 Indicator, either Surface or Flush Type (In ordering state which you want):

Ampere Range 10-0-10, each\$1.50
Each...D.P. \$2.44

Ampere Range 15-0-15, each 1.50
Each...D.P. \$2.44

Ampere Range, 30-0-30, each 1.50
Each...D.P. \$2.44

1017 Voltmeter

This is a companion to the 1015 Ammeter, same size, finishes and appearance. Meets the demand for a low priced accurate Voltmeter for installation on automobile lighting systems where it is desired to read both voltage and amperage.

Ranges 15-0-15, list price\$2.00
Each...D.P. \$3.32

Ranges 20-0-20, list price 2.00
Each...D.P. \$3.32

Ranges 30-0-30, list price 2.00
Each...D.P. \$3.32

In ordering state range desired, also finish, and whether surface or flush type.

1020 Indicator



No. 1020

To meet the demand for an indicator to show whether a storage battery is being charged or discharged, not taking into consideration the amount of current, the Model 1020 indicator has been designed. It is especially adapted for motor car work. In shape, size and finishes, it is like the Model 1015, but in place of a scale indicating amperes, the dial is divided into two parts, the one half showing discharging, and the other, charging. It is designed with the object of making a full indication from 1 to 2 amperes and capable of standing a permanent overload of approximately 1000 per cent.

No. 1020, list price\$1.50
Each...D.P. \$2.44

In ordering state whether nickel or black finish, also surface or flush type.

Eveready Cigar Lighters

No need to worry about "the lost match" if you have an Eveready Cigar Lighter in your pocket. The flame is produced by the sharp, corrugated surface of the little wheel rasping against a piece of that wonderful new metal—Pyrophoror. This contact throws a stream of sparks against the wick, which instantly lights and burns with a steady flame until extinguished by closing the cap. There is no need to look for a place to strike it—one hand holds and lights it. A slight movement of the thumb and you have a strong, steady flame.



1843



1823

The illustrations show the exact size of the articles. No. 1823 is a very flat, thin model, and slips into the vest or change pocket unobtrusively. No. 1843 is a clever adaptation of the standard military rifle cartridge. Both are beautifully finished and nickel plated.

No. 1823\$0.25

No. 184325
Each...D.P. \$0.40

Fuse Wire



Safe Carrying Capacity Amperes	Best Lengths for Use and Fusing Currents for Such Lengths		Length Per Lb. Ft. In.	Mils. Diam.	One Package Contains	Price Per Lb.
	Inches	Amp.				
5.....	1¾	10	167	39	1 1-lb. spool	\$1.00
Per Lb. .D.P. \$2.22						
12.....	2¼	20	68	61	1 1-lb. spool	.80
Per Lb. .D.P. \$1.76						
20.....	2½	30	37 10	82	1 1-lb. spool	.76
Per Lb. .D.P. \$1.66						
30.....	2¾	43	24	103	1 1-lb. spool	.76
Per Lb. .D.P. \$1.66						



HOSE CLAMPS

Wire Hose Clamps



A simple and inexpensive device. Makes an absolutely tight joint and may be instantly applied. No tool required.

No. 3 Wire Hose Clamp for hose 3 to 1 1/2 outside.....	\$0.10
Dozen...D.P. \$1.11 6-Dozen Lots, Doz...D.P. \$1.00	
No. 4 Wire Hose Clamp for hose 1 to 1 1/2 outside.....	.10
Dozen...D.P. \$1.22 6-Dozen Lots, Doz...D.P. \$1.11	
No. 5 Wire Hose Clamp for hose 1 1/2 to 2 1/2 outside.....	.10
Dozen...D.P. \$1.32 6-Dozen Lots, Doz...D.P. \$1.22	
No. 6 Wire Hose Clamp for hose 1 1/2 to 2 1/2 outside.....	.15
Dozen...D.P. \$1.55 6-Dozen Lots, Doz...D.P. \$1.44	
No. 7 Wire Hose Clamp for hose 2 1/2 to 3 1/2 outside.....	.15
Dozen...D.P. \$1.76 6-Dozen Lots, Doz...D.P. \$1.66	

Thompson Hose Clamps



No.	Inside Diameter	Price, Each	No.	Inside Diameter	Price, Each
102.....	7/8	\$.05	113.....	1 3/4	\$0.10
Dozen.....	D.P. \$0.55		Dozen.....	D.P. \$1.00	
6-Doz. Lots, Doz...D.P.	.48		6-Doz. Lots, Doz...D.P.	.88	
103.....	1 5/16	.05	114.....	1 13/16	.10
Dozen.....	D.P. \$0.55		Dozen.....	D.P. \$1.00	
6-Doz. Lots, Doz...D.P.	.48		6-Doz. Lots, Doz...D.P.	.88	
104.....	1	.05	115.....	1 7/8	.15
Dozen.....	D.P. \$0.55		Dozen.....	D.P. \$1.11	
6-Doz. Lots, Doz...D.P.	.48		6-Doz. Lots, Doz...D.P.	1.00	
105.....	1 1/8	.05	116.....	2	.15
Dozen.....	D.P. \$0.55		Dozen.....	D.P. \$1.11	
6-Doz. Lots, Doz...D.P.	.48		6-Doz. Lots, Doz...D.P.	1.00	
106.....	1 3/16	.05	117.....	2 1/8	.15
Dozen.....	D.P. \$0.55		Dozen.....	D.P. \$1.11	
6-Doz. Lots, Doz...D.P.	.48		6-Doz. Lots, Doz...D.P.	1.00	
107.....	1 1/4	.05	118.....	2 3/8	.15
Dozen.....	D.P. \$0.55		Dozen.....	D.P. \$1.32	
6-Doz. Lots, Doz...D.P.	.48		6-Doz. Lots, Doz...D.P.	1.22	
108.....	1 5/16	.10	119.....	2 1/2	.15
Dozen.....	D.P. \$0.88		Dozen.....	D.P. \$1.55	
6-Doz. Lots, Doz...D.P.	.80		6-Doz. Lots, Doz...D.P.	1.40	
109.....	1 3/8	.10	120.....	2 5/8	.15
Dozen.....	D.P. \$0.88		Dozen.....	D.P. \$1.55	
6-Doz. Lots, Doz...D.P.	.80		6-Doz. Lots, Doz...D.P.	1.40	
110.....	1 7/16	.10	121.....	2 3/4	.15
Dozen.....	D.P. \$0.88		Dozen.....	D.P. \$1.66	
6-Doz. Lots, Doz...D.P.	.80		6-Doz. Lots, Doz...D.P.	1.50	
111.....	1 1/2	.10	122.....	2 7/8	.15
Dozen.....	D.P. \$0.88		Dozen.....	D.P. \$1.66	
6-Doz. Lots, Doz...D.P.	.80		6-Doz. Lots, Doz...D.P.	1.50	
112.....	1 5/8	.10	124.....	3	.15
Dozen.....	D.P. \$1.00		Dozen.....	D.P. \$1.88	
6-Doz. Lots, Doz...D.P.	.88		6-Doz. Lots, Doz...D.P.	1.77	

Assorted Thompson Clamps

No. 700 Assortment consists of 100 clamps, 18 different sizes, variety sufficient to cover all needs, per box ..	\$10.00
Per Box...D.P.	\$8.88
No. 600 Assortment, Ford sizes only, 100 in box, per box	8.00
Per Box...D.P.	\$6.66

Sure Grip Hose Clamps



No. 8. 1 1/2 inside, each	\$0.05
Dozen...D.P.	\$0.80
6-Dozen Lots, Dozen	.73
No. 9. 1 1/4 inside, each	.05
Dozen...D.P.	\$0.88
6-Dozen Lots, Dozen	.90
No. 10. 1 1/2 inside, each	.10
Dozen...D.P.	\$1.00
6-Dozen Lots, Dozen	.90
No. 11. 1 1/2 inside, each	.10
Dozen...D.P.	\$1.32
6-Dozen Lots, Dozen	1.20
No. 12. 2 inside, each	.15
Dozen...D.P.	\$1.00
6-Dozen Lots, Dozen	1.44
No. 13. 2 1/2 inside, each	.15
Dozen...D.P.	\$1.88
6-Dozen Lots, Dozen	1.66
No. 14. 2 1/2 inside, each	.15
Dozen...D.P.	\$2.22
6-Dozen Lots, Dozen	2.00
No. 15. 3 inside, each	.20
Dozen...D.P.	\$2.66
6-Dozen Lots, Dozen	2.44
No. 4. 2 inside, each	\$0.05
Dozen...D.P.	\$0.55
6-Dozen Lots, Dozen	.50
No. 5. 2 1/2 inside, each	.05
Dozen...D.P.	\$0.55
6-Dozen Lots, Dozen	.50
No. 6. 3 inside, each	.05
Dozen...D.P.	\$0.73
6-Dozen Lots, Dozen	.66
No. 7. 1 inside, each	.05
Dozen...D.P.	\$0.80
6-Dozen Lots, Dozen	.73

Falcon Radiator Hose



This line of Radiator Hose has been found to be the highest grade in material of this kind. It is tested thoroughly as to materials and workmanship. It is built with a view to meeting the demands made on this part of the automobile. Will stand extreme heat without deterioration, and unlike most radiator hose, will not dry out and crack.

Falcon Radiator Hose is packed for the convenience of the dealer. It comes in three (3) foot lengths, six lengths to the carton. This prevents waste, and at the same time keeps the hose in a convenient form.

2-inch Radiator Hose, 3 ply, outside diameter 1 1/16, per foot	\$.035
Per foot...D.P.	\$0.26
6-Piece Lots, per foot...D.P.	\$0.24
1-inch Radiator Hose, 3 ply, outside diameter 1 1/8, per foot	.35
Per foot...D.P.	\$0.33
6-Piece Lots, per foot...D.P.	\$0.30
1 1/4-inch Radiator Hose, 3 ply, outside diameter 1 3/8, per foot	.38
Per foot...D.P.	\$0.42
6-Piece Lots, per foot...D.P.	\$0.38
1 1/2-inch Radiator Hose, 3 ply, outside diameter 1 1/2, per foot	.40
Per foot...D.P.	\$0.44
6-Piece Lots, per foot...D.P.	\$0.40
1 3/4-inch Radiator Hose, 3 ply, outside diameter 1 3/4, per foot	.50
Per foot...D.P.	\$0.53
6-Piece Lots, per foot...D.P.	\$0.48
2-inch Radiator Hose, 3 ply, outside diameter 2, per foot	.60
Per foot...D.P.	\$0.60
6-Piece Lots, per foot...D.P.	\$0.55
2 1/8-inch Radiator Hose, 3 ply, outside diameter 2 1/8, per foot	.65
Per foot...D.P.	\$0.66
6-Piece Lots, per foot...D.P.	\$0.60
2 1/4-inch Radiator Hose, 3 ply, outside diameter 2 1/4, per foot	.80
Per foot...D.P.	\$0.80
6-Piece Lots, per foot...D.P.	\$0.72
2 1/2-inch Radiator Hose, 3 ply, outside diameter 2 1/2, per foot	.90
Per foot...D.P.	\$0.84
6-Piece Lots, per foot...D.P.	\$0.80
2 3/4-inch Radiator Hose, 3 ply, outside diameter 2 3/4, per foot	.95
Per foot...D.P.	\$0.88
6-Piece Lots, per foot...D.P.	\$0.84
3-inch Radiator Hose, 3 ply, outside diameter 3, per foot	1.00
Per foot...D.P.	\$0.93
6-Piece Lots, per foot...D.P.	\$0.88



The GIBSON COMPANY INDIANAPOLIS

HOSE, GASOLINE SYSTEM AND TIMERS

Water Hose



Water Hose $\frac{1}{2}$ inch supplied in any length desired.
Per foot \$0.30
Per foot. .D.P. \$0.26

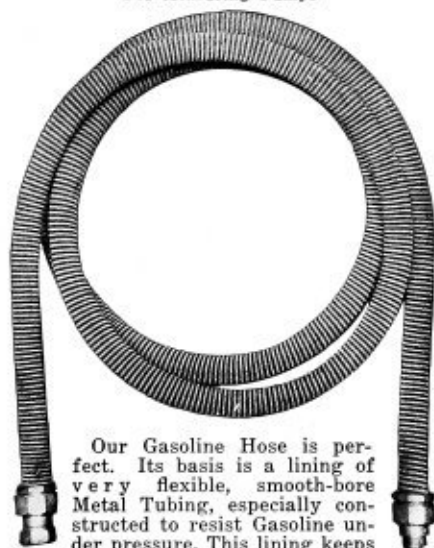
Flexible Steel Lined Gasoline Hose



Gasoline Hose that will stand gasoline. Few articles produced by the rubber manufacturer's art give more concern and trouble than a suitable material for conveying gasoline. We offer this with the assertion that it is the best of its kind. It is constructed with a flexible steel lining, covered by high grade rubber. Supplied in ten foot lengths complete with couplings.
Each \$5.00
Each. .D.P. \$7.76

Metal Gasoline Hose

For Measuring Pumps



Our Gasoline Hose is perfect. Its basis is a lining of very flexible, smooth-bore Metal Tubing, especially constructed to resist Gasoline under pressure. This lining keeps

the Gasoline from coming in contact with the Rubber Tube that is vulcanized over it, and a heavy, woven cotton cover over the Rubber protects it on the outside.

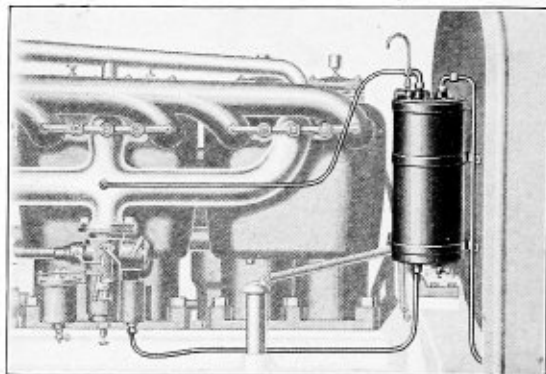
Metal Gasoline Hose, complete with couplings, 8-foot lengths, each \$12.00
Each. .D.P. \$17.60

Metal Gasoline Hose, complete with couplings, 10-foot lengths, each 15.00
Each. .D.P. \$22.22

Metal Gasoline Hose, complete with couplings, 12-foot lengths, each 17.00
Each. .D.P. \$25.55

Nozzle is not included in price but can be supplied when wanted at \$7.00 extra.
Each. .D.P. \$10.00

Stewart Vacuum Gasoline System



WHAT IT IS, AND DOES—

It is a small tank, installed under the hood on the dash or motor, and connected to the intake manifold, carburetor and gasoline supply reservoir.

The suction of the motor through the manifold draws the gasoline from the rear reservoir to the small tank under the hood, from which the gasoline falls in a positive, even flow to carburetor.

No preliminary hand-pumping air into gasoline tank before starting car. No depending upon a motor-driven air pump to keep up the pressure after you start.

No air-gauge to watch; no air lines to keep tight; no air-tight connections necessary anywhere.

Saves 10% to 15% Gasoline. No Forcing Gasoline Through the Carburetor Wastefully

In a test sanctioned by the A. A. A., a Cole car, equipped with a Stewart Vacuum Gasoline System showed better than 15 per cent increased mileage per gallon than when using pressure feed.

Another Cole car, equipped with its original forced feed gasoline system, was sent over a measured route and consumed 131 pints. The car was immediately equipped with a Stewart Vacuum Gasoline System and sent over the same route and consumed but 111 pints, an increased mileage per gallon of over 15 per cent.

The Oakland "37" covered 287 miles on one gallon of gasoline when equipped with Stewart Vacuum Gasoline System.

In the phenomenal run of the Mitchell Reliability car, which made 7,518 miles in thirty days, the Stewart Vacuum Tank was under the sealed bonnet and required absolutely no attention. To equip this Stewart Vacuum System on a car that was to undergo the most hazardous test any automobile was ever put to, shows the faith that the Mitchell people had in it—a faith that was justified by its wonderful performance.

The Stewart Vacuum Gasoline System eliminates every single drawback and short-coming of both the pressure and gravity methods of supplying gasoline. Supplies gasoline to carburetor unfaillingly, under all conditions, even on the steepest grades, because of its being located so close to, and above, carburetor.

The Stewart Vacuum Gasoline System can be installed on your present car—whether old or new—at any Service Station, or by any garage man.

Price, each \$10.00
Each. .D.P. \$14.82

Milwaukee Timers



Milwaukee Timers are of the self-adjustable roller type. Are made dust-proof and are all-over lath finished with the greatest possible care. The success with which these timers have met enables the manufacturers to offer them as

the best electrical ignition for jump spark system on the market. Over 50,000 of these timers are in daily use.

Milwaukee Timers, single-cylinder, each \$3.60
Each. .D.P. \$6.00
Milwaukee Timers, 2-cylinder, each 3.80
Each. .D.P. \$6.33
Milwaukee Timers, 3-cylinder, each 4.00
Each. .D.P. \$6.60
Milwaukee Timers, 4-cylinder, each 4.20
Each. .D.P. \$7.00
Milwaukee Timers, 2-cylinder Buick, each 4.80
Each. .D.P. \$8.00



PRIMERS AND RADIATOR THERMOMETERS

Lunkenheimer Gasoline Engine Primer



Fig. 216

The purpose of the Lunkenheimer Gasoline Engine Primer is to quickly, conveniently and simultaneously prime all cylinders of a gasoline engine, with but one device located within easy access.

Gasoline is not exposed to atmosphere. Drivers need not leave the seat to prime the engine. Engine is effectively and positively primed with practically no trouble or loss of time. Consists of but few parts, durable and exceptionally neat in appearance. Priming of engine requires less work of starting device, thereby conserving the energy of the battery and causing less wear. Lunkenheimer Primer enables convenient priming before each start.

Each \$6.00
Each...D.P. \$10.00

Imperial Prime-Ur

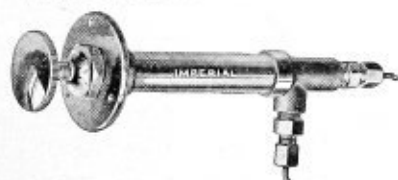


As necessary as the magneto itself. Is bolted to the dash and adds to its appearance. This Primer consists of a pump connected with 1/2-inch pipe to the gasoline supply line and another small 1/2-inch pipe leads to the manifold. All that is necessary to prime the motor is to open the small valve at the base of the Primer, draw the plunger upward, close the valve, push the plunger downward, and "there you go." It forces a spray of gasoline into the manifold and your motor starts on the first turn. It's essential to the hand cranked and a necessity

on electric-started cars. Comes complete with pipe and fittings. Can be installed in a very short time and makes the car complete.

No. 51-D Imperial Prime-Ur, each \$5.00
Each...D.P. \$4.44
Dozen...D.P. 46.66

Imperial Cowl-Dash Prime-Ur



Outfit includes pump tubing and fittings.

No. 53-D Imperial Cowl-Dash Prime-Ur, each \$5.00
Each...D.P. \$4.44
Dozen...D.P. 46.66

Boyce Motometer

(Patents Pending)

A gasoline motor is a heat motor, yet heretofore no means has been provided for indicating this heat.

To operate a heat engine without a heat gauge is like operating a steam engine without a steam gauge.

Nothing serious can possibly go wrong with a gasoline motor without first giving symptoms of excessive heat.

Costly repairs can be absolutely avoided by knowing the temperature of your radiator.

The Motometer is a specially constructed thermometer that tells you the inside temperature of your radiator while you drive—night or day.

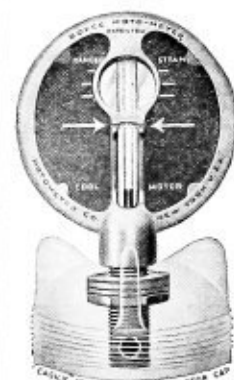
With a Motometer mounted on your radiator cap you are forewarned instantly of impending trouble. It is not necessary to listen for knocks or feel for loss of power; one glance at the ever visible Motometer tells you just what is going to happen under the hood.

Motometer Standard Model. Finished in beautiful black enamel with brass or nickel trimming; glass crystals on both sides, each \$10.00
Each...D.P. \$16.66



Motometer Junior Model

Thousands of wise motorists today use a Boyce Motometer on their radiator cap. It is insurance against motor damage—a real check on the heat condition of the motor and a positive and accurate warning against ever operating it under unsafe conditions with consequent costly repairs.



Motometer Junior Model, finished in black and nickel, each \$5.00
Each...D.P. \$8.33

Midget Motometer

Motometer Midget model, same type as Junior, but smaller size for Ford and other small cars, each \$2.50

Each...D.P. \$4.18

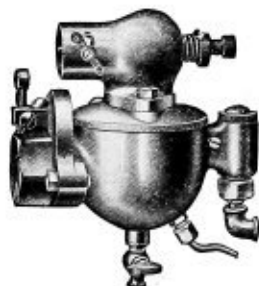




The GIBSON COMPANY INDIANAPOLIS

CARBURETORS

Schebler Carburetors



Model D

The Model D is the original Schebler Carburetor, simple of adjustment and is especially adapted for marine motors, single or double opposed motors, stationary engines, and all motors where extreme low throttling conditions are not required. This carburetor is made standard with the shutter air valve in the 1-in. and 1½-in. sizes. The ¼-in., 1½-in. and 2-in. sizes are standard with the flusher in the lid. If required other than standard, special instructions should be given on the order.

The air intake and throttle are interchangeable, and connections can be made to either vertical or horizontal manifolds.

Model D Schebler Carburetor, ½-in.	\$ 9.75
Each..D.P. \$14.44	
Model D Schebler Carburetor, ¾-in.	11.25
Each..D.P. \$16.66	
Model D Schebler Carburetor, 1-in.	12.00
Each..D.P. \$17.77	
Model D Schebler Carburetor, 1½-in.	12.75
Each..D.P. \$18.88	
Model D Schebler Carburetor, 1½-in.	16.50
Each..D.P. \$24.44	
Model D Schebler Carburetor, 2-in.	33.00
Each..D.P. \$48.88	

The Model H Carburetor is manufactured only in the ½-in. and 1-in. sizes, and is designed for motorcycles and small high speed motors, where great flexibility and perfect control are required. The supply of gasoline is controlled by the cam, which gives an adjustment on low, intermediate and high speeds. An air bend is so attached to the constant air opening of this carburetor that it can be turned to any convenient angle in order to draw warm air off the cylinders. This air bend will be furnished plain, without shutter, unless specified to the contrary. Also locking device on air valve is furnished to insure easy starting.

In ordering this carburetor or parts, specify make of motorcycle for which they are required, as the different motorcycles require different cams, levers and bends.



Model H

Model H Schebler Carburetor, ¾-in.	\$11.25
Each..D.P. \$16.66	
Model H Schebler Carburetor, 1-in.	12.00
Each..D.P. \$17.77	

SPECIAL OUTFIT

Model H 2-inch Special with Manifold, complete for Indian, Twins or Singles, each.	\$12.00
Each..D.P. \$17.77	
Model H 2-inch Special with Manifold, complete for Thorndian, Twins or Singles, each.	12.00
Each..D.P. \$17.77	

Schebler Carburetors

The Model L Carburetor is designed for the exacting needs of high speed motors where low throttling, rapid acceleration, maximum power and speed are required. It is the most improved type of lift needle carburetor and is so designed that the amount of fuel entering the motor is automatically controlled by means of a raised needle working automatically with the throttle. The adjustment or control of gasoline in this instrument can be adjusted for low, intermediate or high speed, each adjustment being independent and not affecting either of the other adjustments.

The Model L is furnished with a bend for connecting or taking warm air from around the exhaust manifold into the initial air opening of the carburetor by means of the hot air drum and tubing.

Model L Schebler Carburetor, 1-inch.	\$13.50
Each..D.P. \$20.00	
Model L Schebler Carburetor, 1½-inch.	15.00
Each..D.P. \$22.22	
Model L Schebler Carburetor, 1½-inch.	18.75
Each..D.P. \$27.77	
Model L Schebler Carburetor, 1½-inch.	22.50
Each..D.P. \$33.33	
Model L Schebler Carburetor, 2-inch.	37.50
Each..D.P. \$55.55	
Model L Schebler Carburetor, 2½-inch.	60.00
Each..D.P. \$88.88	

SPECIAL OUTFIT

Model L 1-inch, with Manifold, complete for Hupp, each.	\$21.00
Each..D.P. \$35.55	

Model L Carburetor is also manufactured with a dash controlled air valve, this being operated by a lever which is controlled by a switch on the dashboard or steering post of the car. A dashboard adjuster or steering column control will be furnished with these carburetors when desired, and as these are separate articles they should be specified on the order. On account of changes required in the body casting for the carburetor with the dash control it is not possible to place the dash control air valve on the Model L carburetor originally built with the plain air valve.

Model L Schebler Carburetor Dash Control, 1-inch.	\$13.50
Each—D.P. \$20.00	
Model L Schebler Carburetor Dash Control, 1½-inch.	15.00
Each..D.P. \$22.22	
Model L Schebler Carburetor Dash Control, 1½-inch.	18.75
Each..D.P. \$27.77	
Model L Schebler Carburetor Dash Control, 1½-inch.	22.50
Each..D.P. \$33.33	
Model L Schebler Carburetor Dash Control, 2-inch.	37.50
Each..D.P. \$55.55	

Dash or steering column control not included in prices named above, but is supplied at an additional cost, as shown on next page.



Model L



Model L Dash Control



CARBURETORS AND CARBURETOR PARTS

Schebler Carburetors



Model R

The Model R Schebler Carburetor is designed for use on both four and six-cylinder motors.

It is designed with an adjustment for low speed; as the speed of the motor increases, the air valve opens, raising the gasoline needle, thus automatically increasing the amount of fuel. The Model R Carburetor has but two adjustments—the low speed needle adjustment, which is made by turning the air valve cap, and an adjustment on the air valve spring for changing its tension.

It has an eccentric which acts on the needle valve, intended to be operated either from the steering column or from the dash, and insures

easy starting, as by raising the needle from the seat an extremely rich mixture is furnished for starting, and for heating up the motor in cold weather. A choker in the air bend is also furnished.

The Dash Board Control or Steering Column Control must be used with instrument; it cannot be operated satisfactorily without them.

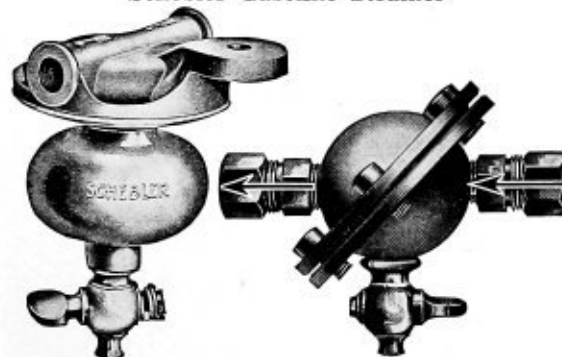
Model R Schebler Carburetor, 1-inch.....	\$18.75
Each...D.P.	\$27.77
Model R Schebler Carburetor, 1 1/2-inch.....	20.25
Each...D.P.	\$30.00
Model R Schebler Carburetor, 1 1/2-inch.....	21.75
Each...D.P.	\$32.22
Model R Schebler Carburetor, 1 1/2-inch.....	26.25
Each...D.P.	\$38.88

Dash or steering column control not included in prices named above, but is supplied at an additional cost, as shown in next column.

SPECIAL OUTFIT

Model R 1-inch, with Manifold and Controls, for Flanders, (3 speed), each.....	\$21.00
Each...D.P.	\$37.77

Schebler Gasoline Strainer



Type "A" Strainer

Type "B" Strainer

CARBURETOR TROUBLE is largely due to particles of dirt which get into the gasoline and into the tank during its manufacture, scales and filings from the tank and piping, and to a certain percentage of water which is in all gasoline.

Type "A" Strainer is fitted with a bracket for attaching to a support and should be connected so that the gasoline flows through the strainer in the direction shown by the arrows cast on the strainer. The strainer is furnished standard with the bracket to the left. On special orders the bracket can be placed on the right side. The strainer is furnished complete with either 1/4-inch or 5/16-inch outside diameter copper tube connections, and in ordering specify which size is wanted. Without the copper tube connections it will receive 1/2-inch standard iron pipe.

Type "B" Strainer is attached in the gasoline line without the use of a bracket, and is furnished with either 1/4-inch or 5/16-inch outside diameter copper tube connections, and in ordering specify which size is wanted.

Type A Gasoline Strainer, each.....	\$2.75
Each...D.P.	\$4.06
Type B Gasoline Strainer, each.....	1.25
Each...D.P.	\$1.84

Dash Board and Steering Column Controls, Dash Board Adjuster and Bell Crank



Dash Control

Dash Board Control, Steering Column Plunger Type Control

The Dash Board Control for the air control of the carburetor should be attached in some convenient place on the dashboard of the car, and is operated by the foot. The Dash Board Control is furnished standard with three feet of tubing and wire. The Steering Column Control should be installed upon the steering post. As the Steering Column Control is made with different sized bands for attaching, the circumference of the steering post should be given. The Steering Column Control is furnished standard with five feet of tubing and wire. If additional length of tubing is required, same should be so specified on the order. Additional tubing will be furnished at the rate of 25 cents per foot, or fraction thereof.

The above articles are considered to be separate and distinct from the carburetor, and if required should be ordered with the carburetor.

Dash Board Control—Standard with 3 feet tubing and wire.....	\$2.00
Each...D.P.	\$3.00
Steering Column Control—Standard with 5 feet tubing and wire.....	2.00
Each...D.P.	\$3.00
Plunger Type Dash Board Control—Standard with 3 feet tubing and wire.....	2.00
Each...D.P.	\$3.00
Extra Tubing for Dash Board Control or Steering Column Control, per foot or fraction thereof.....	.25
Per foot...D.P.	\$.33

Hot Air Drum and Tubing



The Carburetion of the heavy grade of gasoline which is now so prevalent requires a certain amount of heat. By connecting the hot air intake as to draw the warm air off the manifold, better results will be obtained. For this purpose a hot air drum has been designed which will adjust itself to almost any style exhaust manifold. Flexible tubing with one-inch inside diameter will fit the air intake and connect with the drum. In ordering this connection give exact length of tubing required.

Model L Hot Air Drum, each.....	\$0.75
Each...D.P.	\$1.11

Price does not include tubing.

Hot Air Flexible Tubing

Interlocking construction consists of a continuous length of Copper or Galvanized Steel Tape, rolled in a spiral, so that the edges interlock, forming the four-wall construction shown; as the tape is rolled a groove is formed, containing an especially prepared asbestos packing, which remains fully protected from internal or external wear.

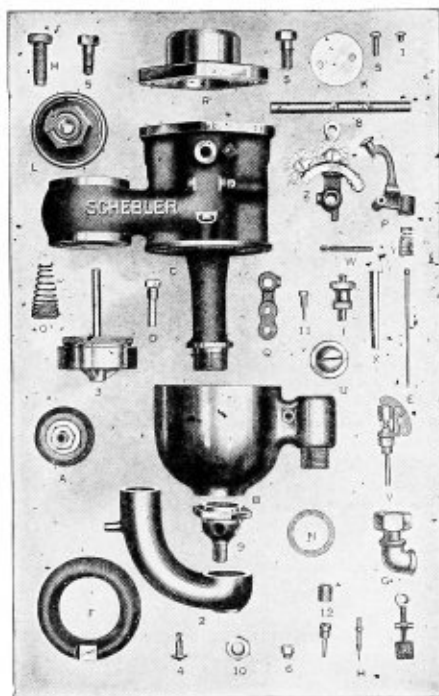
1-inch Flexible Metal Tubing, per foot.....	\$0.60
Per foot...D.P.	\$0.48



The GIBSON COMPANY INDIANAPOLIS

CARBURETOR PARTS

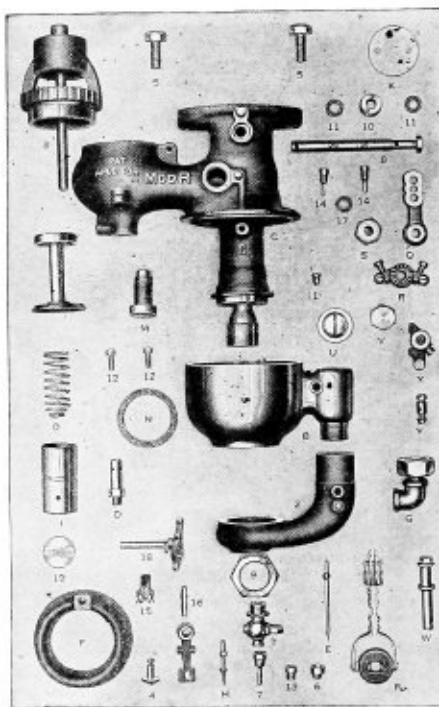
Schebler



Price List of Parts—Model L

Symbol	NAME	1" 14"	1 1/2"
	Body Complete	\$15.00	\$17.50
	Bowl Complete	6.50	7.50
A	Leather Air Valve Disc .....	.50	.50
B	Bowl Casting	5.00	6.00
C	Body Casting	8.00	10.00
D	Spray Nozzle .....	.20	.20
E	Needle Valve .....	.20	.20
F	Cork Float .....	.50	.50
G	Gasoline Union .....	.30	.30
H	Float Valve .....	.20	.20
I	Needle Valve Adj. Knurl .....	.20	.20
J	Float Lever .....	.20	.20
K	Throttle Disc .....	.10	.10
L	Air Valve Cap	1.50	1.50
M	Air Valve Adjusting Screw .....	.20	.20
N	Cork Gasket for Bowl .....	.10	.10
O	Air Valve Spring .....	.10	.10
P	Needle Valve Lift Lever .....	.40	.40
Q	Throttle Lever .....	.40	.40
R	Flange	1.00	2.00
S	Throttle Stop Screw .....	.10	.10
U	Bowl Cap .....	.30	.30
V	Flusher .....	.50	.50
W	Needle Valve Lift Lever Pin .....	.10	.10
X	Needle Valve Guide .....	.30	.30
Y	Needle Valve Lift Lever Spring .....	.10	.10
Z	Cam Complete	1.00	1.00
1	Throttle Stop Lock Screw .....	.10	.10
2	Air Bend	2.00	2.00
3	Air Valve Seat	2.00	2.00
4	Float Washer and Screw .....	.20	.20
5	Flange Cap Screw .....	.10	.10
6	Float Valve Retainer Nut .....	.10	.10
7	Float Lever Screw .....	.10	.10
8	Throttle Shaft .....	.30	.30
9	Bowl Lock Nut Casting for Air Bend .....	.50	.50
10	Air Bend Lock Nut .....	.10	.10
11	Throttle Lever Lock Screw .....	.10	.10
12	Water Jacket Plug .....	.10	.10

Schebler



Price List of Parts—Model R

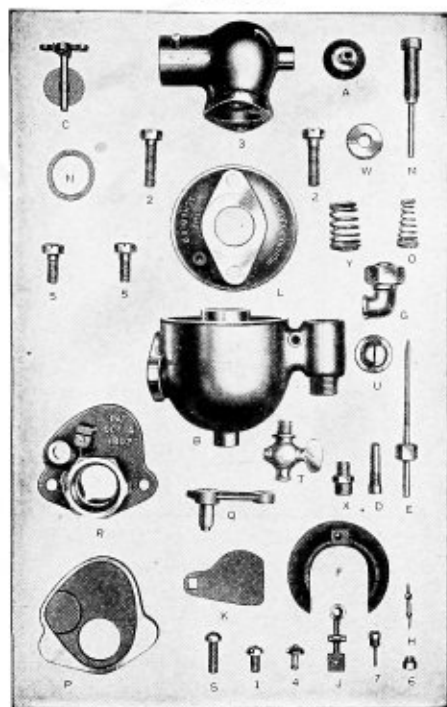
Symbol	NAME	1" 14"	1 1/2"
D	Spray Nozzle .....	.20	.20
E	Needle Valve .....	.20	.20
F	Cork Float .....	.50	.50
G	Gasoline Union .....	.30	.30
H	Float Valve .....	.20	.20
I	Venturi Tube .....	.60	.60
J	Float Lever .....	.20	.20
K	Throttle Disc .....	.10	.10
M	Air Valve Adjusting Screw .....	.30	.30
N	Bowl Gasket .....	.10	.10
O	Air Valve Spring .....	.10	.10
P	Needle Valve Lift Lever	1.00	1.00
Q	Throttle Lever .....	.40	.40
R	Throttle Shaft Adjusting Stop .....	.40	.40
S	Dash Control Shaft Bearing .....	.20	.20
T	Drain Cock .....	.40	.40
U	Bowl Cap .....	.30	.30
V	Dash Control Blank Plug .....	.20	.20
W	Dash Control Shaft .....	.30	.30
X	Dash Control Lever .....	.40	.40
Y	Binding Post; Binding Post Screw, Binding Post Washer, Binding Post Nut .....	.20	.20
1	Venturi Tube Lock Screw .....	.10	.10
2	Air Bend	2.00	2.00
3	Dash Pot Air Valve Seat	2.00	2.50
4	Float Washer and Screw .....	.20	.20
5	Flange Cap Screws .....	.10	.10
6	Float Valve Retainer Nut .....	.10	.10
7	Float Lever Screw .....	.10	.10
8	Throttle Shaft .....	.30	.30
9	Bowl Lock Nut .....	.20	.20
10	Throttle Shaft Collar .....	.10	.10
11	Throttle Shaft Gasket .....	.10	.10
12	Dash Control Tube Lock Screw .....	.10	.10
13	Float Lever Screw Bearing .....	.10	.10
14	Throttle Lever Lock Screw .....	.10	.10
15	Air Valve Friction Lever .....	.20	.20
16	Air Valve Friction Lever Pin .....	.10	.10
17	Dash Control Shaft Gasket .....	.10	.10
18	Air Bend Lever Shaft and Spring .....	.50	.50
19	Air Bend Disc .....	.10	.10

NOTE.—When ordering parts, always state size and model carburetor for which they are wanted.

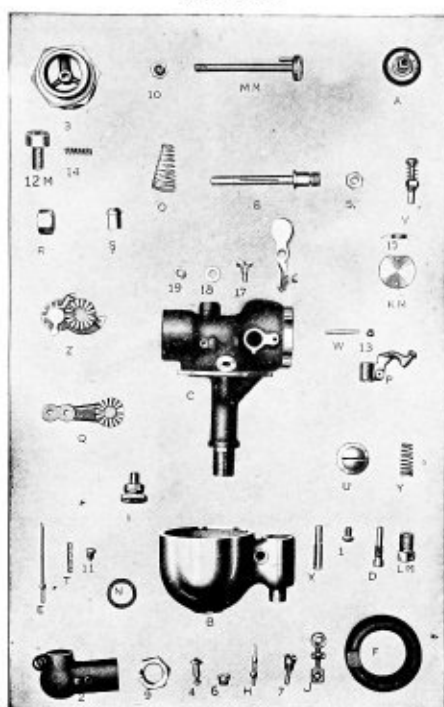
Special Discount Applies to Prices on This Page



CARBURETOR PARTS

Schebler

Price List of Parts— Model D

Symbol	NAME	1 1/2" 2 1/4"	
		1 1/2"	2 1/4"
	Air Valve Complete	\$4.00	\$5.00
	Bowl Complete	9.00	12.00
	Throttle Complete	4.00	6.00
A	Leather Air Valve Disc.....	.20	.20
B	Bowl Casting	6.00	9.00
C	Butterfly Shutter Complete .....	.50	.50
D	Spray Nozzle .....	.20	.20
E	Needle Valve .....	.20	.20
F	Cork Float .....	.50	.50
G	Gasoline Union .....	.30	.30
H	Float Valve .....	.20	.20
J	Float Lever .....	.20	.20
K	Throttle Disc .....	.10	.10
L	Lid	2.00	3.00
M	Air Valve Adjusting Screw .....	.20	.20
N	Cork Gasket for Lid .....	.10	.10
O	Air Valve Spring .....	.10	.10
P	Throttle Back	1.50	2.00
Q	Throttle Lever .....	.40	.40
R	Throttle Front with Pipe Thread	2.00	3.50
S	Throttle Stop Screw .....	.10	.10
T	Drain Cock .....	.40	.40
U	Bowl Cap .....	.30	.30
V	Flusher .....	.50	.50
W	Lock Nut for Adjusting Screw .....	.10	.10
X	Needle Valve Connection .....	.20	.20
Y	Lock Spring for Adjusting Screw .....	.10	.10
1	Throttle Stop Lock Screw .....	.10	.10
2	Air Valve Cap Screw .....	.10	.10
3	Air Valve Casting	3.00	4.00
4	Float Washer Screw .....	.20	.20
5	Throttle Cap Screw .....	.10	.10
6	Float Valve Retainer Nut .....	.10	.10
7	Float Lever Screw .....	.10	.10

Schebler

Price List of Parts—Model H

Symbol	NAME	1 1/2" 2 1/4"	
		1 1/2"	2 1/4"
	Body Complete	\$10.00	\$10.00
	Bowl Complete	6.00	6.00
A	Leather Air Valve Disc.....	.20	.20
B	Bowl Casting	5.00	5.00
C	Body Casting	6.00	6.00
D	Spray Nozzle .....	.20	.20
E	Needle Valve .....	.20	.20
F	Cork Float .....	.50	.50
G	Gasoline Union Parts R and S .....	.20	.20
H	Float Valve .....	.20	.20
I	Needle Valve Adjusting Knurl .....	.20	.20
J	Float Lever .....	.10	.10
K	Throttle Disc .....	.10	.10
L	Low Speed Adjusting Screw .....	.10	.10
M	Air Valve Adjusting Screw .....	.20	.20
N	Cork Gasket for Bowl .....	.10	.10
O	Air Valve Spring .....	.10	.10
P	Needle Valve Lift Lever .....	.40	.40
Q	Throttle Lever .....	.40	.40
R	Gasoline Union Nut .....	.10	.10
S	Gasoline Union Nipple .....	.10	.10
T	Needle Valve Spring .....	.10	.10
U	Bowl Cap .....	.30	.30
V	Flusher .....	.50	.50
W	Needle Valve Lift Lever Pin .....	.10	.10
X	Needle Valve Guide .....	.30	.30
Y	Needle Valve Lift Lever Spring .....	.10	.10
Z	Cam Complete	1.00	1.00
1	Low Speed Lock Screw .....	.10	.10
2	Air Bend, Regular Style .....	.50	.50
3	Air Valve Casting	2.00	2.00
4	Float Washer and Screw .....	.20	.20
5	Throttle Lever Lock Nut .....	.10	.10
6	Float Valve Retainer Nut .....	.10	.10
7	Float Lever Screw .....	.10	.10
8	Throttle Shaft .....	.20	.20
9	Bowl Lock Nut .....	.20	.20
10	Air Valve Spring Retainer Nut .....	.10	.10
11	Needle Valve Lock Screw .....	.10	.10
12	Air Valve Adjusting Knurl .....	.20	.20
13	Lift Lever Pin Lock Screw .....	.10	.10
14	Friction Spring .....	.10	.10

NOTE:—When ordering parts, always state size and model carburetor for which they are wanted.

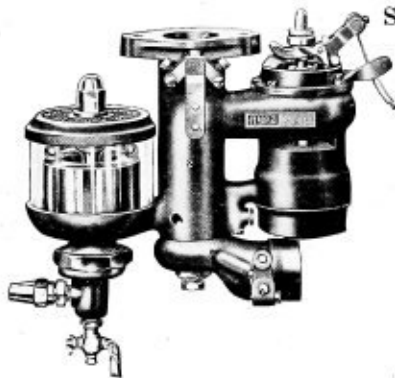
Special Discount Applies to Prices on This Page



The GIBSON COMPANY INDIANAPOLIS

CARBURETORS

Stromberg Carburetors



Type "H"

	EACH
No. 1—1-inch, each.....	\$29.00
Each...D.P. \$33.33	
No. 2—1½-inch, each.....	22.50
Each...D.P. \$37.50	
No. 3—1½-inch, each.....	25.00
Each...D.P. \$41.66	



Type "HB"—
Horizontal Type

	EACH
No. 1—1-inch, each.....	\$20.00
Each...D.P. \$33.33	
No. 2—1½-inch, each.....	22.50
Each...D.P. \$37.50	
No. 3—1½-inch, each.....	25.00
Each...D.P. \$41.66	

The two types of carburetors shown on this page are identical in design with the exception that the "HB" has a horizontal outlet. These types of new Stromberg Carburetors developed to take care of high-grade motors with the low-grade fuel which is in use at the present time and are especially adapted to obtain economy for the user without any sacrifice of power or acceleration.

They have only two adjustments, high and low speed, both working directly on the gasoline supply. The combination of which gives the best and most efficient mixture for all speeds. The air horn equipment, into which a warm air supply from around the exhaust manifold can be introduced, assures heat enough for complete vaporization from the heaviest fuels (see next page).

The gasoline for low speed is taken from a spray nozzle located in the venturi tube, through which the hot air passes. This type has a second nozzle in the center of the air valve which is automatically regulated by the center of the air valve, thus supplying the necessary volume of gasoline for high speed and heavy duty work.

The dash pot, with the piston riding in gasoline, obviates all fluttering of the air valve stem.

This type is made with a dash or steering post control, which regulates both the spring tension and needle opening. This insures good operation regardless of weather or different grades of gasoline.

These carburetors are further fitted with what is known as a strangle valve in the primary air opening, for starting in cold weather. Even though the carburetor and engine are at zero temperature, the high vacuum produced in the carburetor by closing all air inlets readily vaporizes the gasoline and starting is assured.

The glass float chamber, non-leakable metal floats and indestructible needle valve are exclusive features on the Stromberg Carburetor. Only the best of material and workmanship are used in Stromberg Carburetors and each part is subjected to a most rigid inspection. After the carburetors are completely assembled and thoroughly inspected, they are sent out to the laboratory and made to operate a motor perfectly.

This careful process applies to every carburetor manufactured by the Stromberg Motor Devices Company.

As the types of cars change considerably from year to year, it will be necessary for us to know just what model and year your car is before we can recommend which new Stromberg Carburetor will be most economically proficient.

DASH CONTROLS

These controls enable you to change your gasoline mixture and air supply without even leaving the seat. Even though the carburetor and engine are at zero temperature, the high vacuum produced by closing all air inlets makes the engine start without trouble.

Single Dash Control

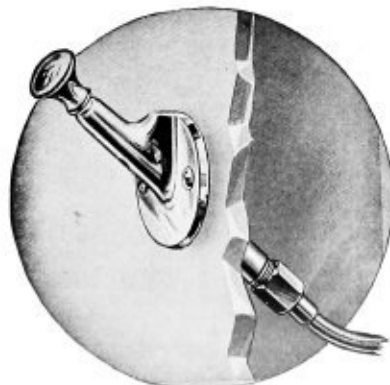
Operates the butterfly valve in the air horn of the carburetor and is especially helpful in producing easy starting and warming up of motor.

Price—Complete with 42 inch tubing and wire, nickel plate, each.....\$1.50
Each...D.P. \$2.48

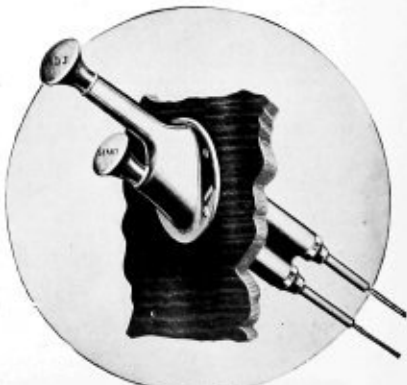
Double Dash Control

Operates the strangle valve as well as the butterfly valve, making the governing of the carburetor perfect.

Price—Complete with 84 inch tubing and wire, nickel plate, each.....\$2.00
Each...D.P. \$3.33



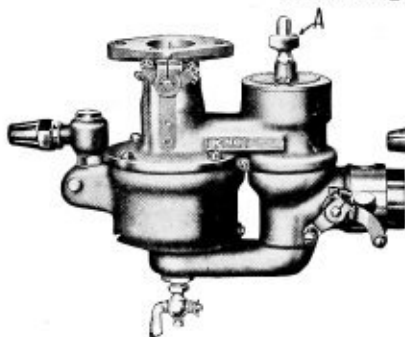
Single Dash Control



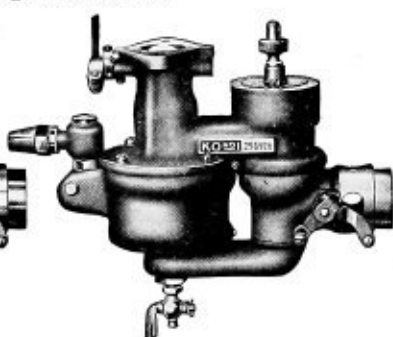
Double Dash Control

CARBURETORS

Stromberg Carburetors



Type "K"



Type "KO"

PRICE

K No. 1—1-inch.....\$15.50
Each..D.P. \$25.82

ECONOMY

The foundation of the general design of this carburetor is economy without sacrifice of power or acceleration. Official tests have proven it to be the best on the market.

POWER

The complete vaporization of the gasoline and the automatic production of the correct mixture for every throttle position gives maximum power at every speed.

LOW THROTTLE

The special low speed adjustment and the complete breaking up of the gasoline at low velocity permits the continuous supply of just right throttle mixture without loading the motor.

QUICK, SNAPPY PICK-UP

The elimination of all flutter, by means of the new balanced air valve and the new high and perfectly proportioned venturi tube to carry the mixture well up to the manifold without precipitation, assures maximum flexibility.

NON-FLOODING

The new simplified float mechanism introduced in this carburetor, with the Stromberg metal float and needle valve of special metal, eliminates all possibility of flooding.

Steering Post Control



This steering post control operates the butterfly valve in the air horn of the carburetor and is especially helpful in producing easy starting and warming up of the motor.

It is made of high-grade material, superior workmanship and finished in heavy nickel plate.

Price Complete—Clamp and 60-inch Tubing and Wire, nickel plate, each.....\$1.50
Each..D.P. \$2.48

Special Overland Outfit

PRICE

KO—One Carburetor.....\$15.50
Steering Post Control..... 1.50
Air Heating Housing..... 1.00
Necessary Metallic Tubing..... .80

Complete equipment.....\$18.80

Complete..D.P. \$31.22
This model "KO" is exactly the same in construction as the "K," with the exception of the flange being turned at right angles to the carburetor body, which facilitates the installing of an Overland car.

These carburetors are designed so they can be adjusted to give exactly the correct mixture of gasoline and air at every speed, and with the gasoline broken up under the high suction and equipped with a special air heater this new Stromberg operates with absolute economy.

Stromberg Air Heater



The Stromberg Manifold Housing equipment introduces the warm air from around the exhaust manifold into the carburetor. This heated air passes by the gasoline nozzle through the venturi tube, causing a complete vaporization of the gasoline, thus creating a more homogeneous and combustible mixture, particularly in cold weather. The results are increased economy and smoother running.

Housing, 12-inch diameter, each...\$1.00
Each..D.P. \$1.66

Housing, 2-inch diameter, each.... 1.00
Each..D.P. \$1.66

Housing, 2 1/2-inch diameter, each... 1.25
Each..D.P. 2.08

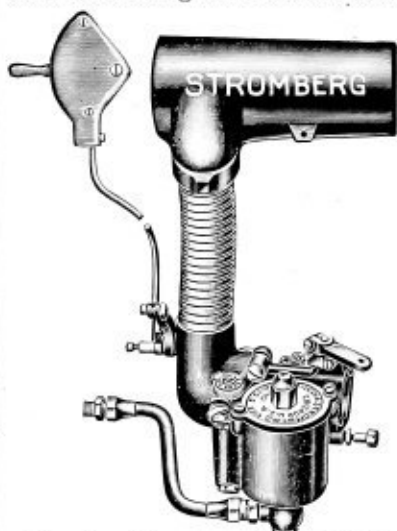
Order housing to fit outside diameter of exhaust pipe at point where you wish to connect. These housings can be made in any length.

Flexible Metal Tubing, 1 1/2-inch diameter, per foot.....\$.70
Per foot..D.P. \$.55

Flexible Metal Tubing, 1 1/4-inch diameter, per foot..... .80
Per foot..D.P. \$.66

Flexible Metal Tubing, 1 1/2-inch diameter, per foot..... .90
Per foot..D.P. \$.73

New Stromberg Ford Carburetor



The New Stromberg Ford Carburetor is supplied just as is shown in the illustration—complete, ready for installation. One screw puts on the hot air housing; no change is necessary in the gasoline line and the carburetor itself goes right onto the old manifold. The adjustments are extremely simple and any one can make them—high speed and idling. The carburetor is of the plain tube type and is equipped with what is known as an economizer. It has been proven that a car can be driven with perfect smoothness of operation at a speed of seven to thirty-five miles an hour on less gasoline than it takes to run below and above this mileage. For this reason and on this principle the economizer was developed. It controls the needle valve which regulates the gasoline flow so that at all times the mixture is cut down to the minimum.

In bringing out this carburetor, one of the primary requirements was that it be made to start easier than any other one on the market. In order to obtain easy starting, it is necessary to be able to shut off all air inlets to the carburetor. By doing so the high vacuum which is in the manifold is transferred to the carburetor and this vacuum draws the gasoline off of the nozzle holes, breaking it up in a very fine spray and carrying it direct to the cylinders. Without this high vacuum in the carburetor, the gasoline enters the manifold in heavy drops but cannot reach the cylinders. This is what causes a flooded carburetor and makes starting practically impossible.

In order to further facilitate starting when the weather is extremely cold, this new Stromberg Ford carburetor is equipped with a priming plunger, operated by a wire running to the front of the radiator.

The entire carburetor and equipment including housing, tubing and steering post control, made with the usual Stromberg care and high efficiency.

Each.....\$18.00
Each..D.P. \$30.00



CARBURETORS

Rayfield Carburetors



MODEL G
WATER JACKETED

THE RAYFIELD Carburetor is guaranteed to increase the efficiency of any make of car under all conditions, and at the same time save from 10 to 50 per cent. in fuel, regardless of the grade of gasoline.

CONSTRUCTION AND OPERATION

The general construction of the Rayfield Carburetor continues in accordance with the original design. A few refining improvements have been made, but the characteristic principle of operation embodied in all Rayfield Carburetors remains the same.

The Model G is a water-jacketed carburetor with only two adjustments, which are simple and easy of access; one for low speed and one for high, both controlling the supply of gasoline.

Fuel is supplied through two nozzles. One supplies all the gasoline required when the motor is idling. The additional gasoline for higher speeds is furnished by a nozzle controlled by a tapered metering pin located under the automatic air valve. As the air valve is drawn open, admitting air, it operates the metering pin, gradually opening the nozzle, and supplying additional gasoline in correct proportion to the air.

The Rayfield has a patented dash pot construction which injects gasoline only when the motor is accelerated. This makes it possible to use an extremely economical running mixture and still have the very fast get-away for which the Rayfield is noted.

A dash or steering post control is furnished with all Rayfield Carburetors. This control raises the nozzle needle, supplying a richer mixture for starting purposes and for cold weather.

The Model L Rayfield Carburetor is non-water-jacketed. The design and construction is the same as the Model G. It should be used only on thermo-syphon and air cooled motors where the Model G cannot be used.

Heat to the carburetor is necessary to properly vaporize the low grade fuel now in use. Hot air and hot water should be used. See Rayfield hot air outfit described on another page.

Model G

Water Jacketed

Model	Size	Price	Model	Size	Price
G2 and GL2	1	\$25.00	G5	1½	\$40.00
Each.. D.P.		\$37.04	Each.. D.P.		\$59.04
G3 and GL3	1½	30.00	G6	2	45.00
Each.. D.P.		\$44.44	Each.. D.P.		\$66.66
G4 and GL4	1½	35.00			
Each.. D.P.		\$51.84			

Model L

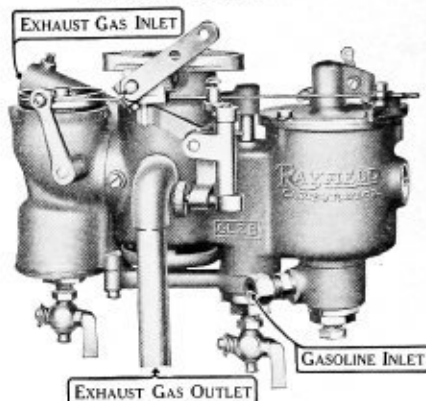
Non-Water Jacketed

Model	Size	Price	Model	Size	Price
L2 and LL2	1	\$20.00	L4	1½	\$25.00
Each.. D.P.		\$29.64	Each.. D.P.		\$37.04
L3 and LL3	1½	22.50			
Each.. D.P.		\$33.33			

Models G and L are also furnished in same sizes as listed with the adjustments on the opposite side of the carburetor. These models are left-hand and are known as GL and LL.

Always specify the make, model and year of car or motor when ordering.

Rayfield Carburetors



Special Rayfield Carburetor for Buick Cars

The Special Rayfield Carburetor for Buick Cars is made to meet the great demand for a carburetor particularly applicable to the Buick motor.

The carburetor is arranged to be heated by exhaust gas, using the standard Buick connections.

Installation can be made in two hours.

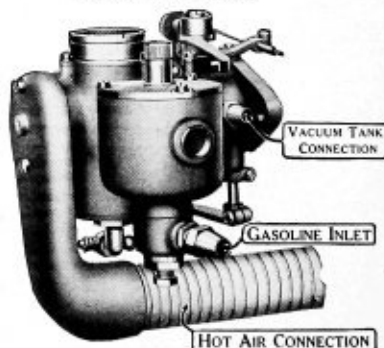
It is sold under our regular guarantee.

The following prices include the carburetor complete with all necessary fittings for installation:

Buick D-45 1916 Car, GL-2 Special Carburetor..	\$27.35
Each.. D.P.	\$40.50
Buick B-55 1914 Car, GL-3 Special Carburetor..	32.25
Each.. D.P.	\$47.76
Buick C-55 1915 Car, GL-3 Special Carburetor..	32.25
Each.. D.P.	\$47.76
Buick D-55 1916 Car GL-3 Special Carburetor..	32.25
Each.. D.P.	\$47.76

Special Rayfield Carburetor

FOR DODGE CARS



The demand for Rayfield Carburetors for Dodge cars is very large, and the special Rayfield for this car is constructed to suit the Dodge motor, insuring the greatest possible efficiency.

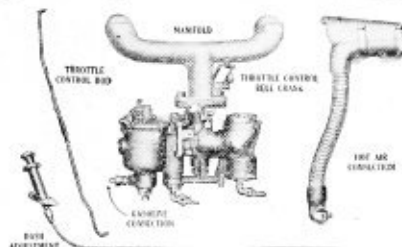
Hot air is used to heat the carburetor. A hot air connection and flexible tubing are provided to fit the motor without changes. Installation can be made in two hours.

Price (for Dodge cars, 1915 and 1916), model MR-3 Carburetor	\$22.60
Each.. D.P.	\$33.48



CARBURETORS

Special Rayfield Carburetor for Ford



Special Rayfield Carburetor for Ford.

The Rayfield Carburetor on a Ford car gives Rayfield results, which means greater efficiency in the production of more power, more speed, greater flexibility, easier starting and less carbon than any other carburetor.

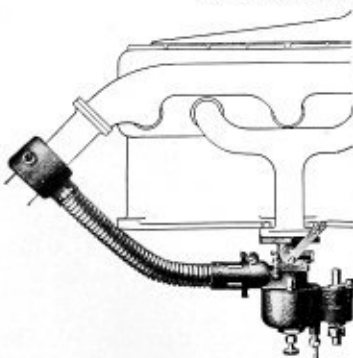
The Rayfield Carburetor does away with all carburetor trouble; with it Ford cars immediately develop greater speed, throttle down to a walk, climb hills with ease and the gasoline consumption is greatly reduced.

This complete Ford Assembly as shown in the above illustration consists of a one-inch Model "L" Rayfield Carburetor, a specially designed Ford manifold, hot air fitting, throttle control bell crank, throttle control rod, special gasoline connection and dash adjustment. Packed in a box complete ready for quick installation. It can be installed in two hours by an ordinary mechanic.

Price, with all fittings, complete.....\$23.00
Each..D.P. \$34.00

NOTE—When a Ford is equipped with magneto ignition a special manifold and Rayfield Model "L" are used.

Hot Air Flexible Tubing For All Carburetors

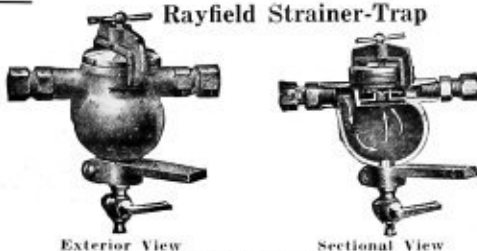


Interlocking construction consists of a continuous length of copper or galvanized steel tape, rolled in a spiral, so that the edges interlock, forming the four-wall construction shown. As the tape is rolled a groove is formed, containing an especially prepared asbestos packing, which remains fully protected from internal or external wear.

3-in. Flexible Metal Tubing, per ft. \$0.40
Per foot..D.P. \$.40
Per foot, in 50-foot lengths..D.P. .36

Hot Air Flexible Tubing	
3-in. Flexible Metal Tubing, per foot.....	.50
Per foot..D.P. \$.44	Per foot, in 50-ft. lengths..D.P. \$.40
1-in. Flexible Metal Tubing, per foot.....	.60
Per foot..D.P. \$.48	Per foot, in 50-ft. lengths..D.P. \$.44
1 1/2-in. Flexible Metal Tubing, per foot.....	.65
Per foot..D.P. \$.50	Per foot, in 50-ft. lengths..D.P. \$.46
1 1/4-in. Flexible Metal Tubing, per foot.....	.70
Per foot..D.P. \$.55	Per foot, in 50-ft. lengths..D.P. \$.48
1 1/2-in. Flexible Metal Tubing, per foot.....	.75
Per foot..D.P. \$.66	Per foot, in 50-ft. lengths..D.P. \$.60
1 3/4-in. Flexible Metal Tubing, per foot.....	.90
Per foot..D.P. \$.73	Per foot, in 50-ft. lengths..D.P. \$.66

Rayfield Strainer-Trap



INSTALLATION

The Rayfield Strainer-Trap is placed anywhere between the tank and carburetor in the gasoline line.

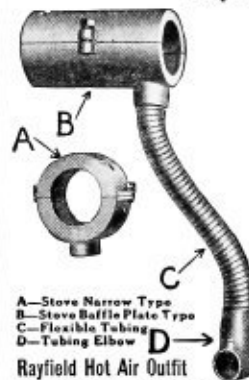
The trap is furnished with a brace by which to fasten it to any convenient frame or other car member, and it can be placed in the most accessible position.

Always install the trap with arrow pointing toward the carburetor.

TO CLEAN

Simply loosen the thumb screw in top, remove clamp and lift out cover and strainer, clean strainer and replace. This should be done occasionally. Trap should be drained through cock once a month or oftener. Trap is 5 inches high and 2 1/2 inches wide. Furnished complete as shown, with drain cock, brace and two connections, to take 1/4-inch, 5/16-inch or 1/2-inch O. D. Tubing. Five-sixteenth-inch connections furnished unless otherwise ordered. Price, in Brass.....\$2.00
Each..D.P. \$2.98

Rayfield Hot Air Outfit



A—Stove Narrow Type
B—Stove Baffle Plate Type
C—Flexible Tubing
D—Tubing Elbow

Rayfield Hot Air Outfit

Heat must be furnished to the carburetor to properly vaporize low-grade fuel and to secure the maximum efficiency from your motor.

The Rayfield method of getting additional heat to the carburetor has proven to be correct. A stove or housing is clamped around the exhaust manifold or exhaust pipe and heat is transferred by means of flexible tubing to the fixed air intake of the carburetor. The pure heated air comes in direct contact with the gasoline at the opening of the nozzle, thereby producing perfect vaporization.

Installation of this outfit is made by locating the stove just back of the last cylinder in order that the highest degree of heat be secured from all cylinders. One end of the flexible tubing is fitted into the stove and the other end into the elbow attached to the fixed air opening of the carburetor. The ends can be fastened by soldering or by using a cotter pin.

In ordering, specify outside diameter of exhaust manifold or exhaust pipe at a point where stove is to be attached. Give length of tubing required, allowing sufficient length for bends and turns. For best results use the Baffle Plate Stove.

Price Lists

BAFFLE PLATE TYPE

No. 99-F. Length 4 inches, can be bored from 1 1/2 to 2 1/2 inches, each.....	\$1.65
Each..D.P. \$2.44	
No. 134-F. Length 6 inches, can be bored from 2 1/2 to 3 1/2 inches, each.....	2.30
Each..D.P. \$3.32	
No. 141-F. Length 1 inch, can be bored from 2 1/2 to 3 1/2 inches, each.....	1.75
Each..D.P. \$2.60	
No. 143-F. Length 4 inches, can be bored from 1 1/2 to 2 1/2 inches, each.....	1.15
Each..D.P. \$1.71	
No. 151-F. Length 1 inch, can be bored from 1 1/2 to 2 1/2 inches, each.....	1.30
Each..D.P. \$1.93	
No. 918. Length 4 inches, can be bored from 2 to 3 1/2 inches, each.....	1.85
Each..D.P. \$2.73	

NARROW TYPE

No. 54-F. Can be bored from 1 1/2 to 2 1/2 inches, each.....	\$1.00
Each..D.P. \$1.48	
No. 68-F. Can be bored from 2 1/2 to 3 1/2 inches, each.....	1.10
Each..D.P. \$1.64	
No. 131-F. Can be bored from 1 1/2 to 2 1/2 inches, each.....	1.00
Each..D.P. \$1.48	
No. 302-F. 1 1/16-inch Tubing, per foot.....	.45
Per foot..D.P. \$.66	
Tubing Elbow (Standard), each.....	.25
Each..D.P. \$.38	

When ordering, specify outside diameter of exhaust pipe at the point where the stove is to be attached.



SOLDERLESS COMPRESSION COUPLINGS

All for Copper or Brass Tubing

For connecting tubing on gasoline and oiling systems without swaging or the use of solder.

No. 1 Union Joint



Both ends are fitted with sleeve nut for joining two tubes.

- No. 1 Union Joint for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P.\$2.53
 No. 11 Union Joint for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 3.20
 No. 12 Union Joint for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 4.55

No. 2 Spring Check Valve



Compression one end, thread on other end.

No. 3 Coupling



Tapped one end, compression other end.

- No. 2 Spring check valve for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P.\$2.66
 No. 21 Spring check valve for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 2.93
 No. 22 Spring check valve for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 3.73
 No. 3 Coupling for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P. 1.91
 No. 31 Coupling for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 2.13
 No. 32 Coupling for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 3.46

No. 4 Nipple Union



Compression one end, thread on other end.

No. 5 Elbow



Compression one end, thread on other end.

- No. 4 Nipple Union for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P.\$2.00
 No. 41 Nipple Union for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 2.33
 No. 42 Nipple Union for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 3.46
 No. 5 Elbow for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P. 2.13
 No. 51 Elbow for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 2.66
 No. 52 Elbow for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 3.46

No. 6 Elbow



Compression both ends.

No. 7 Tee



Compression two opposite ends, thread on other end.

- No. 6 Elbow for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P.\$2.80
 No. 61 Elbow for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 3.46
 No. 62 Elbow for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 4.26
 No. 7 Tee for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P. 3.20
 No. 71 Tee for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 3.86
 No. 72 Tee for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 5.33

No. 8 Tee



Compression on two ends at right angle, thread on other end.

No. 9 Tee



Compression three ends.

- No. 8 Tee for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P.\$3.20
 No. 81 Tee for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 3.86
 No. 82 Tee for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 5.33
 No. 9 Tee for $\frac{1}{4}$ inch O. D. brass or copper tubing. Doz. D.P. 3.86
 No. 91 Tee for $\frac{5}{16}$ inch O. D. brass or copper tubing. Doz. D.P. 4.55
 No. 92 Tee for $\frac{3}{8}$ inch O. D. brass or copper tubing. Doz. D.P. 6.40
 No. 64-F Like No. 9 with Ends for $\frac{1}{4}$ inch Tubing, Center for $\frac{1}{2}$ inch Tubing. Doz. D.P. 8.00
 No. 164-F Like No. 9 with Ends for $\frac{5}{16}$ inch Tubing, Center for $\frac{1}{2}$ inch Tubing. Doz. D.P. 8.00
 No. 264-F Like No. 9 with Ends for $\frac{3}{8}$ inch Tubing, Center for $\frac{1}{2}$ inch Tubing. Doz. D.P. 8.00

Sleeves and Nuts

Sleeves for the foregoing couplings:

	1/4	5/16	3/8
Per 100 D.P.	\$1.32	D.P. \$1.76	D.P. \$2.22

Nuts for any of the foregoing couplings:

	1/4	5/16	3/8
Per 100 D.P.	\$5.55	D.P. \$6.66	D.P. \$8.88



SOLDERLESS COUPLINGS AND PIPE FITTINGS—UNFINISHED

For Connecting Brass and Copper Tubing


 1 F
10 F

 2 F
11 F

 3 F
12 F

- No. 1F Connector for 1/4 inch Tubing, doz. D.P. \$1.32
 No. 10F Connector for 5/16 inch Tubing, doz. D.P. 1.60
 No. 2F Connector for 1/4 inch Tubing, doz. D.P. 1.60
 No. 11F Connector for 5/16 inch Tubing, doz. D.P. 2.40
 No. 3F Check Valve for 1/8 inch I. P. Thread, doz. D.P. 2.40
 No. 12F Check Valve for 1/4 inch I. P. Thread, doz. D.P. 4.80


 4 F
13 F

 5 F
14 F

- No. 4F Tee for 1/4 inch Tubing, doz. D.P. \$2.25
 No. 13F Tee for 5/16 inch Tubing, doz. D.P. 2.95
 No. 5F Elbow for 1/4 inch Tubing, doz. D.P. 1.92
 No. 14F Elbow for 5/16 inch Tubing, doz. D.P. 2.40


 6 F
15 F

 7 F
16 F

- No. 6F Bushing for 1/8 inch I. P. Tap, doz. D.P. \$1.65
 No. 15F Bushing for 1/4 inch I. P. Tap, doz. D.P. 2.95
 No. 7F Bushing for 1/4 inch I. P. Tap, doz. D.P. 1.95
 No. 16F Bushing for 3/8 inch I. P. Tap, doz. D.P. 2.95


 8 F
17 F

 9 F
19 F

- No. 8F Connector for 1/4 inch I. P. Thread, doz. D.P. \$1.65
 No. 17F Connector for 1/4 inch I. P. Thread, doz. D.P. 2.40
 No. 9F Elbow for 1/8 inch I. P. Thread, doz. D.P. 1.95
 No. 19F Elbow for 1/4 inch I. P. Thread, doz. D.P. 2.40


 27 F
30 F

 28 F
29 F

- No. 27F Tee for 1/8 inch I. P. Thread, doz. D.P. \$2.25
 No. 30F Tee for 1/4 inch I. P. Thread, doz. D.P. 2.95
 No. 28F Tee for 1/8 inch I. P. Thread, doz. D.P. 2.25
 No. 29F Tee for 1/4 inch I. P. Thread, doz. D.P. 2.95

Directions for using: Place nut on tubing and then flare out the end of tubing, as shown by Cuts 1 F and 10 F.

For Connecting Iron Pipe Size Tubing



100



101



102

- | | | |
|--------------------------|----------------|-------------|
| No. 100 Elbow | 1/8 inch, doz. | D.P. \$2.40 |
| No. 100 Elbow | 1/4 inch, doz. | D.P. 2.95 |
| No. 100 Elbow | 3/8 inch, doz. | D.P. 3.75 |
| No. 100 Reducing Elbow | 1/4 inch, doz. | D.P. 3.75 |
| No. 100 Reducing Elbow | 3/8 inch, doz. | D.P. 4.65 |
| No. 101 Tee | 1/8 inch, doz. | D.P. 2.66 |
| No. 101 Tee | 1/4 inch, doz. | D.P. 3.20 |
| No. 101 Reducing Tee | 1/4 inch, doz. | D.P. 4.65 |
| No. 101 Reducing Tee | 3/8 inch, doz. | D.P. 5.36 |
| No. 102 Crosses | 1/8 inch, doz. | D.P. 3.75 |
| No. 102 Crosses | 1/4 inch, doz. | D.P. 5.85 |
| No. 102 Crosses | 3/8 inch, doz. | D.P. 7.32 |
| No. 102 Reducing Crosses | 1/4 inch, doz. | D.P. 6.92 |



103



104



105

- | | | |
|------------------------------|----------------|-------------|
| No. 103 Couplings | 1/8 inch, doz. | D.P. \$1.92 |
| No. 103 Couplings | 1/4 inch, doz. | D.P. 2.66 |
| No. 103 Couplings, R & L | 1/4 inch, doz. | D.P. 2.66 |
| No. 103 Couplings, R & L | 3/8 inch, doz. | D.P. 2.93 |
| No. 103 Coupling Reducings | 1/4 inch, doz. | D.P. 2.66 |
| No. 104 Unions, Ground Joint | 1/8 inch, doz. | D.P. 3.60 |
| No. 104 Unions, Ground Joint | 1/4 inch, doz. | D.P. 4.00 |
| No. 104 Unions, Ground Joint | 3/8 inch, doz. | D.P. 4.65 |
| No. 105 Return Bends, Open | 3/8 inch, doz. | D.P. 7.33 |
| No. 105 Return Bends, Closed | 3/8 inch, doz. | D.P. 5.32 |



110



111



109



108

- | | | |
|-------------------|----------------|-------------|
| No. 110 Bushings | 1/4 inch, doz. | D.P. \$1.92 |
| No. 110 Bushings | 3/8 inch, doz. | D.P. 2.90 |
| No. 111 Lock Nuts | 1/4 inch, doz. | D.P. 1.92 |
| No. 111 Lock Nuts | 3/8 inch, doz. | D.P. 2.10 |
| No. 109 Plugs | 1/8 inch, doz. | D.P. 1.60 |
| No. 109 Plugs | 1/4 inch, doz. | D.P. 1.92 |
| No. 109 Plugs | 3/8 inch, doz. | D.P. 2.15 |
| No. 108 Caps | 1/8 inch, doz. | D.P. 2.40 |
| No. 108 Caps | 1/4 inch, doz. | D.P. 2.40 |
| No. 108 Caps | 3/8 inch, doz. | D.P. 3.32 |



112



116

- | | | |
|----------------------|----------------|-------------|
| No. 112 Nipple Close | 1/8 inch, doz. | D.P. \$0.92 |
| No. 112 Nipple Close | 1/4 inch, doz. | D.P. 1.46 |
| No. 116 Street Elbow | 1/4 inch, doz. | D.P. 4.25 |
| No. 116 Street Elbow | 1/2 inch, doz. | D.P. 5.32 |



The GIBSON COMPANY INDIANAPOLIS

COILS

Kingston Plain Box Coil



Four-Terminal Box Coil

For stationary gas engine and boat use, where finish is not required, we recommend our plain Box Coils. This type of coil is made of the same high grade materials, put up in neat lock cornered boxes, polished brass trimmings, and are guaranteed

to give the best possible results. On quantity orders for Plain Box Coils we can bring the different terminals out at almost any position users may require them.

Kingston single-cylinder Box Coil, each.....\$4.50
Each..D.P. \$7.55

Kingston double-cylinder Box Coil, each..... 9.00
Each..D.P. \$15.00

Kingston Dash Coil

Kingston single-cylinder Dash Coil, with switch, each..... \$7.50
Each..D.P. \$12.50

Kingston double-cylinder Dash Coil, with switch, each..... 13.50
Each..D.P. \$22.48

Kingston quadruple-cylinder Dash Coil, with switch, each..... 25.50
Each..D.P. \$42.50

Model "TS" Splitdorf Coil



Model "TS" Coil — the latest and most finished of all types of coils — is notable for its ideal firing qualities and general construction. Easily and quickly dissembled, it is positive in action and its durability is one of its striking features. The coil proper is mounted on the base of the switch, the face of which is designed to mount on the dash-

board, where it is controlled by hand or foot. The coil is enclosed in a light waterproof case and extends through the dashboard.

T. S. A. Splitdorf Coil for use with A Magneto, each.....\$22.50
Each..D.P. \$33.33

T. S. F. Splitdorf Coil for use with models having 2 Magnets, each..... 22.50
Each..D.P. \$33.33

T. S. B. Splitdorf Coil for use with models having 3 Magnets, each..... 22.50
Each..D.P. \$33.33



New York Box Coils

This coil has been produced to meet the demand for a thoroughly efficient coil that can be sold at a moderate price. Thousands of them are in use giving entire satisfaction.

Model 55 New York Box Coil, one cylinder, each..\$2.85
Each..D.P. \$4.75
Model 56 New York Box Coil, two cylinder, each.. 5.70
Each..D.P. \$9.50

Transformer Magneto Coils

For Use in Connection With Low Tension Magnets

These coils are extremely powerful, and will give almost one inch long spark when switched to the battery side. A special form of winding is employed, positively preventing breakdown of the secondary. They are furnished with a handsome kick switch with removable plug for both battery and magneto. We can supply the instrument to be mounted in either a horizontal or vertical position. The windings and condenser are guaranteed forever.



If your magneto is not giving the proper spark, do not go to the expense of trading in or exchanging for a new magneto, but procure one of these coils, and if it does not do just as we claim you are at liberty to return it, providing same is in good condition, and purchase price will be refunded. Shipping weight is 8½ pounds.

Each.....\$8.00
Each..D.P. \$13.32

Special Vibrator

For Causing a Straight High Tension Magneto to Produce a Vibrating Spark for Starting



A special form of master vibrator, which when connected to a Bosch High Tension Magneto through a set of six dry cells will cause a shower of sparks to be produced in the proper cylinders for starting, regardless of how slow magneto is turning. We do not recommend this as an auxiliary ignition system to run on continuously, however.

This device has been thoroughly tried and will not damage the magneto in any manner. It gives the advantage of the Dual System magnetos, which cost several times the price asked for our instrument. It may be attached without making the slightest change to the magneto in a few minutes.

With each instrument we supply a handsome well made kick switch with wires attached. The switch may be placed on the driver's side of dash, and the vibrator coil can be conveniently located on engine side of dash. Shipping weight, three pounds.

Each.....\$8.00
Each..D.P. \$13.32

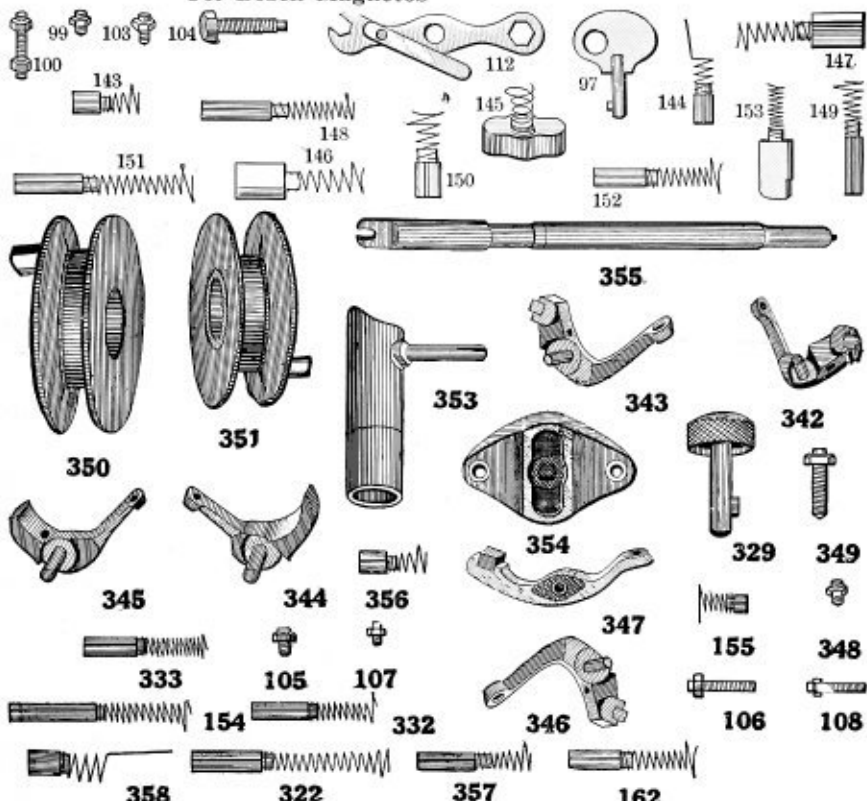


PLATINUM CONTACTS

Platinum Contact Screws and Interrupter Levers

- 99 Platinum Screw, short, Mag. Breaker, DU, ZR \$2.15
Each, D.P. \$ 2.37
Dozen, D.P. \$25.00
- 100 Platinum Screw, long, Mag. Breaker, DU, ZR 2.15
Each, D.P. \$ 2.37
Dozen, D.P. \$25.00
- 103 Platinum Screw, short, Bat. Breaker, all types 3.30
Each, D.P. \$ 3.66
Dozen, D.P. \$39.55
- 104 Platinum Screw, long, Bat. Breaker, all types 3.30
Each, D.P. \$ 3.66
Dozen, D.P. \$39.55
- 348 Platinum Screw, short, Mag. Battery, D-DR, 3.30
Each, D.P. \$ 3.66
Dozen, D.P. \$39.55
- 349 Platinum Screw, long, Mag. Breaker, D-DR, 3.30
Each, D.P. \$ 3.66
Dozen, D.P. \$39.55
- 105 Platinum Screw, short, DA, DAV, Plain B, ZEL, ZEV 1.95
Each, D.P. \$ 2.16
Dozen, D.P. \$23.33
- 106 Platinum Screw, long, DA, DAV, Plain B, ZEL, ZEV 1.95
Each, D.P. \$ 2.16
Dozen, D.P. \$23.33
- 107 Platinum Screw, short, DA, DAV, Ball Bearing 1.95
Each, D.P. \$ 2.16
Dozen, D.P. \$23.33
- 108 Platinum Screw, long, DA, DAV, Ball Bearing 1.95
Each, D.P. \$ 2.16
Dozen, D.P. \$23.33
- 112 Adjusting wrench with gauge12
Each, D.P. \$0.13
Dozen, D.P. \$1.40
- 312 Magneto Interrupter Lever, Clockwise, DU, NU, ZEV, DA, DAV, Plain B 2.25
Each, D.P. \$ 2.50
Dozen, D.P. \$27.00
- 343 Magneto Interrupter Lever, Anti-Clockwise, DU, NU, ZEL, ZEV, DA, DAV, Plain B 2.25
Each, D.P. \$ 2.50
Dozen, D.P. \$27.00
- 344 Magneto Interrupter Lever, Clockwise, D-DR 2.25
Each, D.P. \$ 2.50
Dozen, D.P. \$27.00

Fit Bosch Magnetos



<p>345 Magneto Interrupter Lever, Anti-Clockwise, D-R, each \$2.25 Each, D.P. \$ 2.50 Dozen, D.P. \$27.00</p>	<p>356 Metal Brush for grounding interrupters, each \$0.18 Each, D.P. \$0.20 Dozen, D.P. \$2.16</p> <p>148 Collector Brush at Slip-ring, DU, D, DR, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p> <p>151 Collector Brush at Slip-ring, ZR, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p> <p>154 Collector Brush at Slip-ring, DA, Plain and Ball Bearing, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p> <p>162 Collector Brush at Slip-ring, SEV, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p> <p>322 Collector Brush at Slip-ring, DAV, plain bearing, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p> <p>333 Collector Brush at Slip-ring, DAV, ball bearing, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p> <p>357 Collector Brush at Slip-ring, NU, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p>	<p>346 Magneto Interrupter Lever, DA, DAV, Ball Bearing, each \$2.25 Each, D.P. \$ 2.50 Dozen, D.P. \$27.00</p> <p>347 Battery Interrupter Lever, all dual types, each \$2.25 Each, D.P. \$ 2.50 Dozen, D.P. \$27.00</p> <p>145 Distributor Brush, DU, each \$0.22 Each, D.P. \$0.24 Dozen, D.P. \$2.64</p> <p>146 Distributor Brush, D-DR, each18 Each, D.P. \$0.20 Dozen, D.P. \$2.16</p> <p>153 Distributor Brush, ZR, each21 Each, D.P. \$0.23 Dozen, D.P. \$2.52</p> <p>144 Ground Brush with cable for base plate, each22 Each, D.P. \$0.24 Dozen, D.P. \$2.64</p> <p>150 Conductor Brush, D-DR, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p> <p>152 Brush for Connecting Piece, each13 Each, D.P. \$0.15 Dozen, D.P. \$1.55</p> <p>358 Commutator Brush, Duplex Model, each21 Each, D.P. \$0.23 Dozen, D.P. \$2.52</p> <p>97 Switch Key, Dual and Duplex Coil, each10 Each, D.P. \$0.11 Dozen, D.P. \$1.20</p> <p>329 Switch Key, Single Ignition Switch, each15 Each, D.P. \$0.17 Dozen, D.P. \$1.80</p>
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- ### Rubber Composition Parts
- 350 Slip-Ring for D, DR, each \$1.80
Each, D.P. \$2.00 Dozen, D.P. \$21.60
- 351 Slip-Ring for DU, each 1.80
Each, D.P. \$2.00 Dozen, D.P. \$21.60
- 353 Elbow Terminal, B, DR, each27
Each, D.P. \$0.30 Dozen, D.P. \$3.24
- 354 Distributor Brush Holder with Brush, each90
Each, D.P. \$1.00 Dozen, D.P. \$10.80
- 355 Conducting Bar, each60
Each, D.P. \$0.66 Dozen, D.P. \$7.20
- ### Carbon and Metal Brushes, Switch Keys
- 143 Carbon Brush for grounding interrupters, each \$0.13
Each, D.P. \$0.15 Dozen, D.P. \$1.55
- 155 Carbon Brush for grounding interrupters, DA, DAV, ball bearing, each18
Each, D.P. \$0.20 Dozen, D.P. \$2.16

Fit Herz Magnetos

<p>70 Primary Carbon Brush, each \$0.15 Each, D.P. \$0.17 Dozen, D.P. \$1.80</p>	<p>71 Fiber Roller, each \$0.15 Each, D.P. \$0.17 Dozen, D.P. \$1.80</p>	<p>211 Platinum Spring, each 2.05 Each, D.P. \$2.33 Dozen, D.P. \$24.60</p> <p>213 Platinum Spring, each 2.05 Each, D.P. \$2.33 Dozen, D.P. \$24.60</p> <p>321 Platinum Screw (new style large diameter), each 1.90 Each, D.P. \$2.10 Dozen, D.P. \$22.80</p> <p>211 Secondary Carbon Brush, each15 Each, D.P. \$0.17 Dozen, D.P. \$1.80</p> <p>214 Adjusting Wrench with Gauge, each15 Each, D.P. \$0.17 Dozen, D.P. \$1.80</p>
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The GIBSON COMPANY INDIANAPOLIS

PLATINUM CONTACTS—Continued

Fit Splittdorf Magnetos

49 Platinum Breaker Lever, B, D, G, S, L, each \$3.15 Each, D.P. \$ 3.50 Dozen, D.P. \$37.88	86 87	111	113
50 Platinum Breaker Screw, B, D, G, S, L, 2.35 Each \$ 2.62 Dozen, D.P. \$28.20	262	265	266
262 Steel Roller and Pin for No. 49 .15 Each, D.P. \$0.17 Dozen, D.P. \$1.80	264	50	234
263 Coiled Wire Spring for No. 49 .08 Each, D.P. \$0.09 Dozen, D.P. \$1.08	263	164	244
264 Bronze Main Spring for No. 49 .08 Each, D.P. \$0.09 Dozen, D.P. \$0.96	165	245	246
86 Platinum Breaker Lever, T, W, X, Y, Z, A 3.15 Each, D.P. \$ 3.50 Dozen, D.P. \$37.88	163	247	248
87 Platinum Breaker Screw, T, W, X, Y, Z, A 2.35 Each, D.P. \$ 2.62 Dozen, D.P. \$28.20	363	365	249
265 Fibre Roller Screw and Nut for No. 86 .32 Each, D.P. \$0.24 Dozen, D.P. \$2.64	364	434	250
266 Coiled Wire Main Spring for No. 86, each .05 Each, D.P. \$0.17 Dozen, D.P. \$1.80	251	366	252
111 Adjustable Wrench with Gauge for Nos. 60 and 87 only, each .10 Each, D.P. \$0.11 Dozen, D.P. \$1.20	47	364	255
234 Platinum Breaker Lever, EU, EV, each 3.15 Each, D.P. \$2.62 Dozen, D.P. \$28.20	251	252	255
235 Platinum Breaker Screw, EU, EV, each 2.35 Each, D.P. \$2.62 Dozen, D.P. \$28.20	251	252	255
244 Fibre Roller Screw and Nut for 234, each .22 Each, D.P. \$0.24 Dozen, D.P. \$2.64	251	252	255
245 Spring Steel Main Spring for No. 234, each .15 Each, D.P. \$0.17 Dozen, D.P. \$1.80	251	252	255
246 Adjustable Wrench with Gauge for No. 234 only, each .12 Each, D.P. \$0.17 Dozen, D.P. \$1.80	251	252	255
363 Platinum Breaker Lever, Model Dixie 2, each 3.15 Each, D.P. \$3.50 Dozen, D.P. \$37.88	251	252	255
365 Platinum Breaker Screw, Model Dixie 40, each 2.35 Each, D.P. \$2.62 Dozen, D.P. \$28.20	251	252	255
113 Carbon Distributor Brush, B, D, F, 88, Y, Z, each .09 Each, D.P. \$0.10 Dozen, D.P. \$1.08	251	252	255
114 Gauze Collector Brush, B, D, S, G, 88, each .12 Each, D.P. \$0.14 Dozen, D.P. \$1.45	251	252	255
115 Gauze Ground Brush, each .12 Each, D.P. \$0.14 Dozen, D.P. \$1.45	251	252	255
163 Cophite Metal Brush, A, W, X, Y, Z, each .30 Each, D.P. \$0.35 Dozen, D.P. \$3.90	251	252	255
247 Carbon Distributor Brush, EU, A, O, T, W, X, each .09 Each, D.P. \$0.10 Dozen, D.P. \$1.08	251	252	255
248 Carbon Brush, small, EU, Brush Holder, each \$0.38 Each, D.P. \$0.42 Dozen, D.P. \$4.56	251	252	255
249 Cophite Ground Brush, EU, EV, each .38 Each, D.P. \$0.42 Dozen, D.P. \$4.56	251	252	255
250 Gauze Brush, EU, EV, each .22 Each, D.P. \$0.24 Dozen, D.P. \$2.64	251	252	255
434 Distributor Brush, Dixie 40, each .10 Each, D.P. \$0.11 Dozen, D.P. \$1.20	251	252	255
435 Collector Brush, Dixie 2, each .10 Each, D.P. \$0.11 Dozen, D.P. \$1.20	251	252	255
251 Breaker Cam for A, B, D, F, S, O, S, T, W, X, Y, Z, each 1.50 Each, D.P. \$1.66 Dozen, D.P. \$18.00	251	252	255
255 Breaker Cam for G, H, each 1.50 Each, D.P. \$1.66 Dozen, D.P. \$18.00	251	252	255
252 Cam Nut, each .22 Each, D.P. \$0.24 Dozen, D.P. \$2.64	251	252	255
253 Cam Key, each .15 Each, D.P. \$0.17 Dozen, D.P. \$1.80	251	252	255
164 Key for U.S. Coil, each .08 Each, D.P. \$0.09 Dozen, D.P. \$0.96	251	252	255

Fit Kingston Magnetos

227 Platinum Breaker Bar, each \$3.75 Each, D.P. \$4.15 Dozen, D.P. \$45.00	228	230	96	314	402	229 Carbon Brush, each \$0.10 Each, D.P. \$0.11 Dozen, D.P. \$1.20
228 Platinum Breaker Screw, each 2.25 Each, D.P. \$2.50 Dozen, D.P. \$27.00	229	403	315	401	230 Gauze Brush, each .15 Each, D.P. \$0.17 Dozen, D.P. \$1.80	96 Switch Key, each .08 Each, D.P. \$0.09 Dozen, D.P. \$0.96
167 Platinum Screw, short, each \$2.30 Each, D.P. \$2.44 Dozen, D.P. \$26.40	229	403	315	401	101 Wrench with Gauge, each .15 Each, D.P. \$0.17 Dozen, D.P. \$1.80	402 Breaker Cam, each 1.10 Each, D.P. \$1.22 Dozen, D.P. \$13.00
168 Platinum Screw, long, each 2.30 Each, D.P. \$2.44 Dozen, D.P. \$26.40	229	403	315	401	403 Cophite Brush with Pigtail, each .38 Each, D.P. \$0.42 Dozen, D.P. \$4.56	
397 Interrupter Lever with Platinum, Clockwise, each 4.65 Each, D.P. \$5.16 Dozen, D.P. \$55.80	229	403	315	401		
398 Interrupter Lever with Platinum, Anti-Clockwise, each 4.65 Each, D.P. \$5.16 Dozen, D.P. \$55.80	229	403	315	401		
166 Wrench with Gauge, each .15 Each, D.P. \$0.17 Dozen, D.P. \$1.80	229	403	315	401		
145 Carbon Distributor Brush, each .22 Each, D.P. \$0.24 Dozen, D.P. \$2.64	229	403	315	401		

Fit Simms Magnetos

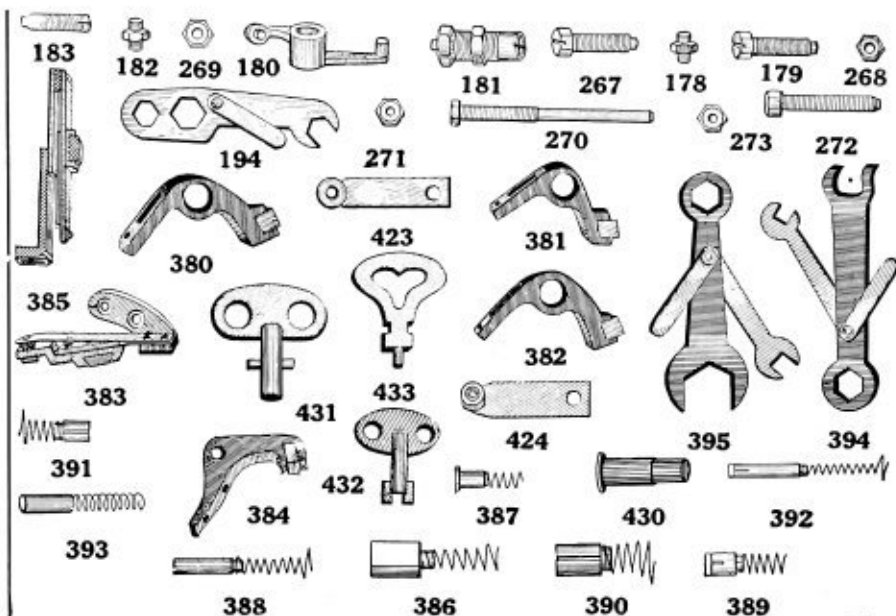
167 Switch Key, each \$0.06 Each, D.P. \$0.07 Dozen, D.P. \$0.72	167	168	397	398	166	145
322 Collector Brush, each .15 Each, D.P. \$0.17 Dozen, D.P. \$1.80	167	168	397	398	166	145
323 Brush for M and B, each \$0.38 Each, D.P. \$0.42 Dozen, D.P. \$4.56	167	168	397	398	166	145
324 Ground Brush, each .38 Each, D.P. \$0.42 Dozen, D.P. \$4.56	167	168	397	398	166	145



PLATINUM CONTACTS—Continued

Fit Eisemann Magnetos

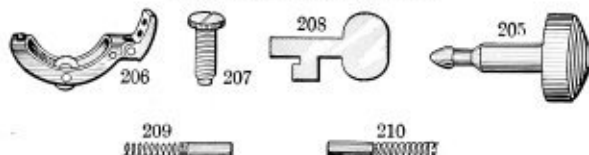
178 Platinum Screw for Lever, EM, EU, EA, ED, EL, each	\$2.45
Each, D.P. \$ 2.72	
Dozen, D.P. \$29.40	
179 Platinum Adjustable Screw, EM, EU, EA, ED, EL, EB, ER, GN6, G4, each	2.45
Each, D.P. \$ 2.72	
Dozen, D.P. \$29.40	
180 Platinum Interrupter Lever, A-7, each	5.60
Each, D.P. \$ 6.22	
Dozen, D.P. \$67.18	
181 Platinum Interrupter Screw Assembly, A-7, each	4.65
Each, D.P. \$ 5.16	
Dozen, D.P. \$55.80	
182 Platinum Screw for Breaker Lever, AG, A8, BK, BL, each	2.45
Each, D.P. \$ 2.72	
Dozen, D.P. \$29.40	
183 Platinum Adjustable Screw, AG, A8, BK, BL, each	2.45
Each, D.P. \$ 2.72	
Dozen, D.P. \$29.40	
267 Platinum Adjustable Screw Battery Breaker, EM, each	2.45
Each, D.P. \$ 2.72	
Dozen, D.P. \$29.40	
268 Lock Nut for Screws No. 179 and 267, each	.05
Each, D.P. \$0.06	
Dozen, D.P. \$0.60	
269 Lock Nut for Screw No. 183, each	.05
Each, D.P. \$0.06	
Dozen, D.P. \$0.60	
270 Platinum Adjustable Screw Battery Breaker, EA, EU, ED, EL, each	\$2.45
Each, D.P. \$2.72	
Dozen, D.P. \$29.40	
271 Lock Nut for Screw No. 270, each	.05
Each, D.P. \$0.06	
Dozen, D.P. \$0.60	
272 Platinum Adjustable Screw for ED, ER, each	2.45
Each, D.P. \$2.72	
Dozen, D.P. \$29.40	
273 Lock Nut for Screw No. 272, each	.05
Each, D.P. \$0.06	
Dozen, D.P. \$0.60	
380 Magneto Interrupter Lever with Platinum, EU, EA, EL, each	3.90
Each, D.P. \$4.33	
Dozen, D.P. \$46.80	
381 Magneto Interrupter Lever with Platinum, ED, ER, each	3.90
Each, D.P. \$4.33	
Dozen, D.P. \$46.80	
382 Magneto Interrupter Lever with Platinum, EM, single and dual, each	4.65
Each, D.P. \$5.16	
Dozen, D.P. \$55.80	
383 Magneto Interrupter Lever with Platinum, EB, each	5.60
Each, D.P. \$6.22	
Dozen, D.P. \$67.20	



183 Platinum Interrupter Spring, GN6, G4, each	\$2.45
Each, D.P. \$2.72	
Dozen, D.P. \$29.40	
424 Pressure Spring with Fiber Button, GN6, G4, each	.10
Each, D.P. \$0.11	
Dozen, D.P. \$1.20	
384 Battery Interrupter Lever with Platinum, EM, dual, each	3.90
Each, D.P. \$4.33	
Dozen, D.P. \$46.80	
385 Battery Interrupter Lever with Platinum, EU, EA, ED, EL, each	5.60
Each, D.P. \$6.22	
Dozen, D.P. \$67.20	
386 Brush for Distributor Lever, EU, EA, ED, EM, EB, each	.18
Each, D.P. \$0.20	
Dozen, D.P. \$2.16	
387 Steel Distributor Brush, A7, A8, BL, each	.18
Each, D.P. \$0.20	
Dozen, D.P. \$2.16	
388 Collector Brush at Slip-ring, EU, EA, ED, EM, EB, each	.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	
389 Ground Brush for Interrupters, each	.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	

391 Distributor Brush for GN, 6, G4, each	\$0.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	
392 Collector Brush at Slip-ring, GN6, G4, each	.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	
293 Gauge Brush in Screw of Interrupter, GN6, G4, each	.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	
394 Combination Wrench with Gauge, GN6, each	.45
Each, D.P. \$0.50	
Dozen, D.P. \$5.40	
395 Combination Wrench with Gauge, each	.45
Each, D.P. \$0.50	
Dozen, D.P. \$5.40	
396 Ground Brush for Gear Casing, G4, each	.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	
430 Brush with Holder, Axle End Plate, GN6, each	.22
Each, D.P. \$0.24	
Dozen, D.P. \$2.64	
431 Switch Key for Plain Switch, each	.32
Each, D.P. \$0.24	
Dozen, D.P. \$2.64	
432 Switch Key for DSU Coil, each	.30
Each, D.P. \$0.33	
Dozen, D.P. \$3.60	
433 Switch Key for DCR Coil, each	.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	

Fit National Magnetos



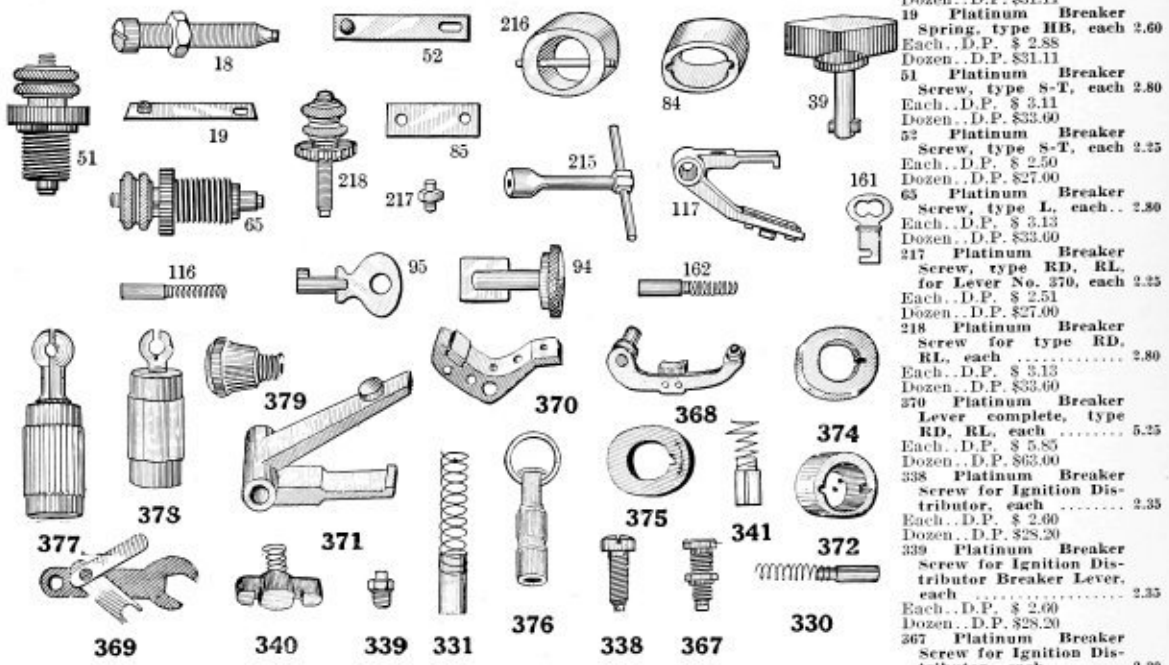
208 Switch Key, each	\$0.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	
209 Carbon Brush, each	.10
Each, D.P. \$0.11	
Dozen, D.P. \$1.20	
210 Gauge Brush, each	.12
Each, D.P. \$0.13	
Dozen, D.P. \$1.45	
206 Platinum Breaker Bar, each	\$4.65
Each, D.P. \$5.16	
Dozen, D.P. \$55.80	
207 Platinum Breaker Screw, each	2.35
Each, D.P. \$2.02	
Dozen, D.P. \$28.20	
205 Switch Plug, each	.15
Each, D.P. \$0.17	
Dozen, D.P. \$1.80	



The GIBSON COMPANY INDIANAPOLIS

PLATINUM CONTACTS—Continued

Fit Remy Magnetos



- 18 Platinum Breaker Screw, type HB, each \$2.60
Each, D.P. \$ 2.85
Dozen, D.P. \$31.11
- 19 Platinum Breaker Spring, type HB, each 2.60
Each, D.P. \$ 2.85
Dozen, D.P. \$31.11
- 51 Platinum Breaker Screw, type S-T, each 2.80
Each, D.P. \$ 3.11
Dozen, D.P. \$33.60
- 52 Platinum Breaker Screw, type S-T, each 2.25
Each, D.P. \$ 2.50
Dozen, D.P. \$27.00
- 63 Platinum Breaker Screw, type L, each 2.80
Each, D.P. \$ 3.13
Dozen, D.P. \$33.60
- 217 Platinum Breaker Screw, type RD, RL, for Lever No. 370, each 2.25
Each, D.P. \$ 2.51
Dozen, D.P. \$27.00
- 218 Platinum Breaker Screw for type RD, RL, each 2.80
Each, D.P. \$ 3.13
Dozen, D.P. \$33.60
- 370 Platinum Breaker Lever complete, type RD, RL, each 5.25
Each, D.P. \$ 5.85
Dozen, D.P. \$63.00
- 338 Platinum Breaker Screw for Ignition Distributor, each 2.35
Each, D.P. \$ 2.60
Dozen, D.P. \$28.20
- 339 Platinum Breaker Screw for Ignition Distributor Breaker Lever, each 2.35
Each, D.P. \$ 2.60
Dozen, D.P. \$28.20
- 367 Platinum Breaker Screw for Ignition Distributor, each 2.30
Each, D.P. \$ 2.55
Dozen, D.P. \$27.00
- 340 Distributor Carbon Brush, Ignition Distributor, 4 and 6 cylinder, each 3.30
Each, D.P. \$ 3.63
Dozen, D.P. \$39.60
- 341 Distributor Carbon Brush, Ignition Distributor, 6 cylinder, each 1.5
Each, D.P. \$0.17
Dozen, D.P. \$1.80
- 39 Switch Key, each .08
Each, D.P. \$0.09
Dozen, D.P. \$0.96
- 94 Switch Key, each .15
Each, D.P. \$0.17
Dozen, D.P. \$1.80
- 95 Switch Key, each .08
Each, D.P. \$0.09
Dozen, D.P. \$0.96
- 161 Switch Key, each .08
Each, D.P. \$0.09
Dozen, D.P. \$0.96
- 376 Switch Key, each .30
Each, D.P. \$0.33
Dozen, D.P. \$3.60
- 377 H. T. Term., S-L-T, each .52
Each, D.P. \$0.58
Dozen, D.P. \$6.25
- 378 H. T. Term., RD, each .52
Each, D.P. \$0.58
Dozen, D.P. \$6.25
- 379 H. T. Term., RL, each .52
Each, D.P. \$0.58
Dozen, D.P. \$6.25

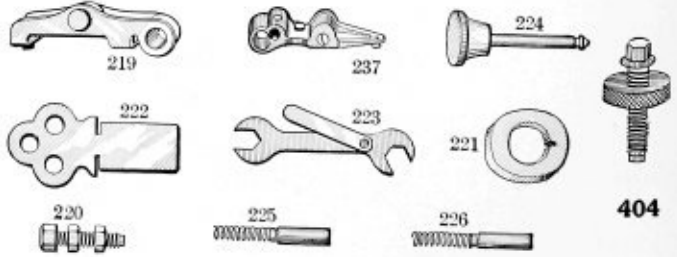
- 368 Platinum Breaker Lever for Ignition Distributor, each \$4.65
Each, D.P. \$5.15
Dozen, D.P. \$55.80
- 215 Adjustable Wrench for Magneto Breaker Box, each .38
Each, D.P. \$0.42
Dozen, D.P. \$4.56
- 369 Adjustable Wrench for Ignition Distributor Breaker Box, each .38
Each, D.P. \$0.42
Dozen, D.P. \$4.56
- 117 Cam Lever and Plate for type S-T, each 1.80
Each, D.P. \$2.00
Dozen, D.P. \$21.00
- 371 Cam Lever and Plate for type L, each 1.80
Each, D.P. \$2.00
Dozen, D.P. \$21.00
- 84 Steel Cam for type S-T, 4 and 6 cylinder, each 1.50
Each, D.P. \$1.66
Dozen, D.P. \$18.00
- 85 Steel Plate for Cam Levers Nos. 117 and 371, each .15
Each, D.P. \$0.17
Dozen, D.P. \$1.80

- 372 Steel Cam for type S-T, 2 cylinder, each \$1.80
Each, D.P. \$2.00
Dozen, D.P. \$21.00
- 216 Steel Cam for type L, 4 and 6 cylinder, each 1.50
Each, D.P. \$1.66
Dozen, D.P. \$18.00
- 374 Steel Cam for type RD, RL, 4 and 6 cylinder, each 1.50
Each, D.P. \$1.66
Dozen, D.P. \$18.00
- 375 Steel Cam for type RD, RL, 2 cylinder, each 1.80
Each, D.P. \$2.00
Dozen, D.P. \$21.00
- 330 Steel Brush, type HB, each .75
Each, D.P. \$0.83
Dozen, D.P. \$9.00
- 331 Copper Brush, type HB, each .38
Each, D.P. \$0.42
Dozen, D.P. \$4.56
- 116 Distributor Carbon Brush, type S-L-T, each .15
Each, D.P. \$0.17
Dozen, D.P. \$1.80
- 162 Distributor Carbon Brush, type RD, RL, each .15
Each, D.P. \$0.17
Dozen, D.P. \$1.80

- 340 Distributor Carbon Brush, Ignition Distributor, 4 and 6 cylinder, each 3.30
Each, D.P. \$ 3.63
Dozen, D.P. \$39.60
- 341 Distributor Carbon Brush, Ignition Distributor, 6 cylinder, each 1.5
Each, D.P. \$0.17
Dozen, D.P. \$1.80
- 39 Switch Key, each .08
Each, D.P. \$0.09
Dozen, D.P. \$0.96
- 94 Switch Key, each .15
Each, D.P. \$0.17
Dozen, D.P. \$1.80
- 95 Switch Key, each .08
Each, D.P. \$0.09
Dozen, D.P. \$0.96
- 161 Switch Key, each .08
Each, D.P. \$0.09
Dozen, D.P. \$0.96
- 376 Switch Key, each .30
Each, D.P. \$0.33
Dozen, D.P. \$3.60
- 377 H. T. Term., S-L-T, each .52
Each, D.P. \$0.58
Dozen, D.P. \$6.25
- 378 H. T. Term., RD, each .52
Each, D.P. \$0.58
Dozen, D.P. \$6.25
- 379 H. T. Term., RL, each .52
Each, D.P. \$0.58
Dozen, D.P. \$6.25

Fit Michigan Magnetos

- 219 Platinum Breaker Bar (new), each \$4.65
Each, D.P. \$5.16
Dozen, D.P. \$55.80
- 220 Platinum Breaker Screw, each 2.35
Each, D.P. \$2.62
Dozen, D.P. \$25.20
- 227 Platinum Breaker Bar (old), each 3.75
Each, D.P. \$4.15
Dozen, D.P. \$45.00
- 404 Platinum Breaker Screw, each 2.45
Each, D.P. \$2.72
Dozen, D.P. \$29.40
- 221 Breaker Cam, each 1.50
Each, D.P. \$1.66
Dozen, D.P. \$18.00
- 222 Switch Key, each .12
Each, D.P. \$0.13
Dozen, D.P. \$1.45
- 223 Adjustable Wrench with Gauge, each .12
Each, D.P. \$0.13
Dozen, D.P. \$1.45
- 224 Switch Plug, each .15
Each, D.P. \$0.17
Dozen, D.P. \$1.80

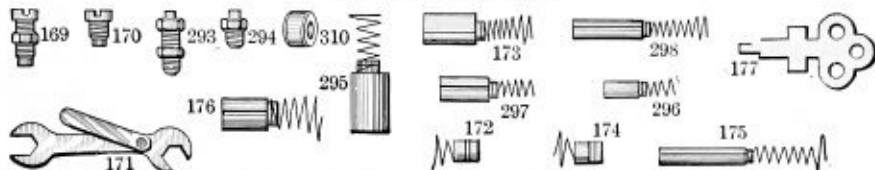


- 225 Carbon Brush, each \$0.12
Each, D.P. \$0.13
Dozen, D.P. \$1.45
- 226 Gauze Brush, each \$0.12
Each, D.P. \$0.13
Dozen, D.P. \$1.45



PLATINUM AND TUNGSTEN CONTACTS

Fit Mea Magnetos

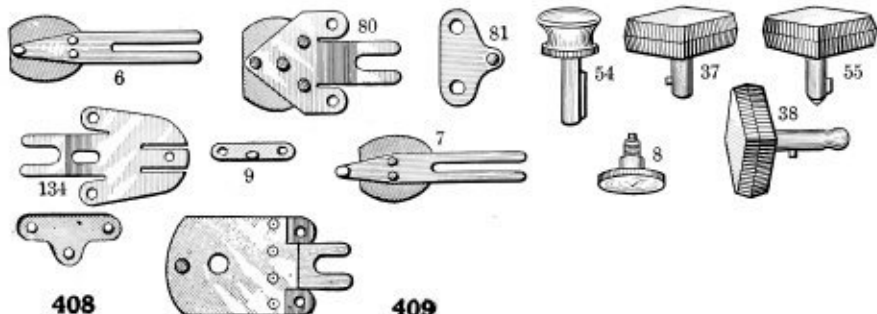


169 Platinum Screw, each	.....\$2.45
Each, D.P. \$2.72 Dozen, D.P.	\$29.20
170 Platinum Screw, each	.....2.45
Each, D.P. \$2.72 Dozen, D.P.	\$29.20
293 Platinum Screw, each	.....2.45
Each, D.P. \$2.72 Dozen, D.P.	\$29.20
294 Platinum Screw, each	.....2.45
Each, D.P. \$2.72 Dozen, D.P.	\$29.20
173 Radial Distributor Brush, BH, BK, 4 and 6 cylinder, each	......15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80

174 Axial Collector Brush, BH, BK, 4 and 6 cylinder, each	.....\$0.15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80
175 H. T. Collector Brush, 4 and 6 cylinder, each	......15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80
176 L. T. Ground Brush, 4 and 6 cylinder, each	......15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80
295 Radial Distributor Brush, 4 cylinder, type A, each	......15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80

296 Axial Collector Brush, 4 cylinder, type A, each	.....\$0.15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80
297 Axial Collector Brush, 6 cylinder, type BH, BK, each	......15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80
298 Axial Collector Brush, 6 cylinder, type A, each	......15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80
310 Fiber Roller, each	......15
Each, D.P. \$0.17 Dozen, D.P.	\$1.80

Fit Heinze Coils

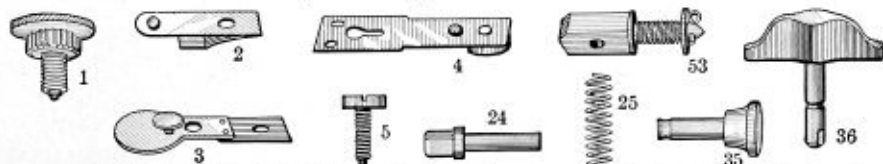


6 Vibrator Spring Platinum, each	.....\$1.15
Each, D.P. \$1.28 Dozen, D.P.	\$13.80
7 Vibrator Spring Platinum, each	.....1.15
Each, D.P. \$1.28 Dozen, D.P.	\$13.80
8 Vibrator Screw Platinum, each	.....1.15
Each, D.P. \$1.28 Dozen, D.P.	\$13.80
9 Vibrator Bridge Platinum, each	......75
Each, D.P. \$0.83 Dozen, D.P.	\$9.00
80 Vibrator Spring Platinum, each	.....1.15
Each, D.P. \$1.28 Dozen, D.P.	\$13.80
81 Vibrator Bridge platinum, each	......95
Each, D.P. \$1.06 Dozen, D.P.	\$11.40

134 Vibrator Spring Platinum, each	.....\$1.15
Each, D.P. \$1.28 Dozen, D.P.	\$13.80
80-T Vibrator Spring, Tungsten, each	......75
Each, D.P. \$0.83 Dozen, D.P.	\$9.00
81-T Vibrator Bridge, Tungsten, each	......55
Each, D.P. \$0.60 Dozen, D.P.	\$6.60
134-T Vibrator Spring, Tungsten, each	......75
Each, D.P. \$0.83 Dozen, D.P.	\$9.00

408 Vibrator Bridge, Tungsten, each	.....\$0.55
Each, D.P. \$0.60 Dozen, D.P.	\$6.60
409 Vibrator Spring, Tungsten, each	......75
Each, D.P. \$0.83 Dozen, D.P.	\$9.00
37 Switch Plug, each	......08
Each, D.P. \$0.09 Dozen, D.P.	\$0.96
38 Switch Plug, each	......08
Each, D.P. \$0.09 Dozen, D.P.	\$0.96
54 Switch Plug, each	......08
Each, D.P. \$0.09 Dozen, D.P.	\$0.96
43 Switch Plug, each	......08
Each, D.P. \$0.09 Dozen, D.P.	\$0.96

Fit Splittorf Spark Coils and Timer



1 Platinum Screw, each	.....\$1.25
Each, D.P. \$1.38 Dozen, D.P.	\$15.00
2 Platinum Spring, each	......75
Each, D.P. \$0.83 Dozen, D.P.	\$9.00
3 Hammer Spring, each	......15
Each, D.P. \$0.15 Dozen, D.P.	\$1.68
4 Platinum Spring, each	.....1.15
Each, D.P. \$1.28 Dozen, D.P.	\$13.80

5 Platinum Screw, each	.....\$1.15
Each, D.P. \$1.28 Dozen, D.P.	\$13.80
24 Timer Plunger Contact, each	......08
Each, D.P. \$0.09 Dozen, D.P.	\$0.96
25 Timer Plunger Contact Spring, each	......05
Each, D.P. \$0.06 Dozen, D.P.	\$0.60

35 Switch Plug, each	.....\$0.08
Each, D.P. \$0.09 Dozen, D.P.	\$0.96
36 Switch Plug, each	......08
Each, D.P. \$0.09 Dozen, D.P.	\$0.96
53 Timer Contact Block, each	......45
Each, D.P. \$0.50 Dozen, D.P.	\$5.40

Fit N. Y. Uni-Coil



336 Platinum Contact Spring, each	.....\$1.90
Each, D.P. \$2.11 Dozen, D.P.	\$22.80

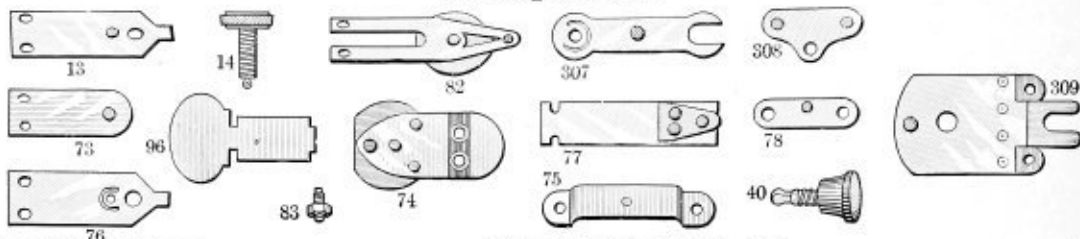
337 Platinum Contact Screw, each	.....\$1.90
Each, D.P. \$2.11 Dozen, D.P.	\$22.80



The GIBSON COMPANY INDIANAPOLIS

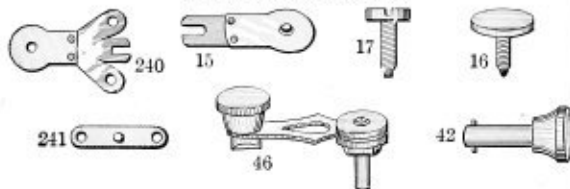
PLATINUM AND TUNGSTEN CONTACTS—Continued

Fit Kingston Coils



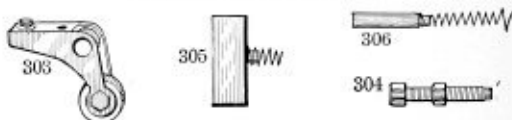
13 Spring Platinum, each	\$0.95	82 Spring Platinum, each	\$1.15
Each, D.P. \$1.06 Dozen, D.P. \$11.40		Each, D.P. \$1.28 Dozen, D.P. \$13.80	
14 Screw Platinum, each	1.15	83 Screw Platinum, each	1.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80		Each, D.P. \$1.28 Dozen, D.P. \$13.80	
73 Spring Platinum, each	1.15	307 Bridge Platinum, each	1.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80		Each, D.P. \$1.28 Dozen, D.P. \$13.80	
75 Spring Platinum, each	1.15	308 Bridge Tungsten, each	.55
Each, D.P. \$1.28 Dozen, D.P. \$13.80		Each, D.P. \$0.60 Dozen, D.P. \$6.60	
76 Spring Platinum, each	.95	309 Spring Tungsten, each	.75
Each, D.P. \$1.06 Dozen, D.P. \$11.40		Each, D.P. \$0.83 Dozen, D.P. \$8.00	
77 Spring Platinum, each	1.15	40 Switch Key, each	.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80		Each, D.P. \$0.17 Dozen, D.P. \$1.80	
78 Bridge Platinum, each	.95	86 Switch Key, each	.08
Each, D.P. \$1.06 Dozen, D.P. \$11.40		Each, D.P. \$0.09 Dozen, D.P. \$0.96	

Fit Pittsfield Coils



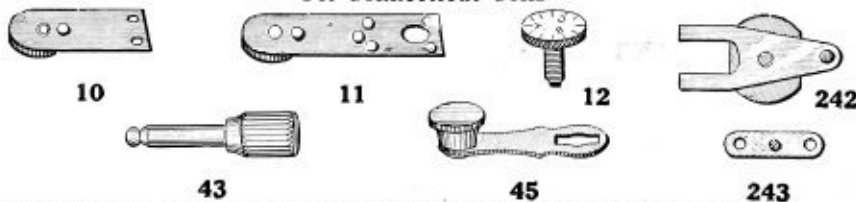
15 Platinum Spring, each	\$1.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80	
16 Platinum Screw, 10/32 thread, each	1.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80	
17 Platinum Screw, 10/40 thread, each	1.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80	
210 Platinum Spring, new style, each	1.35
Each, D.P. \$1.50 Dozen, D.P. \$16.20	
211 Platinum Bridge, new style, each	.95
Each, D.P. \$1.06 Dozen, D.P. \$11.40	
42 Switch Plug, each	.06
Each, D.P. \$0.07 Dozen, D.P. \$0.72	
46 Switch Lever, each	.35
Each, D.P. \$0.28 Dozen, D.P. \$3.00	

Fit Heinze Magnetos



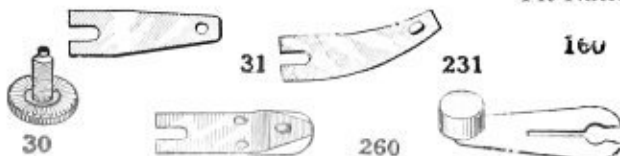
303 Platinum Breaker Bar, each	\$2.80
Each, D.P. \$3.10 Dozen, D.P. \$33.60	
304 Platinum Breaker Screw, each	2.25
Each, D.P. \$2.50 Dozen, D.P. \$27.00	
305 Distributor Carbon Brush, each	.30
Each, D.P. \$0.33 Dozen, D.P. \$3.60	
306 Metal Brush for M. and B., each	.30
Each, D.P. \$0.33 Dozen, D.P. \$3.60	
307 Wrench with Gauge, each	.15
Each, D.P. \$0.17 Dozen, D.P. \$1.80	

Fit Connecticut Coils



10 Platinum Spring, each	\$1.15	45 Switch Lever, each	\$0.12
Each, D.P. \$1.28 Dozen, D.P. \$13.80		Each, D.P. \$0.13 Dozen, D.P. \$1.45	
11 Platinum Spring, each	1.15	242 Platinum Spring, each	1.35
Each, D.P. \$1.28 Dozen, D.P. \$13.80		Each, D.P. \$1.50 Dozen, D.P. \$16.20	
12 Platinum Screw, each	1.15	243 Platinum Bridge, each	1.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80		Each, D.P. \$1.28 Dozen, D.P. \$13.80	
43 Switch Plug, each	.06		
Each, D.P. \$0.07 Dozen, D.P. \$0.72			

Fit National Coils

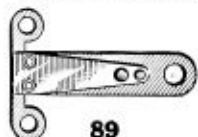


30 Platinum Screw, each	\$1.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80	
31 Platinum Spring (German Silver), each	.95
Each, D.P. \$1.06 Dozen, D.P. \$11.40	
160 Switch Lever, each	.15
Each, D.P. \$0.17 Dozen, D.P. \$1.80	
231 Platinum Spring (Copper Plated), each	1.05
Each, D.P. \$1.16 Dozen, D.P. \$12.00	
240 Platinum Spring, each	1.15
Each, D.P. \$1.28 Dozen, D.P. \$13.80	



PLATINUM CONTACTS

Fit K-W Spark Coils


88

89

98

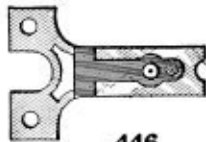
412

438

88 Spring Tungsten, each	.....\$0.55
Each...D.P. \$0.60 Dozen...D.P. \$6.00	
89 Bridge Tungsten, each	..... .75
Each...D.P. \$0.83 Dozen...D.P. \$9.00	
438 Spring Tungsten, each	..... .55
Each...D.P. \$0.60 Dozen...D.P. \$6.00	

98 Switch Plug, each	.....\$0.15
Each...D.P. \$0.17 Dozen...D.P. \$1.80	
412 Adjusting Nut for No. 98, each	..... .08
Each...D.P. \$0.09 Dozen...D.P. \$0.96	

Fit New York Spark Coil


446

445

133

98

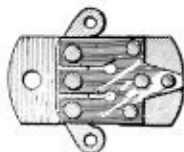
446 Platinum Bottom Spring, each	.....\$1.15
Each...D.P. \$1.28 Dozen...D.P. \$13.80	
445 Platinum Top Spring, each	..... 1.35
Each...D.P. \$1.50 Dozen...D.P. \$16.20	

98 Switch Plug, each	.....\$0.15
Each...D.P. \$0.17 Dozen...D.P. \$1.80	
133 Switch Lever, each	..... .15
Each...D.P. \$0.17 Dozen...D.P. \$1.80	

Fit J. & B. Spark Coils


66

67

125

410

66 Platinum Spring, each	.....\$1.35
Each...D.P. \$1.50 Dozen...D.P. \$16.20	
67 Platinum Bridge, each	..... 1.25
Each...D.P. \$1.40 Dozen...D.P. \$15.60	
125 Platinum Spring, each	..... 1.35
Each...D.P. \$1.50 Dozen...D.P. \$16.20	

410 Platinum Bridge, each	.....\$1.35
Each...D.P. \$1.40 Dozen...D.P. \$15.60	
125 Switch Plug, each	..... .15
Each...D.P. \$0.17 Dozen...D.P. \$1.80	

Fit Rhoades Unit Spark System


335

334

334 Tungsten Contact Spring, each \$1.90	
Each...D.P. \$2.11 Dozen...D.P. \$22.80	
335 Tungsten Contact Screw, each 1.90	
Each...D.P. \$2.11 Dozen...D.P. \$22.80	

Fit Americoil and Detroit Coil

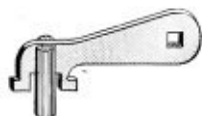

316

317

318

316 Platinum Contact Screw, each \$1.15	
Each...D.P. \$1.28 Dozen...D.P. \$13.80	
317 Platinum Vibrator Spring, each 1.35	
Each...D.P. \$1.50 Dozen...D.P. \$16.20	
318 Platinum Screw for Bridge, each 1.15	
Each...D.P. \$1.28 Dozen...D.P. \$13.80	

Fit Ford Switch



101 Key for Metal Coil Box, each \$0.15	
Each...D.P. \$0.17 Dozen...D.P. \$1.80	

Fit Connecticut Master Vibrators


56

258

259

257

56 Platinum Bridge, each	.....\$1.90
Each...D.P. \$2.11 Dozen...D.P. \$22.80	
57 Platinum Bottom Spring, each	..... 2.30
Each...D.P. \$2.44 Dozen...D.P. \$26.40	
257 Platinum Bridge, each	..... 2.25
Each...D.P. \$2.50 Dozen...D.P. \$27.00	

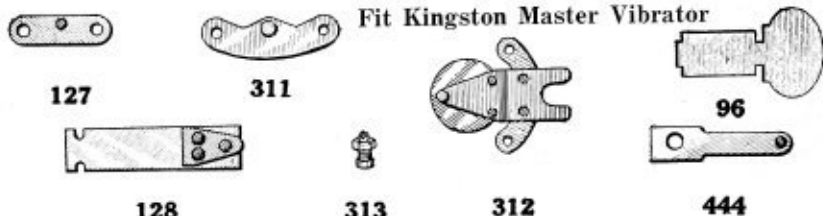
258 Platinum Bottom Spring, each	.....\$2.25
Each...D.P. \$2.50 Dozen...D.P. \$27.00	
259 Switch Lever, each	..... .53
Each...D.P. \$0.58 Dozen...D.P. \$6.35	



The GIBSON COMPANY INDIANAPOLIS

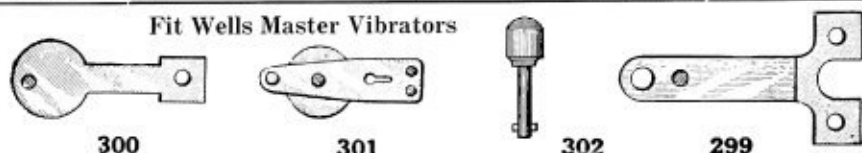
PLATINUM CONTACTS—Continued

Fit Kingston Master Vibrator



127 Tungsten Bridge, each	..... \$1.30	312 Tungsten Spring, each	..... \$2.20
Each, D.P. \$2.11	Dozen, D.P. \$22.80	Each, D.P. \$2.44	Dozen, D.P. \$26.40
128 Tungsten Spring, each	..... 1.90	313 Tungsten Screw for Bridge, each	..... 1.90
Each, D.P. \$2.11	Dozen, D.P. \$22.80	Each, D.P. \$2.11	Dozen, D.P. \$22.80
311 Tungsten Bridge, each	..... 2.20	96 Switch Key, each	..... .08
Each, D.P. \$2.44	Dozen, D.P. \$26.40	Each, D.P. \$0.09	Dozen, D.P. \$0.96

Fit Wells Master Vibrators

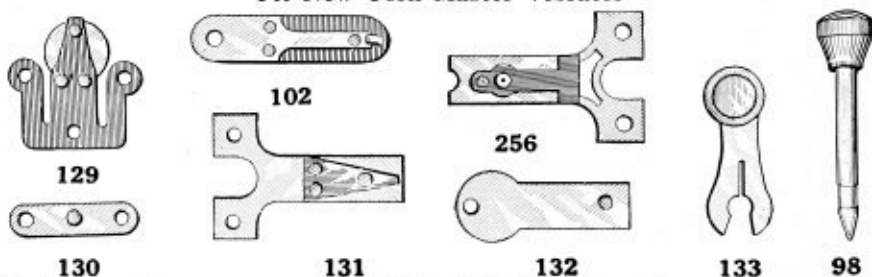


299 Tungsten Bridge, each	..... \$2.25	302 Switch Key, each	..... \$0.15
Each, D.P. \$2.50	Dozen, D.P. \$27.00	Each, D.P. \$0.17	Dozen, D.P. \$1.80
300 Tungsten Bottom Spring, each	..... 1.90	414 Adjustable Nut for No. 299, each	..... .08
Each, D.P. \$2.11	Dozen, D.P. \$22.80	Each, D.P. \$0.09	Dozen, D.P. \$0.96
301 Tungsten Bottom Spring, each	..... 2.35		
Each, D.P. \$2.62	Dozen, D.P. \$28.20		



136 Tungsten Screw, each	..... \$1.90	415 Tungsten Bridge, each	..... \$1.90
Each, D.P. \$2.11	Dozen, D.P. \$22.80	Each, D.P. \$2.11	Dozen, D.P. \$22.80
137 Tungsten Spring, each	..... 1.90	140 Switch Plug, each	..... .08
Each, D.P. \$2.11	Dozen, D.P. \$22.80	Each, D.P. \$0.09	Dozen, D.P. \$0.96
239 Tungsten Spring, each	..... 1.90		
Each, D.P. \$2.11	Dozen, D.P. \$22.80		

Fit New York Master Vibrator



129 Platinum Top Spring, each	..... \$2.35	133 Switch Lever, each	..... \$0.15
Each, D.P. \$2.62	Dozen, D.P. \$27.20	Each, D.P. \$0.17	Dozen, D.P. \$1.80
132 Platinum Bottom Spring, each	..... 2.35	102 Platinum Bottom Spring, each	..... 2.35
Each, D.P. \$2.62	Dozen, D.P. \$27.20	Each, D.P. \$2.62	Dozen, D.P. \$28.20
256 Platinum Top Spring, each	..... 2.35	129 Platinum Bottom Spring, each	..... 2.35
Each, D.P. \$2.62	Dozen, D.P. \$27.20	Each, D.P. \$2.62	Dozen, D.P. \$28.20
98 Switch Plug, each	..... .15	130 Platinum Bridge, each	..... 1.90
Each, D.P. .17	Dozen, D.P. \$1.80	Each, D.P. \$2.11	Dozen, D.P. \$22.80

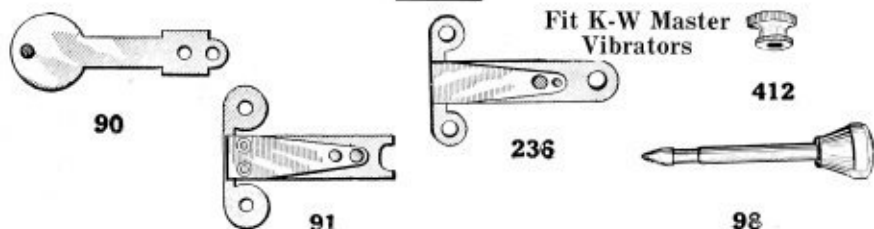
Fit Connecticut Distributor



440 Tungsten Breaker Arm, each	..... \$2.85
Each, D.P. \$3.16	Dozen, D.P. \$34.20
441 Tungsten Breaker Screw, each	..... 1.05
Each, D.P. \$1.16	Dozen, D.P. \$12.00
442 Square Distributor Brush, each	..... .15
Each, D.P. \$0.17	Dozen, D.P. \$1.80
443 Round Distributor Brush, each	..... .15
Each, D.P. \$0.17	Dozen, D.P. \$1.80

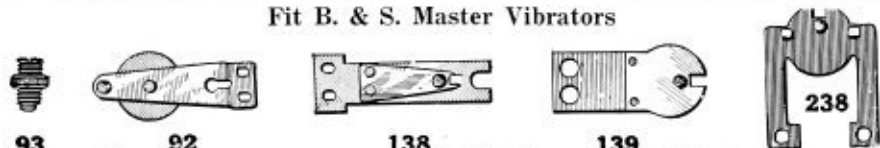


PLATINUM CONTACTS—Concluded



90 Platinum Bottom Spring, each	\$2.65	236 Platinum Top Spring, each	\$0.27
Each, D.P. \$2.94 Dozen, D.P. \$31.80		Each, D.P. \$0.30 Dozen, D.P. \$3.24	
91 Platinum Top Spring, each	2.70	412 Adjusting Nut for Nos. 91 and 236, each .....	.08
Each, D.P. \$3.00 Dozen, D.P. \$32.40		Each, D.P. \$0.09 Dozen, D.P. \$0.96	
98 Switch Plug, each .....	.12		
Each, D.P. \$0.13 Dozen, D.P. \$1.45			

Fit B. & S. Master Vibrators



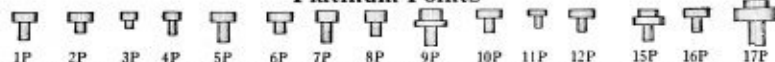
92 Platinum Spring, each	\$2.35	139 Platinum Spring, (bottom), each	\$2.35
Each, D.P. \$2.60 Dozen, D.P. \$28.20		Each, D.P. \$2.60 Dozen, D.P. \$28.20	
93 Platinum Screw, each	1.90	238 Platinum Spring (new), each	2.35
Each, D.P. \$2.11 Dozen, D.P. \$22.80		Each, D.P. \$2.60 Dozen, D.P. \$28.20	
138 Platinum Spring (top), each	2.35	412 Adjusting Nut, each .....	.08
Each, D.P. \$2.60 Dozen, D.P. \$28.20		Each, D.P. \$0.09 Dozen, D.P. \$0.96	

Fit Delco



141 Tungsten Lever for Magneto Side, each	\$2.85	421 Switch Key, each	\$0.22
Each, D.P. \$3.16 Dozen, D.P. \$34.20		Each, D.P. \$0.24 Dozen, D.P. \$2.64	
418 Platinum Lever for Battery Side, each	1.90	420 Switch Key, each .....	.38
Each, D.P. \$2.11 Dozen, D.P. \$22.80		Each, D.P. \$0.42 Dozen, D.P. \$4.56	
142 Tungsten Screw for Magneto Side, each	1.95	421 Switch Key, each .....	.15
Each, D.P. \$2.16 Dozen, D.P. \$23.40		Each, D.P. \$0.17 Dozen, D.P. \$1.80	
419 Platinum Screw for Battery Side, each	1.90	320 Adjusting Wrench with Gauges, each .....	.22
Each, D.P. \$2.11 Dozen, D.P. \$22.80		Each, D.P. \$0.24 Dozen, D.P. \$2.64	
422 Tungsten Lever for Magneto Side, each	2.85		
Each, D.P. \$3.16 Dozen, D.P. \$34.20			

Platinum Points



1P for Remy Screws (old style), each	\$1.65	10P for K. W. Master Vibrator, each	\$1.90
Each, D.P. \$1.84 Dozen, D.P. \$19.80		Each, D.P. \$2.11 Dozen, D.P. \$22.80	
2P for Remy Springs (old style), each	1.65	11P for all Ford Coil Screws and Springs, each .....	.85
Each, D.P. \$1.84 Dozen, D.P. \$19.80		Each, D.P. \$0.95 Dozen, D.P. \$10.20	
3P for Vibrating Coil Springs, each .....	.85	12P Special Size, suitable for any Magneto or M. V. part, each	1.60
Each, D.P. \$0.95 Dozen, D.P. \$10.20		Each, D.P. \$1.77 Dozen, D.P. \$19.20	
4P for Vibrating Coil Screws, each .....	.85	15P for Herz Magneto Springs, each	1.65
Each, D.P. \$0.95 Dozen, D.P. \$10.20		Each, D.P. \$1.84 Dozen, D.P. \$19.80	
5P for Remy, Bosch, Eisemann Magneto Screws, each	1.65	16P for B. and S. Master Vibrator, each	1.65
Each, D.P. \$1.84 Dozen, D.P. \$19.80		Each, D.P. \$1.84 Dozen, D.P. \$19.80	
6P for Remy, Eisemann Magneto Screws, each	1.65	17P Platinum head welded to steel stud of special design to be used in places of short screw on any inter-rupter lever of any make of magneto, each	2.25
Each, D.P. \$1.84 Dozen, D.P. \$19.80		Each, D.P. \$2.50 Dozen, D.P. \$27.00	
7P for Splittorf Magneto Breaker Screws, each	1.90		
Each, D.P. \$2.11 Dozen, D.P. \$22.80			
8P for Splittorf Magneto Breaker Bars, each	1.90		
Each, D.P. \$2.11 Dozen, D.P. \$22.80			
9P for Splittorf Magneto Breaker Bars, each	1.95		
Each, D.P. \$2.11 Dozen, D.P. \$22.80			

Genuine Tungsten Points

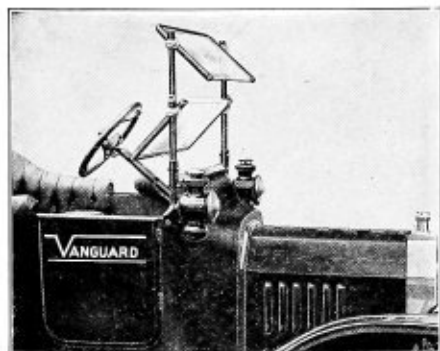
20T for all Ford Vibrators, each	\$0.50	22T for Kingston Master Vibrator, each	1.90
Each, D.P. \$0.55 Dozen, D.P. \$6.00		Each, D.P. \$2.11 Dozen, D.P. \$22.80	
21T for J. & B. and Well's Master Vibrator, each .....	.95	23T for Delco, each	1.90
Each, D.P. \$1.06 Dozen, D.P. \$11.40		Each, D.P. \$2.11 Dozen, D.P. \$22.80	
22T for Delco, each	1.90		
Each, D.P. \$2.11 Dozen, D.P. \$22.80			



WIND SHIELDS

Adjustable Type

For 1915 and 1916 Ford Cars



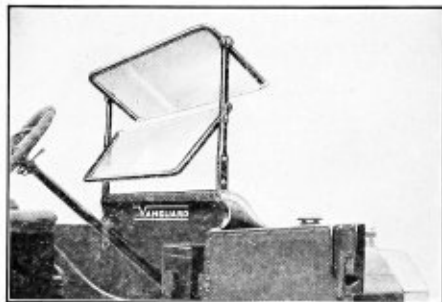
Model Z-15 Ford Wind Shield, with plate glass only, 39½ inches wide, 24 inches high, each...\$10.00
Each...D.P. \$16.66

It is not provided with brackets or cross bar, and was designed to fit into the brackets on the car when the non-ventilating shield was removed. The side members fit into the brackets and are drilled when in position for inserting the bolts which are furnished. This construction allows the shield to be attached without disturbing the brackets attached to the body.

Model Z-16 Ford Wind Shield, with plate glass only, 39½ inches wide, 24 inches high, each...\$10.00
Each...D.P. \$16.66

The persistent demand for the Adjustable Shield, complete with brackets and cross bar, has caused the manufacturers to produce this shield. It will be furnished complete with brackets and cross bar assembled, and is an improvement and superior to others, as the cross bar is fitted with a rubber filler strip which comes in contact with the lower frame and makes the shield absolutely weatherproof when closed. Another advantage is that the holes in the brackets are oblong so that the shield is attached without filing the holes in the body, re-drilling or otherwise marring, and is more easily attached. Loops for top straps in proper position are provided. The stanchions or side members of this model are of extra heavy steel, which prevents breaking where inserted in the brackets.

De Luxe Cowl Type For 1914 Ford Cars



Model V-15 Ford Wind Shield, plate glass only, 40½ inches wide, each...\$12.50
Each...D.P. \$20.84

The need for a shield and cowl combined to bring the 1914 Ford cars up to date, was responsible for the designing of this model.

This shield is clear view, rain vision and ventilating, and is equipped with the best quality of plate glass only. It is easily attached and all necessary equipment is furnished. Loops for top strap snaps are provided in proper position.

The cowl is 40½ inches wide and will fit any car with straight dash which is of the same width from outside to outside at a point just in front of the fore doors.

It is beautifully designed, adds greatly to the appearance of the car, and gives the older Fords the stream-line effect of the late model.

Straight Type



Model 10-C Wind Shield, 42 inches wide, 27½ inches high, with coach glass, each...\$10.00
Each...D.P. \$16.66

Model 74-C Wind Shield, 38 inches wide, 25½ inches high, with coach glass, each...\$10.00
Each...D.P. \$16.66

Model 75-C Wind Shield, 42 inches wide, 27½ inches high, with coach glass, each...10.00
Each...D.P. \$16.66

Model No. 10 is the regular equipment furnished the Ford Motor Company for their 1911 and 1912 cars. We do not furnish filler board with model No. 10, but all necessary parts for attaching are furnished.

The No. 74 and No. 75 models are furnished with 6 x 36-inch ebony finished filler boards unless otherwise specified, as well as all other necessary equipment for attaching, including straight stay rods 5 feet long. Rubber filler strips will be supplied in lieu of filler boards when specified.

Zig Zag Type



Model 12-C Wind Shield, 42 inches wide, 27½ inches high, with coach glass, each...\$10.00
Each...D.P. \$16.66

Model 77-C Wind Shield, 38 inches wide, 25½ inches high, with coach glass, each...10.00
Each...D.P. \$16.66

Model 78-C Wind Shield, 42 inches wide, 27½ inches high, with coach glass, each...10.00
Each...D.P. \$16.66

Model No. 12 is an exact duplicate of shields furnished for the regular 1913 and 1914 Ford cars. It is made with the dividing bars used on the 1914 shield and folds toward the driver.

We do not furnish filler boards with Model No. 12, but all necessary parts for attaching are supplied, including 18-inch curved rods for attaching to body.

With Models No. 77 and No. 78 we furnish ebony finished filler boards which are 36 inches long and 6 inches wide, and all other necessary parts for attaching, including stay rods 42 inches long. Where filler board is not desired we furnish a rubber filler strip when specified.



WIND SHIELDS, CLEANERS AND STEER WARMS

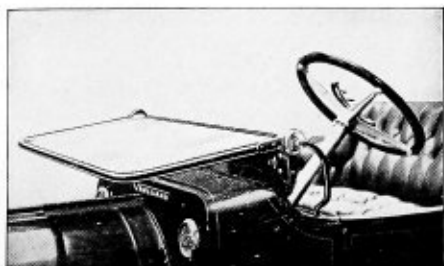
RAIN VISION AND VENTILATING TYPE



Model A-14 Wind Shield, 42 inches wide, 24 inches high, plate glass (may also be had 38 inches wide), each\$25.00
Each..D.P. \$41.66

This is the Vanguard General Utility Shield. It is the rain vision, clear view and ventilating type. The upper section is designed to fold down in different positions as desired. The shield is fitted with a sub-frame which clamps firmly to the dash and is securely braced with stay rods. The sub-frame is fitted with rubber insert which effectively weatherproofs the lower section when closed.

ONE-PIECE TORPEDO TYPE



Model B-30 Wind Shield, 40 inches wide, 17½ inches high, plate glass, each.....\$15.00
Each..D.P. \$25.00

This shield is 40 inches wide and 17½ inches high. When specified we can furnish it 36 inches wide and 17½ inches high. It can be inclined toward the driver at an angle of about 15 degrees. This will allow circulation of air throughout the car. It is very popular for use upon cars of the speedster type. When not needed it can be folded forward parallel with the hood. We ship 40-inch unless 36-inch is specified.

It is finished in plate glass only and all necessary parts for attaching, including 8 x 40-inch ebony finished filler board are furnished.

Security Wind Shield Cleaner

The Security Cleaner is an adaptation of the rubber squeegee used for cleaning show windows. It is automatically attached on the upper frame of the shield. A rubber strip presses firmly against the outside surface of the glass and a guiding arm inside prevents rattling.

When your vision is blurred, the Security obviates the necessity of lowering the shield and exposing yourself to the storm, or leaving your seat, or removing both hands from the wheel for the purpose of wiping the glass. Draw the cleaner once across the glass and every particle of dust, every drop of rain or every flake of snow will be instantaneously removed. It is so compact that it will not interfere with the folding or operation of the shield and it is so inconspicuous that it may be kept on the shield as a permanent fixture.

Security Wind Shield Cleaner, nicked finish, each.....\$2.00
Each..D.P. \$2.95



Outlook Wind Shield Cleaner



The Outlook Cleaner fits any wind shield, attached in two minutes; fastened to top or side of shield; left on car the year round; has an adjustable wiper; weight about 12 ounces; best grade of rubber used; black or nickel finish; cleans without leaving seat.

Either finish, each.....\$1.50
Each..D.P. \$2.48

Steer Wars

This illustration shows a pair of Steer Wars installed on an Overland Car

Ieco Steer Wars consist of two neat leather covered grips, one for each hand, which lace on the steering wheel at convenient places for driving. The inventor of Steer Wars has very cleverly placed special resistance wires between two copper plates in such a way that a very small current is sufficient to keep the grip warm. Furthermore, after the grips reach a certain temperature, they will get no hotter, but will retain this same heat as long as the current is turned on.

Steer Wars can be attached to any make of car in ten minutes. There are no bolts or screws; no holes to bore. Lace on; wire up—that's all.

Ieco Steer Wars for Ford, pair.....\$5.00
Per Pair..D.P. \$7.77
Ieco Steer Wars for other cars, pair..... 7.50
Per Pair..D.P. \$11.66

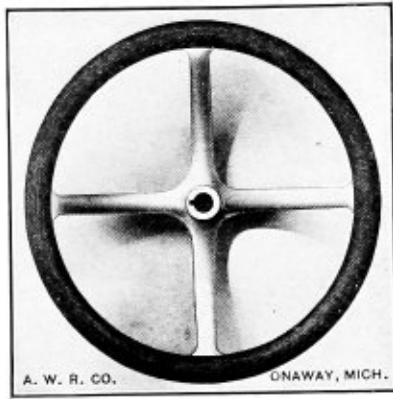




The GIBSON COMPANY INDIANAPOLIS

STEERING WHEELS AND COVERS

The Ford Steering Wheel



- 16-inch Ford Steering Wheel, black enameled, malleable iron spider on walnut stained maple corrugated rim, each.....\$3.00
Each...D.P. \$5.00
- 17-inch Ford Steering Wheel, black enameled, malleable iron spider on walnut stained maple corrugated rim, each..... 3.50
Each...D.P. \$5.55
- 18-inch Steering Wheel, black enameled, malleable iron spider with 1/2-inch hole in hub, walnut stained maple corrugated rim, each..... 5.00
Each...D.P. \$8.32

It is impossible to carry steering wheels to fit all cars, but the 18-inch wheel described above has a 3/4-inch hole in the hub that any mechanic with proper tools can enlarge to any desired size.

The Gemco Tilting Steering Wheel



The Gemco Tilting Steering Wheel for Ford fits the steering column without any mechanical changes, as the spiders are machined to fit. The standard steering wheel supplied by Ford is only 15 inches and, as the larger wheel means greater leverage, this 17-inch wheel has proven very popular with Ford owners. The tilting feature has met with great favor.

- No. 3 Gemco Ford Tilting Steering Wheel, 17-inch, with plain rim, each.....\$ 4.25
Each...D.P. \$6.33
- No. 4 Gemco Ford Tilting Steering Wheel, 17-inch, with corrugated rim, each..... 5.25
Each...D.P. \$7.77
- No. 18 Gemco Overland Tilting Steering Wheel, with 18-inch black corrugated rim, each..... 10.00
Each...D.P. \$14.82
- No. 19 Gemco Dodge Tilting Steering Wheel, with 17-inch black corrugated rim, each..... 5.50
Each...D.P. \$8.15
- No. 20 Gemco Reo Tilting Steering Wheel, with 17-inch black corrugated rim, each..... 5.50
Each...D.P. \$8.15
- No. 21 Gemco Maxwell Tilting Steering Wheel, with 17-inch black corrugated rim, each..... 5.50
Each...D.P. \$8.15

The Neville More-Room Steering Wheel



The Neville More-Room Steering Wheel appeals to every one because it gives eight inches more clearance under steering wheel in getting in or out of car; it makes entering or leaving the driver's seat a pleasure, even when wearing a heavy overcoat; it makes the closed car as roomy as a touring car with top down; it allows room for the use of robe and arranging same easily, and on account of the simplicity of operation, which is as follows: Touch the button to release the lock catch. Slide the wheel up out of the way until the catch holds. Driver enters or leaves car easily with eight inches more room between wheel and seat. Touch the button and the wheel slides back into driving position and locks the catch. Prices as follows:

- 17-inch Ford Type, corrugated rim, walnut finish, each.....\$6.00
Each...D.P. \$10.00
- 17-inch Ford Type, corrugated rim, walnut finish, with thief-proof steering post lock, each.....\$8.00
Each...D.P. \$12.77
- 18-inch Regular Type, corrugated rim, walnut finish, each..... 9.50
Each...D.P. \$15.84

We carry the Neville Wheels in stock for Ford (17-inch) and for Overland 83 (18-inch), bored ready for attaching, also in 18-inch with blank center that any mechanic with proper tools can drill out to size desired.

Rubber Steering Wheel Covers

These covers lace over the steering wheel. They give a positive gripping surface and relieve the hands from all vibration. They are made from high grade red rubber.



- Rubber Steering Wheel Covers for 17-inch or less, each.....\$2.00
Each...D.P. \$3.32
- Rubber Steering Wheel Covers for 18-inch or larger, each..... 2.25
Each...D.P. \$3.66



LICENSE BRACKETS

Neverout License Brackets for front and rear license tags. Hold license tags firmly in position and illuminate rear numbers as required by law. Made for every style of car. Furnished in black enamel.



Front License Bracket

No. 36—For cars with round fillers, attaches directly to water filler tube, each\$0.35
Each...D.P. \$0.48



Front License Bracket

No. 77—For all cars with oval fillers, attaches directly to water filler tube, each\$0.35
Each...D.P. \$0.40



Rod License Bracket

No. 178—For attaching to any rod between headlights. Because of single grip can be used on curved or straight rods, each\$0.25
Each...D.P. \$0.33



Combination Rear Lamp and License Tag Holder

No. 62—Interchangeable type, fits majority of brackets on rear of cars, each\$0.35
Each...D.P. \$0.48



Ford Front License Bracket

No. 871—Attaches to Ford headlight bracket when tag is not over 15 inches long, each\$0.25
Each...D.P. \$0.33



Combination Ford Rear Lamp and License Tag Holder

No. 621—Interchangeable type for Ford cars. Flat prop. made for lamps that do not have combination sockets and require flat prop. Each\$0.35
Each...D.P. \$0.48

ATTACHES TO OVAL RADIATOR FILLER



PATENT LICENSE BRACKET No. 76
PATENT INTERCHANGEABLE SYSTEM

No. 76—For all cars with oval fillers, attaches directly to water filler tube, each\$0.35
Each...D.P. \$0.40



Patent License Bracket No. 87
Patent Interchangeable System

No. 87—Attaches to Ford headlight bracket when tag is not over 15 inches long, each\$0.35
Each...D.P. \$0.40



THE NEVEROUT INTERCHANGEABLE FRONT LICENSE BRACKET
Painted in U.S. and Principal Foreign Countries

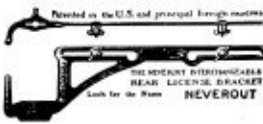
No. 9 Regular—Fits water filler on majority of cars. Attaches directly to water filler tube, each\$0.50
Each...D.P. \$0.55



No. 8—Large size for all cars with extra large fillers. Attaches directly to water filler tube, each\$0.50
Each...D.P. \$0.55



No. 78—For attaching to any rod between headlights. Because of single grip can be used on curved or straight rods, each\$0.35
Each...D.P. \$0.40



No. 22 Regular—Fits majority of brackets on rear of cars, each\$0.50
Each...D.P. \$0.55



No. 12—Special prop. adapted for cars having large fenders, where lamp will not fit when placed on regular bracket, each\$0.50
Each...D.P. \$0.55



No. 0-21—Flat prop. made for lamps that do not have combination sockets and require flat prop. each\$0.50
Each...D.P. \$0.55



No. 95—License Brackets to hold plate suspended from rod between headlights. This type admits of many positions, per pair\$0.25
Per Pair...D.P. \$0.27

No. 97—Ford License Brackets, to be held by front spring bolts, as shown in illustration, per pair.....\$0.23
Per Pair...D.P. \$0.27

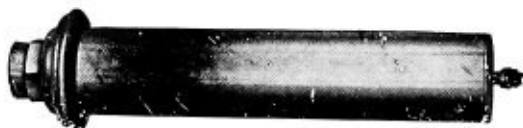


The GIBSON COMPANY INDIANAPOLIS

HORNS AND ATTACHMENTS

Gemco Exhaust Horns

THE MELODY



Due to careful workmanship and exhaustive tests the tone of this horn is far richer and more melodious than any similar horn on the market. A very weak exhaust will easily blow it. All horns are tapped to fit 1-inch standard pipe. Attached and operated by means of various valves shown on page 18.

The large No. 1 Horn is intended for large motors, and the small size, No. 2, for cars such as the Ford, Studebaker, Overland, Empire, etc.

No. 1 Gemco Exhaust Horn, 2½ x 14 inches, each... \$3.50
Each... D.P. \$4.77

No. 2 Gemco Exhaust Horn, 2 x 10 inches, each... 2.50
Each... D.P. \$3.55

Maxim—The Perfect Buzzer Horn



The Maxim Vibrator Horn is a wonderful warning signal, excelling in its class for its sound and for its permanent and efficient service. Is neat in appearance, simple in construction and has a loud and pleasing tone.

Maxim Horn, black and brass, each... \$3.50
Maxim Horn, black, each... 3.50
Each... D.P. \$4.66 Per Dozen... D.P. \$53.33

Bulbs



- No. 8. Horn Bulb, size 3½x5, with brass mountings, each \$0.75
Each... D.P. \$0.80 Per Dozen... D.P. \$8.88
- No. 18. Horn Bulb, size 3½x5, with nickel mountings, each80
Each... D.P. \$0.88 Per Dozen... D.P. \$9.66
- No. 12. Horn Bulb, size 3½x5½, with brass mountings, each90
Each... D.P. \$1.11 Per Dozen... D.P. \$12.00
- No. 112. Horn Bulb, size 3½x5½, with nickel mountings, each 1.00
Each... D.P. \$1.22 Per Dozen... D.P. \$13.32
- No. 15. Horn Bulb, size 4x6½, with brass mountings, each 1.00
Each... D.P. \$1.32 Per Dozen... D.P. \$14.66
- No. 115. Horn Bulb, size 4x6½, with nickel mountings, each 1.10
Each... D.P. \$1.44 Per Dozen... D.P. \$16.00
- Ford Horn Bulbs, each..... .75
Each... D.P. \$1.00 Dozen... D.P. \$11.10

Reeds



No. 20. Horn Reeds, tapered, each \$0.20
Per Dozen... D.P. \$2.22



- No. 25 Horn Reed soldered with nipple, one end fits horn, other tube. Brass mounting; guaranteed; put up in separate boxes, each \$0.30
Per Dozen... D.P. \$3.77
- No. 26. Same as No. 25, only nickeled finish, each. .35
Per Dozen... D.P. \$4.00
- No. 27. Same as No. 25, only black finish, each... .35
Per Dozen... D.P. \$4.00
- No. 28. Horn Reed with double end bushing for use in center of tube, brass finish, each..... .30
Per Dozen... D.P. \$3.77
- No. 29. Same as No. 28, only nickeled finish, each. .35
Per Dozen... D.P. \$4.00
- No. 30. Same as No. 28, only black finish, each.... .35
Per Dozen... D.P. \$4.00



KLAXON HORNS

There is a Klaxon for every kind and size of automobile—for trucks, motorcycles, motor boats.



Klaxon Type L, each.....\$20.00
(Long projector)



Klaxon Type S, each.....\$20.00
(Short projector)



Klaxonet, each\$15.00



Underhood Klaxet, each.....\$6.00
(Black only)

The Type L Klaxon is the largest of the Klaxons. It is the one you see on all high priced cars. You can always tell it.

The right angle construction distinguishes it from all other signals. No other signal even looks like it; no other signal sounds like it.

Smaller Klaxons

The Klaxonet at \$15.00 and the Underhood Klaxet at \$6.00 are smaller Klaxons operating on the same principle. And for cars like the Ford that do not have electricity, there is the Hand Klaxon at \$7.50 and the Hand Klaxonet at \$4.00.

Klaxons for Motorcycles

The Klaxet, the Hand Klaxon and Hand Klaxonet are supplied with short projectors and handle bar, frame or tank brackets.

Klaxon Finishes

The smart finish is "Klaxon black"—black enamel throughout. It is not only the fashionable finish, but also the most practical finish—requires no polishing or attention. Unless otherwise specified, instruments are supplied in this finish. To meet special requirements they can be had in black enamel and nickel or black enamel and brass. The electric Klaxons are supplied complete with push button and 10 feet of double insulated wire. They are regularly wound for six volts. For special voltages up to 21 volts no extra charge is made.



Underhood Klaxon, each....\$12.00
(Black only)



Hand Klaxon, each.....\$7.50



Hand Klaxonet, each.....\$4.00

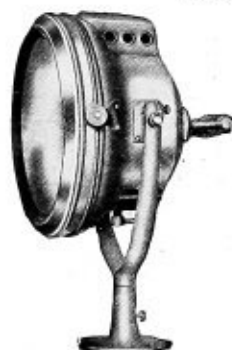


Hand Klaxonet, each.....\$4.00
(Motorcycle type)



GAS LAMPS

Gas Searchlight



No. 176—Deck Base



No. 98—Dash Base

This lamp is made of very heavy gauge brass finished in black and nickel, short coupled and in one piece equipped with genuine Mangin mirror and silver front reflector. Has solid brass fork brackets, black enameled, which allow vertical and lateral movements, and is provided with thumb nuts to lock in any position desired.

- No. 176 Gas Searchlight, 8½-in. front, black and nickel finish, with deck base, each.....\$ 9.50
Each...D.P. \$13.88
- No. 276 Same as above with dash base for use on commercial trucks or motor cars, each..... 9.50
Each...D.P. \$13.88
- No. 177 Gas Searchlight, 9½-in. front, black and nickel finish, with deck base, each..... 9.75
Each...D.P. \$14.44
- No. 277 Same as above with dash base for use on commercial trucks or motor cars, each..... 9.75
Each...D.P. \$14.44
- No. 98 Gas Searchlight, diameter 11 in., with 7-in. Mangin mirror, made of heavy gauge brass and heavy malleable iron; swivel brackets. Specially for use on trucks. Will stand the most severe road tests. Finish black and nickel; dash base. Each..... 13.50
Each...D.P. \$20.00



Electric Searchlight

Torpedo Type

This lamp is made of extra heavy gauge brass, finished in black and nickel, with genuine silver-plated parabolic reflector and Ediswan base. Has solid brass black enameled fork brackets which allow vertical and lateral movements and can be locked in any position desired.

- No. 166 Electric Searchlight, 8½-in. front, black and nickel finish, with deck base, each.....\$8.75
Each...D.P. \$12.77
- No. 266 Same as above with dash bracket, each... 8.75
Each...D.P. \$12.77
- No. 167 Electric Searchlight, 9½-in. front, black and nickel finish, with deck base, each..... 9.00
Each...D.P. \$13.33
- No. 267 Same as above with dash bracket, each... 9.00
Each...D.P. \$13.33

Gas Headlights



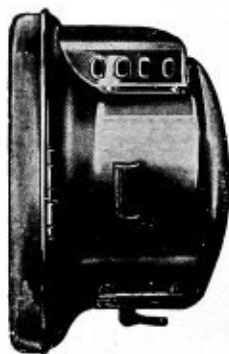
8-inch Gas

Lights both sides of the road by means of the beveled silvered reflector in addition to the spotlight which is thrown far ahead by the large ground glass Mangin mirror.

Front glass is heavy gauge and held in place by beveled silvered reflector.

The large Mangin mirror is held in place by three screws and lugs, instantly removable.

- No. 8 Gas Headlight, 8-in. front, 5-in. Mangin mirror, 7-inch prop center, finish black and brass, per pair\$7.00
Per pair...D.P. \$10.00
- No. 80 Same as No. 8, black and nickel, per pair... 8.50
Per pair...D.P. \$10.00



10-inch Gas

Latest model of gas headlight, close coupled type—far superior to anything on the market, in the way of medium priced lamp. It is compact, large in diameter and short in length. One-piece body, made of heavy gauge material throughout, and will stand all kinds of hard usage. Easy to clean and will give a most brilliant light.

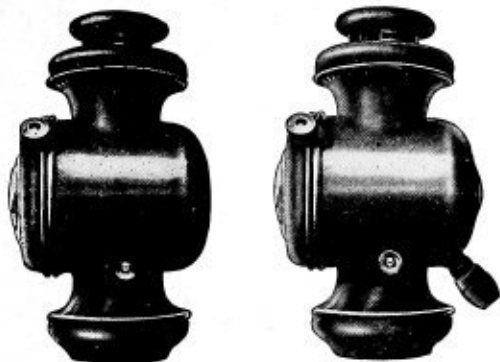
Genuine ground glass mirror and silvered front reflector. All parts interchangeable and easily removed for cleaning or repairs. This lamp will appeal to manufacturer, dealer and consumer.

- No. 10 Gas Headlight, 10-in. front, 6-in. Mangin mirror, 8½-in. prop center, finish black and brass, per pair.....\$10.00
Per pair...D.P. \$14.44
- No. 100 Same as No. 10, black and nickel, per pair 10.00
Per pair...D.P. \$14.44



LAMPS

Oil, Side and Tail Lamps



Nos. 426 and 126

Nos. 526 and 326

This new type lamp is beautiful in design, die work construction throughout, all parts interchangeable and fitting perfectly.

Oil pot locks with a simple turn of the wrist. Semaphore lens used, retained by a snap ring; door fastened by a spring catch and a knurled nut.

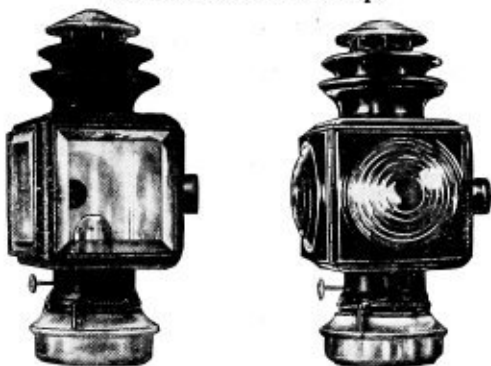
No. 426 Oil Side Lamp, height 8½ inches, body 4x4½, fitted with red jewel in rear, finished all black, per pair.....\$4.00
Per pair...D.P. \$6.66

No. 526, same as No. 426 only combination oil and electric, per pair..... 5.00
Per pair...D.P. \$8.33

No. 126 Oil Side Lamp, height 8½ inches, body 4x4½, fitted with red jewel in rear, finish black and nickel, per pair..... 4.00
Per pair...D.P. \$6.66

No. 326, same as No. 126 only combination oil and electric, per pair..... 5.00
Per pair...D.P. \$8.33

Oil, Side and Tail Lamps



Nos. 22 and 122

Nos. 23 and 123

Square Side Oil Lamp—Suitable for all types of cars and has a very attractive appearance. Prop riveted through heavy steel plates on the inside. The strongest possible construction. Will not leak oil and has many other exclusive features.

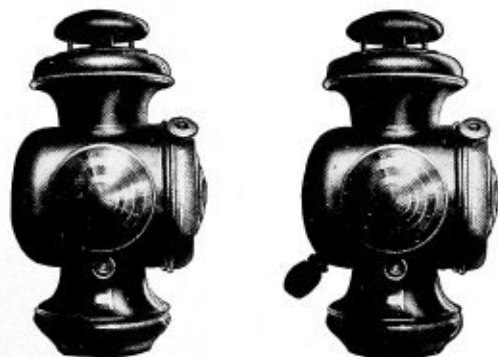
Square Tail Oil Lamp—An absolutely dependable tail lamp, suitable for large or small cars. Fitted with Red Semaphore, Green Semaphore and White Semaphore lenses. Cold blast method of draft. Extra heavy gauge. The most attractive tail lamp on the market. The door swings outward and when the match is inserted it is on a parallel line with the wick. A vertical ball of fire on the rear of any car.

No. 22 Oil Side Lamp, height 11¼ inches, body 4½x4½, finish all black, per pair.....\$5.00
Per pair...D.P. \$7.77

No. 122, same as No. 22, black and nickel finish, per pair 5.00
Per pair...D.P. \$7.77

No. 23 Oil Tail Lamp, height 11½ inches, body 4½x4½, finish black, each..... 2.50
Each...D.P. \$3.88

No. 123, same as No. 23, black and nickel finish, each..... 2.50
Each...D.P. \$3.88



Nos. 424 and 124

Nos. 524 and 324

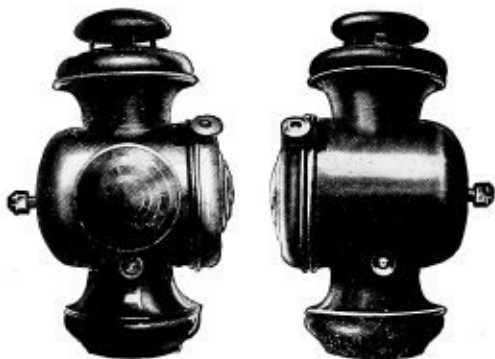
This lamp is vibration proof. It is almost indestructible—made of heavy steel, tin-coated to prevent rusting.

No. 424 Oil Tail Lamp, height 8½ inches, body 4x4½, both crystal and ruby lens of the semaphore type, finish all black, each.....\$2.00
Each...D.P. \$3.33

No. 524, same as No. 424 only combination oil and electric, each..... 2.50
Each...D.P. \$4.22

No. 124 Oil Tail Lamp, height 8½ inches, body 4x4½, both crystal and ruby lens of the semaphore type, finish black and nickel, each..... 2.00
Each...D.P. \$3.33

No. 324, same as No. 124 only combination oil and electric, each..... 2.50
Each...D.P. \$4.22



No. 624

No. 626 Oil

No. 624 Oil Tail Lamp, all black finish, with special stud bolt and nut on back to fit 1915 and 1916 Ford, each...\$2.00
Each...D.P. \$3.33

No. 724, same as 624 only combination oil and electric, each..... 2.50
Each...D.P. \$4.22

No. 626 Oil Side Lamp, all black finish, with special stud bolt and nut on back to fit 1915 and 1916 Ford, per pair..... 4.00
Per pair...D.P. \$6.66

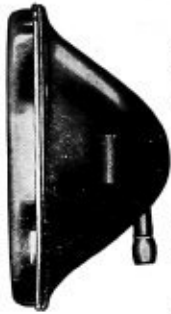
No. 726, same as 626 only combination oil and electric, per pair..... 5.00
Per pair...D.P. \$8.33



The GIBSON COMPANY INDIANAPOLIS

ELECTRIC HEAD AND SIDE LIGHTS

The Bullet Type



Our Bullet lamps are made of the very best material and workmanship, quality being the watchword all along the line.

No. 410 Electric Headlight, 10-in. front, 7-in. prop centers, finish all black, per pair.....\$6.50

Per pair..D.P. \$9.44

No. 310 Same as 410, black and nickel finish, per pair..... 6.50

Per pair..D.P. \$9.44

These lamps supplied with extra dimmer bulb at \$1.50 per pair extra.
Per pair..D.P. \$2.22 extra.

These new electric lamps are the last word in electric lamp equipment. The very best material used in their construction and the finish, as usual, is extremely high grade. Furnished in all black or black and nickel. Ediswan Bayonet sockets and plugs are used.



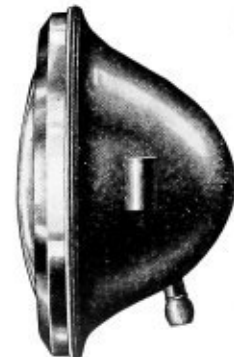
No. 1116 Electric Headlight, 11-inch front, 8 1/2 prop centers, all black finish, convex glass, per pair..\$11.00

Per pair..D.P. \$16.10

No. 2116 Same as 1116, black and nickel finish, per pair

Per pair..D.P. \$16.10

These lamps supplied with extra dimmer bulb at \$1.50 per pair extra.
Per pair..D.P. \$2.22 extra.



No. 1216 Electric Headlight, 12-inch front, 9 1/2 prop centers, all black finish, convex glass, per pair

Per pair..D.P. \$19.44

No. 2216 Same as 1216, black and nickel finish, per pair

Per pair..D.P. \$19.44

These lamps supplied with extra dimmer bulb at \$1.50 per pair extra.
Per pair..D.P. \$2.22 extra.

All electric head lamps have focusing sockets, either single or double pole furnished. Double pole standard unless otherwise specified. Standard equipment includes 6-7 volt bulbs. Other voltages furnished at usual advances.

The Bullet Type



No. 204 1/2 Electric Side Light, 4 1/2-inch front, finish all black, per pair

Per pair..D.P. \$5.55

No. 104 1/2 Electric Side Light, 4 1/2-inch front, finish black and nickel, per pair..... 3.50

Per pair..D.P. \$5.55

No. 306 Electric Side Light, 6-inch front, finish all black, per pair

Per pair..D.P. \$7.77

No. 206 Electric Side Light, 6-inch front, finish black and nickel, per pair..... 5.00

Per pair..D.P. \$7.77



Dash Lamp



Convex Flange Dash Lamp. Furnished with white semaphore, plain white or frosted with rosette glass as shown in cut. No screws visible when placed on dash. Ediswan socket. Door at rear of lamp.

No. 30 Dash Lamp, 4 1/2-in. front, nickered finish, per pair

Per pair..D.P. \$4.44



TAIL AND DOME LAMPS AND REFLECTORS

Electric Tail Lamps



No. 32

Made from heavy gauge material and fitted with Ediswan Switch Socket. This lamp is the very latest design in a high grade tail lamp. Convex Semaphore Glass.

No. 32. Electric Tail Lamp, each\$1.25
Each..D.P. \$1.66



No. 32L

Same as No. 32 with License Tag Attachment.

No. 32-L. Electric Tail Lamp, each\$2.00
Each..D.P. \$1.88



No. 33

Designed to be screwed to number bracket or back of car. Light thrown down on license number. Length 6 3/4 inches. Size of Ruby Semaphore lens, 2 3/8 inches diameter, Ediswan Switch Socket used. Small white jewel in end of lamp. A very handsome and essential lamp for city use where legal requirements demand lighting of license.

No. 33. Electric Tail Lamp, each\$2.25
Each..D.P. \$3.55

Tail Lamp

Neverout Telescopic Tail Lamps are made with all parts interchangeable. In case of breakage by accident, parts can be instantly supplied and replaced by the motorist without the necessity of sending to a lamp repairer. There is no solder in the entire construction and the lamp is practically indestructible. Dust and weather



No. 70

proof. Has a combination socket that fits any lamp bracket, adjustable for either right or left hand side. The window is exceptionally large, clearly illuminating the license tag. Fitted with special Neverout Reflector.

Each\$2.00
Each..D.P. \$2.88



No. 31 Dome Light

Dome Lamp

No. 31 Dome Light, Diameter 4 1/2 inches, Frosted Cut Glass, Ediswan Socket, each\$2.50
Each..D.P. \$3.00

Reflectors

These reflectors are made of extra heavy gauge brass, sterling silver finish. Bulbs not included in price.

Parabola Reflectors,
6-inch, per pair..\$2.50
Per pair..D.P. \$2.66

Parabola Reflectors,
7-inch, per pair.. 2.75
Per pair..D.P. \$3.10

Parabola Reflectors,
8-inch, per pair.. 3.40
Per pair..D.P. \$3.77

Parabola Reflectors,
9-inch, per pair.. 3.50
Per pair..D.P. \$4.00

Parabola Reflectors,
10-inch, per pair. 5.00
Per pair..D.P. \$6.66



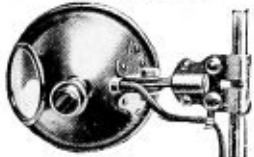


The GIBSON COMPANY INDIANAPOLIS

SPOT LIGHTS



Front View No. 76 illustrating Searchlight Bulb



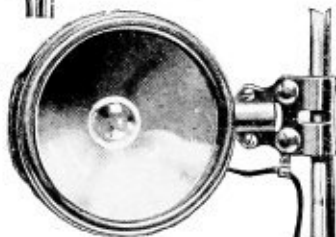
Rear View No. 76, illustrating Mirror

"Old Sol" No. 70

Attach to either side of Wind Shield

No. 70 Old Sol is a large, handsome Spot Lamp which adds a touch of refined equipment to any car at a very reasonable price. 7 inch door and body all enameled. Mirror 3 inch size on lamp. Focusing device at rear of handle integral with switch. 6 volt 15 c. p. bulb supplied as regular equipment. Special voltage bulbs on request. 6 feet of cable with copper terminals.

Each \$6.00
Each...D.P. \$10.00



Front View No. 70, illustrating Searchlight Bulb



Side View No. 70, illustrating Mirror for daytime use and Focusing Device

"Old Sol" No. 76

No. 76 Old Sol Spot Light has 6-inch door and body. All parts enameled. Swivel bracket attaches to wind shield—switch at rear of handle. Silvered reflector. Hole with eyelet for insertion of wire in lamp and copper terminals at end of 6-foot cable. Equipped with 3-inch mirror. 6 volt 15 C. P. bulb supplied as regular equipment.

Each \$4.50

Each...D.P. \$7.22

Spot Light 62



When Ordering Specify for Square or Round Fittings

No. 62 Spot Light with focusing device in back. Throws a straight beam 300 feet. Finish black and nickel, diameter 7 inches, each.....\$4.50
Each...D.P. \$6.66

Supplied with either round or square fittings.

Spot Light 63-A

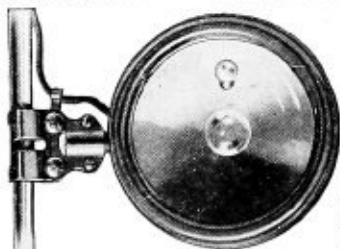


No. 63-A Spot Light with special fittings for 83 Overland, finish black and nickel, diameter 7 inches, each \$5.00
Each...D.P. \$7.76

Spot Light 616



No. 616 Spot Light fitted with small diminishing mirror which shows all the road to the rear in daytime, finish black and nickel, diameter 6½ inches, each \$4.50
Each...D.P. \$6.66



Front View, No. 79, illustrating Pilot and Searchlight Bulbs



Side View, No. 79, illustrating Diminishing Mirror, for Daytime Use

"Old Sol" No. 79 "De Luxe"

No. 79 Old Sol Twin-Bulb Spot Light with Pilot Light Bulb, seven-inch door and body. All parts black enamel finish, 3-inch diminishing mirror and focusing device integral with handle. 6 volt 15 c. p. Searchlight and 6 volt 2 c. p. Pilot light bulbs; 6 feet Duplex Cable with Terminals.

Each \$7.00

Each...D.P. \$11.66



REFLECTORS AND LAMP GLASS

French or Bent Glass Mirror Reflectors



French Mirrors, 4½-inch, each	..... \$0.43
Each, D.P. \$0.48	Dozen, D.P. \$5.33
French Mirrors, 5-inch, each	..... .50
Each, D.P. \$0.55	Dozen, D.P. \$6.00
French Mirrors, 5½-inch, each	..... .55
Each, D.P. \$0.60	Dozen, D.P. \$6.66
French Mirrors, 6-inch, each	..... .55
Each, D.P. \$0.60	Dozen, D.P. \$6.66
French Mirrors, 6½-inch, each	..... .60
Each, D.P. \$0.66	Dozen, D.P. \$7.22
French Mirrors, 6-inch, each	..... .60
Each, D.P. \$0.66	Dozen, D.P. \$7.22
French Mirrors, 6½-inch, each	..... .65
Each, D.P. \$0.77	Dozen, D.P. \$8.44
French Mirrors, 7-inch, each	..... .70
Each, D.P. \$0.88	Dozen, D.P. \$9.55
French Mirrors, 7½-inch, each	..... .75
Each, D.P. \$1.00	Dozen, D.P. \$10.00
French Mirrors, 8-inch, each	..... .90
Each, D.P. \$1.11	Dozen, D.P. \$12.00
French Mirrors, 9-inch, each	..... 1.30
Each, D.P. \$1.32	Dozen, D.P. \$14.44

Mangin Mirror Reflectors

Mangin Mirror Lenses, 4-inch, each	..... \$0.30
Each, D.P. \$1.00	Dozen, D.P. \$11.00
Mangin Mirror Lenses, 4½-inch, each	..... .35
Each, D.P. \$1.11	Dozen, D.P. \$12.00
Mangin Mirror Lenses, 5-inch, each	..... 1.00
Each, D.P. \$1.15	Dozen, D.P. \$12.44
Mangin Mirror Lenses, 5½-inch, each	..... 1.20
Each, D.P. \$1.32	Dozen, D.P. \$14.44
Mangin Mirror Lenses, 6-inch, each	..... 1.30
Each, D.P. \$1.32	Dozen, D.P. \$14.44
Mangin Mirror Lenses, 6-inch, each	..... 1.50
Each, D.P. \$1.44	Dozen, D.P. \$16.00
Mangin Mirror Lenses, 6½-inch, each	..... 1.90
Each, D.P. \$1.88	Dozen, D.P. \$20.44
Mangin Mirror Lenses, 7-inch, each	..... 2.25
Each, D.P. \$2.22	Dozen, D.P. \$24.00
Mangin Mirror Lenses, 7½-inch, each	..... 2.75
Each, D.P. \$3.11	Dozen, D.P. \$37.50
Mangin Mirror Lenses, 8-inch, each	..... 3.25
Each, D.P. \$3.55	Dozen, D.P. \$38.88
Mangin Mirror Lenses, 9-inch, each	..... 4.50
Each, D.P. \$5.55	Dozen, D.P. \$60.00



Lancaster Mounted Mangin Mirror Lens



The Improved Easy Way Mounting consists of a high grade Mangin Mirror Lens with a spun metal covering, provided with a tapped and threaded holding screw (part 1), a reflector holding nut (part 2), and a lock screw (part 3).

To install, make a ½-inch hole at center through back of lamp, insert part 2 through same, place part 1 in lamp and screw into part 2 until tight, then turn in lock screw, part 3, and the job is complete and thoroughly reliable.

This device is designed for convenience in localities where the services of lamp repairers are not obtainable.

Mounted Mangin Mirror, 5½ extreme diameter, contains 5-inch Mangin Mirror	..... \$2.00
Each, D.P. \$2.22	Dozen, D.P. \$24.00
Mounted Mangin Mirror, 6½ extreme diameter, contains 6-inch Mangin Mirror	..... 2.50
Each, D.P. \$2.77	Dozen, D.P. \$30.00
Mounted Mangin Mirror, 7½ extreme diameter, contains 7-inch Mangin Mirror	..... 3.50
Each, D.P. \$3.88	Dozen, D.P. \$43.33

Glasses for Side and Tail Lamp

Size	White	Green	Ruby
2	Per Dozen, D.P. \$1.50	\$1.65	\$1.90
2½	Per Dozen, D.P. 1.65	1.90	2.20
2½	Per Dozen, D.P. 1.80	2.10	2.40
3	Per Dozen, D.P. 1.95	2.25	2.50
3½	Per Dozen, D.P. 2.10	2.40	2.70
3½	Per Dozen, D.P. 2.40	2.70	3.00
3½	Per Dozen, D.P. 2.44	2.80	3.10
3½	Per Dozen, D.P. 2.66	2.90	3.20



Semaphore Lenses



Plain Lenses

Size	White	Green	Ruby
2	Per Dozen, D.P. \$1.20	\$1.35	\$1.50
2½	Per Dozen, D.P. 1.35	1.50	1.65
2½	Per Dozen, D.P. 1.50	1.65	1.90
3½	Per Dozen, D.P. 1.65	1.95	2.25
3½	Per Dozen, D.P. 1.80	2.10	2.40
3½	Per Dozen, D.P. 2.10	2.40	2.70

1¼-inch Flanged Ruby Jewels, per dozen, D.P. \$1.20
 1½-inch Flanged Ruby Jewels, per dozen, D.P. 1.35

Plain Flat Glass

FOR AUTOMOBILE LAMPS

We can furnish front glasses any size. In ordering, state diameter required, not name of lamp.



Lamp Glasses, 3 inch, each, D.P.	..... \$0.15
Lamp Glasses, 3½ inch, each, D.P.	..... .15
Lamp Glasses, 4 inch, each, D.P.	..... .15
Lamp Glasses, 4½ inch, each, D.P.	..... .15
Lamp Glasses, 5 inch, each, D.P.	..... .15
Lamp Glasses, 5½ inch, each, D.P.	..... .15
Lamp Glasses, 6 inch, each, D.P.	..... .20
Lamp Glasses, 6½ inch, each, D.P.	..... .20
Lamp Glasses, 7 inch, each, D.P.	..... .25
Lamp Glasses, 7½ inch, each, D.P.	..... .25
Lamp Glasses, 7½ inch, each, D.P.	..... .25
Lamp Glasses, 7½ inch, each, D.P.	..... .25
Lamp Glasses, 8 inch, each, D.P.	..... .25
Lamp Glasses, 8½ inch, each, D.P.	..... .25
Lamp Glasses, 8½ inch, each, D.P.	..... .25
Lamp Glasses, 8½ inch, each, D.P.	..... .25
Lamp Glasses, 9 inch, each, D.P.	..... .25
Lamp Glasses, 9½ inch, each, D.P.	..... .25
Lamp Glasses, 9½ inch, each, D.P.	..... .30
Lamp Glasses, 10 inch, each, D.P.	..... .30
Lamp Glasses, 10½ inch, each, D.P.	..... .30
Lamp Glasses, 10½ inch, each, D.P.	..... .30
Lamp Glasses, 11 inch, each, D.P.	..... .40

Convex Front Lamp Glasses

Convex Lamp Glasses, 7 inch, each, D.P.	..... \$ .30
Convex Lamp Glasses, 7½ inch, each, D.P.	..... .30
Convex Lamp Glasses, 7½ inch, each, D.P.	..... .30
Convex Lamp Glasses, 8 inch, each, D.P.	..... .35
Convex Lamp Glasses, 8½ inch, each, D.P.	..... .35
Convex Lamp Glasses, 9 inch, each, D.P.	..... .50
Convex Lamp Glasses, 9½ inch, each, D.P.	..... .50
Convex Lamp Glasses, 9½ inch, each, D.P.	..... .50
Convex Lamp Glasses, 10 inch, each, D.P.	..... .55
Convex Lamp Glasses, 10½ inch, each, D.P.	..... .55
Convex Lamp Glasses, 10½ inch, each, D.P.	..... .55
Convex Lamp Glasses, 10½ inch, each, D.P.	..... .55
Convex Lamp Glasses, 11 inch, each, D.P.	..... .65
Convex Lamp Glasses, 11 inch, each, D.P.	..... .65



The GIBSON COMPANY INDIANAPOLIS

EDISON MAZDA LAMPS

Edison Mazda B Lamps FOR AUTOMOBILE SERVICE



Size G-10



Size G-8

Volts	Amperes	Candle Power	Type and Size Bulb	Diam. Bulb, inches	Quantity in Package	Price Each
3-4	0.84	2	G-6	$\frac{3}{4}$	10	\$0.21
6-8	0.42	2	G-6	$\frac{3}{4}$	10	.21
6-8	0.84	4	G-8	1	10	.21
6-8	1.25	6	G-10	$1\frac{1}{4}$	10	.24
6-8	2.00	12	G-12	$1\frac{1}{2}$	5	.27
6-8	2.50	15	G-16 $\frac{1}{2}$	$2\frac{1}{16}$	5	.27
6-8	3.00	18	G-16 $\frac{1}{2}$	$2\frac{3}{16}$	5	.27
6-8	3.50	21	G-16 $\frac{1}{2}$	$2\frac{3}{16}$	5	.30
12-16	0.26	2	G-6	$\frac{3}{4}$	10	.21
12-16	0.42	4	G-8	1	10	.24
12-16	1.00	15	G-16 $\frac{1}{2}$	$2\frac{1}{16}$	5	.30
12-16	1.25	18	G-16 $\frac{1}{2}$	$2\frac{1}{16}$	5	.30
12-16	1.50	21	G-16 $\frac{1}{2}$	$2\frac{3}{16}$	5	.30
18-24	0.17	2	G-6	$\frac{3}{4}$	10	.35
18-24	0.26	4	G-8	1	10	.40
18-24	1.00	21	G-16 $\frac{1}{2}$	$2\frac{1}{16}$	5	.50
9	0.32	2	G-6	$\frac{3}{4}$	10	.21
9	0.64	4	G-8	1	10	.21
9	2.00	15	G-16 $\frac{1}{2}$	$2\frac{1}{16}$	5	.27

Edison Mazda C Automobile Headlight Lamps (GAS-FILLED)



Size G-12

Edison Mazda C Nitrogen Lamps

Brilliant white light such as we have so successfully obtained in the Edison Mazda C Lamps for standard lighting service is now available in the regular voltages.

Brighten the roadbed and make automobiling at night a pleasure by using these daylight lamps; they will also add to the general appearance and attractiveness of your car.

Forty per cent. more service for the same current is possible with the Edison Mazda C Headlight Lamp over any previous type of illuminant.

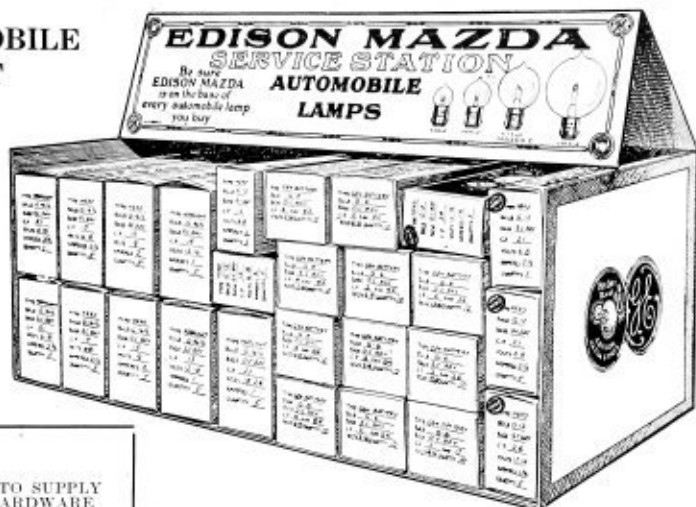
Size G-16 $\frac{1}{2}$

Volts	Amperes	Candle Power	Type and Size Bulb	Diam. Bulb, inches	Quantity in Package	Price Each
6-8	$1\frac{1}{2}$	12	G-8	1	10	\$0.40
6-8	$2\frac{1}{2}$	21	G-12	$1\frac{1}{2}$	5	.35
6-8	3	24	G-12	$1\frac{1}{2}$	5	.50
6-8	4	36	G-16 $\frac{1}{2}$	$2\frac{1}{16}$	5	.75
12-16	$1\frac{1}{2}$	24	G-12	$1\frac{1}{2}$	5	.37
12-16	2	40	G-16 $\frac{1}{2}$	$2\frac{1}{16}$	5	.75



EDISON MAZDA AUTOMOBILE LAMP ASSORTMENT

For the convenience of the trade we offer Edison Mazda Lamps in assortments which include the types and sizes that are in general use. Assortment No. 1, in addition to the regular Mazda, has four sizes gas filled or Nitrogen Lamps.



Assortment No. 1

REPRESENTATIVE STOCK SUITABLE FOR AUTO SUPPLY DEALERS, ELECTRICAL SUPPLY DEALERS, HARDWARE DEALERS AND GARAGES

No. of Lamps	Description	Approx. C.P.	Volts	Type Bulb	Dia. of Bulb Inches	Base Bayonet Cand.	Last Each	List
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LAMPS FOR 3 CELL (LEAD TYPE) STORAGE BATTERY GENERATOR LIGHTING SYSTEMS (6-7 VOLTS)

*5	Headlight	21	6-7	G-12	1 1/2	Double contact	35	\$1.75
*5	Headlight	21	6-7	G-12	1 1/2	Single contact	35	1.75
5	Headlight	21	6-7	G-16 1/2	2 1/4	Double contact	30	1.50
5	Headlight	21	6-7	G-16 1/2	2 1/4	Single contact	30	1.50
5	Headlight	15	6-7	G-16 1/2	2 1/4	Double contact	27	1.35
5	Headlight	15	6-7	G-16 1/2	2 1/4	Single contact	27	1.35
10	Headlight	12	6-7	G-12	1 1/2	Double contact	27	2.70
10	Side light	4	6-7	G-8	1	Double contact	21	2.10
10	Side light	4	6-7	G-8	1	Single contact	21	2.10
10	Rear & meter	2	6-7	G-6	3/4	Double contact	21	2.10
10	Rear & meter	2	6-7	G-6	3/4	Single contact	21	2.10
10	Rear & meter	2	3-3 1/2	G-6	3/4	Double contact	21	2.10
10	Rear & meter	2	3-3 1/2	G-6	3/4	Single contact	21	2.10

LAMPS FOR 6 CELL (LEAD TYPE) STORAGE BATTERY GENERATOR LIGHTING SYSTEMS (12-14 VOLTS)

*5	Headlight	24	12-14	G-12	1 1/2	Double contact	37	\$1.85
*5	Headlight	24	12-14	G-12	1 1/2	Single contact	37	1.85
5	Headlight	15	12-14	G-16 1/2	2 1/4	Double contact	30	1.50
5	Headlight	15	12-14	G-16 1/2	2 1/4	Single contact	30	1.50
10	Side light	4	12-14	G-8	1	Double contact	24	2.40
10	Side light	4	12-14	G-8	1	Single contact	24	2.40
10	Rear & meter	2	12-14	G-6	3/4	Double contact	24	2.40
10	Rear & meter	2	12-14	G-6	3/4	Single contact	24	2.40

LAMPS FOR 9 CELL (LEAD TYPE) STORAGE BATTERY GENERATOR LIGHTING SYSTEMS (18-21 VOLTS)

5	Headlight	21	18-21	G-16 1/2	2 1/4	Double contact	50	\$2.50
10	Side & rear	2	18-21	G-6	3/4	Double contact	35	3.50

LAMPS FOR MAGNETO TYPE LIGHTING SYSTEMS

10	Headlight	15	9	G-16 1/2	2 1/4	Double contact	27	\$2.70
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Total list price \$49.50

This assortment will enable you to supply renewals for 90 per cent. of all cars.

Assortment No. 2

STOCK SUITABLE FOR AUTO SUPPLY DEALERS, ELECTRICAL SUPPLY DEALERS, HARDWARE STORES AND GARAGES

LAMPS FOR 3 CELL (LEAD TYPE) STORAGE BATTERY GENERATOR LIGHTING SYSTEMS (6-7 VOLTS)

5	Headlight	15	6-7	G-16 1/2	2 1/4	Double contact	27	\$1.35
5	Headlight	15	6-7	G-16 1/2	2 1/4	Single contact	27	1.35

*MAZDA C LAMPS (gas-filled)
†For 1915 Ford cars.

Assortment No. 2—Continued

No. of Lamps	Description	Approx. C.P.	Volts	Type Bulb	Dia. of Bulb Inches	Base Bayonet Cand.	Last Each	List
10	Side light	4	6-7	G-8	1	Double contact	21	\$2.10
10	Side light	4	6-7	G-8	1	Single contact	21	2.10
10	Rear & meter	2	6-7	G-6	3/4	Double contact	21	2.10
10	Rear & meter	2	6-7	G-6	3/4	Single contact	21	2.10
10	Rear & meter	2	3-3 1/2	G-6	3/4	Double contact	21	2.10
10	Rear & meter	2	3-3 1/2	G-6	3/4	Single contact	21	2.10

LAMPS FOR 6 CELL (LEAD TYPE) STORAGE BATTERY GENERATOR LIGHTING SYSTEMS (12-14 VOLTS)

5	Headlight	15	12-14	G-16 1/2	2 1/4	Double contact	30	\$1.50
5	Headlight	15	12-14	G-16 1/2	2 1/4	Single contact	30	1.50
10	Sidelight	4	12-14	G-8	1	Double contact	24	2.40
10	Sidelight	4	12-14	G-8	1	Single contact	24	2.40
10	Rear & meter	2	12-14	G-6	3/4	Double contact	24	2.40
10	Rear & meter	2	12-14	G-6	3/4	Single contact	24	2.40

LAMPS FOR MAGNETO TYPE LIGHTING SYSTEMS

10	Headlight	15	9	G-16 1/2	2 1/4	Double contact	27	\$2.70
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Total list price \$30.60

This assortment will enable you to supply renewals for 80 per cent. of all cars.

Assortment No. 3

STOCK SUITABLE FOR AUTO SUPPLY DEPOTS AND GARAGES

LAMPS FOR 3 CELL (LEAD TYPE) STORAGE BATTERY GENERATOR LIGHTING SYSTEMS (6-7 VOLTS)

5	Headlight	15	6-7	G-16 1/2	2 1/4	Double contact	27	\$1.35
5	Headlight	15	6-7	G-16 1/2	2 1/4	Single contact	27	1.35
10	Side light	4	6-7	G-8	1	Double contact	21	2.10
10	Side light	4	6-7	G-8	1	Single contact	21	2.10
10	Rear & meter	2	6-7	G-6	3/4	Double contact	21	2.10
10	Rear & meter	2	6-7	G-6	3/4	Single contact	21	2.10
10	Rear & meter	2	3-3 1/2	G-6	3/4	Double contact	21	2.10
10	Rear & meter	2	3-3 1/2	G-6	3/4	Single contact	21	2.10

LAMPS FOR MAGNETO TYPE LIGHTING SYSTEMS

10	Headlight	15	9	G-16 1/2	2 1/4	Double contact	27	\$2.70
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Total list price \$18.00

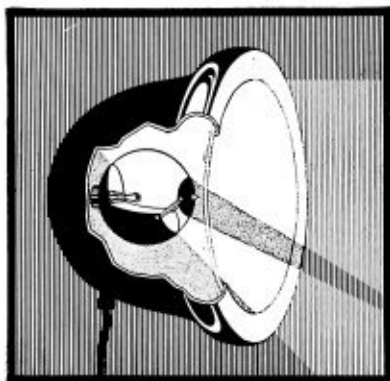
This assortment will enable you to supply renewals for 70 per cent. of all cars.



The GIBSON COMPANY INDIANAPOLIS

DIMMING DEVICES, STOPPER, REFLECTOR AND BULB CASE

Perrin No Glare



The Perrin "No Glare" is made of metal, nickel plated, in two pieces, to fit snugly around the headlight bulb. It gives plenty of driving light in front of the machine, and a long, low powerful light far ahead on the road. Approaching drivers and pedestrians are not blinded by the light. Always ready to use. After once put on the bulb they need no further attention. Put on by simply opening headlight, placing "No Glare" on bulb, and then closing headlight. No vibration and nothing to break or wear out. Better than a dimmer as the "No Glare" requires no operation. Made for standard 2 inch headlight bulb.

Per pair \$1.00
Per Pair.. D.P. \$1.00

The Monarch Adjustable Auto Lamp Dimmer

Monarch Adjustable Auto Lamp Dimmers are made of dull finished enameled cloth, fitting over half of lamp front and held in position by coil spring. Can be attached to lower or top part of lamp, just as ordinance requires. Can be put on or taken off in a second. Coil spring grips the lamp securely, so that constant jarring will not allow the dimmer to slide to either side of lamp. Made out of high class material. Five sizes:

8 inch to fit Motorcycle Lamps.
9 inch to fit Ford Electric Lamps.
10 inch to fit Buick and Overland Lamps.
12 inch will fit any medium size Lamps.
13 inch will fit any large size Lamps.

Per pair \$0.50
Per Pair.. D.P. \$0.70



Glare Dimmer



Having the eyes while driving against the glare of the sun. The device clamps on the windshield and consists of an oval-shaped, amber-colored glass mounted in a metal frame. The dimmer can be adjusted to any position desired and swung out of position instantly by loosening a wing nut. The oval frame and binding nut are nickel plated; all other parts black enameled. Each glare dimmer packed in a cardboard carton. Weight, 14 lbs.

No. 6185 Glare Dimmer, each \$1.25
Each.. D.P. \$1.85

Everyone who has driven on country roads at night realizes the danger due to suddenly encountering the rays of light from the headlights of an oncoming car. The EverGood Glare Dimmer is a protection against the blinding glare. Also indispensable for re-

The Staude Glare Stopper



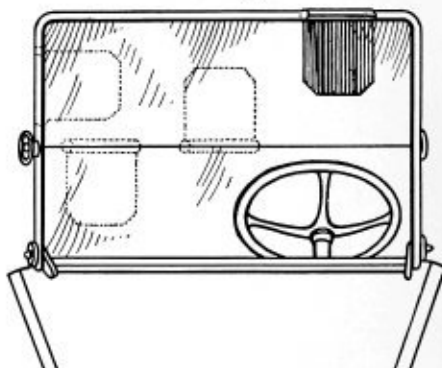
Each.. D.P. \$4.18

The Staude Glare Stopper consists of a disc of pure amber glass easily attached to the windshield of any make of automobile. It protects the eyes of the driver from bright and blinding lights, making driving at night a pleasure.

The nickel-plated clamp will fit on the windshield of any make of car. The heavy clear amber-colored crystal lens glass, 6 $\frac{1}{2}$ inches in diameter, dissects the light rays and makes driving at night a constant pleasure instead of a constant fear.

Each \$2.50

Howard Auto Light Deflector



Howard Improved Auto Light Deflector is a dark green celluloid shield attaching to the rim of windshield, effectively protecting the driver from the glaring light of an approaching automobile; size 5 x 5 inches.

Price, each \$0.25
Per dozen.. D.P. \$4.44

Bulb Case



Bulbs are securely held in place by brass springs and a new locking device.

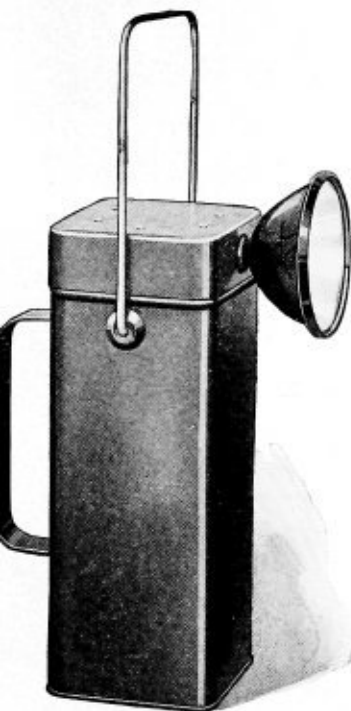
No. 1 Dover Electric Light Bulb Case, for Edison base lamps, holds two headlights, two side lights, tail and speedometer lights. Made of pressed steel, each \$0.75
Each.. D.P. \$1.11



HAND LAMPS

For Use in Connection with Dry Batteries.

We list on this page a line of Hand Lamps, to be used in connection with dry batteries. While simple, this type of lamp has proven one of the greatest discoveries of the age. It replaces the old style oil lantern, which was both dangerous and cumbersome. With the oil lantern there was constant liability of fire or explosion, and there is no question but many fires had their origin in the lantern with the open flame. The styles shown below are selected for their popularity and efficiency. They are all guaranteed by the manufacturer and will give excellent service. These lamps are indispensable to the motorist, garage owner, farmer, railroad men, store-keepers, mechanics, watchmen, electricians, milkmen, miners, hunters, physicians and most every one who has occasion to work at night or in dark places. Any standard dry battery, No. 6 size, will operate these lamps.



Vaco-Lite Electric Hand Lantern

A well-made, high-grade lantern in which either round or square dry batteries may be used. Give forty hours continuous service from one cell. Used an hour every day, six weeks service from one battery is not unusual. Made from high-grade sheet steel, enameled in black. Bail is of strong wire. Has special reflector and bulb.

Each \$1.50
Without battery,
each..D.P. \$1.66
Without battery,
dozen..D.P. \$18.66
Extra bulb,
each..D.P. \$0.33

"Dad's" Electric Hand Lantern

For extra long service and a very bright light "Dad's" lantern is recommended. This lantern uses two No. 6 round dry batteries and has a very strong electric bulb. The case is of pressed steel, with easily removable lid. Enameled in red.

Price each.....\$2.50
Without battery,
each..D.P. \$3.32
Without battery,
dozen..D.P. \$36.50



Famous Delta Electric Hand Lamp

No. 7 Throws Shaft of Light 250 to 300 Feet



Just the thing for sportsmen to spot game at night, deliverymen to spot house numbers, for use by inspectors, watchmen, etc. Has triple silver-plated parabolic reflector.

Also sheds a subdued wide-angle of light, which illuminates a wide area of space in front of the lamp from 10 to 25 feet.

Uses one ordinary dry battery and has hand-made tungsten wire bulb.

Handsomely finished in semi-gloss black enamel and polished nickel-plate.

Square batteries can be used by removing the paper covers. Lamp 8 1/2 inches tall. Packed in individual cartons, twelve to the case, weighing 14 pounds.

Price each (without battery) \$1.25
Each..D.P. \$1.76

No. 1 Delta Two-Cell Electric Lantern

THE LANTERN OF 1,000 USES

These Specifications Speak for Themselves

HEIGHT—7 1/2 inches.
MATERIAL—Cold Rolled Steel .019 inch thick throughout.
BATTERY CASE—Provided to receive two standard No. 6 dry batteries, either square or round cases, with either style of battery terminal.
HANDLES—Extra large bail handle slips over the arm of a big man with a big overcoat and gloves. The grip handles can be folded flush with the back of the lamp.
BASE—Formed into a flange, preventing the lamp from upsetting.
BULB—Three volts, drawn tungsten wire, hand made and thoroughly tested.
REFLECTOR—Drawn out of sheet phosphor bronze and triple silver-plated with an extra high polish. Width 3 1/2 in., and ribbed in such shape as to give a diffused light extending for 180 degrees in every direction. Spotlight reflector supplied when specified.
LENS—Concave convex double strength glass with a big radius, throwing light 180 degrees. Diameter 3 1/2 in.
SWITCH—Self-contained and absolutely reliable.
FINISH—Handsomely finished in baked semi-gloss black enamel, trimmed in polished nickel-plate.
THE BIG DELTA will absolutely replace the use of the oil lantern. It gives a broad spreading light, straight out, straight up, straight down, and straight out at both sides. Hang it up on the wall and it lights the whole room.



Price each (less batteries) \$2.00
Each..D.P. \$2.77



The GIBSON COMPANY INDIANAPOLIS

EVEREADY TUNGSTEN FLASHLIGHTS

Eveready Lights are made by the largest and oldest makers of batteries and battery lighting devices. They are built according to the latest ideas in portable light construction and are equipped with guaranteed longest service Eveready Tungsten Batteries and highest efficiency, greatest durability, Eveready Mazda Lamps. Metal parts are heavily nickel plated and only the best of materials are used throughout.

All Eveready Nickel Plated Tubular Cases are non-short-circuiting. That is, they can be placed in contact with metal surfaces without exhausting the battery. This is particularly advantageous where flashlights are placed in a tool box, in a pocket containing keys, or a metal running board, and in many other locations which would exhaust the battery in other than a non-short-circuiting type of case.

TUBULAR FLASHLIGHTS

Vulcanized Fiber Tubular Lights



2602, 11" x 5", each	.....	\$1.00
Each, D.P. \$1.48	Dozen, D.P. \$16.00	
Renewal Tungsten Battery No. 791, each	.....	.30
Each, D.P. \$0.44	Dozen, D.P. \$4.80	
Renewal Mazda Bulb, 2.7 volt, No. 1182, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	
2604, 11" x 6 1/2", each	.....	1.20
Each, D.P. \$1.77	Dozen, D.P. \$19.20	
Renewal Tungsten Battery No. 790, each	.....	.30
Each, D.P. \$0.44	Dozen, D.P. \$4.80	
Renewal Mazda Bulb, 2.9 volt, No. 1193, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	
2612, 11" x 8 1/2", each	.....	1.40
Each, D.P. \$2.06	Dozen, D.P. \$22.22	
Renewal Tungsten Battery No. 705, each	.....	.40
Each, D.P. \$0.60	Dozen, D.P. \$6.40	
Renewal Mazda Bulb, 3.8 volt, No. 1193, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	

Leatherette Covered Tubular Lights

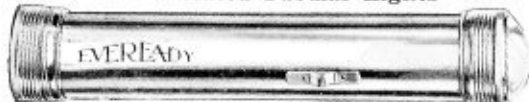


2606, 11" x 8 1/2", each	.....	\$1.20
Each, D.P. \$1.77	Dozen, D.P. \$19.20	
Renewal Tungsten Battery No. 705, each	.....	.40
Each, D.P. \$0.60	Dozen, D.P. \$6.40	
Renewal Mazda Bulb, 3.8 volt, No. 1193, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	

Enameled Metal Tubular Lights

2628, 11" x 6 1/2", each	.....	8.75
Each, D.P. \$1.11	Dozen, D.P. \$12.00	
Renewal Tungsten Battery No. 790, each	.....	.30
Each, D.P. \$0.44	Dozen, D.P. \$4.80	
Renewal Mazda Bulb, 2.9 volt, No. 1198, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	
2627, 11" x 8 1/2", each	.....	.90
Each, D.P. \$1.32	Dozen, D.P. \$14.40	
Renewal Tungsten Battery No. 705, each	.....	.40
Each, D.P. \$0.60	Dozen, D.P. \$6.40	
Renewal Mazda Bulb, 3.8 volt, No. 1193, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	

Nickel-Plated Tubular Lights



2630, 11" x 6", each	.....	\$1.25
Each, D.P. \$1.56	Dozen, D.P. \$20.00	
Renewal Tungsten Battery No. 791, each	.....	.30
Each, D.P. \$0.44	Dozen, D.P. \$4.80	
Renewal Mazda Bulb, 2.7 volt, No. 1182, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	
2634, 11" x 6 1/2", each	.....	1.50
Each, D.P. \$2.22	Dozen, D.P. \$21.00	
Renewal Tungsten Battery No. 790, each	.....	.30
Each, D.P. \$0.44	Dozen, D.P. \$4.80	
Renewal Mazda Bulb, 2.9 volt, No. 1198, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	
2632, 11" x 8 1/2", each	.....	1.75
Each, D.P. \$2.06	Dozen, D.P. \$22.00	
Renewal Tungsten Battery No. 705, each	.....	.40
Each, D.P. \$0.60	Dozen, D.P. \$6.40	
Renewal Mazda Bulb, 3.8 volt, No. 1193, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	

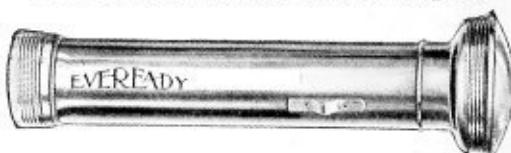
MINERS' FLASHLIGHTS

Vulcanized Fiber Tubular Miners' Lights



2616, 11" x 6 1/2", each	.....	\$1.50
Each, D.P. \$2.22	Dozen, D.P. \$24.00	
Renewal Tungsten Battery No. 790, each	.....	.30
Each, D.P. \$0.44	Dozen, D.P. \$4.80	
Renewal Mazda Bulb, 2.9 volt, No. 1198, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	
2619, 11" x 8 1/2", each	.....	1.70
Each, D.P. \$2.50	Dozen, D.P. \$27.20	
Renewal Tungsten Battery No. 705, each	.....	.40
Each, D.P. \$0.60	Dozen, D.P. \$6.40	
Renewal Mazda Bulb, 3.8 volt, No. 1193, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	

Nickel-Plated Tubular Miners' Lights



2634, 11" x 6 1/2", each	.....	\$2.00
Each, D.P. \$2.95	Dozen, D.P. \$32.00	
Renewal Tungsten Battery No. 790, each	.....	.30
Each, D.P. \$0.44	Dozen, D.P. \$4.80	
Renewal Mazda Bulb, 2.9 volt, No. 1198, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	
2635, 11" x 8 1/2", each	.....	2.40
Each, D.P. \$3.55	Dozen, D.P. \$38.40	
Renewal Tungsten Battery No. 705, each	.....	.40
Each, D.P. \$0.60	Dozen, D.P. \$6.40	
Renewal Mazda Bulb, 3.8 volt, No. 1193, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	

Corrugated Fiber Tubular Searchlights



The most powerful and penetrating flashlights obtainable. Have high efficiency, silvered parabolic reflectors, accurately ground lenses, knurled fiber cases—throw a long penetrating beam of light. Particularly recommended for severe service.		
2639, 11" x 8 1/2", each	.....	\$3.00
Each, D.P. \$4.44	Dozen, D.P. \$48.00	
Renewal Tungsten Battery No. 705, each	.....	.40
Each, D.P. \$0.60	Dozen, D.P. \$6.40	
Renewal Mazda Bulb, 3.8 volt, No. 1193, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	
2653, 11" x 12", each	.....	4.00
Each, D.P. \$5.90	Dozen, D.P. \$64.00	
Renewal Tungsten Battery No. 715, each	.....	.70
Each, D.P. \$1.04	Dozen, D.P. \$11.20	
Renewal Mazda Bulb, 6.2 volt, No. 1195, each	.....	.13
Each, D.P. \$0.22	Dozen, D.P. \$2.24	



EVEREADY TUNGSTEN FLASHLIGHTS—VEST POCKET FLASHLIGHTS

Nickel-Plated Pocket Lights HINGED BOTTOM TYPE



6962

6900-6954-6961

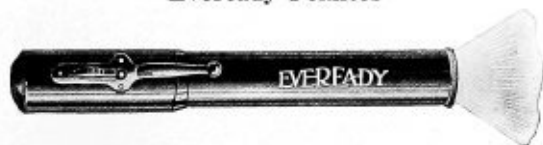
Hinged Bottom Type Nickel Plated Pocket Lights Nos. 6900, 6961, 6962 and 6954 have combination push and slide contact. Are equipped with hinged bottom, battery being inserted at the bottom.

No. 6900, size 1 1/16x1 1/2x2 1/2 inches (complete), each	.....\$0.75
Each..D.P. \$1.11	Dozen..D.P. \$12.00
Renewal Tungsten Battery No. 700, each	..... .30
Each..D.P. \$0.44	Dozen..D.P. \$4.80
Renewal Mazda Bulb, 2.5 volts, No. 1179, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24
No. 6961, size 3/8x1 1/2x2 1/2 inches (complete), each	..... .75
Each..D.P. \$1.11	Dozen..D.P. \$12.00
Renewal Tungsten Battery No. 750, each	..... .30
Each..D.P. \$0.44	Dozen..D.P. \$4.80
Renewal Mazda Bulb, 2.5 volts, No. 1180, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24
No. 6962, size 1/2x2 1/2x2 1/2 inches (complete), each	..... 1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00
Renewal Tungsten Battery No. 751, each	..... .35
Each..D.P. \$0.51	Dozen..D.P. \$5.60
Renewal Mazda Bulb, 3.8 volts, No. 1181, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24

Cost of renewals considered, more service can be obtained from No. 6954 than from any other size nickel plated pocket-light. The service from this light is the same as from the smallest tubular lights Nos. 2602 and 2680.

No. 6954, size 1x1 1/2x3 1/2 inches, Hinged Bottom Type, each	.....\$1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00
Renewal Tungsten Battery No. 792, each	..... .30
Each..D.P. \$0.44	Dozen..D.P. \$4.80
Renewal Mazda Bulb, 2.7 volts, No. 1182, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24

Eveready Penlites



Duplicates in size and appearance to Banker's type fountain pen. No. 2681 has black enamel finish. Contact can be made permanent and penlite fastened to lapel of coat—particularly advantageous where light is required at the same time when it is necessary to have both hands free. The top of tube taking lamp receptacle is threaded to take lamp base threads, making a secure fit. No. 2682 is the same as 2681 except nickel plated finish. No. 2683 has black enamel finish. is similar in appearance to 2681 but has flash contact only. No. 2684 is similar to 2682 excepting that it has flash contact only.

No. 2681 black enamel finish, each	.....\$1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00
No. 2682 nickel plated, each	..... 1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00
No. 2683 black enamel finish, each	..... 1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00
No. 2684 nickel plated, each	..... 1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00

Nickel-Plated Pocket Lights CIGARETTE CASE TYPE



6990

6992

The Cigarette Case Type offers a novel and at the same time very practical type of nickel plated pocket light. Very similar in appearance to a cigarette case. Being hinged on one side, it is easily opened for withdrawal or insertion of battery or bulb.

No. 6990, size 3/8x1 1/2x2 1/2 inches (complete), each	.....\$1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00
Renewal Tungsten Battery No. 700, each	..... .30
Each..D.P. \$0.44	Dozen..D.P. \$4.80
Renewal Mazda Bulb, 2.5 volts, No. 1179, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24
No. 6991, size 3/8x1 1/2x3 1/2 inches (complete), each	..... 1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00
Renewal Tungsten Battery No. 750, each	..... .30
Each..D.P. \$0.44	Dozen..D.P. \$4.80
Renewal Mazda Bulb, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24
No. 6992, size 1/2x2 1/2x3 1/2 inches (complete), each	..... 1.25
Each..D.P. \$1.84	Dozen..D.P. \$20.00
Renewal Tungsten Battery No. 751, each	..... .35
Each..D.P. \$0.51	Dozen..D.P. \$5.60
Renewal Mazda Bulb, 3.8 volts, No. 1181, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24

Pistol Light Eveready Electric Candle



No. 2675

The Pistol Light appeals to those who wish to combine novelty with utility. It is an exact duplicate of an automatic pistol. Has two piece gun metal finish case, which is opened for withdrawal or insertion of battery or lamp by depressing the sight, which releases a catch in the interior of the barrel.

No. 2675, Pistol Light, size 3 1/2x3 1/2 inches, each	.....\$1.50
Each..D.P. \$2.22	Dozen..D.P. \$24.00
Renewal Tungsten Battery No. 750, each	..... .30
Each..D.P. \$0.44	Dozen..D.P. \$4.80
Renewal Mazda Bulb, 2.5 volts, No. 1180, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24

A novel and practical form of flashlight. Uses a very popular size battery (791). Entire candle nickel plated, equipped with a switch providing permanent contact. Diameter of base, 4 inches. Height, 5 1/2 inches.

No. 1657, Electric Candle Light, each	.....\$1.00
Each..D.P. \$1.48	Dozen..D.P. \$16.00
Renewal Tungsten Battery No. 791, each	..... .30
Each..D.P. \$0.44	Dozen..D.P. \$4.80
Renewal Mazda Bulb, 2.7 volts, No. 1192, each	..... .13
Each..D.P. \$0.22	Dozen..D.P. \$2.24



The GIBSON COMPANY INDIANAPOLIS

EVEREADY BATTERIES, TESTERS, BULBS AND LAMPS

Eveready Bulb and Battery Tester



No. 6291

Eveready Bulb and Battery Tester permits the testing of flashlight batteries without placing a short circuit on them—which is the case when a pocket ammeter is used. It provides the only satisfactory means of testing flashlight lamps. There are three receptacles for the insertion of lamps of proper voltage for two-, three- and five-cell batteries. Liberal leads are provided, which permit easy access to sealed batteries.

No. 6291 Bulb and Battery Tester, without lamps...\$0.75
Each...D.P. \$1.11

Eveready Tungsten Batteries

Each Eveready Tungsten Battery is absolutely guaranteed. This guarantee is printed on the battery and carton. It covers a definite period, both of service and shelf life. We secure batteries at frequent intervals, direct from the factory, insuring your receiving fresh stock. Batteries should be tested with bulb and battery tester (shown above) on receipt and before breaking the seals for insertion in a flashlight. For complete information on batteries see data below.



Tubular Light Battery



Pocketlight Battery

For Flashlight Numbers	Battery No.	Height	Width	Depth	Guar. List Price	Period
6996-6970-6980-6990	700	1 1/2	1 1/2	9-16	\$0.30	3
Each...D.P. \$0.44	Dozen...D.P. \$4.80					
4706	703	2 1/2	2 7-16	1 1/2	.35	4
Each...D.P. \$0.53	Dozen...D.P. \$5.60					
1606-2612-2619-2626	705	7	1 1/2	.40	.40	6
Each...D.P. \$0.60	Dozen...D.P. \$6.50					
2627-2632-2633-2639	706	4	1/2	.25	.25	3
Each...D.P. \$0.38	Dozen...D.P. \$4.00					
2681-2682-2683-2684	710	3	3/8	.75	.75	6
Each...D.P. \$1.11	Dozen...D.P. \$12.00					
4701-4702	715	1 1/2	1 1/2	.70	.70	6
Each...D.P. \$1.04	Dozen...D.P. \$11.20					
2653	734	3	4	1 1/2	.45	6
Each...D.P. \$0.66	Dozen...D.P. \$7.22					
4703-4707-4709	750	2 1/2	1 5-16	11-16	.30	3
Each...D.P. \$0.44	Dozen...D.P. \$4.80					
2675-6961-6971-6981	751	2 1/2	2	11-16	.35	3
Each...D.P. \$0.53	Dozen...D.P. \$5.60					
6992-6972-6982-6992	775	3 1/2	2 1/2	.25	.45	6
Each...D.P. \$0.66	Dozen...D.P. \$7.22					
4708	790	4 1/2	1 1/2	.30	.30	6
Each...D.P. \$0.44	Dozen...D.P. \$4.80					
2604-2616-2624-2625	791	3 1/2	1	.30	.30	4
Each...D.P. \$0.44	Dozen...D.P. \$4.80					
2628-2631-2634	791	3 1/2	1	.30	.30	4
Each...D.P. \$0.44	Dozen...D.P. \$4.80					
2692-2630	792	2 1/2	1 1/2	13-16	.30	4
Each...D.P. \$0.44	Dozen...D.P. \$4.80					

*Months which a battery is guaranteed to stand on shelf without depreciating more than 10 per cent.

Mazda Flashlight Lamps



1195



1192



1190



1179

For Flashlight Numbers	Bulb No.	Voltage	List Price
1906-6970-6980-6990	1179	2.5	\$0.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
4706	1190	3.8	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
1606-2612-2619-2626	1192	3.8	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
2627-2632-2633-2639	1193	2.5	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
2681-2682-2683-2684	1179	2.5	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
4701-4702	1195	6.2	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
2653	1195	6.2	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
4703-4707-4709	1199	4.0	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
2675-6961-6971-6981	1180	2.5	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
6992-6972-6982-6992	1181	3.8	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
4708	1199	4.0	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
2604-2616-2624-2625	1198	2.9	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
2692-2630	1182	2.7	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
1657	1192	2.7	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
6954	1182	2.7	.13
Each...D.P. \$0.22	Dozen...D.P. \$2.24		
4716-4718	1451	1.5	.15
Each...D.P. \$0.26	Dozen...D.P. \$2.60		

All flashlight renewal bulbs have unit package quantity of ten.

Lamps for Dry Cell Lanterns

No. 1451, 9/16" diameter, clear, 1.5 volts, Miniature base, for Eveready Handy Lamps and Beers Lantern	\$0.15
Each...D.P. \$0.26	Dozen...D.P. \$2.60
No. 016, 11/16" diameter, clear, 1.5 volts, Miniature base, for Delta Hand Lamp, Beers and Lightning Bug Lanterns, Redsealite, Handy Andy, Bright Eye Attachments	.15
Each...D.P. \$0.26	Dozen...D.P. \$2.60
No. 005, 11/16" diameter, opal back, 1.5 volts, Miniature base, for Delta Hand Lamp	.18
Each...D.P. \$0.33	Dozen...D.P. \$3.11
No. 017, 11/16" diameter, clear, 2.8 volts, Miniature base, for Dad's Lantern	.15
Each...D.P. \$0.26	Dozen...D.P. \$2.60
Note—No. 1198 can be used with Dad's or with two cell Lightning Bug Lantern.	
No. 039, 11/16" diameter, clear, 1.5 volts, double contact, base for Presto Hand Lamp and Victor Lantern	.21
Each...D.P. \$0.36	Dozen...D.P. \$3.64
No. 040, 1" diameter, 2.8 volts, single contact, for Old Sol No. 50	.21
Each...D.P. \$0.36	Dozen...D.P. \$3.64
No. 049, 1" diameter, 2.8 volts, double contact, for Old Sol No. 51	.21
Each...D.P. \$0.36	Dozen...D.P. \$3.64



TROUBLE LAMPS, CIGAR AND PIPE LIGHTERS

Presto Combination Lamp



No. 200 Combination Presto Cigar Lighter and Lamp. New design, handle of rosewood finish, nickel plated cigar lighter tip and reflector. Polished ivory finish push buttons. Furnished with ten feet of silk cord, complete with regular terminals, each\$3.50
Each...D.P. \$5.44

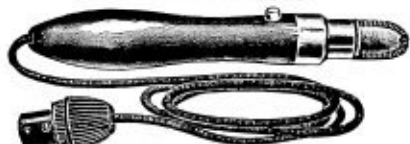


No. 202 Presto Cigar Lighter with ten feet silk cord, regular terminals and platinum tip, each\$2.50
Each...D.P. \$3.88

Presto Cigar and Pipe Lighters



PRESTO CIGAR AND PIPE LIGHTER



No. 199—Pipe and Cigar Lighter

The latest addition to our popular line. The heating element is made of "Tungstenite" Chromium nickel. Lights a pipe as well as a cigar or cigarette.

No. 199 Presto Cigar and Pipe Lighter, complete with plug, each.....\$1.50
Each...D.P. \$2.32

EXTRA PLATINUM CIGAR LIGHTER TIPS

6, 7 and 8 volt tips, each.....\$1.00
Each...D.P. \$1.76
10 volt tips, each..... 1.25
Each...D.P. \$2.22
12 volt tips, each..... 1.50
Each...D.P. \$2.66
18 volt tips, each..... 2.00
Each...D.P. \$3.55
21 and 24 volt tips, each..... 2.50
Each...D.P. \$4.44

EXTRA PIPE LIGHTER TIPS

6, 7 and 8 volt tips, each.....\$0.75
Each...D.P. \$1.32
10, 12 and 14 volt tips, each..... 1.00
Each...D.P. \$1.76
16, 18 and 21 volt tips, each..... 1.25
Each...D.P. \$2.22

Presto Automatic Cord Winder



No. 252 Complete Combination Consisting of Cord Winder, Cigar Lighter No. 202 and Holder

The Automatic Cord Winder takes up the cord and can be placed under the seat or at the side of car, or behind the dash; can be used to wind up the cord on any Presto cigar lighter.

No. 240 Presto Automatic Cord Winder (only), black rubber finish\$2.50
Each...D.P. \$3.88

No. 252 Complete combination, Automatic Cord Winder and Presto Cigar Lighter No. 202 and Holder as illustrated 5.00
Each...D.P. \$7.77

No. 254 Automatic Cord Winder, Presto Ford Cigar Lighter, complete 5.00
Each...D.P. \$7.77

No. 250 Automatic Cord Winder, with No. 200 Presto Combination Cigar Lighter and Lamp and Holder 6.00
Each...D.P. \$9.33

Ford and Star



No. 204 Presto Ford Cigar Lighter. Designed especially for the Ford Car, get their power direct from the magneto. Equipped with a lighter tip which is especially suited to the Ford Magneto and is marked "Ford Special." Equipped with 10 feet silk cord.

Nickel plated holder is furnished with each cigar lighter, which can be attached anywhere in the car. The cigar lighter case is made of polished wood, ebony finish. All metal parts are heavily nickel plated.

Each\$2.50
Each...D.P. \$3.88

No. 205 Presto Star Cigar Lighter. Constructed exactly like the Presto Ford, except that they are designed to be used on all other makes of cars and are furnished with 6-volt cigar lighter tips unless otherwise specified.

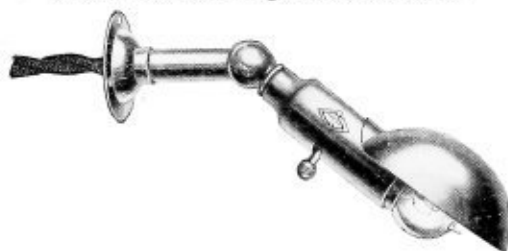
Each\$2.50
Each...D.P. \$3.88

Prices on Cigar Lighters are based on the use of 6-volt tips. If tips of higher voltage are used, an additional price will be charged according to the value of the tip as shown on this page.



DASH AND TROUBLE LAMPS

Culver-Stearns High-Grade Lamps



Style H Dash Lamp, with Switch, Nickeled, with Bulb, each\$1.00
Each..D.P. \$1.44

Can be had in either single or double contact.



Style S Dash Lamp, specially designed for use on wood dash, Nickeled, with Bulb, each ..\$1.00
Each..D.P. \$1.44

Can be had either double or single contact.

Style G Dash Lamp for use on metal dash, Nickeled, with Bulb, each.....\$1.00
Each..D.P. \$1.44

Can be had either double or single contact.



Style J Dash Lamp with Switch, Nickeled, with Bulb, each\$1.00
Each..D.P. \$1.44

Can be had either double or single contact.



Style D Combination Dash and Trouble Lamp, Complete with Bulb, each.....\$2.50
Each..D.P. \$3.55

Can be quickly disconnected from dash and converted into an ideal trouble lamp; ten feet of cord furnished.

Folding Lamp



No. 50

No. 50 Tubular Folding Lamp is designed for use where lamp must be covered and is provided with shutter to protect bulb. Nickeled, with Bulb, each ...\$1.50

Each..D.P. \$2.22

Cowl Lamp

Width of reflector, 1 3/4 in. Length over all, 4 1/4 in.

This Cowl Lamp is especially designed to be used in the cowl of an automobile, on an angle of 45 degrees.



No. 502 Cowl Lamp Reflector, fitted with Ediswan Socket, Screw, Terminals, Metal Cap, Nickeled, each\$1.00
Each..D.P. \$1.44



No. 152

No. 152-E Cowl Gauge Lamp, Nickeled, Ediswan Fitting, with Bulb\$1.00
Each..D.P. \$1.33

Connecticut Trouble Lamps

Type R W Connecticut Trouble Lamp made in a substantial and neat manner with solid brass reflector, nickeled and polished, with protecting wire guard, so arranged that it can be collapsed for removal or insertion of lamp. Has rubberoid handle and 10 feet black rubber covered duplex cable with Ediswan attachment plug to fit standard sockets.



Types R W and S W

Type R W Trouble Lamp, Double Contact, each....\$1.75
Each..D.P. \$2.66

Culver-Stearns Style "C"



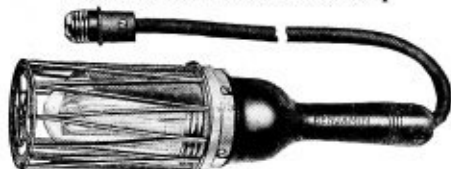
Style C Trouble Lamp, furnished with 6 c. p. Bulb and ten feet flexible extension cord and Bayonet Locking Attachment Plug. Each.....\$1.85
Each..D.P. \$2.66

Can be had either double or single contact.



GARAGE LAMPS AND LAMP GUARDS

Vapor Proof Portable Lamp



Catalog No. 260VP

No. 260VP Vapor Proof Hand Portable Lamp has strong wooden handle, porcelain receptacle with Benjamin lamp grip, vapor proof globe, reflector and metal guard with hinged hook. The portable measures 13½ x 3¼ inches, and takes a 6-inch 25 to 60-watt tubular lamp. Back connections and strain relief means are provided. With one foot cable and swivel plug.

Each \$3.15

Each . . . D.P. \$4.77

Price does not include lamp.

No. 72 110-Volt Garage Lamp

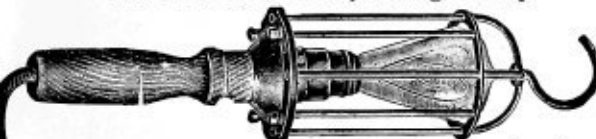


Many of the most disastrous fires have been caused by dropping incandescent lamps and igniting gasoline on garage floors. The importance of properly guarding extension lamps is frequently overlooked.

Price complete, ready for use, as shown, each.....\$1.50

Each . . . D.P. \$2.33

No. 172 Extra Heavy Garage Lamp



Complete with 110-volt bulb, 15 feet reinforced cord and detachable plug, price, each.....\$2.50

Each . . . D.P. \$3.88

Lamp Guards



No. C Lamp Guard, 16 c. p., each.....	\$0.20
Dozen . . . D.P. \$2.66	
No. C Lamp Guard, 32 c. p., each.....	.30
Dozen . . . D.P. \$3.11	
No. 346 Lamp Guard, 16 c. p., each.....	.50
Dozen . . . D.P. \$6.66	
No. 346 Lamp Guard, 32 c. p., each.....	.60
Dozen . . . D.P. \$8.00	

Automatic Reel Light

The Heim Automatic Reel Light is an absolute necessity to every mechanic who requires a portable light.

Simple in construction, positive and effective in operation.

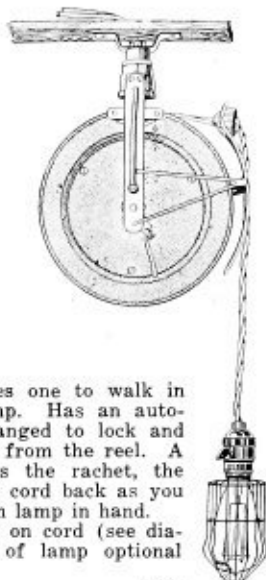
Designed especially for garages, blacksmiths, factories, stores, or any business requiring an extension light. This reel is equipped with thirty feet of lamp cord, easily secured by fastening the arms of the swivel joint to ceiling or beam, as illustrated in diagram.

This swivel joint enables one to walk in any direction with the lamp. Has an automatic lock ingeniously arranged to lock and hold the lamp any distance from the reel. A slight pull forward unlocks the ratchet, the wheel revolves, winding the cord back as you advance toward the lamp with lamp in hand.

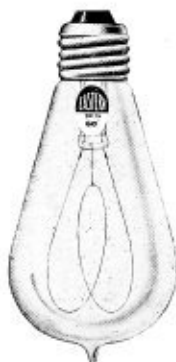
The adjustable stop-plug on cord (see diagram) renders the height of lamp optional with the one using same.

Each \$8.00

Each . . . D.P. \$13.32



Carbon and Metalyte Tungsten Lamps



Carbon Lamps



Metalyte Tungsten Lamps

16 C. P. New Class A Carbon Lamps, 105 to 130 volts, each \$0.18

Each . . . D.P. \$0.27

The Metalyte Nitrogen Type G. The lamp with a mission. Turns darkness into daylight with the least possible cost for current consumption.

15 Watt Metalyte Tungsten Lamps, each.....\$0.40

25 Watt Metalyte Tungsten Lamps, each..... .40

40 Watt Metalyte Tungsten Lamps, each..... .40

Each . . . D.P. \$0.55

60 Watt Metalyte Tungsten Lamps, each..... .54

Each . . . D.P. \$0.71

100 Watt Metalyte Type G Nitrogen Lamps, each 1.60

Each . . . D.P. \$2.10

200 Watt Metalyte Type G Nitrogen Lamps, each. 3.10

Each . . . D.P. \$4.10

250 Watt Metalyte Type G Nitrogen Lamps, each. 3.90

Each . . . D.P. \$5.10



The GIBSON COMPANY INDIANAPOLIS

PREST-O-LITE ACCESSORIES AND TUBING

Tank Bands



- No. 4 Flat Gas Tank Bands, for B or E tanks, per pair \$1.00
Per Pair.. D.P. \$0.88
- No. 4 Flat Gas Tank Bands, for A tanks, per pair.. 1.25
Per Pair.. D.P. \$1.11

F. G. Gas Tank Bands



Tank can be fastened to the side of car, running-board or on the rear, or suspended anywhere.

Almost a necessity on roadsters where running-board space is limited; and an improvement and convenience on any car.

Made of malleable steel, and so constructed that tank is securely held in place by a screw clamping a spring over the tank beyond the center.

Neat, quickly detached, secure and classy.

- Price, black enameled, per pair..... \$1.00
Per Pair.. D.P. \$0.88

Prest-O-Lite Union



- Prest-O-Lite Union, each..... \$0.15
Per Dozen.. D.P. \$2.66

Gas Tank Key



- No. 3 Regular Gas Tank Key, each..... \$0.05
Per Dozen.. D.P. \$0.53 Per 100.. D.P. \$2.77



- No. 10 Gas Tank Key, each..... \$0.10
Per Dozen.. D.P. \$0.80 Per 100.. D.P. \$4.44

Rubber Generating Tubing



- Pure Gum Generator Tubing, 3/16x1/16 wall, packed 50 feet in box, per foot..... \$0.10
Per foot.. D.P. \$0.09
In 50-ft. Rolls, per foot.... D.P. \$0.08
- Pure Gum Generator Tubing, 1/4x1/16 wall, packed 50 feet in box, per foot..... 11
Per foot.. D.P. \$0.11
In 50-ft. Rolls, per foot.... D.P. \$0.09

- Pure Gum Generator Tubing, 3/16x1/8 wall, packed 50 feet in box, per foot..... 16
Per foot.. D.P. \$0.15 In 50-ft. Rolls, per foot.. D.P. \$0.13
- Pure Gum Generator Tubing, 7/32x1/8 wall, packed 50 feet in box, per foot..... 17
Per foot.. D.P. \$0.18 In 50-ft. Rolls, per foot.. D.P. \$0.16
- Pure Gum Generator Tubing, 1/4x1/8 wall, packed 50 feet in box, per foot..... 18
Per foot.. D.P. \$0.20 In 50-ft. Rolls, per foot.. D.P. \$0.18

Braidoid Gas Tubing

A single ply tubing of braided construction, designed especially for automobiles. Surrounding the tube, which is selected stock and guaranteed to withstand the action of all gases, is closely braided (not wrapped) a cover constructed of very strong, light thread. The outside cover and inner tubes are made of stocks guaranteed not to dry out or crack in any climate. Cured under pressure.



An ideal tubing for gas lamp connections and gas tanks. No nipples or rolled ends necessary. Will last for years. Practically indestructible. Very flexible. Will not kink or crack.

- Braidoid Gas Tubing, 3/16, packed 50 feet in box, per foot \$0.15
Per foot.. D.P. \$0.15 In 50-ft. Rolls, per foot.. D.P. \$0.14
- Braidoid Gas Tubing, 1/4, packed 50 feet in box, per foot..... 15
Per foot.. D.P. \$0.17 In 50-ft. Rolls, per foot.. D.P. \$0.16

Copper Tubing



Made of annealed, seamless tubing. Can be bent in any direction without fear of breaking. Cut to any length.

- Copper Tubing, 1/4-inch outside diameter, per foot..... \$0.15
Per foot.. D.P. \$0.18 In 100-ft. lots.. D.P. \$15.50
- Copper Tubing, 3/16-inch outside diameter, per foot..... 11
Per foot.. D.P. \$0.22 In 100-ft. lots.. D.P. \$20.00
- Copper Tubing, 1/2-inch outside diameter, per foot..... 20
Per foot.. D.P. \$0.26 In 100-ft. lots.. D.P. \$22.22
- Copper Tubing, 5/16-inch outside diameter, price, per foot 22
Per foot.. D.P. \$0.31 In 100-ft. lots.. D.P. \$27.00
- Copper Tubing, 3/4-inch outside diameter, price, per foot... 25
Per foot.. D.P. \$0.35 In 100-ft. lots.. D.P. \$31.00

Brass Tubing

Soft drawn seamless brass tubing for gas lines; also suitable for oil and gasoline.



- Brass Tubing, 1/2-inch outside diameter, per foot..... \$0.22
Per foot.. D.P. \$0.26 In 100-ft. lots.. D.P. \$20.00



LAMP BURNERS, BRACKETS, CARBIDE, WICKS AND CLEANERS



Gibson Quality Burner

This burner, while low in price, will give good service. Fitted with inner screen; furnished in $\frac{1}{2}$, $\frac{3}{4}$ and 1 foot size.

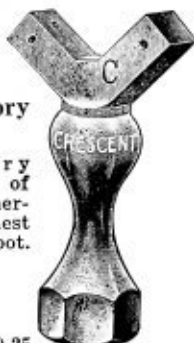
Each \$0.20
Doz. . D.P. \$1.33
Gross. . D.P. \$13.33



Crescent Victory Burners

Crescent Victory Burners are made of German Lava by American labor of highest skill; $\frac{1}{2}$, $\frac{3}{4}$ and 1 foot. Specify size desired.

Crescent Victory Burners with knurled pillar; each \$0.25
Dozen. . D.P. \$3.33
Gross. . D.P. \$33.33



Crescent Victory Burners with hex pillar; each \$0.25
Dozen. . D.P. \$3.88 Gross. . D.P. \$40.00



Von Schwarz "Perfection"

Perfection Burners are the acknowledged standard of merit; the burner with a worldwide reputation; $\frac{1}{2}$, $\frac{3}{4}$ and 1 foot. Specify size desired.

Von Schwarz Perfection Burners with knurled pillar; each \$0.35
Dozen. . D.P. \$5.55
Gross. . D.P. \$60.00

Von Schwarz Perfection Burners with hexapost; each \$0.35
Dozen. . D.P. \$5.55 Gross. . D.P. \$60.00



Von Schwarz "Koro"



A single jet slot burner which has no equal.

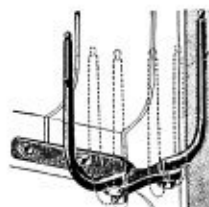
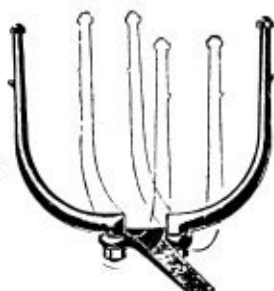
Von Schwarz Koro Burners; each. \$0.25
A highly satisfactory metal arm burner; guaranteed.

Dozen. . D.P. \$3.33
Gross. . D.P. \$33.33
Von Schwarz Mator Burners; each \$0.25
 $\frac{1}{2}$, $\frac{3}{4}$ and 1 foot.
Specify size desired.
Dozen. . D.P. \$3.33
Gross. . D.P. \$33.33



Head Light Brackets

No. 320. Adjustable Lamp Bracket; malleable iron, japanned finish, per pair. \$2.00
Per pair. . D.P. \$1.88



No. 321. Adjustable Lamp Bracket, malleable iron, japanned finish, per pair \$2.00
Per pair. . D.P. \$1.88

No. 323. Adjustable Lamp Bracket, malleable iron, japanned finish, per pair. \$2.50
Per pair. . D.P. \$1.88



Calcium Carbide

2-lb. Cans, $\frac{1}{2}$ -in. Carbide, each \$0.25
Each. . D.P. \$0.35
Per case, containing 24 2-lb. cans 4.80
Per case. . D.P. \$8.00
10-lb. Cans, $\frac{1}{2}$ or 1-in. Carbide, each90
Each. . D.P. \$1.55
Per case, containing 6 10-lb. cans 5.10
Per case. . D.P. \$8.66
100-lb. Drums, size $1\frac{1}{2} \times 1\frac{1}{2}$ 6.00
Each. . D.P. \$7.77

Economy Burner Cleaner



High grade burner cleaner. Carefully made.

Price, each \$0.10
Dozen. . D.P. \$1.06

Lamp Wicks



These are the finest wicks for use in oil lamps; are very closely woven and are made in all sizes.

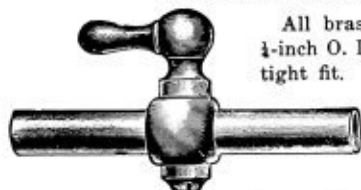
Lamp Wick, $\frac{1}{2}$ or $\frac{3}{4}$ inch, per doz. \$0.20
Dozen. . D.P. \$0.22



The GIBSON COMPANY INDIANAPOLIS

GAS TUBING NIPPLES, BAGS AND LAMP CONNECTIONS

Gas Tubing Cock No. 1



All brass ends reamed to fit $\frac{1}{4}$ -inch O. D. tubing. Makes gas-tight fit.

Price, each... \$0.30
Doz... D.P. \$5.28

Rubber Lamp Connection

A connection for attaching lamp to copper tubing.

Made of fine Para Gum. Both ends are equipped with heavy molded nipples. This makes the connection so strong that it will not deteriorate by frequent attaching or detaching.

Price, each \$0.15
Dozen... D.P. \$2.22



Flexible Lamp Connection



Made of $\frac{1}{4}$ -inch polished brass with rubber ends to fit lamp and pipe connection.

Not only adds to the appearance of the car but will last many years, thereby eliminating the usual trouble of rubber hose.

Cannot become porous and therefore saves gas.

Flexible Lamp Connections, brass, each \$0.25
Doz... D.P. \$3.33

Flexible Lamp Connections, nickel, each \$0.30
Dozen... D.P. \$4.00

Gas Bags

Gas Bags, each \$0.25
Dozen... D.P. \$4.52



Gas Tubing Nipples

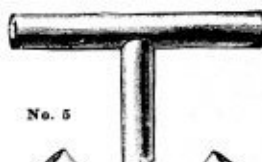


No. 17



No. 15

Gas Tubing Nipples



No. 5



No. 2



No. 1



No. 6



No. 3



No. 4



No. 9



No. 16

No. 1 Gas Tubing Nipples, per dozen.....	D.P. \$0.88
No. 2 Gas Tubing Nipples, per dozen.....	D.P. 1.11
No. 3 Gas Tubing Nipples, per dozen.....	D.P. 1.54
No. 4 Gas Tubing Nipples, per dozen.....	D.P. 1.11
No. 5 Gas Tubing Nipples, per dozen.....	D.P. 2.00
No. 6 Gas Tubing Nipples, per dozen.....	D.P. 2.00
No. 9 Gas Tubing Nipples, per dozen.....	D.P. 4.88
No. 15 Gas Tubing Nipples, per dozen.....	D.P. 2.44
No. 16 Gas Tubing Nipples, per dozen.....	D.P. 4.66
No. 17 Gas Tubing Nipples, per dozen.....	D.P. 4.66

Nos. 1, 2, 3 and 4 are made of solid brass castings and are about $\frac{1}{4}$ inch in diameter, and are for rubber tubing with $\frac{1}{8}$ -inch hole.

Nos. 5 and 6 are made from smooth brass and will fit $\frac{1}{4}$ -inch brass or copper tubing.

No. 9 Brass Unions turned from solid heavy brass. One end threaded regular $\frac{1}{4}$ -inch gas pipe thread. Other end drilled $\frac{1}{4}$ -inch hole to take $\frac{1}{4}$ -inch O. D. tubing. Ground taper joint.

Unions Nos. 15, 16 and 17 are made from tubing, are brazed so that tubing can be soldered in without any injury to the unions. Are $\frac{1}{4}$ inch inside diameter to take $\frac{1}{4}$ -inch outside diameter tubing. Ground taper joint.



ROAD GUIDES

Blue Book



Flexible Leather Bound

THE AUTOMOBILE BLUE BOOKS

OFFICIAL GUIDE OF THE A. A. A.—KNOWN EVERYWHERE BY MOTORISTS

Standard Road Guide of America

Volume 1—New York State and Adjacent Canada

Including Long Island, and adjacent States as far as New Haven, Danbury and Waterbury, Conn., Pittsfield, Mass., Rutland and Burlington, Vt.; and extension routes to Cleveland, Ohio; Pittsburgh, Wilkes-Barre, Scranton and Delaware Water Gap, Pa.; Trenton, Asbury Park and Atlantic City, N. J.

Volume 2—New England and Maritime Provinces

Including Long Island, New York City and extension routes into eastern New York State, as far west as the eastern shore of the Hudson, Albany, Lake George, Lake Champlain and Montreal and Quebec.

Volume 3—New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia and West Virginia

Including also all main highways out of New York City, the main highways into northern Virginia and West Virginia, and eastern Ohio to Canton and Cleveland.

Volume 4—The Middle West States

Illinois, Indiana, Ohio, Michigan, Wisconsin and Kentucky; with extension routes to Buffalo, N. Y.; Pittsburgh, Pa.; Wheeling and Charleston, W. Va.; Nashville, Tenn.; St. Louis, Mo.; Burlington and Davenport, Iowa; St. Paul and Minneapolis, Minn.; London, Hamilton and Niagara Falls, Ont., Can.

Volume 5—Mississippi River to the Pacific Coast

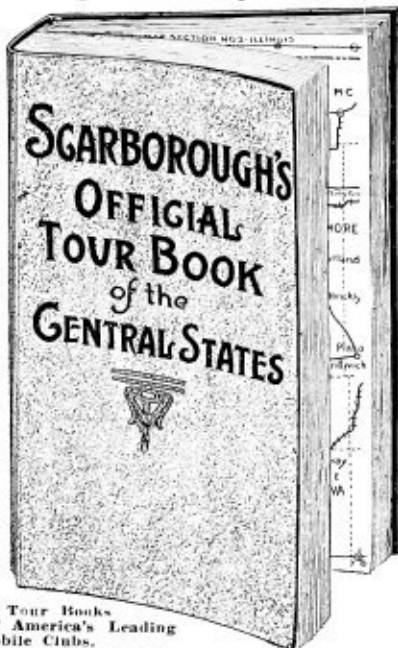
With connecting highways from Chicago. This volume features particularly the main transcontinental routes to the Pacific Coast, covering in addition, all main highways throughout the intervening States.

Volume 6—The Southeastern States

Including Virginia, West Virginia, North and South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana and Tennessee, with extension routes into Kentucky and the main highway south from Washington and Hagerstown.

Per volume \$2.50
Each. .D.P. \$3.88

Scarborough's Road Maps and Tour Books



Official Tour Books of 77 of America's Leading Automobile Clubs.

Description of Volumes—CENTRAL STATES

This new Tour Book combines in one volume all the road data formerly contained in our Indiana, Ohio, Michigan, Illinois and Wisconsin Motor Guides, to which have been added trunk line trips to Kansas City, Omaha, Minneapolis, Duluth, Buffalo and New York City, and the Dixie Highway south to Miami, Fla. Also our pathfinders this year have charted over 15,000 miles of new roads, and checked over and revised where necessary practically all of the old road data. This work brings our Central States Tour Book entirely up to date, making it the most dependable and complete touring guide for this territory.

New maps have been made of all the leading cities, showing the location of the principal streets and the ways of entering and leaving. Also brand new road maps have been made of the entire Central States, giving all the turns, railroad crossings, cross roads, spurs, etc., of the charted trips.

This data has been arranged in logical order and is conveniently and completely indexed. It is the official tour book of the Hoosier State Automobile Association and its affiliated clubs, Wolverine Automobile Club and the Columbus and Cincinnati Automobile Clubs.

Price, bound in best grade Fabrikoid leather. . . . \$1.50

NEW YORK, CANADA AND THE EAST

The most complete and up-to-date tour book of New York, Canada and the Eastern States ever compiled. Made under the direction of the New York State Automobile Association and its affiliated clubs, and recognized by them as their official guide. The road data, all gathered in 1914 and revised in 1915, in co-operation with the local association clubs, assure the tourist of new and up-to-date routes. A total of over 50,000 miles charted roads in this one volume, 5,000 miles of roads in Canada. Contains twice the charted mileage, in New York State alone, of its nearest competitor. The Catskill and Adirondack sections wonderfully complete. Contains all the leading trips as far east as Newport, R. I.; Worcester, Mass.; Springfield, Mass.; the Berkshires and Boston; the leading routes through Vermont and New Hampshire to the White Mountains; the principal routes as far north as Montreal and Quebec, Canada; as far northwest as Ottawa and North Bay, Ont.; as far west as Detroit and Port Huron, Mich.; Cleveland, Ohio, and Chicago, Ill., and as far south as Pittsburgh and Philadelphia, Pa. and Atlantic City, N. J., with all the main routes across that State.

In addition to the road information, this book contains a complete road map of New York State, showing every road, as appears on the plat books of the various county commissioners, with the charted trips in red. Bound in best grade Fabrikoid leather and fully indexed and cross-indexed for the convenient use of the tourist.

Each \$1.50
Each. .D.P. \$1.66



CLOCKS

Keyless Auto Clocks

RIM WIND—RIM SET. EIGHT-DAY

Made by the largest Manufacturers and Distributors of Automobile Clocks in the World.



Keyless Auto Clocks are the most practical auto clocks made. The unique way of winding and setting by the rim, thus eliminating the use of a key or a projecting stem, has made them very popular with the trade. They run eight days with one winding, are fully guaranteed, and are without doubt the handsomest auto clocks on the market. They are built especially for automobiles and will stand the hardest vibration, and keep time under the most trying conditions. Popular style cowl clocks for all the new model cars.

No. 7—Eight-Day Rim Wind and Set Auto Clock, 2½-inch dial, each.....\$9.50
Each..D.P. \$13.88

No. 12—Eight-Day Rim Wind and Set Auto Clock, 2½-inch dial, each..... 9.00
Each..D.P. \$13.32

New Haven One-Day Stem Wind

These clocks are very neat in appearance, accurate timekeepers and are the most popular clocks of the lower-priced models.



No. 1

No. 1—One-Day Small Offset Model Auto Clock with winding stem and attaching screws concealed, 2½-inch dial, each.....\$2.25
Each..D.P. \$3.10

No. 4—One-Day Cowl Model, 2½-inch dial, concealed winding, will fit any cowl dash, each..... 2.75
Each..D.P. \$3.88



No. 4

New Haven Eight-Day Clocks

New Haven Automobile Clocks are guaranteed to keep perfect time under the most trying conditions. The movements have been greatly simplified, and all parts are made of hard brass and highly tempered steel, insuring greater stability and better timekeeping. All clocks are closely tested in the factory under conditions similar to those encountered in actual service.



No. 2

No. 2—Eight-Day Offset Model Auto Clock, 2½-inch dial, each..\$4.50
Each..D.P. \$6.66

No. 3—Eight-Day Cowl Model Auto Clock, 2½-inch dial, each.. 4.50
Each..D.P. \$6.66



No. 3

Lewis Nojar Rubber Retained Auto Clock

The Nojar is entirely encased in heavy highest quality red rubber, eliminating the possibility of shock, jar, jolt or vibration. As rubber is non-conducting, electrical disturbance positively has no effect upon this rubber-retained clock.



No. 10

No. 10 Lewis Nojar Rubber-Retained Clock for Ford or Dodge cars. Attached quickly to steering post by removing nut at top of steering wheel, each....\$2.50
Each..D.P. \$3.88

No. 20 Lewis Nojar Rubber-Retained Clock for use on dash of any car, each..... 3.00
Each..D.P. \$4.66



No. 20



CLOCKS

Waltham Automobile Clocks

ACCURATE AND RELIABLE

Waltham Clocks are the best and highest priced clocks that are offered to the trade and are sought by those who insist on having a thoroughly reliable and correct timepiece.

Waltham Automobile Clocks are stem wind and stem set—the winding crown is always accessible. Movement need never be exposed to elements in any model. Adjusted to temperature. Will run eleven days with one winding, two extra long main springs making this possible. Fifteen jewels. Winding Indicator feature shows red spot on face of dial three days before clock runs down.



Model C

The Waltham is Standard Equipment on the following cars:

Crane	Pierce-Arrow
Detroit	Rauch & Lang
Franklin	Rolls-Royce
Jeffery	Russell-Knight
Locomobile	Stevens-Duryea
Marmon	Simplex
Packard	



Model S



Model O

The Waltham (Model C) is the only automobile clock endorsed and supplied for special equipment by the Cadillac factory on their new eight cylinder car.

Model V—same as Model C with 3½-in. dial.

Model W—same as Model C with 4-in. dial.

For Limousines, Coupes or other closed cars, Model "B" is especially recommended. This is usually preferred in oxidized silver finish.



Model B

Waltham Clocks, all models, each \$25.00

Each...D.P. \$44.44

Above price includes choice of finish on cases and dials as follows:

Cases—	Dials—
Black Enamel	Black
Brass	Silver
Nickel	White Enamel
Oxidized Silver	



RADIATOR ORNAMENTS



No. 5430 Doctor's Cross,
height 3 inches, width
2½ inches, each\$1.50
Each..D.P. \$2.22



No. 5420 Masonic Emblem,
height 4 inches, width
5½ inches, each\$1.50
Each..D.P. \$2.22



No. 8065 Shriner Emblem,
with Tiger Claw,
height 4 inches, width
3 inches, each\$1.75
Each..D.P. \$2.66



No. 8061 Shriner Fes.
height 3½ inches, width
3 inches, each\$1.75
Each..D.P. \$2.66



No. 8063 Doctor's Cross,
height 4 inches, width
3½ inches, each\$1.75
Each..D.P. \$2.66



No. 5421 Shriner Emblem,
height 2½ inches, width
4½ inches, each\$1.50
Each..D.P. \$2.22



No. 8070 Eagle, with U.
S. Shield, height 4
inches, width 2½ in-
ches, each\$1.75
Each..D.P. \$2.66



No. 8054 Knights of
Pythias Emblem,
height 4½ inches, width
3 inches, each\$1.75
Each..D.P. \$2.66



No. 5273 Elk Emblem,
height 5 inches, width
4½ inches, each\$1.75
Each..D.P. \$2.66



No. 8066 Red Men Em-
blem, height 4½ inches,
width 3 inches, each .\$.1.75
Each..D.P. \$2.66



No. 8113 Whirling Cop,
height 8½ inches, width
4½ inches, each\$1.25
Each..D.P. \$1.88



No. 5419 Eagle, height 4
inches, width 7 in-
ches, each\$1.25
Each..D.P. \$1.88

No. 5311 Eagle, height 6
inches, width 11 in-
ches, each\$3.00
Each..D.P. \$4.44



No. 8059 Elk Emblem,
height 4½ inches, width
3½ inches, each\$1.75
Each..D.P. \$2.66



No. 8088 Oddfellow Orna-
ment, height 4 inches,
width 3 inches, each..\$1.75
Each..D.P. \$2.66



No. 5177 Gobbie, height
4½ inches, width 2½
inches, each\$1.75
Each..D.P. \$2.66



No. 6935 Winged Wheel,
height 3½ inches, width
4½ inches, each\$1.75
Each..D.P. \$2.66



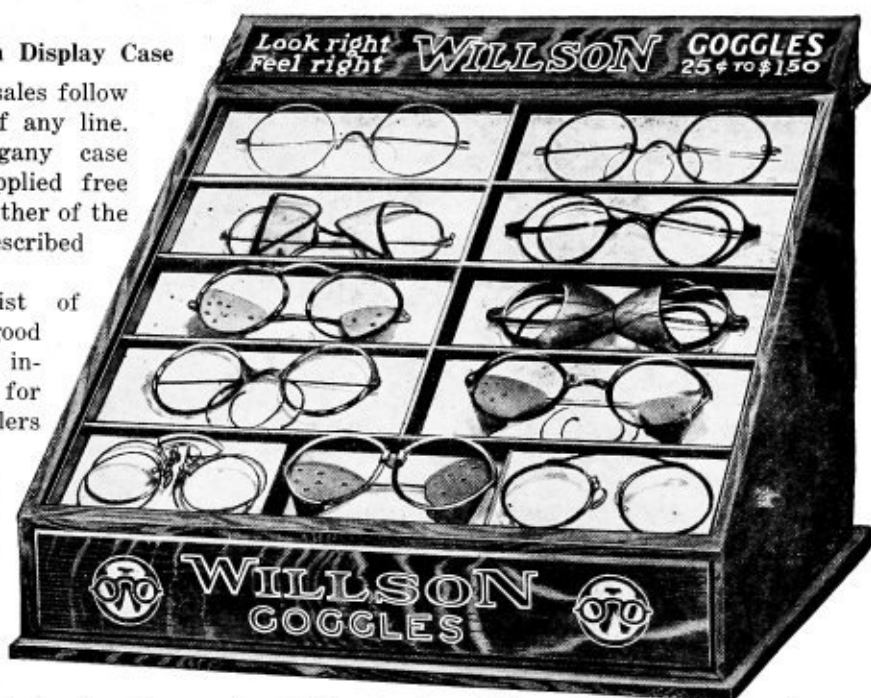
GOGGLES

Willson Goggles In Display Case

Largely increased sales follow the proper display of any line. A handsome mahogany case 11½x14x12½ is supplied free to the purchaser of either of the three assortments described below.

Assortments consist of twelve styles, all good sellers. There is an increasing demand for goggles which dealers should be prepared to meet, and in no way can this be done as satisfactorily as with these assortments.

The line is comprehensive, popular, distinctive, with many exclusive features. Goods American-made. Deliveries dependable. Wide range of prices and styles to meet every need. High standard of quality.



Display Outfit No. 1

	Per Pair	
6 pairs No. 72594	\$.025	\$1.50
3 pairs No. Z79594	.50	1.50
6 pairs No. US Goggles	.50	3.00
6 pairs No. K7	.75	4.50
3 pairs No. A1	1.00	3.00
3 pairs No. K1	1.00	3.00
3 pairs No. Z21	1.00	3.00
2 pairs No. Z1W	1.25	2.50
2 pairs No. ZF1W	1.50	3.00
2 pairs No. Z5	1.00	2.00
4 pairs No. Z9659	.50	2.00
7 pairs No. 8759	.25	1.75

Total value of Outfit No. 1.....\$30.75

D.P. \$33.32

Display Case Outfit No. 2

	Per Pair	
9 pairs No. 72594	\$.025	\$2.25
6 pairs No. Z79594	.50	3.00
9 pairs No. US Goggles	.50	4.50
9 pairs No. K7	.75	6.75
6 pairs No. A1	1.00	6.00
4 pairs No. K1	1.00	4.00
6 pairs No. K21	1.00	6.00
4 pairs No. Z1W	1.25	5.00
3 pairs No. ZF1W	1.50	4.50
4 pairs No. Z5	1.00	4.00
6 pairs No. Z9659	.50	3.00
8 pairs No. 8759	.25	2.00

Total value of Outfit No. 2.....\$51.00

D.P. \$55.55

Display Case Outfit No. 3

	Per Pair		Per Pair		
9 pairs No. 72594	\$.025	\$2.25	6 pairs No. Z1W	\$1.25	\$7.50
12 pairs No. Z79594	.50	6.00	6 pairs No. ZF1W	1.50	9.00
24 pairs No. US Goggles	.50	12.00	6 pairs No. Z5	1.00	6.00
24 pairs No. K7	.75	18.00	6 pairs No. Z9659	.50	3.00
12 pairs No. A1	1.00	12.00	9 pairs No. 8759	.25	2.25
12 pairs No. K1	1.00	12.00			
12 pairs No. Z21	1.00	12.00			

Total value of Outfit No. 3.....\$102.00

D.P. \$111.10



GOGGLES

Z1W Zylbex Eye Protector



No. Z1W Zylbex Eye Protector. Attractive shell frame with comfortable ventilated leather side guards and easy cable temples of white metal. Amber color, particularly useful for motoring. Each pair in a handsome steel case.

Per Pair \$1.50
Per Dozen Pairs. .D.P. \$16.66

Z21 Zylbex Eye Protector



No. Z21 Zylbex Protection Glass. A novel and distinctive style—new in every way. Combines high quality, comfort, distinction, and great value at a reasonable price. Very desirable for golfing, shooting, motoring, at the seashore, and for all sports where eyes need protection from wind and glare. They can be worn over other glasses. The construction and appearance of this glass will appeal to buyers who want refinement and quality. The value of this protection glass needs no comment to wide awake dealers. Fine quality zylonite (imitation tortoise shell) frames; gilt alloy or white metal cable riding bow temples. High-grade mi-coquille lenses in amber, fluzal, smoke or white. 1 3/4 in diameter. Each pair supplied in a neat box.

Per Pair \$1.00
Per Dozen Pairs. .D.P. \$11.65

ZF1W Zylbex Self-Adjusting Goggle



No. ZF1W Zylbex Self-Adjusting Goggle. Positively the last word in comfort for the motorist. Owing to the use of a flexible pure silk bridge the goggle perfectly adjusts itself to the shape of any face, thus combining complete protection with unusual comfort. The frames surrounding the eyes are imitation tortoise shell, the ventilated side guards are leather and the easy cable temples are made of white metal—an ideal combination of materials. Each pair in a handsome leather-covered metal case. You may confidently recommend this style to your fastidious customers as being the best motoring glass on the market, regardless of price.

Per Pair \$1.50
Per Dozen Pairs. .D.P. \$20.00

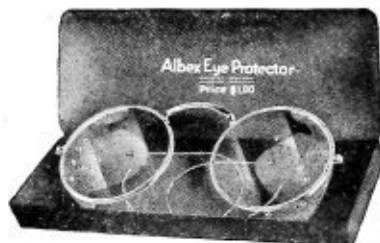
Universal Goggle



This style represents a remarkable value and will appeal to those who wish to pay only 50 cents for a goggle. Made of rust-proof white metal, riding bow temples, saddle bridge. Amber, smoke or blue lenses 1 3/4-inch diameter. Each pair furnished in an attractive, blinged cover, black box.

Per Pair \$0.50
Per Dozen Pairs. .D.P. \$6.66

Albex Eye Protector



No. A1 Albex Goggle is without doubt one of the most popular styles. Light as a feather, compact, adjustable and perfectly complete in its protection. Solid white metal frame, easy cable temples, well ventilated, leather sides and the exclusive Wilson adjustable brace bridge.

Per Pair \$1.00
Per Dozen Pairs. .D.P. \$13.32

Gilt Alloy Eye Glass



No. 8759 Gilt Alloy Eye Glass, with black offset guards and large round lenses, amber and smoke.

Per Pair \$0.25
Per Dozen Pairs. .D.P. \$2.66

GOGGLES

Zyl-Edge Eye Glass



No. Z9659 Zyl-Edge Eye Glass. A neat eye glass with round colored lenses edged with shell. A large seller because of its appearance and value, notwithstanding low price. Amber lenses. Each pair in a neat carton.

Per Pair \$0.50
Per Dozen Pairs..D.P. \$5.32

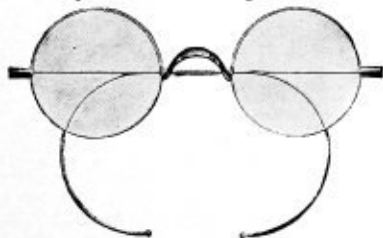
Zylbex Eye Glass



No. Z5 Zylbex Eye Glass. An unusually distinctive imitation tortoise shell eye glass with black metal guards and gilt alloy spring, particularly well adapted for ladies who may want eye protection and yet who prefer an eye glass to the ordinary kind of goggle. Amber color. Each pair in a neat carton.

Per Pair \$1.00
Per Dozen Pairs..D.P. \$13.32

Eye Protector Spectacle



No. 72594 Eye Protector Spectacle, with white metal frame and easy cable temples. Large, round lenses, 1 1/4 inches in diameter, assorted amber, smoke and white colors. A useful but inexpensive style for driving, motoring and industrial purposes, such as grinding.

Per Pair \$0.25
Per Dozen Pairs..D.P. \$3.32

Eye Protector Spectacle



No. Z79594. An attractive Eye Protector Spectacle, with neat shell rims around the lenses. Gilt mountings, easy cable temples and large round lenses 1 1/4 inches in diameter, assorted amber and smoke. This is our new Zyl-Edge Protection Glass style, very popular where protection against sun and snow glare is desirable. Each pair in a neat carton.

Per Pair \$0.50
Per Dozen Pairs..D.P. \$8.33

Imitation Tortoise Shell Spectacle



No. K7 Imitation Tortoise Shell Spectacle. Large, round lenses, amber and smoke. Will sell at sight because of excellent finish and superior design. Each pair in a neat carton.

Per Pair \$0.75
Per Dozen Pairs..D.P. \$10.00

Imitation Tortoise Shell Goggle



With Side Shields

No. K1 Imitation Tortoise Shell Goggle with Side Shields. Owing to the unique construction, this goggle differs from other shell goggles with side shields in being neat and light in weight. Amber color. Each pair in a handsome case.

Per Pair \$1.00
Per Dozen Pairs..D.P. \$13.32



The GIBSON COMPANY INDIANAPOLIS

PADLOCKS

Yale Padlocks



No. D1701BS

No. D1701BS—1½ inches; cast bronze case, nickel-plated steel shackle; four pin-tumblers; two paracentric keys; changes practically unlimited. With dust guard, each\$1.60
Dozen . . . D.P. \$25.00



No. 701BS

No. 701BS—1½ inches; cast bronze case; nickel-plated steel shackle; four pin-tumblers; two paracentric keys; changes practically unlimited, each\$1.10
Dozen . . . D.P. \$21.30



No. 815—1 inch; bronze case, fine wheel finish; bronze wire shackle, wheel finish; three lever-tumblers; two fluted keys, forty-eight changes, each\$1.20
Dozen . . . D.P. \$20.22



No. 823—Standard

No. 823—1½ inches; bronze case and shackle, fine wheel finish; three lever-tumblers; two fluted keys, forty-eight changes, each\$1.20
Dozen . . . D.P. \$22.22



No. 830—Standard

No. 830—1½ inches; cast bronze case; steel shackle; five pin-tumblers; two paracentric keys, changes practically unlimited, each\$1.60
Dozen . . . D.P. \$29.10



No. 833—2 inches; bronze case and shackle, fine wheel finish; four lever-tumblers; two fluted keys, 144 changes, each\$1.75
Dozen . . . D.P. \$32.00



No. 830



No. 8414—Monitor

No. 8414—1 inch; Bower buffed steel case and shackle; three lever-tumblers; three flat steel keys, forty-eight changes, each\$0.75
Dozen . . . D.P. \$13.32



No. 8434V—Monitor

No. 8414V—1 inch; sand blasted brass case; polished brass shackle; three lever-tumblers; two flat steel keys, forty-eight changes, each\$0.80
Dozen . . . D.P. \$17.32



No. 6128—Terror

No. 8434V—1½ inches; sand blasted brass case; polished brass shackle; three lever-tumblers; two corrugated steel keys, forty-eight changes, each\$1.20
Dozen . . . D.P. \$21.77



No. 681V

No. 6128—1½ inches; ivory black steel case; nickel-plated steel shackle; two lever-tumblers; two flat steel keys, twelve changes, each\$0.35
Dozen . . . D.P. \$5.55



No. 681V—1 inch; dipped bright brass case and shackle; four lever-tumblers; two flat steel keys, twelve changes, each\$0.50
Dozen . . . D.P. \$8.10



PADLOCKS

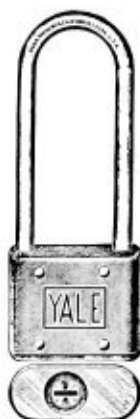
Yale Padlocks



No. 8302 1/2



No. 61582—Terror



No. 5632 1/2 UX—Defiance



No. 2115J



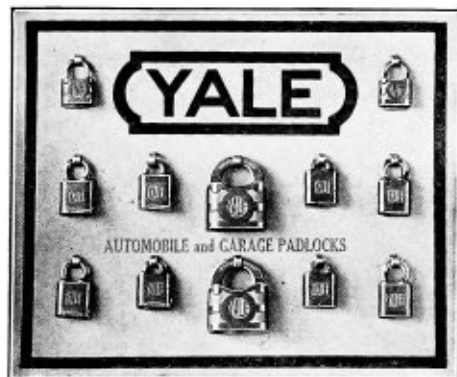
No. 8302 1/2—1 1/2 inches; cast bronze case; steel shackle with 2 1/2-inch clearance; five pin-tumblers; two paracentric keys; changes practically unlimited, each.....\$1.50
Dozen..D.P. \$31.10

No. 61582—2 inches; ivory black steel case; nickel-plated steel shackle with 2 3/4-inch clearance; two lever-tumblers; two flat steel keys; twelve changes, each... .40
Dozen..D.P. \$7.55

No. 5632 1/2 UX—1 1/2 inches; buffed brass case; nickel-plated steel shackle with 2 1/2-inch clearance; three lever-tumblers; two flat steel keys, forty-eight changes, each\$0.90
Dozen..D.P. \$17.32

No. 2115J—2 inches; black japanned ivory case; nickel-plated steel shackle with 6 1/2-inch clearance; two corrugated steel keys, six changes, each..... .50
Dozen..D.P. \$8.32

Padlock Cards



No. N5 Padlock Card
Size 13 1/2 x 15 1/2 inches



No. N16 Padlock Card
Size 13 1/2 x 15 1/2 inches

The padlocks on this card are specially adapted for use on automobiles and garages. The locks are as follows:

	No.	Size	Case
	853	2 inch	Bronze
2	815	1 inch	Bronze
2	D1701BS	1 1/4 inch	Bronze
2	D701BS	1 1/4 inch	Bronze
2	1701BS	1 1/4 inch	Bronze
2	701BS	1 1/4 inch	Bronze

Price, each card.....\$15.75

Per Card..D.P. \$24.44

This assortment is the same as N5 except that one each of Nos. 815, 701BS, D701BS, 1701BS and D1701BS are buffed nickel finish.

No.	Size	Case
1	815	1 inch Bronze
1	815N	1 inch Nickel plated
2	853	2 inch Bronze
1	701BS	1 1/4 inch Bronze
1	701BSN	1 1/4 inch Nickel plated
1	D701BS*	1 1/4 inch Bronze
1	D701BSN*	1 inch Nickel plated
1	1701BS	1 inch Bronze
1	1701BSN	1 inch Nickel plated
1	D1701BS*	1 inch Bronze
1	D1701BSN*	1 inch Nickel plated

List Price, each card.....\$16.35

*With dust guard.

Per Card..D.P. \$25.55



LOCKS

Padlock



No. 223 Yale Padlock,
1½-inch, 2 flat steel
nickel keys, case
iron bower-barfed,
panels wrought steel,
brass plated, shackle
steel brass plated,
each \$0.35

Doz. . . D.P. \$6.22

The Improved Keyless Wonder Padlock



Labyrinth System
Padlock

Simple and convenient. Eight parts. No numbers to look for, no tumblers or springs to stick or jump out of place. Always responds to correct combination.

Not affected by climate, water, dust or oil. Guaranteed.

No. 5 Keyless Padlock, dull black enamel finish, each \$0.75
Each. . . D.P. \$1.10

Special Information

To open, simply turn knob a few times to left and right—counting number of clicks—it opens at once. Can be operated with gloves on, at night. Cannot be opened unless combination is known. Every padlock is put up in individual carton with complete instructions for operating.

All locks are secretly numbered and combinations recorded at factory for information of proper parties only. Can furnish any number of locks set on different combinations, or all set on the same number.

Evans Auto Lock



The Evans Auto Lock is a polished cast brass case, adjustable tempered steel shackle, double locking bolts, multiple changes, furnished with two corrugated steel keys. The entire lock is strongly built of finest material by experienced workmen and will last a lifetime.

Will positively lock practically every make of car on the market. Simply slip the steel shackle around one or both of the levers and one spoke of the steering wheel or a part of the steering post frame, then slip on the brass lock. Your car is now securely locked and you have the assurance that it will be where you left it when you want it. Most simple and easiest locking device on the market. Nothing can get out of order.

Each \$1.00
Each. . . D.P. \$1.66

American Chain Lock

American Chain Automobile and Tire Locks are made of the flat link American type steel chain. They offer many advantages over the ordinary chain lock because of the flat links, which give the chain a strap-like action, and permit its being drawn closely



around shoes and running board or through a wheel and spring or frame, making the only real protection against automobile thieves. They are simple, strong, noiseless and when not in use take up small space in the tool box.

Chain covered with best grade genuine oil-tanned leather, complete with lock.

No. 50 Automobile Lock with 36-in. chain, each...\$1.25
Each. . . D.P. \$1.66

No. 501 Automobile Lock with 42-in. chain, each. 1.50
Each. . . D.P. \$2.00

Chain For Auto Locks



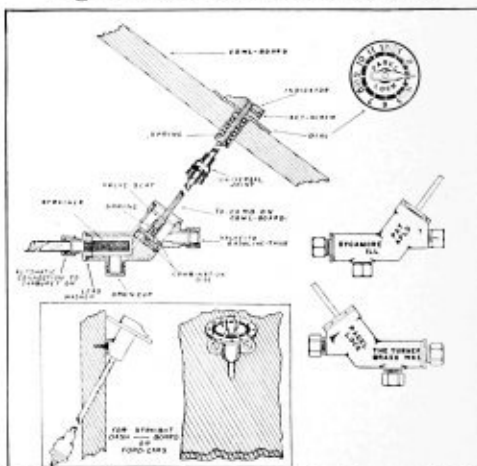
No. 12 Bright Chain (without lock), 36-in., each...\$0.40
Each. . . D.P. \$0.55

No. 121 Bright Chain (without lock), 42-in., each. . . 50
Each. . . D.P. \$0.66

No. 52 Bright Chain, covered with best grade oil-tanned leather (without lock), 36-in., each..... 80
Each. . . D.P. \$1.22

No. 521 Bright Chain, covered with best grade oil-tanned leather (without lock), 42-in., each..... 95
Each. . . D.P. \$1.44

Pagel Combination Gasoline Lock



The Pagel Combination Gasoline Lock is a safety device operated from the dash, giving absolute control of the fuel supply. The increasing number of automobile thefts has created a demand for a safety lock that is effective against thieves. Easily installed and simple in construction, neat and attractive and reasonable in price. The Pagel fills every requirement.

Each \$5.00
Each. . . D.P. \$8.88



FOLDING BUCKETS, BASKETS, TRUNKS, ETC.

The Duplex Folding Canvas Pail



No. 12 Open

The Duplex Water Pails are the only collapsible or folding pails that you can throw water with, or that can be set down without losing contents. Rigid, strong and simple, they occupy less space when folded than any other. Made of heavy brown



Closed

canvas, water-proofed. Metal parts are spring steel, rust-proofed. They are water-tight in any climate and will not become brittle or decay through use or disuse.

No.	Capacity	Diam.	Depth	Folds Into	Each
4	6 qts.	11 in.	7½ in.	10½x6x2½ in.	\$1.00
12	10 qts.	11 in.	9½ in.	13½x6x2½ in.	1.50



No. 5 Open

The Duplex Automobile Pails have splash guard, strainer and spout, which allows water to be secured from any lake or stream, and the radiator, tea kettle or glass filled with water strained clean enough to drink. The



Closed

quick, easy way of opening and folding appeals to every one, and the fact that they can be carried folded flat under seat cushion, or folded double in tool box, makes them handy and not cumbersome when not in use. The ideal outing pails.

No.	Capacity	Diam.	Depth	Folds Into	Each
3	6 qts.	10 in.	7½ in.	10½x6x2½ in.	\$1.50
5	10 qts.	11 in.	9½ in.	13½x6x2½ in.	2.00

The Duplex Handy Baskets carry liquids or solids equally well and will keep ice or water cool. They can be washed or you can wash dishes in them. Made of brown canvas, water-proofed. Metal parts are spring steel, rust-proofed. All have double handles and covers fasten with pull-down snap hooks. For campers, excursions, fishermen, picnics or marketing they are ideal, as when empty they can be folded and packed away in a very little space.

A Folding Refrigerator Basket



No.	Length	Width	Depth	Folds Into	Each
316	16 in.	9½ in.	7½ in.	10½x8½x3 in.	\$2.00
316	18 in.	11 in.	9½ in.	12 x9½x3 in.	2.50

BOKO BUCKET



The Boko is a two-gallon rubber bucket for either gasoline or water. As you will see by the illustration, a flexible tube fastens over the end when the bucket is full of fluid. This tube not only takes the place of a funnel, but also eliminates the use of any valves. There is, consequently, nothing to get out of order. It is always ready. Simply unhook the tube, place it in the opening in the gasoline or water tank, and a slight pressure with the finger on the tube gives perfect control of the flow.

Each \$1.25
Each...D.P. \$2.08

Trunks



No. 12 Auto Case. Made of heavy black enameled duck and best quality trunk board, with steel frames, top and bottom. Edges leather bound and stitched, hinges and handles hand riveted. Solid leather corners with brass-ball-head rivets and extra large studs on bottom. Lined. Fitted with 2½-in. trays and heavy harness leather straps. With three leather trunk handles, one in front and one on each end. Size, 28x12x14-in., each \$9.00
Each...D.P. \$14.44

No. 112 Same as No. 12, only larger. Size, 30x12x14-in., each 10.00
Each...D.P. \$16.66

Wilcox Folding Trunk Carrier



For trunks 28, 30 and 32 inches in length. Width open, 18 inches; width folded, 12 inches. In ordering state length of trunk.

No. 244 Wilcox Folding Trunk Carrier, each \$2.00
Each...D.P. \$2.77



The GIBSON COMPANY INDIANAPOLIS

VACUUM BOTTLES AND FOOD JARS

Universal Vacuum Bottles



Popular priced bottle. Heavy cold rolled metal with fine baked black enamel finish. Heavily tinned seamless cap. Patented shock absorber. No paper or pads to become foul. Made in pints and quarts only.

	Each
No. 61 Pint	\$1.00
Each...D.P. \$1.66	
No. 62 Quart	2.00
Each...D.P. \$3.32	

Black enamel body and nickel plated shoulder and cap, an attractive combination. Rubber gasket in shoulder. Patented spring retainer and shock absorber.

	Each
No. 70 Half Pint	\$1.25
Each...D.P. \$2.08	
No. 71 Pint	1.25
Each...D.P. \$2.08	
No. 72 Quart	2.25
Each...D.P. \$3.75	



Universal Vacuum Food Jars



Pint Japan Food Jar

Will carry and maintain temperature of hot baked beans, meat stews, etc., or cold salads, ice cream and ices.

These "Universal" Vacuum Jars have a heavy cold rolled metal case with baked black enamel finish. The cap is seamless drawn steel heavily tinned. Bayonet clasps. Full width mouth, highest quality filler, protected from breakage by patented spring retainer. An efficient inexpensive jar. Made in pints and quarts only.

	Each
No. 711 One Pint	\$1.50
Each...D.P. \$2.48	
No. 911 Extra Filler	1.25
Each...D.P. \$2.08	
No. 712 One Quart	2.50
Each...D.P. \$4.18	
No. 912 Extra Filler	2.00
Each...D.P. \$3.32	



Quart Japan Food Jar



"Universal" standard full nickled bottle, made of seamless nickel plated brass. Simple and artistic in its lines. Perfectly smooth and beautifully finished. Rubber gasket in shoulder. Patented spring retainer and shock absorber.

	Each
No. 80 Half pint	\$1.50
Each...D.P. \$2.50	
No. 81 Pint	1.50
Each...D.P. \$2.50	
No. 82 Quart	2.50
Each...D.P. \$4.18	

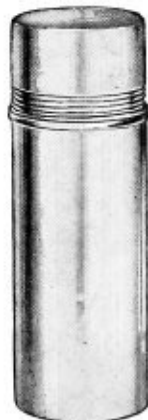
Extra Glass Fillers for these Bottles

	Each
No. 00 Half pint	\$0.85
Each...D.P. \$1.42	
No. 01 Pint .....	.85
Each...D.P. \$1.42	
No. 02 Quart	1.50
Each...D.P. \$2.48	

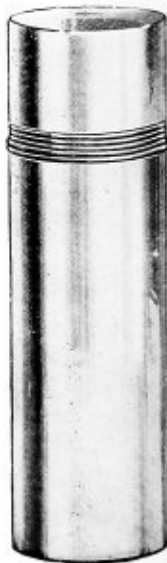
Keep Liquids Hot 24 hours, Cold 72 hours.



Half Pint Nickel Butter Jar



Pint Nickel Food Jar



Quart Nickel Food Jar

Full Nickel Jars. Excel in simplicity of construction and design. Cases are seamless drawn brass, smooth and beautifully finished in heavy nickel plate. Have drawn brass nickel plated shoulder and patented metal spring retainer to protect fillers. Highest grade full width mouth fillers. Med in quarts, pints and half-pints.

	Each		Each
No. 800 One-half Pint	\$2.00	No. 011 Extra Filler ...	1.25
Each...D.P. \$3.32		Each...D.P. \$2.08	
No. 010 Extra Filler ...	1.25	No. 812 One Quart	3.00
Each...D.P. \$2.08		Each...D.P. \$5.00	
No. 811 One Pint	2.00	No. 012 Extra Filler ...	2.00
Each...D.P. \$3.32		Each...D.P. \$3.32	



CARAFES AND CARRYING CASES



Heavy Nickel Plated Case



Full Nickel Plated Case Covering Glass Filler Completely

Universal Vacuum Carafes

Universal Carafes are all of one-quart capacity.

No. 822 With Metal and Cork Stopper.....	\$3.50
Each...D.P. \$5.82	
No. 8822 With Glass Stopper and Chain.....	4.00
Each...D.P. \$6.66	
No. 032 Extra Filler for No. 822.....	2.50
Each...D.P. \$4.18	
No. 0422 Extra Filler for No. 8822.....	3.00
Each...D.P. \$5.00	
No. 1822 With Metal and Cork Stopper.....	4.50
Each...D.P. \$7.50	
No. 2822 With Glass Stopper and Chain.....	5.00
Each...D.P. \$8.32	
No. 0122 Extra Filler for No. 1822.....	2.50
Each...D.P. \$4.18	
No. 0322 Extra Filler for No. 2822.....	3.00
Each...D.P. \$5.00	



Universal Carafe with Handle



Universal Carafe Carrier

Fits any quart size carafe. Made of solid brass, heavily nickel plated.

No. 5822 With Metal and Cork Stopper.....	\$5.00
Each...D.P. \$9.15	
No. 6822 With Glass Stopper and Chain.....	6.00
Each...D.P. \$10.00	
No. 0122 Extra Filler for No. 5822.....	2.50
Each...D.P. \$4.18	
No. 0322 Extra Filler for No. 6822.....	3.00
Each...D.P. \$5.00	
No. 39 Carrier and Glasses, without bottle.....	3.00
Each...D.P. \$5.00	
No. 39122 Complete with No. 1822 Bottle.....	7.50
Each...D.P. \$12.48	

Fiber Carrying Cases

Made of black hard fiber; serviceable, slightly and inexpensive. Pint and quart sizes for one bottle only.

No. 401 Pint.....	\$0.75
Each...D.P. \$1.26	
No. 402 Quart.....	1.00
Each...D.P. \$1.66	



Leatherol Carrying Cases



For One Bottle



D-Shaped For Two Bottles or One Bottle and a Lunch Box

Black leatherol with green lining. Thoroughly well made, attractive and durable cases.

No. 501 Pint.....	\$1.00
Each...D.P. \$1.66	
No. 502 Quart.....	1.25
Each...D.P. \$2.08	
No. 521 Pint.....	1.75
Each...D.P. \$2.90	
No. 522 Quart.....	2.25
Each...D.P. \$3.75	

Genuine Cow Hide Carrying Cases



For One Bottle



For Two Bottles

Saddle sown throughout. Made of selected stock; finest hand workmanship. Lined with green leatherol.

No. 601 Pint.....	\$3.50	No. 611 Pint.....	\$5.00
Each...D.P. \$5.82		Each...D.P. \$8.33	
No. 602 Quart.....	4.50	No. 612 Quart.....	7.00
Each...D.P. \$7.50		Each...D.P. \$11.66	



The GIBSON COMPANY INDIANAPOLIS

CUPS, LUNCH KITS AND DINNER SETS

Nested Drinking Cups



Finely made metal drinking cups, all of one size, nested in sets of two, four and six cups. Heavy drawn brass, nickel-plated and highly polished. Each cup has detachable handle that can be quickly and firmly attached to cup. Very compact package, at the extreme left, where as illustrated, the complete set is nested with the handles inside and cover holding cups together. A desirable addition to picnic or camping equipment.

No. 362 Set of two cups with handle.....	\$0.75
Per Set...D.P. \$1.24	
No. 364 Set of four cups with handle	1.00
Per Set...D.P. \$1.66	
No. 366 Set of six cups with handle.....	1.25
Per Set...D.P. \$2.08	

Universal Lunch Kit



With Vacuum Bottle and Drinking Cup

Appeals to all who lunch away from home. Unquestionably the strongest and best made lunch kit on the market. Already has thousands of satisfied users. Metal throughout with roomy compartment for food. Equipped with pint Universal Vacuum Bottle serving any drink one may choose as hot or cold as desired and with original taste and freshness unimpaired.

No. 10 Tan with brass trimmings.....	\$2.25
Each...D.P. \$3.75	
No. 310 Black with nickeled trimmings.....	2.25
Each...D.P. \$3.75	



With Vacuum Bottle, Drinking Cup and Aluminum Trays

No. 20 Tan, brass trimmings	\$2.50
Each...D.P. \$4.18	
No. 320 Black, nickeled trimmings	2.50
Each...D.P. \$4.18	
No. 01 Extra Filler for "Universal" Lunch Kits	.85
Each...D.P. \$1.42	

Universal Motor Luncheon Sets

For the most critical trade. Completely equipped for two, four or six persons. High grade in every particular. Light, strong cases, dust and rain proof. Covered with fine black grained enameled duck, lined with green leatherol. Nickel-plated brass locks.

Equipped with Universal vacuum bottles, Universal vacuum butter jar, food boxes, plates, knives, forks, spoons, napkins, sugar or preserve jars, salt and pepper shakers, nested drinking cups.



No. 232 For two persons	\$27.00
Each...D.P. \$46.10	
No. 242 For four persons	38.50
Each...D.P. \$64.18	
No. 262 For six persons	45.00
Each...D.P. \$75.00	

Running Board Set

Most complete, compact outfit. Exceptionally strong and handsome trunk covered with dull black grained enamel duck. All outside trimmings nickel-plated. Has improved flat key lock. Furnished with straps for fastening to running board or trunk rack, and handles for carrying. Completely equipped for four or six persons.



Equipped with Universal vacuum bottles, Universal vacuum butter jar, food boxes, plates, knives, forks, spoons, napkins, sugar or preserve jars, salt and pepper shakers, nested drinking cups.

No. 442 For four persons	\$47.50
Each...D.P. \$79.15	
No. 462 For six persons	55.00
Each...D.P. \$91.66	

AUXILIARY SEATS

Folding Chairs



Back Folded Down



Completely Folded

No. 55 Child's Seat, Japanned, brown duck, each . . . \$2.00
Each . . . D.P. \$3.00

Size of above: Seat, 9x9 $\frac{3}{4}$ -in.; height to seat, 9-in.

No. 105 Japanned, brown duck, each 2.30
Each . . . D.P. \$3.46

No. 116 Oxidized art leather, each 2.80
Each . . . D.P. \$4.22

Size of above: Seat, 10 $\frac{1}{2}$ x11-in.; height to seat, 16-in.

No. 205 Japanned, brown duck, each 2.60
Each . . . D.P. \$3.90

No. 216 Oxidized, art leather, each 3.30
Each . . . D.P. \$5.00

Size of above: Seat, 12x12-in.; height to seat, 17-in.

Child's Seat



No. 300 Child's Seat. Hangs back of either auto-
mobile seat or doors. Holds child securely and
comfortably. Folds up when not in use. Art
leather seat 9x10-in. Frame round steel, finely
oxidized, each \$2.50

Each . . . D.P. \$3.77

Imperial Auto Folding Steel Chair


 Folds Neat
and Compact.

The Imperial Steel Chair is built for strength and safety as well as convenience and comfort. Designed for an auxiliary seat in automobiles, an ideal seat for the camp, launch and many other places. The frame is made of the very best oval steel and finished in rich black japan. The seat and back rest are upholstered in black waterproof art leather. Dimensions of seat 11 x 12 inches, back 12 $\frac{1}{2}$ x 3 $\frac{1}{2}$ inches; height of seat 16 inches, folded 12 $\frac{1}{2}$ x 20 x 2 inches.

Each \$2.00
Each . . . D.P. \$3.00

Defiance Folding Steel Camp Stool



The Defiance Folding Steel Camp Stool has an all-steel frame 15 inches high, seat 10-ounce army khaki, weighs only 2 pounds, folds flat in a space 7 $\frac{1}{2}$ x 10 inches. Indispensable to campers, fishermen, automobile owners, boat owners, etc. Whenever an extra seat is needed, this strong, durable and comfortable folding stool is ideal. It is one of those handy little articles that cost practically nothing, yet pay for themselves every time you use them, in comfort and satisfaction.

Each \$0.75
Each . . . D.P. \$1.11



The GIBSON COMPANY INDIANAPOLIS

SPEEDOMETERS AND ODOMETERS

Stewart Speedometer



Model 100

A Stewart Speedometer designed specially for Ford cars, completed with all regular Stewart equipment, including flexible shaft and the famous Stewart swivel joint, ready to install on any Ford car. Of the same magnetic type and built of the same high-grade materials as in instruments that go on highest price automobiles.

The Stewart Model 100 has Rotating Speed Dial, 60-mile capacity—Stewart Odometer, consisting of 10,000-mile Season Register and 100-mile Trip Register. Mile numbers of Trip Register are black on white; tenths, red on white. Mile numbers of Season Register are black on white. Trip Register can be rapidly reset to any tenth of a mile, and without disturbing the record of the Season Register. Speedometer has jeweled bearings, polished steel magnet, silver etched dial face, French plate dial glass. Case finished in deep jet lacquer and polished brass trim.

Model 100 Special Stewart Speedometer for Ford cars, each \$10.00

Each . . . D.P. \$13.32

No. 100 Stewart Speedometer for cars other than Ford, each 12.00

Each . . . D.P. \$17.76

In ordering state for what car, size of wheel and length of shaft.

No. 101-A Motorcycle Speedometer, front wheel drive, each..... \$10.00

Each . . . D.P. \$14.82

No. 101-A Motorcycle Speedometer, rear wheel drive, each..... 10.00

Each . . . D.P. \$14.82

Stewart Hub Odometer



Model H. Hub Odometer

The Stewart Hub Odometer is operated by a positive drive that cannot possibly fail. This drive consists, not of thin metal discs, but of steel pinions with worm and spiral gears, each pinion being machined from a single piece of steel, heat treated and hardened, to resist wear. With this positive drive there can be no failure of the Odometer to record; every turn of the car wheel is registered with absolute accuracy. Through an ingenious application of the "Geneva Stop" mechanism the dials are locked, excepting at the instant of registering. Those not registering remain locked. Thus it is impossible for the dials to fail to register or to register incorrectly, as they cannot make a single false movement.

Model H (including hub cap), each..... \$10.00

Each . . . D.P. \$14.82

Pointer Type Models



Model 26

Model 26. Hand Indicator, 60-mile capacity. Stewart Odometer, consisting of 100,000-mile Season Register, and 100-mile Trip Register. Mile numbers of Trip Register are black on white; tenths, red on white. Mile numbers of Season Register are black on white. Trip Register can be rapidly reset to any tenth of a mile, and without disturbing the record of the Season Register. 3-in. dial face.

Each \$20.00

Each . . . D.P. \$29.63

JOHNS-MANVILLE SPEEDOMETER FOR FORD CARS



In creating the Johns-Manville Speedometer the makers produced a centrifugal speed indicator of modern construction, the accuracy of which is unaffected by electrical influences, climate, heat or cold.

Actual tests have conclusively proved that speedometers actuated by means of a centrifugal governor are nearer to absolute accuracy than speedometers actuated by any other means. The Johns-Manville Speedometer is actuated by a three-weight centrifugal governor, so perfectly balanced as to render it unerring in accuracy and positive in reliability under all conditions of service.

DESCRIPTION.—Standard White Dial, 3½ inches in diameter. Speed Scale, 5 to 50 miles. The speed hand cannot interfere with the trip or season odometer readings; the speed of the car can be read at a glance by noting the angle of the hand, just as your watch.

Self-enclosed odometer registers cumulative season's mileage up to 100,000 miles, and trip mileage (miles and tenths up to 10 miles)—tenths in red figures.

Trip mileage may be reset to any figure desired by revolving the reset knob on the side of the instrument.

This feature enables the determination of trip runs without disturbing the total mileage; a most desirable feature when touring with Blue Book or road map.

Each Johns-Manville Speedometer is calibrated to its own dial, thoroughly tested, and must be absolutely correct before leaving our factory.

Each \$10.00

Each . . . D.P. \$13.32



STEWART SPEEDOMETER PARTS

Road Wheel Gears



Cut-Out Type



Plain Type

Stewart Road Wheel Gears, any size or type, each \$1.00
Each....D.P. \$1.77

Drive Pinions



Cotter Pin Type



Lock Nut Type

Drive Pinions, either fibre or steel, either type, each \$0.25
Each....D.P. \$0.44

Swivel Joint



1908-1909 Type



1910 Type



1911-1915 Type

Stewart Swivel Joints, either type, each \$2.50
Each....D.P. \$4.44

Rubber and Metal Washers



1996

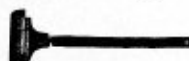


2199

No. 1996 Rubber Fender Washer, each \$0.15
Each....D.P. \$0.27

No. 2199 Brass Foot Board Collar, each .15
Each....D.P. \$0.27

Shaft Hanger



No. 1998 Strap or Hanger for Flexible Shaft, each \$0.15
Each....D.P. \$0.27

Steering Knuckle Clamp Parts

Order these parts by number, if only a part is required; or if the complete clamp is wanted, give number of clamp (as shown in illustration).



512



4003



4007

No. 512 Clamp for Steering Arm, complete, each \$1.25
Each....D.P. \$2.22

No. 4003 Clamp Part (upright), each .50
Each....D.P. \$0.88

No. 4007 Clamp Part (cross-bar and straight link, one piece), each .30
Each....D.P. \$0.53



4017



4014



4015



4025

No. 4017 Clamp Part (axle clip), each \$0.15
Each....D.P. \$0.27

No. 4014 Clamp Part ("S" clamp link), each .20
Each....D.P. \$0.35

No. 4015 Clamp Part (cross bar), each .30
Each....D.P. \$0.53

No. 4025 Clamp Part (swivel block), each .20
Each....D.P. \$0.35

Shaft Fittings



617



1880

No. 617 Sliding Bar and Lower End Clutch of chain, each \$0.20
Each....D.P. \$0.35

No. 1880 Upper End Clutch of Chain, each .10
Each....D.P. \$0.17

Flexible Shaft and Chain



No. 1902 Flexible Shaft Chain, per ft. \$0.25
Per foot....D.P. \$0.44

No. 1799 Flexible Shaft, complete without leather covering, each 3.00
Each....D.P. \$5.33

No. 1911 Flexible Shaft Casing, without leather covering, each 1.75
Each....D.P. \$3.11

In ordering flexible shafts, state length wanted. These may be had from 48 to 72-in.



The GIBSON COMPANY INDIANAPOLIS

SPEEDOMETERS

Sears-Cross, Absolutely Accurate, Spedindicators

CONSTRUCTION

Sears-Cross instruments were standard equipment on Ford cars last year and were designed especially for Ford cars by the Sears-Cross engineers. Sears-Cross Spedindicators are purely mechanical in construction, and as such, changes in temperature have no effect whatever on the indicating mechanism. It is impossible to make the indicating hand jump or vibrate at any speed. Sears-Cross Spedindicators are of the hand and dial type and therefore can be read at a glance. Sears-Cross instruments are made wholly in an exclusive Spedindicator factory by manufacturers who make nothing else.

Model F 15



Complete Ready to Attach

Sears-Cross Spedindicator Model F 15, is the same instrument as was standard on the Ford car during 1915 and is installed in exactly the same manner.

Price, each.....\$12.00
Each..D.P. \$12.77

Model F F 16



Complete Ready to Attach

This instrument was designed for the more discriminating Ford owner, and at a slightly higher cost is made to give satisfaction long after the price is forgotten.

It fits on the wind shield frame flush with the cowl dash where a spedindicator should be, and where it may be easily read.
Price, each.....\$15.00
Each..D.P. \$14.44

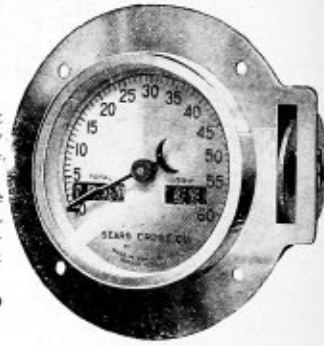
Model F. C. N. B.

A flush type instrument such as is now universally used on all the latest models of automobiles.

Is installed flush with the filler board of the cowl dash.

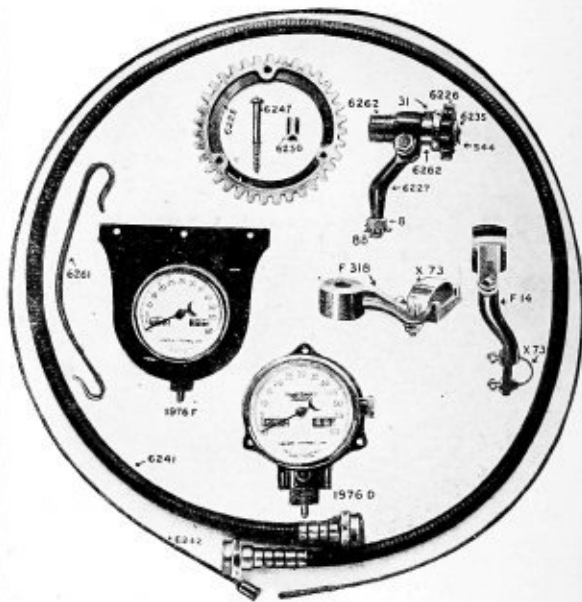
Specially adapted to Chevrolet 490, which has dash cut ready to receive it.

Price, each.....\$25.00
Each..D.P. \$16.10



Complete Ready to Attach

Parts for Sears-Cross Speedometer



Part Nos	Price
1976-D Heads, Model F 15, each.....	\$7.00
Each..D.P. \$9.33	
1976-F Heads, Model F F 16, each.....	8.50
Each..D.P. \$11.33	
6241 Casings, Model F 15, 4 1/2 feet, each.....	2.00
Each..D.P. \$2.66	
6241-F Casings, Model F F 16, 5 1/2 feet, each.....	2.50
Each..D.P. \$3.32	
6242 Shafts, Model F 15, 4 1/2 feet, each.....	.90
Each..D.P. \$1.20	
6242-F Shafts, Model F F 16, 5 1/2 feet, each.....	1.00
Each..D.P. \$1.32	
6262 Drives, each.....	2.00
Each..D.P. \$2.66	
6236 Pinions, each.....	.25
Each..D.P. \$0.16	
6235 Lock Nuts, each.....	.05
8 Lock Nuts, each.....	.05
Each..D.P. \$0.07	
6227 Posts, each.....	.50
Each..D.P. \$0.66	
6225 Sprockets, each.....	.50
Each..D.P. \$0.66	
6241 Tube Support Straps, each.....	.20
F-14 Post for arm without taper hole, complete, each.....	.60
Each..D.P. \$0.80	
F-318 Ford Post Bracket for steering arm, complete, each.....	.50
Each..D.P. \$0.66	
X-73 Ford Post Clip, each.....	.15
Each..D.P. \$0.20	



LEATHER GOODS

Crank Boots

No. 500 Crank Boots, open at end, strap 4x16, pocket 4 1/2x1. Each...\$0.50
Doz....D.P. \$7.77.



Rebound or Check Straps

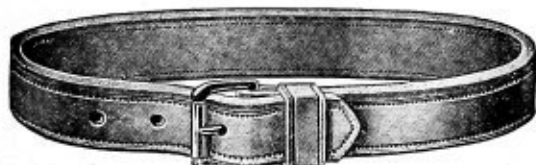
Single Harness Leather



Made of highest grade harness leather. Japanned double tongue buckle sewed on.

No. 1 Rebound Strap, size 1 1/2x33 inches, each.....\$0.80
Each....D.P. \$1.33
No. 2 Rebound Strap, size 1 1/2x36 inches, each..... 1.00
Each....D.P. \$1.66

Double and Stitched Harness Leather



Made of two layers of heavy harness leather and stitched on Union Lock Stitch Machine. Japanned Double Tongue Buckle.

No. 3 Rebound Strap, size 1 1/2x36 inches, each.....\$1.50
Each....D.P. \$2.44
No. 4 Rebound Strap, size 1 1/2x36 inches, each..... 1.75
Each....D.P. \$2.77

Spring Hood Straps



The special spring used on these straps completely eliminates the usual rattle about the hood.

No. 5 Spring Hood Strap, 1 1/2x58 inches, each.....\$2.25
Each....D.P. \$3.55
No. 6 Spring Hood Strap, 1 1/2x65 inches, each..... 2.75
Each....D.P. \$4.44

Ford Spring Hood Strap



Makes the Hood Look Longer

Made especially for Ford cars. Loop each end for fastening to frame, one spring, japanned buckle. Lock buckle if desired.
No. 7 Ford Spring Hood Strap, each.....\$1.25
Each....D.P. \$1.88

Single Front Straps



Made of heavy harness leather, with imitation rubber trimming. Roller buckle and an 8-inch billet on upper end. Roller buckle near center. Snap on the lower end.

No. 10 Front Strap, 1x72, per pair.....\$2.00
Per pair...D.P. \$2.77.
No. 12 Front Strap, 1 1/4x72, per pair..... 2.25
Per pair...D.P. \$3.55.

Double and Stitched Front Strap



Made of heavy harness leather, raised in the center, and stitched on Union Lock Stitch Machine. Imitation rubber trimming. Loop at the upper end. Roller buckle in the center. Snap on the lower end.

No. 14 Front Strap, 1x72, per pair.....\$2.75
Per pair...D.P. \$4.40.
No. 16 Front Strap, 1 1/4x72, per pair..... 3.00
Per pair...D.P. \$5.00.

Round Front Straps



No. 30 Round Front Straps, black leather, with brass foot-man loops, 1x72 inches, per pair.....\$2.25
Per pair...D.P. \$3.55.
No. 31 Round Front Straps, fair leather, with brass foot-man loops, 1x72 inches, per pair..... 2.50
Per pair...D.P. \$3.88.

Miscellaneous Straps



Made of Black Harness Leather

Black Leather Straps 1/2x15, each.....\$0.10
Dozen...D.P. \$1.80.
Black Leather Straps 3/4x24, each..... .20
Dozen...D.P. \$3.20.
Black Leather Straps 3/4x30, each..... .25
Dozen...D.P. \$3.75.
Black Leather Straps 3/4x24, each..... .25
Dozen...D.P. \$4.00.
Black Leather Straps 3/4x30, each..... .30
Dozen...D.P. \$5.00.

Trunk Straps

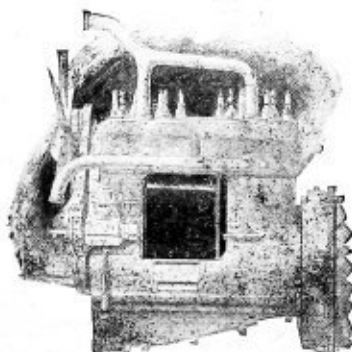


Black Leather Trunk Straps 1x46, each.....\$0.60
Dozen...D.P. \$10.00.
Black Leather Trunk Straps 1x60, each..... .75
Dozen...D.P. \$12.88.
Black Leather Trunk Straps 1 1/4x84, each..... 1.25
Dozen...D.P. \$22.00.

Magneto Covers

Leather Magneto Cover, made in blank so holes can be punched according to location of wires.

Each\$1.50
Ea....D.P. \$2.00





BOXES

Ford Style Boxes



No. B-1586 Battery or Tool Box, size inside 15 x 7 $\frac{1}{2}$ x 6 $\frac{1}{2}$, black enamel finish, each.....\$2.15
Each..D.P. \$2.88 Per Dozen..D.P. \$32.00

No. R-1886 Battery or Tool Box, size inside 17 $\frac{1}{2}$ x 7 $\frac{1}{2}$ x 6 $\frac{1}{2}$, black enamel finish, each..... 2.00
Each..D.P. \$2.66 Per Dozen..D.P. \$28.88

No. R-2296 Battery or Tool Box, size inside 22 x 9 x 6 $\frac{1}{2}$, black enamel finish, each..... 2.15
Each..D.P. \$2.66 Per Dozen..D.P. \$28.88

No. R-2416 Battery or Tool Box, size inside 23 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 6 $\frac{1}{2}$, black enamel finish, each..... 3.15
Each..D.P. \$4.22 Per Dozen..D.P. \$46.66

Battery or Tool Boxes, B Style



B style boxes have corners of 1 inch radius

No. B-148 Battery or Tool Box, size inside 13 $\frac{1}{2}$ x 7 $\frac{1}{2}$ x 9 $\frac{1}{2}$, black enamel finish, each.....\$2.30
Each..D.P. \$3.10 Per Dozen..D.P. \$33.32

No. B-179 Battery or Tool Box, size inside 16 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 10 $\frac{1}{2}$, black enamel finish, each..... 3.00
Each..D.P. \$4.00 Per Dozen..D.P. \$44.00

No. B-329 Battery or Tool Box, size inside 22 x 9 x 10 $\frac{1}{2}$, black enamel finish, each..... 3.40
Each..D.P. \$4.66 Per Dozen..D.P. \$50.66

No. B-2410 Battery or Tool Box, size inside 23 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 10 $\frac{1}{2}$, black enamel finish, each..... 3.80
Each..D.P. \$5.10 Per Dozen..D.P. \$56.00

No. B-2810 Battery or Tool Box, size inside 28 $\frac{1}{2}$ x 10 $\frac{1}{2}$ x 10 $\frac{1}{2}$, black enamel finish, each..... 5.75
Each..D.P. \$7.77 Per Dozen..D.P. \$86.66

Battery or Tool Boxes, C Style



C style boxes have corners of $\frac{1}{2}$ inch radius

No. C-108 Battery or Tool Box, size inside 9 $\frac{1}{2}$ x 7 $\frac{1}{2}$ x 12, black enamel finish, each.....\$2.60
Each..D.P. \$3.55 Per Dozen..D.P. \$38.66

No. C-119 Battery or Tool Box, size inside 11 $\frac{1}{2}$ x 8 $\frac{1}{2}$ x 10 $\frac{1}{2}$, black enamel finish, each..... 2.25
Each..D.P. \$3.00 Per Dozen..D.P. \$33.32

No. C-168 Battery or Tool Box, size inside 16 x 8 $\frac{1}{2}$ x 9 $\frac{1}{2}$, black enamel finish, each..... 2.40
Each..D.P. \$3.32 Per Dozen..D.P. \$36.00

No. C-208 Battery or Tool Box, size inside 19 $\frac{1}{2}$ x 8 $\frac{1}{2}$ x 9 $\frac{1}{2}$, black enamel finish, each..... 2.80
Each..D.P. \$3.76 Per Dozen..D.P. \$41.33

No. C-217 $\frac{1}{2}$ Battery or Tool Box, size inside 20 $\frac{1}{2}$ x 6 $\frac{1}{2}$ x 9 $\frac{1}{2}$, black enamel finish, each..... 3.30
Each..D.P. \$4.44 Per Dozen..D.P. \$49.33

Special Battery Boxes of Extra Depth



No. B-1812 Battery Box, size inside 17 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 12, black enamel finish, each.....\$4.25
Each..D.P. \$5.77 Per Dozen..D.P. \$64.00

No. C-1412 Battery Box, size inside 13 $\frac{1}{2}$ x 10 $\frac{1}{2}$ x 12, black enamel finish, each..... 4.00
Each..D.P. \$5.55 Per Dozen..D.P. \$60.00

No. C-1612 Battery Box, size inside 16 x 8 $\frac{1}{2}$ x 12, black enamel finish, each..... 3.25
Each..D.P. \$4.44 Per Dozen..D.P. \$49.33

No. C-1112 Battery Box, size inside 11 $\frac{1}{2}$ x 8 $\frac{1}{2}$ x 12, black enamel finish, each..... 3.00
Each..D.P. \$4.00 Per Dozen..D.P. \$45.33

No. C-2292 Battery Box, size inside 22 x 9 x 12, black enamel finish, each..... 5.00
Each..D.P. \$6.66 Per Dozen..D.P. \$74.66



TRUNK BOXES, REFRIGERATORS, KENNEDY KIT, WASTE AND WIPERS

Trunks



Can be attached to running board by two tee-bolts or carried at back of car. All metal, stiffened by raised beads, nicked corner pieces. Toggle lock at each end. Weight 40 pounds. Holds two 30x15x7 suitcases, which are not included in the price.

Trunk Box.
30½ x 14½ x
16 3/16 high,
each\$10.00
Each..D.P. \$16.66

Refrigerators

Cut shows heavy galvanized lining. Center compartment holds 25 pounds of ice. The galvanized food compartment sets over the ice on the ledge of the ice compartment. Style A has bottle compartment at each end. Style B, one compartment only. Compartments hold six pint bottles with rack or nine bottles without.



The cover has a toggle lock at each end and is removable so that it may be used as a tray. The box is attached to running board by tee-bolts. It has handles at each end so that it may be carried from the car to the lunch place.

Style A Refrigerator. 27½x11x13 5/8 inches high, each....\$25.00
Each..D.P. \$41.66

Style B Refrigerator. 20½x11x13 5/8 inches high, each.... 20.00
Each..D.P. \$33.33



Food compartment is porcelain enameled.
Bottle, or end, compartments are tinned.

A simpler style of touring refrigerator is shown above. Two end compartments hold six pint bottles each. Food compartment rests on lugs, on the sides of the end compartments. Cover, which may be used as a tray, has lock at each end, box has strong carrying handles and is attached to running board by tee-bolts, so that it may be removed and taken to the lunch place.

Style C Refrigerator Box. 22x9x13, each.....\$10.00
Each..D.P. \$16.66

The Kennedy Kit



Closed

The Kennedy Kit, an all steel grip that will not wear out, size 16x11. For carrying tools, clothing or equipment. Looks like a traveling bag and is no heavier, with tray divided into small partitions for carrying drills, bits, small parts, etc. Tray is made of light weight steel ¼ inches deep and rests on ledges at top of case. Contents cannot spill out if bag is loaded as flat bottom will prevent overturning.



Open

Each\$4.10
Each..D.P. \$7.33

Cotton Waste



Red Roll Auto Waste, a specially selected long fibre clean cotton waste in pound packages.

Each\$0.35
Dozen....D.P. \$4.22

Double Extra, a special quality long fibre waste, in 100-lb. bales, per pound..... .33

Per pound..D.P. \$0.35

Double Extra Waste, in 25 or 50-lb. bales, per pound35

Per pound..D.P. \$0.37

B. White Waste, a very satisfactory grade, in 100-lb. bales, per pound..... .30

Per pound..D.P. \$0.33

B. White Waste, in 25 or 50-lb. bales, per pound.... .32
Per pound..D.P. \$0.31

Marathon Brand Sanitary Wipers



Marathon Brand Snow White Wiping Rags, per pound ..\$0.20
Per pound..D.P. \$0.27

Marathon Brand Cheese-cloth Wiping Rags, per pound ..\$0.50
Per pound..D.P. \$0.71
Put up in 25, 50 and 100 pound bales.



The GIBSON COMPANY INDIANAPOLIS

SHOCK ABSORBERS AND CUSHION SPRINGS

Hartford Shock Absorbers



In Use on
Over
350,000
Automobiles

Makes
Every Road
a Boulevard

The Pioneer Shock Absorber. Recognized by automobile engineers as indispensable for comfortable motoring. Positively absorbs jolt, jar and vibration. Not only makes for comfort, but prolongs the life of the car by saving it from road racking.

The Hartford Shock Absorber controls the springs of an automobile so that violent action is impossible even on the roughest roads, tires tread the ground and are saved from bouncing and excessive wear; there is less skidding; the car glides smoothly, undulatingly; there is no sidesway, no spring breakage, but there is maximum riding comfort.

Every-day service affords the best proof of the merits of the Hartford Shock Absorber. It has influenced over 350,000 car owners to use it; over twenty-five leading factories to adopt it as standard equipment; more than 95 per cent. of racing drivers to have it on their cars in every race.

COMPLETE FITTINGS

Each set of the six models is complete and ready to apply, including the special fittings and the necessary bolts, nuts, spring washers, etc., with a detailed blue print showing the application. Mention make, model and year of car when ordering.

PRICES—SIX MODELS—\$16 TO \$60

Heavy Car Types, for cars over 4,000 pounds, three-degree automatic, per set of four.....	\$60.00
Per Set..D.P.	\$106.66
Heavy Car special, per set of four.....	60.00
Per Set..D.P.	\$106.66
Average Car Type, for cars over 3,000 pounds, Regular Standard, per set of four.....	50.00
Per Set..D.P.	\$88.88
Medium Car Type, for cars over 2,000 pounds, Intermediate, per set of four.....	40.00
Per Set..D.P.	\$71.10
Light Car Type, for cars up to 2,000 pounds, Junior, per set of four.....	25.00
Per Set..D.P.	\$44.44
Special Ford Set of three Shock Absorbers, one front and two rear, complete with fittings....	16.00
Per Set..D.P.	\$26.66

Hartford Cushion Springs



Many an automobile is fitted with springs designed only for maximum load and road conditions. Such springs "ride hard" over smooth or moderately rough road and their stiffness is very discomforting to the occupants of the car. The addition of Hartford Cushion Springs will impart the resiliency necessary to make such cars "ride easy."

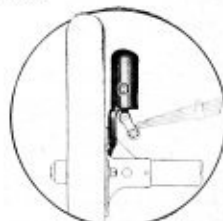
The Hartford Cushion Spring is applied only to the rear springs of the car. It is double-acting. Its influence upon an automobile spring encompasses both movements—contraction and recoil. It causes these movements to become soft and cushionlike to such an extent that all minor inequalities of a road are traversed without their presence being made known to the occupants of the car.

Only the very finest materials are used in the manufacture of Hartford Cushion Springs. This is not only a guarantee of efficiency, but of service, as well. Handsomely finished. Easily attached.

PRICES—FOUR MODELS

\$25.00, \$22.50, \$20.00, \$13.00

No. 1—For cars over 3,000 pounds, per pair.....	\$25.00
Per Set..D.P.	\$44.44
No. 2—For cars from 2,400 to 3,000 pounds, per pair.....	22.50
Per Set..D.P.	\$40.00
No. 3—For cars up to 2,400 pounds, per pair.....	20.00
Per Set..D.P.	\$35.60



Ford Model

Special Ford Set, consisting of two Hartford Cushion Springs for the rear and one friction type Hartford Shock Absorber for the front. Price complete..... 12.00
Per Set..D.P. \$21.32



SHOCK ABSORBERS

Stone Shock Absorbers



Stone Shock Absorbers are of Double Spring Construction. Adjustment for road and load conditions with range of 1500 pounds. Double Bearing for moving parts. Coil springs have 2 inches of action which gives 25 per cent. greater cushion effect than other makes. Absorbs jolts and jars of rough roads, absolutely prevents snappy rebound.

Per Pair\$10.00
Per Pair, D.P. \$12.22

In ordering give make, model and year of car, and state whether roadster or touring on order.

Adco Shock Absorbers



Adco Shock Absorbers are a late and highly improved spring type, designed by engineers whose experience dates back from the origination of these devices. They will increase the riding qualities of the car a hundred per cent. Automobile springs are designed to carry the maximum load and are consequently too stiff to give full resiliency and corresponding comfort when light or intermediate loads are carried. Adco shock absorbers take care of this condition, besides eliminating a very large percentage of the uncomfortable recoil, giving 100 per cent. comfort when riding.

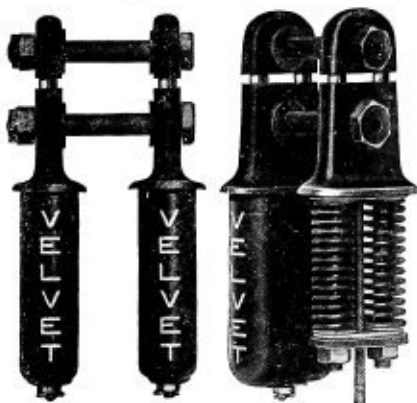
In addition to the increased comfort, a saving of over 35 per cent. is effected in cost of tire maintenance. Spring breakage is reduced to a minimum as well as general cost of repairs for up-keep. Adco Shock Absorbers are built with from three to eight times the life of other similar devices. This is due to the enormous wearing surfaces of the operating parts. Adco Shock Absorbers will not rattle, they are water and dust-proof, and will not pump and throw grease when in operation. They are instantly adjustable to extreme road and load conditions, a couple of turns to the right or left of the adjustment bolt found at the bottom of the absorber gives a permanent adjustment to suit the particular desires of the car owner. Adco Shock Absorbers are built for all makes and models of cars except those equipped with Cantilever Springs.

Adco Shock Absorbers for cars weighing under 3500 pounds, per set\$15.00
Per Set, D.P. \$25.00

Adco Shock Absorbers for cars weighing 3500 pounds and over, per set 20.00
Per Set, D.P. \$33.32

In ordering give the following information:
Make, model and weight of car, empty.
Width of rear springs.
Diameter of spring bolts.
Type of body—Touring, roadster, coupe, etc.
Style of springs—Platform, $\frac{1}{2}$ elliptic or otherwise.

Velvet Shock Absorbers



New Model "E" Velvet Shock Absorbers for light cars. Complying with the requests of dealers and friends in the trade, the manufacturers have designed and produced this special model for light cars to sell at a popular price. It embodies the exclusive Velvet Multiple Coil Principle and has all of the well-known Velvet quality and efficiency. It is made for all cars weighing less than 3500 pounds, having three quarters semi-elliptic or platform springs. These include the Overland, Buick, Studebaker, Reo, Chandler, Maxwell and other cars of similar weight.

Description—Highest quality of coils obtainable, covers of drawn steel, black enameled. Top and sliding blocks of malleable iron, black enameled. Thoroughly serviceable in every particular, cannot rattle or allow side sway. Price includes all necessary fittings for attaching.

Per Pair\$25.00
Per Pair, D.P. \$44.44

Sager Twin Shock Absorbers

The Sager Twin is the Universal Shock Absorber. No recoil. No bumping. Drop forgings, heat treated. Springs, crucible steel as made by Sager Company for twenty-five years. Steel shells, locked on with bolt, nut and cotter. Impossible to loosen. Length of spring, 6 inches, with full $2\frac{1}{2}$ inches action; resilient and prevent recoil. Bolts high grade steel, product of screw machine. The same shackle bolts on car are used with Sager Twin, which fit all widths of springs. No extra bushings, washers or other parts required. Attachment made in a few minutes without machine work. Oil cans—exclusive design—lubricate four bolt bearings, each $2\frac{1}{2}$ inches long. Cotters used on all nuts to prevent their loss.

Price for full rear set ..\$10.00
Price for full rear set
D.P.\$16.66

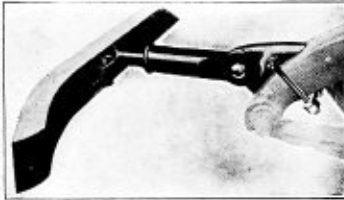




The GIBSON COMPANY INDIANAPOLIS

Fitsall Bumper

Derives its name from the fact that it is made to fit the leading cars, whether constructed with channel or filled frame. Its design follows the streamline principle—neat compact construction without sacrifice of strength. Can be attached to any position on top of the curved front end of the frame by means of adjustable clips and yoke. Can also be attached to cars where mud-apron obstructs the front end of the frame, by piercing the apron for the clips.



Channel Bar

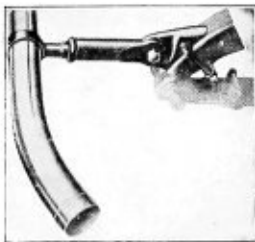
The Fitsall Bumper arms, made in two sections and connected by a tooth and ratchet joint, can be raised or lowered for the proper elevation of the bar. Shock is taken up by heavy coil springs in the tubular section of the arm. Fittings are high-grade malleable iron castings, ground and baked black japanned.

- No. 6203-N Fitsall Bumper, 2 inch, nickel channel bar, each \$7.00
- Each, D.P. \$9.77 Lots of 6, each, D.P. \$8.88
- No. 6203-B Fitsall Bumper, 2 inch, black channel bar, each 6.50
- Each, D.P. \$9.10 Lots of 6, each, D.P. \$8.33



Diamond Bar

- No. 6206-N Fitsall Bumper, 1 1/2 inch, Diamond nickeled rail, each \$7.50
- Each, D.P. \$11.10 Lots of 6, each, D.P. \$10.00
- No. 6206-B Fitsall Bumper, 1 1/2 inch, Diamond black rail, with nickeled clamp and bolt head, each 7.00
- Each, D.P. \$9.10 Lots of 6, each, D.P. \$8.33
- No. 6207-N Fitsall Bumper, 1 1/2 inch, Diamond nickeled rail, each 8.50
- Each, D.P. \$12.77 Lots of 6, each, D.P. \$11.66
- No. 6207-B Fitsall Bumper, 1 1/2 inch, Diamond black rail, with nickeled clamp and bolt head, each 8.00
- Each, D.P. \$12.22 Lots of 6, each, D.P. \$11.10
- No. 6208-N Fitsall Bumper, 2 inch, Diamond nickeled rail, each 10.00
- Each, D.P. \$14.66 Lots of 6, each, D.P. \$13.32
- No. 6208-B Fitsall Bumper, 2 inch, Diamond black rail, with nickeled clamp and bolt head, each 9.00
- Each, D.P. \$12.77 Lots of 6, each, D.P. \$11.66



Round Bar

- No. 6202-N Fitsall Bumper, 2 inch, nickeled round rail, each \$8.75
- Each, D.P. \$12.77 Lots of 6, each, D.P. \$11.66
- No. 6202-B Fitsall Bumper, 2 inch, black round rail, with nickeled clamp and bolt head, each 8.25
- Each, D.P. \$11.10 Lots of 6, each, D.P. \$10.00

BUMPERS

Cadillac, Chevrolet and Saxon Bumpers

This bumper was designed especially for the 1916 Cadillac, but is also suitable for all previous models.



Cadillac Channel Bar

The fittings clamp on the butt end of the frame—no holes to drill in frame or mud apron. To attach, remove nut and washer from spring bolt, adjust bumper fitting on frame and over spring bolt, replace nut and washer, and clamp fitting down with special clips furnished.

Compression springs to absorb shocks concealed in tubular arms. Ratchet adjustment in arms for lowering or elevating the position of the bar. The fittings are high grade malleable iron castings, ground and baked black enamelled.

- No. 6286-N Cadillac Bumper, 2 inch, Channel nickeled bar, each \$7.00
- Each, D.P. \$9.77 Lots of 6, each, D.P. \$8.88
- No. 6286-B Cadillac Bumper, 2 inch, Channel black bar, each 6.50
- Each, D.P. \$9.10 Lots of 6, each, D.P. \$8.33
- No. 6291-N Cadillac Bumper, 2 inch, Diamond nickeled rail, each 10.00
- Each, D.P. \$14.66 Lots of 6, each, D.P. \$13.32
- No. 6291-B Cadillac Bumper, 2 inch, Diamond black rail, with nickeled clamp and bolt head, each 9.50
- Each, D.P. \$13.32 Lots of 6, each, D.P. \$12.00



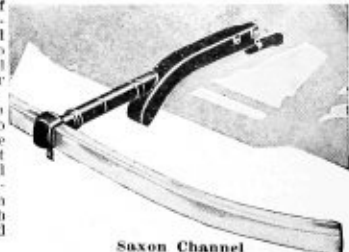
Chevrolet Channel

Shock-absorbing springs enclosed in telescopic tubes. The fittings are baked black-japanned.

- No. 6135-N Clamp-on Bumper for Chevrolet "490," 1 1/2 inch, round nickel bar, each \$6.50
- Each, D.P. \$8.88 Lots of 6, each, D.P. \$8.00
- No. 6135-B Clamp-on Bumper for Chevrolet "490," 1 1/2 inch, round black bar with nickeled clamps and bolt heads, each 6.00
- Each, D.P. \$7.76 Lots of 6, each, D.P. \$7.23
- No. 6136-N Clamp-on Bumper for Chevrolet "490," with 2 inch nickeled Channel bar, each 7.00
- Each, D.P. \$9.77 Lots of 6, each, D.P. \$8.88
- No. 6134-N Clamp-on Bumper for Chevrolet "490," 1 1/2 inch nickeled Diamond bar, each 8.00
- Each, D.P. \$11.66 Lots of 6, each, D.P. \$10.88
- No. 6134-B Clamp-on Bumper for Chevrolet "490," 1 1/2 inch black Diamond bar with nickeled clamps and bolt heads, each 7.50
- Each, D.P. \$10.55 Lots of 6, each, D.P. \$9.77

In this bumper the streamline design of the Saxon Four is carried out—the curved bumper arms seem to lengthen the wheel base and give the car a sturdier appearance.

Can be installed in twenty minutes—no drilling; no machine work. The bolts that attach the fender rod to the frame are removed and the arm castings attached with longer bolts supplied with the bumper.



Saxon Channel

The arms are malleable iron castings, ground and baked black japanned. Springs to take up the shocks are enclosed in black enamelled telescopic tubes.

- No. 6171-N Bumper for Saxon Six, 2 inch nickel Channel bar, each \$7.00
- Each, D.P. \$9.77 Lots of 6, each, D.P. \$8.88
- No. 6169-N Bumper for Saxon Six, 1 1/2 inch nickel Diamond bar, each 8.00
- Each, D.P. \$11.66 Lots of 6, each, D.P. \$10.88
- No. 6169-B Bumper for Saxon Six, 1 1/2 inch black Diamond rail with nickeled clamps and bolt heads, each 7.50
- Each, D.P. \$10.55 Lots of 6, each, D.P. \$9.77



BUMPERS

"Buckeye" Rear End Bumpers

"BUCKEYE" REAR END BUMPER
C. B. & F. CO. - SPRINGFIELD, OHIO.
PAT. PENDING.



Buckeye Rear End Bumper can be fitted to the rear of practically any car. These fittings are substantially built and arranged with a swivel—allowing for placing same at any angle desired. Note that the bodies that clamp directly to the car springs are designed so as to either straddle or set directly behind the car spring clips.

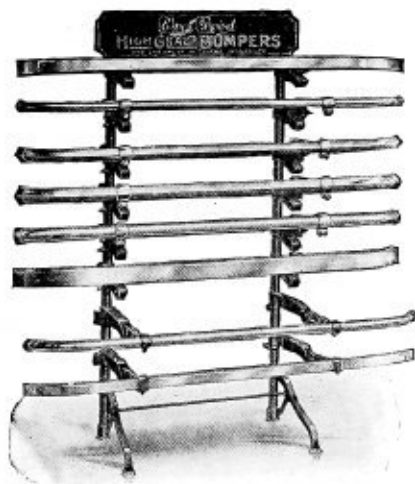
- No. 940 Buckeye Rear End Bumper, 1½ inch nickeled Diamond rail, each\$10.50
Each..D.P. \$15.55 Lots of 6, each..D.P. \$14.44
- No. 1940 Buckeye Rear End Bumper, 2 inch nickeled Channel rail, each 9.00
Each..D.P. \$13.32 Lots of 6, each..D.P. \$12.22
- No. 2940 Buckeye Rear End Bumper, 2 inch nickeled Round rail each 9.50
Each..D.P. \$13.88 Lots of 6, each..D.P. \$12.76

This is the neatest, lightest and strongest Ford bumper on the market. Note the original design of the curved arms which give the Ford the desirable appearance of a car with a drop frame.

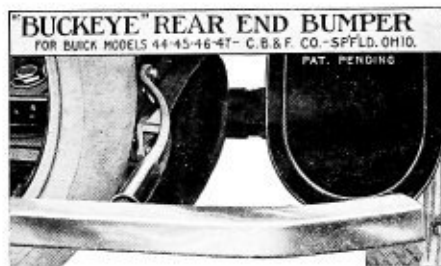
The arms clamp over the base flange of the radiator and under the frame. The top flange of the bumper takes the same bolt that fastens the radiator to the frame. For attaching the under flange of the arm, the regular bolt which fastens the sill to the frame is not long enough, therefore, a bolt of the required length is supplied.

- No. 5806-N Clamp-on Bumper for Ford, 1½ inch nickel Channel bar, each\$6.50
Each..D.P. \$9.11 Lots of 6, each..D.P. \$8.33
- No. 6200-N Clamp-on Bumper for Ford, 2 inch nickel Channel bar, each 7.00
Each..D.P. \$9.77 Lots of 6, each..D.P. \$8.88
- No. 5805-N Clamp-on Bumper for Ford, 1½ inch round nickel bar, each 6.00
Each..D.P. \$8.33 Lots of 6, each..D.P. \$7.77
- No. 5803-B Clamp-on Bumper for Ford, 1½ inch round black bar, each 5.50
Each..D.P. \$7.22 Lots of 6, each..D.P. \$6.06

Bumper Display Stand



Bumpers are no longer an accessory but a necessity, and car agents can build up a profitable business by properly displaying our line of bumpers on this stand. With an initial order for six assorted bumpers, a dealer can secure one of these stands without charge. It is made from steel tubing and the parts to which the bumpers are attached are the same as the front end of an automobile, showing that the bumper can be installed without drilling the frame. These outfits save pulling bumpers out of stock and attaching them to cars for demonstration purposes.



Buckeye Special Rear End Bumper arranged for rear of Buick models D-44, 45, 46 and 47. They are interchangeable on these particular Buick models and will fit no other car. Attached in a short time by simply taking out the four cap screws that support the gas tank and using the four longer bolts which we furnish.

- No. 3940 Buckeye Special Buick Rear End Bumper, 1½ inch nickeled Diamond rail, each\$10.50
Each..D.P. \$15.55 Lots of 6, each..D.P. \$14.44
- No. 4940 Buckeye Special Buick Rear End Bumper, 2 inch nickeled Channel rail, each 9.00
Each..D.P. \$13.32 Lots of 6, each..D.P. \$12.22
- No. 5940 Buckeye Special Buick Rear End Bumper, 2 inch Round nickeled rail, each 9.50
Each..D.P. \$13.88 Lots of 6, each..D.P. \$12.76

All of our Rear End Bumpers are furnished with extra length rails—thus protecting the rear fenders.

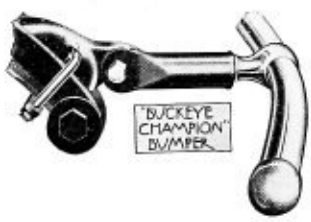


The GIBSON COMPANY INDIANAPOLIS

BUMPERS

Buckeye Champion Bumpers

Round Rail



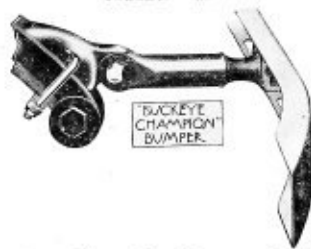
- No. 112 Buckeye Champion Bumper, 2-in. round black rail, black side fittings, each...\$ 9.00
Each..D.P. \$11.00 Lots of 6, each..D.P. \$10.00
- No. 113 Buckeye Champion Bumper, 2-in. round nickeled rail, black side fittings, each... 11.50
Each..D.P. \$13.88 Lots of 6, each..D.P. \$12.77

Diamond Rail



- No. 114 Buckeye Champion Bumper, 1 1/2-in. diamond nickeled rail, black side fittings, each...\$11.00
Each..D.P. \$13.32 Lots of 6, each..D.P. \$12.22
- No. 115 Buckeye Champion Bumper, 1 1/2-in. diamond nickeled rail, black side fittings, each... 13.00
Each..D.P. \$15.54 Lots of 6, each..D.P. \$14.44

Channel Rail



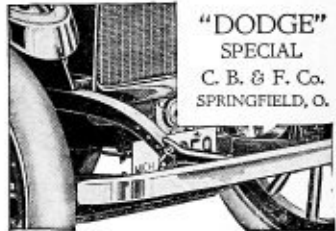
- No. 116 Buckeye Champion Bumper, 1 1/2-in. channel black rail, black side fittings, each...\$6.75
Each..D.P. \$8.33 Lots of 6, each..D.P. \$7.51
- No. 117 Buckeye Champion Bumper, 1 1/2-in. channel nickeled rail, black side fittings, each... 9.00
Each..D.P. \$11.11 Lots of 6, each..D.P. \$10.00
- No. 118 Buckeye Champion Bumper, 2-in. channel black rail, black side fittings, each... 8.25
Each..D.P. \$10.00 Lots of 6, each..D.P. \$9.18
- No. 119 Buckeye Champion Bumper, 2-in. channel nickeled rail, black side fittings, each...11.00
Each..D.P. \$13.32 Lots of 6, each..D.P. \$12.22

Buckeye Special Bumpers



"OVERLAND" SPECIAL

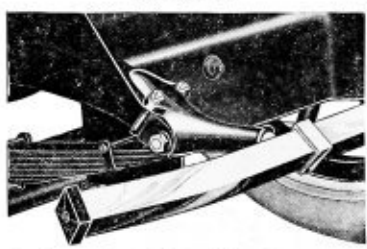
- No. 218 Buckeye Special Overland Bumper, 2-inch channel black rail, black side fittings, each...\$ 9.00
Each..D.P. \$11.11 Lots of 6, each..D.P. \$10.00
- No. 219 Buckeye Special Overland Bumper, 2-inch channel nickeled rail, black side fittings, each... 10.00
Each..D.P. \$12.22 Lots of 6, each..D.P. \$11.11



"DODGE" SPECIAL
C. B. & F. Co.
SPRINGFIELD, O.

- No. 318 Buckeye Special Dodge Bumper, 2-inch channel black rail, black side fittings, each...\$ 9.00
Each..D.P. \$11.11 Lots of 6, each..D.P. \$10.00
- No. 319 Buckeye Special Dodge Bumper, 2-inch channel nickeled rail, black side fittings, each 10.00
Each..D.P. \$12.22 Lots of 6, each..D.P. \$11.11

CADILLAC



- No. 418 Buckeye Special Cadillac Bumper, 2-inch channel black rail, black side fittings, each...\$13.00
Each..D.P. \$14.44 Lots of 6, each..D.P. \$13.32
- No. 419 Buckeye Special Cadillac Bumper, 2-inch channel nickeled rail, black side fittings, each... 15.00
Each..D.P. \$16.10 Lots of 6, each..D.P. \$15.00
- No. 415 Buckeye Special Cadillac Bumper, 1 1/2-in. diamond nickeled rail, black side fittings, each 17.00
Each..D.P. \$18.33 Lots of 6, each..D.P. \$17.22
- No. 515 Buckeye Special Cadillac Bumper, 1 1/2-in. diamond nickeled rail, black side fittings, each 19.00
Each..D.P. \$20.55 Lots of 6, each..D.P. \$19.44



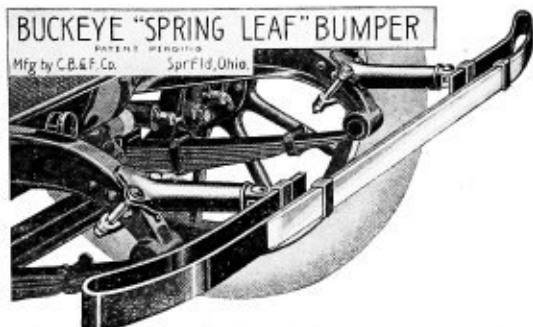
BUMPERS AND DISPLAY STAND



"STUDEBAKER"
PATENT PENDING
C.B. & F. CO., SPRLD. OHIO,
NO HOLES TO DRILL

Buckeye Special Bumper

- No. 618 Buckeye Special Studebaker Bumper, 2-inch channel black rail, black side fittings.
Each \$ 9.00
Each .. D.P. \$11.11 Lots of 6, each .. D.P. \$10.00
- No. 619 Buckeye Special Studebaker Bumper, 2-inch channel nicked rail, black side fittings.
Each 10.00
Each .. D.P. \$12.22 Lots of 6, each .. D.P. \$11.11



BUCKEYE "SPRING LEAF" BUMPER

PATENT PENDING
Mfg by C.B. & F. Co., SpriFld, Ohio

The Buckeye Spring Leaf Bumper is manufactured of the best material throughout. The main and front leaves are two inches across the face and of 80-point carbon steel and carefully tempered.

Note the front leaf which gives double resiliency and at the same time adds to the appearance of the entire fitting.

The sleeves of each side fitting carry a spiral spring, which reduces the strain on the car frame when the bumper comes in contact with an object.

The eye bolts are pivoted at their connection with the main bodies and give an almost direct pressure against the side fittings, irrespective of the point of collision.

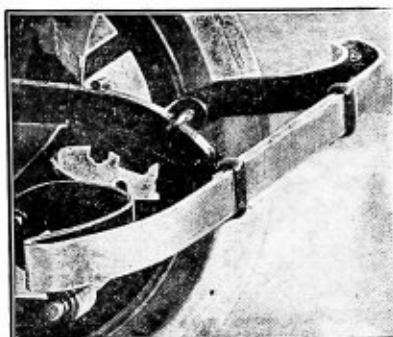
- No. 500 Buckeye Spring Leaf Bumper, nicked front leaf, balance black enamel. Each \$12.00
Each .. D.P. \$14.44 Lots of 6, each .. D.P. \$13.32
- No. 501 Buckeye Spring Leaf Bumper, all black enamel, each 13.00
Each .. D.P. \$15.54 Lots of 6, each .. D.P. \$14.44

Buckeye Display Stand

Merchandise properly displayed is readily sold. Every dealer in bumpers should have one of these stands on which a variety of styles and finishes can be shown. Write us for terms under which these stands are to be had without cost.



The Lyon Resilient Indestructible Spring Bumper



Actually tested in collision at twelve miles per hour without damage to bumper or car. The shock is absorbed by its flexibility.

This is a double front bumper, much stronger than were it of one continuous spring, and extends fully back to the car, thereby giving a resiliency that cannot be obtained when attachments are made in connection with cast parts.

Below will be found lists and general information necessary in ordering.

MEDIUM SIZE CARS

Face, 2 inches; 55- to 64-inch adjustment, tip to tip.

- No. 1 Black enamel, nickel clips, each \$7.50
Each .. D.P. \$12.48 Lots of 6, each .. D.P. \$11.10
- No. 2 Nickel Plated, Black Clips, each 8.50
Each .. D.P. \$14.18 Lots of 6, each .. D.P. \$12.60

LARGE SIZE CARS

Face, 2 1/2 inches; 58- to 66-inch adjustment, tip to tip.

- No. 4 Black Enamel, Nickel Clips, each \$ 9.50
Each .. D.P. \$15.82 Lots of 6, each .. D.P. \$14.06
- No. 5 Nickel Plated, Black Clips, each 10.50
Each .. D.P. \$17.48 Lots of 6, each .. D.P. \$15.54

"1916 CADILLAC" CARS

- No. 14 Black Enamel, Nickel Clips, each \$15.00
Each .. D.P. \$25.00 Lots of 6, each .. D.P. \$22.22
- No. 15 Nickel Plated, Black Clips, each 17.50
Each .. D.P. \$29.15 Lots of 6, each .. D.P. \$25.93
(All of above are made of 3/8-inch steel.)

FORD CARS

Clamp-on attachment. Face, 1 1/2 inches; 54- to 60-inch adjustment, tip to tip.

- No. 7 Black Enamel, Nickel Clips, each \$6.00
Each .. D.P. \$10.00 Lots of 6, each .. D.P. \$8.88
- No. 8 Nickel Plated, Black Clips, each 8.00
Each .. D.P. \$13.32 Lots of 6, each .. D.P. \$11.84



TIRE HOLDERS

"Badger" Standard Running Board



Our Tire Holders are all finished in our famous black rubber. Bolts, washers and straps are furnished for attaching. Each set is shipped in a strong box so they can be sent by parcel post or express without repacking.

No. 0 and No. 1 are especially adapted for Ford cars. No. 2 will carry tires in sizes up to 4½ in. No. 3 is especially adapted for heavy demountables. All our holders will carry two demountables or casings, with the exception of No. 0, which carries one only.

No. 0 Badger Running Board Tire Holder, black, for one tire, per set.....\$1.90
Per Set..D.P. \$2.77

No. 1 Badger Running Board Tire Holder, black, for two tires, per set..... 2.10
Per Set..D.P. \$3.00

No. 2 Badger Running Board Tire Holder, black, for two tires, per set..... 3.25
Per Set..D.P. \$4.66

No. 3 Badger Running Board Tire Holder, black, for two tires, per set..... 3.75
Per Set..D.P. \$5.55

Tire Lock

For Overland, Reo, Dodge, Maxwell and Buick



The cut represents lock for tires on the Willys-Overland Car.

This lock takes the place of the upper strap that holds the tires on rear. To attach same, remove the two cap screws which hold the bracket that the strap passes through with a socket wrench, then bolt on the Perfect Tire Lock in place of the Overland bracket, using the same cap screws

that were removed. All lined with cloth belting to deaden any rattle.

For other cars above, the Tire Lock is fastened to the rear demountable rim-tire holder by easily drilling two small holes and riveting.

These locks have two keys, all different in each dozen, and snap lock your tires safely from thieves.

No. 1 Tire Lock, for one tire, each.....\$1.50
Each..D.P. \$2.44

No. 2 Tire Lock, for two tires, each..... 1.75
Each..D.P. \$2.66

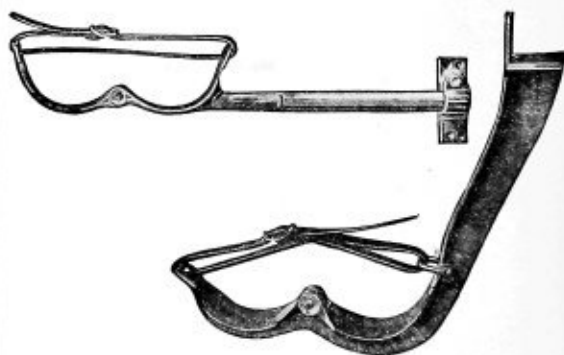
Running Board Tire Holder



A light-weight Running Board Tire Holder for all light-weight cars carrying 3-inch or 3½-inch tires. It is contained entirely on the running board, which obviates the necessity of drilling holes in the frame or otherwise marring the car. Is finely finished and one of the best designed holders on the market.

No. 86 Tire Holder, black hard rubber finish, for one or two tires, 3-inch or 3½-inch, per set... \$2.00
Per Set..D.P. \$3.00

Rear Tire Holder



No. 540 Tire Holder, with two Side Arms and 9-inch Hook, Black Enamel Finish, complete with straps, per set\$3.00
Per Set..D.P. \$4.44

No. 544 Tire Holder, with two Side Arms and 12-inch Hook. Black, complete with straps, per set 3.00
Per Set..D.P. \$4.44

For Other Types of Tire Holders See Ford Section



FOOT WARMERS, BUMPERS AND COVERS

Clark Heaters

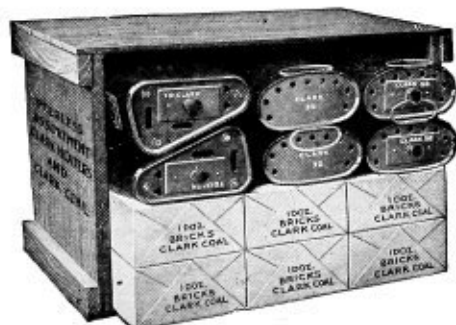


No. 3D Clark Heater

Our No. 3D Heater is one of the most popular sellers, being very strong and durable. It is 14 inches long and weighs 7 pounds. Has fine asbestos lining and is covered with Brussels carpet; has braid lining. Ends are of triple strength white metal.

Each \$2.00
 Each....D.P. \$3.33

Peerless Assortment



This assortment contains two each of the three best selling Clark Heaters and six dozen Clark Carbon Bricks, best grade.

THE CONTENTS ARE:

2—5B Clark Heaters at \$1.50 \$3.00
 2—3D Clark Heaters at \$2.00 4.00
 2—7D Clark Heaters at \$2.25 4.50
 6 dozen Clark Carbon Bricks at \$0.75 4.50

Total List.....\$16.00

5B Each....D.P. \$2.48
 3D Each....D.P. 3.33
 7D Each....D.P. 3.75
 Assortment....D.P. \$26.66

Coal for Heaters



One cake will last sixteen hours with proper adjustment of drafts and keep up a steady heat; size 7½x2½x1¼ inches.

Per dozen.....\$0.75
 Doz....D.P. \$1.32

Rubber Spring Bumpers

Round

Round Rubber Bumpers, made of an excellent quality of rubber, size 3¼ inches, 1½-inch hole.

Each \$0.60
 Each....D.P. \$0.66



Oblong

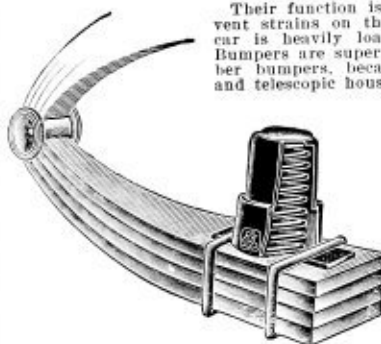
Rubber Bumpers, made of good grade stock and mechanically perfect in every detail. Three sizes.



	Height Inches	Width Inches	Length Inches	Each
Rubber Bumpers, small.....	3	1½	6½	\$0.60
Each....D.P. \$0.77				
Rubber Bumpers, medium.....	3½	1½	7½	.90
Each....D.P. \$1.11				
Rubber Bumpers, large.....	4	1½	8½	1.20
Each....D.P. \$1.55				

E. G. Spring Bumpers

Their function is to relieve and prevent strains on the springs when the car is heavily loaded. E. G. Spring Bumpers are superior to ordinary rubber bumpers, because the coil spring and telescopic housing offer greater resiliency and there is no disintegration.

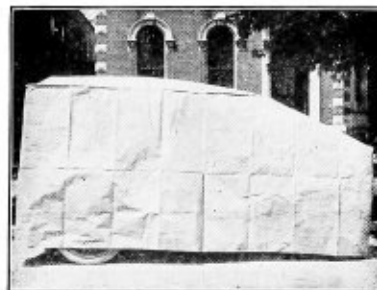


A rubber plug acts as a cushion when the springs come into contact with the spring bumper. Light, medium and heavy compression springs furnished according to model of car.

Per pair.. \$1.00
 Per Pair. D.P. \$1.44

Paper Car Covers

Auto Covers made of heavy imported paper; is securely reinforced to prevent tearing and completely covers the car. Is a protection from dust, dirt, cold and moisture. Made in the following sizes:

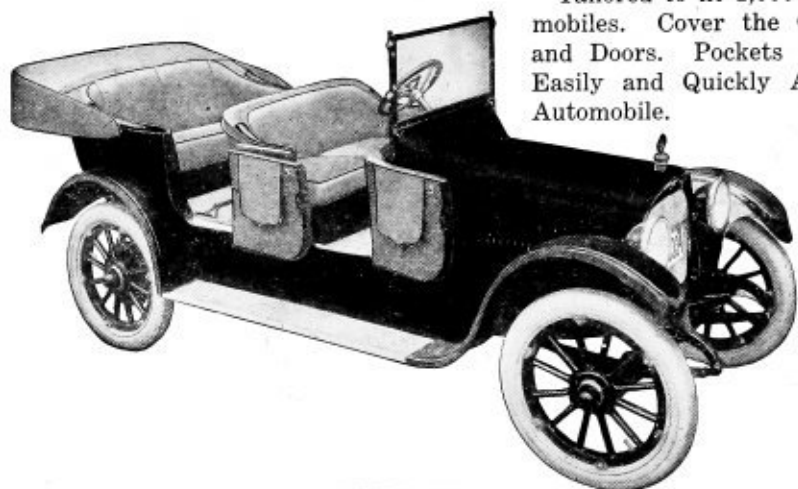


7-Passenger Size.....	Each \$2.50	Ford Special Size.....	Each 1.50
Each..D.P. \$2.77		Each..D.P. \$1.76	
5-Passenger Size.....	2.00		
Each..D.P. \$1.98			

Five passenger covers will cover the popular priced touring car and roadster with wheel base up to 115 inches. For larger cars the seven passenger size is preferable. Ford covers are for cars with short wheel base.



GORDON SEAT COVERS



Tailored to fit 1,000 Models of Automobiles. Cover the Cushions, Backs and Doors. Pockets in Door Covers. Easily and Quickly Attached to any Automobile.

THE MATERIAL

Number

- 1046—A single texture material, gray mixture; a fast color that will not fade or spot.
- 1000—A double texture, waterproof material, tan color. The sun has a tendency to fade this material out in spots after a time, and to any one wanting the tan colored material we recommend the No. 1074.
- 1032—A double texture, waterproof material, of a neat gray pattern; fast color that will not fade or spot; very handsome pattern; will give very satisfactory wear.
- 1074—A double texture, waterproof material, tan color, that will not fade or spot, and we recommend this cover highly, as it makes a very handsome seat covering and will give satisfactory wear, at a very modest price.
- 1050—A double texture, waterproof material of a gray mixture, fast color that will not fade or spot; very rich looking and will give satisfactory wear, and we recommend it to those who prefer the gray color to the tan.
- 1027—A double texture, waterproof material of a gray mixture, fast color that will not fade or spot; an excellent wearing fabric of splendid appearance; perfect match for inside lining of tops on cars such as Hudson, Cole, etc.
- 1070—A single texture material, fancy black and white weave, fast color that will not fade or spot, and will wear well.
- 1028—A single texture material, fancy mixture, handsome fabric of good wearing qualities, similar to regular Cadillac fabric; will not fade or spot.
- 1029—A double texture waterproof material, of a gray mixture, fast color that will not fade or spot; a very handsome and serviceable fabric.
- 1030—A double texture, waterproof fabric, of a brown and tan mixture; something new and different; fast color that will not fade or spot, and a very good wearing material.

Number

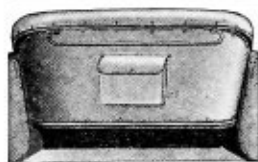
- 1031—Double texture, waterproof material of a blue shade. This gives a blue cover at a very modest price; fast color and very serviceable.
- 1021—A double texture, waterproof material, handsome gray Bedford cord; will not fade or spot. Extra good wearing material with special fine trimmings, making a very serviceable and handsome cover.
- 1022—A double texture, waterproof material, beautiful olive tan mixture, will not fade or spot. Wears extra well and made with special extra fine trimmings. Makes a very serviceable and handsome cover.
- 1033—Special fabric with a special waterproof treatment, similar to regular Cadillac fabric; will not fade or spot. This treatment makes the cover water and dust proof, but permits its being cleaned in gasoline, which makes it different from the other double texture materials.
- 1034—Special fabric with a special waterproof treatment; gray and tan mixture, with a small pin stripe; an altogether new design; very handsome pattern; will not fade or spot. This treatment makes the cover water and dust proof, but permits its being cleaned in gasoline, which makes it different from the other double texture materials.
- 1035—Special fabric with a special waterproof treatment; brown and tan mixture, with a small, narrow brown stripe; an altogether new design; a very pretty cover. This treatment makes the cover water and dust proof, but permits its being cleaned in gasoline, which makes it different from the other double texture materials.
- 1088—A double texture, waterproof material, beautiful gray wool, will wear indefinitely, and with special fine trimmings; is one of the finest seat coverings ever offered.

The GIBSON COMPANY INDIANAPOLIS



GORDON SEAT COVER PRICES—Concluded

	1046	1000	1032 1050 1074	1027 1070	1028 1029 1030 1031	1021 1022	1033	1034 1035	1036 1037	1088
Reo.....4-cyl. 5-p. 1916	\$15.00	\$17.00	\$21.00	\$23.00	\$25.00	\$30.00	\$32.00	\$34.00	\$38.00	\$45.00
Reo....."6-cyl." 7-p. 1916	18.00	20.00	25.00	28.00	30.00	35.00	37.00	39.00	43.00	52.00
Saxon.....2-p. 1914	6.50	7.50	9.50	11.50	12.50	17.50	18.50	19.50	22.00	25.00
Saxon.....2-p. 1915	6.50	7.50	9.50	11.50	12.50	17.50	18.50	19.50	22.00	25.00
Saxon....."B" 6-cyl. 5-p. 1915	15.00	17.00	21.00	24.00	26.00	31.00	33.00	35.00	38.00	45.00
Saxon....."B" 2-p. 1916	6.50	7.50	9.50	11.50	12.50	17.50	18.50	19.50	22.00	25.00
Saxon....."B" 6-cyl. 5-p. 1916	15.00	17.00	21.00	24.00	26.00	31.00	33.00	35.00	38.00	45.00
Scripps-Booth.....2-p. 1915	8.00	9.00	11.00	13.00	14.00	19.00	20.00	21.00	24.00	28.00
Scripps-Booth.....3-p. 1916	8.00	9.00	11.00	13.00	14.00	19.00	20.00	21.00	24.00	28.00
Studebaker....."20" 5-p. 1912	14.00	16.00	20.00	23.00	25.00	30.00	32.00	34.00	38.00	45.00
Studebaker....."30" 5-p. 1912	16.00	18.00	22.00	25.00	27.00	32.00	34.00	36.00	40.00	48.00
Studebaker....."25" 2-p. 1913	9.00	10.00	12.00	14.00	15.00	20.00	21.00	22.00	25.00	28.00
Studebaker....."25" 5-p. 1913	14.00	16.00	20.00	23.00	25.00	30.00	32.00	34.00	38.00	45.00
Studebaker....."35" 6-p. 1913	16.00	18.00	22.00	25.00	27.00	32.00	34.00	36.00	40.00	48.00
Studebaker....."25" 6-p. 1913	16.00	18.00	22.00	25.00	27.00	32.00	34.00	36.00	40.00	48.00
Studebaker....."25" 2-p. 1914	9.00	10.00	12.00	14.00	15.00	20.00	21.00	22.00	25.00	28.00
Studebaker....."30" 5-p. 1914	14.00	16.00	19.00	22.00	24.00	30.00	32.00	34.00	38.00	45.00
Studebaker....."4" 6-p. 1914	18.00	20.00	25.00	28.00	30.00	35.00	37.00	39.00	43.00	52.00
Studebaker....."4" 3-p. 1915	9.00	10.00	12.00	14.00	15.00	20.00	21.00	22.00	25.00	28.00
Studebaker....."4" 5-p. 1915	12.00	14.00	18.00	21.00	23.00	29.00	31.00	33.00	36.00	43.00
Studebaker....."6" 5-p. 1915	13.00	15.00	19.00	22.00	24.00	30.00	32.00	34.00	38.00	45.00
Studebaker....."6" 7-p. 1915	17.50	18.50	22.00	25.00	27.00	32.00	34.00	36.00	40.00	48.00
Studebaker....."4" 7-p. 1916	16.00	18.00	22.00	25.00	27.00	32.00	34.00	36.00	40.00	48.00
Studebaker....."6" 7-p. 1916	16.00	18.00	22.00	25.00	27.00	32.00	34.00	36.00	40.00	48.00
Stutz.....4-cyl. 2-p. 1915	9.00	10.00	12.00	14.00	15.00	20.00	21.00	22.00	24.00	28.00
Stutz.....4-cyl. 5-p. 1915	18.00	20.00	25.00	28.00	30.00	35.00	37.00	39.00	43.00	52.00
Stutz.....6-cyl. 6-p. 1915	20.00	22.00	27.00	31.00	33.00	38.00	40.00	42.00	46.00	54.00
Stutz.....Series C. 2-p. 1916	9.00	10.00	12.00	14.00	15.00	20.00	21.00	22.00	24.00	28.00
Stutz.....Series C. 5-p. 1916	18.00	20.00	25.00	28.00	30.00	35.00	37.00	39.00	43.00	52.00
Thomas.....7-p. 1911	20.00	22.00	27.00	31.00	33.00	38.00	40.00	42.00	46.00	54.00
Westcott....."O-30" Ser. 10. 5-p. 1914	18.00	20.00	25.00	28.00	30.00	35.00	37.00	39.00	43.00	52.00
Westcott....."O-35" 5-p. 1915	18.00	20.00	25.00	28.00	30.00	35.00	37.00	39.00	43.00	52.00
Westcott....."U-50" 7-p. 1915	21.00	24.00	29.00	33.00	35.00	40.00	42.00	44.00	48.00	57.00
Westcott....."6-41" 5-p. 1916	18.00	20.00	25.00	28.00	30.00	35.00	37.00	39.00	43.00	52.00
Westcott....."6-51" 7-p. 1916	21.00	24.00	29.00	33.00	35.00	40.00	42.00	44.00	48.00	57.00
Willys-Knight....."84" R. 2-p. 1916	7.50	8.50	10.50	12.00	13.00	18.00	19.00	20.00	22.00	26.00
Willys-Knight....."84" T. 5-p. 1916	13.00	15.00	18.00	21.00	23.00	30.00	32.00	34.00	37.00	44.00



We furnish a cover for the back of the front seat, with a large pocket. For this an extra charge is made.



We can furnish a top slip cover to match seat covers, and for this an extra charge is made.

Piece to cover back of front seat with pocket for any car.....	\$1.30	\$1.40	\$2.00	\$2.75	\$3.00	\$3.25	\$3.50	\$4.00	\$4.50	\$5.00
Nos.	5029	5018	5062 5042 5035	5057	5058 5059 5080 5061	5051 5052	5063	5064 5065	5066 5067	5036
Top Slip Cover, match Ford only.....	\$2.70	\$3.00	\$4.00	\$4.25	\$4.50	\$5.00	\$6.00	\$7.00	\$8.00	\$ 9.00
Top Slip Cover, match any car except Ford..	3.20	3.50	5.00	5.50	6.00	6.50	7.00	8.00	9.00	10.00

5029 matches 1046 Seat Cover.	5057 matches 1027 Seat Cover.	5063 matches 1033 Seat Cover.	5067 matches 1037 Seat Cover.
5018 matches 1000 Seat Cover.	5058 matches 1028 Seat Cover.	5064 matches 1034 Seat Cover.	5036 matches 1088 Seat Cover.
5062 matches 1032 Seat Cover.	5059 matches 1029 Seat Cover.	5065 matches 1035 Seat Cover.	5051 matches 1021 Seat Cover.
5042 matches 1050 Seat Cover.	5060 matches 1030 Seat Cover.	5066 matches 1036 Seat Cover.	5052 matches 1022 Seat Cover.
5035 matches 1074 Seat Cover.	5061 matches 1031 Seat Cover.		

STYLE AND FIT

Every Gordon Seat Cover is designed and made up with the same careful attention to detail as the finest garment.

TRIMMINGS

Trimmings are the best that money can buy; all seams and edges are bound with black upholstery leather; the arm rests are made of the same upholstery leather. The trimmings should not be confused with the cheaper enameled goods bindings frequently used and which will peel off and crack in a short time, thus destroying the appearance of the covers.

FASTENINGS

Gordon Seat Covers are attached with glove fasteners—these come put in—any one can attach them to his car in half an hour's time—all you have to do is to screw in the studs—this is done with an ordinary screwdriver without injuring or marring the body in any way.

We use "celluloid-covered" glove fasteners, made "extra strong"—so that they will not fade, rust or wear out, even when exposed to the weather as they constantly are on seat coverings.



TIRE COVERS

Spring and Button Tire Covers



Drill

No. 950 Spring and Button Drill Tire Covers, Ford sizes, 30x3, 30x3½ or 31x4, each.....\$1.00
Each..D.P. \$1.44 Dozen..D.P. \$16.00

No. 951 Spring and Button Drill Tire Covers, sizes 32x3½ to 37x5, each..... 1.40
Each..D.P. \$2.00 Dozen..D.P. \$22.22

No. 960 Spring and Button Drill Tire Covers for demountable rims, Ford size, 30x3½ and 31x4, each..... 1.25
Each..D.P. \$1.66 Dozen..D.P. \$17.76

No. 961 Spring and Button Drill Tire Covers for demountable rims, sizes 32x3½ to 37x5, each.. 1.40
Each..D.P. \$2.00 Dozen..D.P. \$22.22



"Duck"

Made of heavy black enamel duck and will fit all makes of tires regardless of style of tread. Can be easily and quickly applied without injury to one's fingers. Buttons inside and is held to a close fit by the flat steel spring that runs close to the edge around the entire circumference of the cover.

No. 970 Spring and Button Duck Tire Covers, Ford sizes, 30x3, 30x3½ and 31x4, each.....\$1.50
Each..D.P. \$2.10 Dozen..D.P. \$24.00

No. 971 Spring and Button Duck Tire Covers, sizes 32x3½ to 37x5½, each..... 2.00
Each..D.P. \$2.66 Dozen..D.P. \$29.32

No. 980 Spring and Button Duck Demountable Tire Covers, Ford size, 30x3½ and 31x4, each..... 1.50
Each..D.P. \$2.10 Dozen..D.P. \$24.00

No. 981 Spring and Button Duck Demountable Tire Covers, sizes 32x3½ to 37x5½, each..... 2.00
Each..D.P. \$2.66 Dozen..D.P. \$29.32

A thoroughly well made cover in the construction of which the best quality black enamel drill is used. Supplied in sizes from 28x3" to 37x5". In ordering specify size desired.



Spiral Spring Tire Covers

This is an adjustable one-piece tire cover held in position by two endless spiral springs, and slips on smooth and perfect fitting, without the use of any other fastening device. Made of best quality black enamel duck.

No. 1296 Spiral Spring Tire Covers to fit tires not on demountable rims—

Be sure and specify size of tire.

No. 1296

28-30, each	\$1.75
Each..D.P. \$2.40	
31-32, each	1.85
Each..D.P. \$2.68	
33-34, each	2.00
Each..D.P. \$2.86	
35-36, each	2.15
Each..D.P. \$3.12	
37-38, each	2.35
Each..D.P. \$3.38	
Over 38, each	2.85
Each..D.P. \$4.10	

No. 1292 Spiral Spring Tire Covers to fit tires on demountable rims—

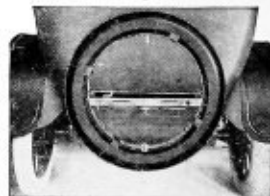
No. 1292

Be sure and specify size of tire.

28-30, each	\$1.75
Each..D.P. \$2.40	
31-32, each	1.85
Each..D.P. \$2.68	
33-34, each	2.00
Each..D.P. \$2.86	
35-36, each	2.15
Each..D.P. \$3.12	
37-38, each	2.35
Each..D.P. \$3.38	
Over 38, each	2.85
Each..D.P. \$4.10	

Gordon Special Holder Tire Cover

This tire cover is made to fit tires on demountable rims carried on special holders, such as on 1916 Buick, Hupmobile, Chandler, Patterson, Haynes, Maxwell, Chevrolet, Dodge, Briscoe, Paige, Interstate, etc.



This is the only tire cover made that will fit tires carried on special holder, that is slightly in appearance and waterproof.

No. 1221 for tires on demountable rims carried on special holder.

Be sure and specify size of tire.

No. 1221

28-30, each	\$1.75
Each..D.P. \$2.40	
31-32, each	1.85
Each..D.P. \$2.68	
33-34, each	2.00
Each..D.P. \$2.86	
35-36, each	2.15
Each..D.P. \$3.12	
37-38, each	2.35
Each..D.P. \$3.38	
Over 38, each	2.85
Each..D.P. \$4.10	



GREASE BOOTS, CUSHIONS AND WORK SUITS

Universal Joint Boot



Made of Harness Leather

- No. 1 Universal Joint Boot, small, each.....\$0.90
 Each....D.P. \$1.33
 No. 2 Universal Joint Boot, large, each..... 1.10
 Each....D.P. \$1.66

Knuckle Boot



- No. 1 Knuckle Boot, small, each.....\$0.40
 Each....D.P. \$0.66
 No. 2 Knuckle Boot, large, each..... .50
 Each....D.P. \$0.84

End Thrust Boot



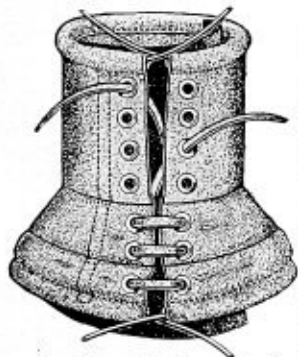
- No. 1 End Thrust Boots, 7-inch, each..\$0.50
 Each....D.P. \$0.80
 No. 2 End Thrust Boots, 8-inch, each.. .60
 Each....D.P. \$0.88

Overland



Makes it possible to pack the joints of the steering gear with grease, thereby eliminating rattle and wear.
 Overland Grease Boots in set of 4, per set.....\$1.10
 Per set....D.P. \$1.80

Overland Laced Universal Joint Boot



Made from a special tanned soft leather having unusual wearing qualities. The special construction allows free action of the joint without the wear on the boot so troublesome and expensive in other boots.

Can be attached in ten to twenty minutes, whereas the old style cone shaped boot requires about three hours to install.

Any one who has taken down a universal joint shaft in order to install a new boot will readily recognize the advantage in the construction of this boot.

Furnished complete with leather lace and clamp wire inserted in each end ready to install.

Made in pairs for front and rear end of universal joint.

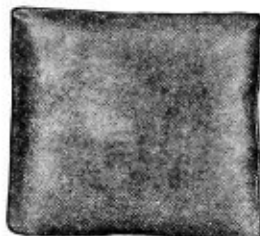
A time saver, a money maker for every Overland dealer, repairman or owner.

Give number of model wanted for when ordering.

- Price, per pair\$3.00
 Per Pair..D.P. \$4.44

Cushions

Made of best quality Spanish roan skins, stuffed with genuine curled hair.



- No. 1 Plain Leather, size 15x15, Driver's Back Cushion, curved to fit back, each\$4.50
 Each..D.P. \$7.50

- No. 11 Fancy Leather, size 15x15, Driver's Back Cushion, curved to fit back, each\$4.70
 Each..D.P. \$7.76



- No. 13 Plain Leather Pillows, size 20 x 20, made from Spanish roan skins stuffed with elastic felt, each..\$5.00
 Each..D.P. \$8.32



- No. 14 Fancy Leather Pillows, size 20 x 20, colors harmoniously blended and designed by leather experts. Stuffed with best quality elastic felt, each 5.20
 Each..D.P. \$8.66

Work Suit

No. 4025 Gordon Automobile Work Suit, made in one piece, close buttoned at neck. Tabs at wrists and bottoms of trousers, so can be closed, protecting undergarments. Openings at sides to get at trousers pockets. A man wearing one of these suits can crawl around under automobiles, over the dirty, greasy floors, and not soil the regular clothes. Made in all sizes. To determine size required, measure over the vest the same as when measuring for a sack coat. Great care must be exercised to not take measure too tight. Material is heavy, strong, serviceable khaki.



- Each\$2.25
 Each..D.P.. 3.10



TOP FITTINGS

Curtain Fasteners



No. 200 Curtain Fasteners, single, black finish, per doz. \$0.75
 Doz. .D.P. \$1.11
 No. 201 Curtain Fasteners, single, nickel finish, per doz. .85
 Doz. .D.P. \$1.11

No. 202 Curtain Fasteners, double, black finish, per doz. \$0.85
 Doz. .D.P. \$1.32

No. 203 Curtain Fasteners, double, nickel finish, per doz. 1.00
 Doz. .D.P. \$1.32



No. 204 Clinch Curtain Fasteners, black, per doz. \$0.75
 Doz. .D.P. \$1.11

No. 205 Clinch Curtain Fasteners, nickel, per doz. 1.00
 Doz. .D.P. \$1.11

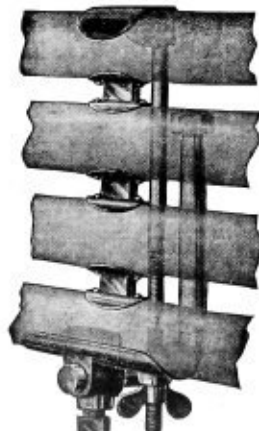


Gemco Bow Rest



No. G-1 Gemco Bow Rest, 3/4-in. hole, black, per pair \$0.50
 Per Doz. Pr. .D.P. \$6.60
 No. G-2 Gemco Bow Rest, 1/2-in. hole, black, per pair .50
 Per Doz. Pr. .D.P. \$6.60

"Ever Tight" Clamp Bow Holder



This Bow Holder consists of a long perch fastened to a hanger with a set screw. The securing anchor, which has a spring washer under it, is placed through a hole in a lug on the inside of the perch.

When the top is up the thumb nut is screwed up firmly against the upper nut so it can not rattle. When the top is let down the securing anchor draws the bows tightly together by the use of the thumb nut.

No. 1 for three and four bow tops.

No. 2 for five bow tops.

Finish: Hard rubber, black enamel.

No. 1 Ever Tight Clamp Bow Holders, 3/4-in. hole \$1.25
 No. 1 Ever Tight Clamp Bow Holders, 1/2-in. hole 1.25
 No. 2 Ever Tight Clamp Bow Holders, 3/4-in. hole 1.25
 No. 2 Ever Tight Clamp Bow Holders, 1/2-in. hole 1.25
 Per Pair. .D.P. \$1.76

Adams Automobile Top Holder



No other holder compares with the Adams in neatness, efficiency, ease of operation or durability. Can be installed in two minutes and will be the last thing on your car to wear out—in fact, it cannot wear out or even get out of order or rust.

The chain used is steel, sherardized and electroplated. The tensile strength of chain is 465 lbs.—three times as strong as a strap holder.

An ornament to any car—no unsightly, projecting arms nor dangling straps.

Adjustable every sixteenth of an inch, and the leverage is such that with a slight turn you can draw the chain as tight as a cable or loosen it instantly. You cannot do that with a strap holder—because the holes in the strap cannot be set close enough together—hence in spite of your strap holder, your top rattles.

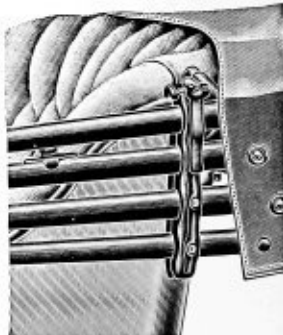
The saddle and hook of the Adams Top Holder are lined with leather—they cannot mar or mark the bows of your car.

The holders are made with 1/2 and 3/4-inch holes. All small cars take the 1/2 size and the large cars take the 3/4 inch.

Be particular to specify size. Black enamel finish—neatly boxed in pairs. One dozen and 3 dozen to case. Price, per pair. \$1.25
 Per pair. .D.P. \$2.22



Bair Top Holders



Car Equipped with Bair Top Holders

Model A Standard Type
 Black rubber enamel finish. Has lug for attaching to body iron socket with 3/4-inch iron. Can be attached to any car.

Model A Bair Top Holders, 3-bow, per pair \$3.25
 Per Pair. .D.P. \$4.66

Model A Bair Top Holders, 4-bow, per pair 3.50
 Per Pair. .D.P. \$5.00

Model A Bair Top Holders, 5-bow, per pair 3.75
 Per Pair. .D.P. \$5.31

Sheet Celluloid



Sheet Celluloid for Storm Fronts and Curtains. Sheets 20 x 50 inches.

Each \$1.50
 Each. .D.P. \$1.67



HOOD HARDWARE AND BODY TRIMMINGS



Style G



Style H

Hood Fasteners

Style G Hood Fasteners,
black enamel finish, ea. \$0.50
Dozen....D.P. \$8.88

Style H Hood Fasteners,
same as G except heav-
ier for trucks, black
enamel finish, each.....\$1.00
Dozen....D.P. \$17.77



Style M



Style A

Style M Hood Fasteners, no spring used, for all
cars, black enamel finish, each.....\$0.30
Dozen....D.P. \$5.33

Style A Hood Fasteners, small size, black enamel
finish, each60
Dozen....D.P. \$10.66

Hood Handles



No. 6

No. 6 Hood Handle. A highly polished, nicely fin-
ished casting, black enamel finish, each.....\$0.18
Dozen....D.P. \$3.20



No. 7

No. 7 Hood Handle. Made from $\frac{1}{2}$ -in. steel rod,
black enamel finish, each.....\$0.25
Dozen....D.P. \$4.44

Door Handles



No. 440

No. 440 Nickered Door Handles, $3\frac{1}{4}$ -in. opening,
per pair\$2.00
Per pair....D.P. \$2.22



No. 430

No. 430 Nickered Door Handles, $3\frac{1}{4}$ -in. opening,
per pair\$2.00
Per pair....D.P. \$2.22



No. 450

No. 450 Nickered Door Handles, $3\frac{1}{4}$ -in. opening,
per pair\$2.00
Per pair....D.P. \$2.22



No. 506

No. C-506 Japanned Footman Loops for 1- and
 $1\frac{1}{4}$ -in. straps, each\$0.10
Dozen....D.P. \$0.55



MIRRORS

Diminishing Mirrors



Separable frame and back permits replacement of reflector. Brass frame, polished and nickel plated; stamped steel back and clamp; tubular steel arm; baked black enameled finish. Reflector adjustable to any angle; swivel clamp for adjustment of arm.

No. 6100 Diminishing Mirror, 4-inch, black with nickel trimmings, each\$1.15
Each..D.P. \$1.70 Dozen..D.P. \$19.44

No. 6019 Diminishing Mirror, 5½-inch, black with nickel trimmings, each 1.40
Each..D.P. \$2.06 Dozen..D.P. \$23.88

Oval Mirror



French plate beveled mirror, 4x6 inches oval. Same construction as No. 6113, described below.

No. 6112 Oval Mirror, 4x6 inches, black with nickel trimmings, each\$2.60
Each..D.P. \$3.84 Dozen..D.P. \$44.44

Square Mirror



French plate bevel mirror; stamped steel back and clamps, steel arms, baked black enameled finish; brass frame, polished and nickel plated.

The diamond-shaped adjustable clamp will fit on the windshield frame or support of the leading cars. Ball and socket joint in back permits adjustment of reflector to any angle.

No. 6113 Square Mirror, 4x6 inches, black with nickel trimmings, each\$2.60
Each..D.P. \$3.84 Dozen..D.P. \$44.44

Round Mirror



French beveled mirror; brass frame, polished and nickel plated; steel tubular arm, baked black enameled finish. Swivel adjustable joint in back; heavy hand screw. Fits any round windshield.

No. 6181 French Beveled Glass Round Mirror, 5½-inch, black with nickel trimmings, each\$2.00
Each..D.P. \$2.95 Dozen..D.P. \$33.88

Limousine Mirror

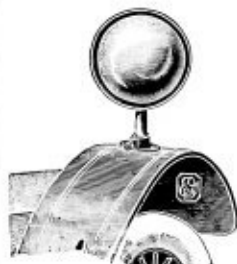
Is indispensable for limousines coupes and other closed cars. It is a convenience for the ladies in arranging their toilets. The mirror is attached to any suitable point in the interior of the car by two wood bolts and is adjustable by means of a ball-socket joint.



Brass frame, polished and nickel plated; stamped steel back, malleable iron base, baked hard enamel finish.

No. 6064 Limousine Mirror, 3½x7-inch, black with nickel trimmings, each\$3.00
Each..D.P. \$4.44 Dozen..D.P. \$50.66

Fender Mirror



Mounted on either of the forward mud guards, the wide angle diminishing mirror gives the driver a great range of vision.

Attached to fender by means of socket base; adjustable swivel joint in back. Brass frame, polished and nickel plated. Stamped steel back, baked black enamel finish. Length of rod, 3½ inches.

No. 6180 Fender Mirror, 5½-inch, black and nickel finish, each\$1.40
Each..D.P. \$2.06 Dozen..D.P. \$23.88

Truck Mirror

Designed especially for motor trucks and delivery wagons. Its use required in several states. Frame made of brass, nickel plated and polished; back made of stamped steel; arm is cold rolled steel tubing; baked black enamel finish. Adjustable for angle of reflector and length of arm.

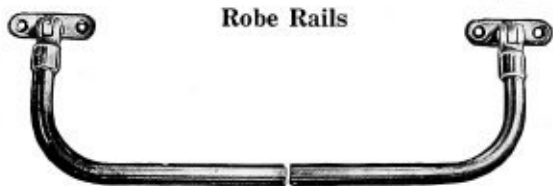


No. 5842 Truck Mirror, 6-inch, black and nickel finish, each\$2.00
Each..D.P. \$2.95 Dozen..D.P. \$33.88



RAILS, MOULDING, ALCOHOL, SONOSCOPE AND PUMPS

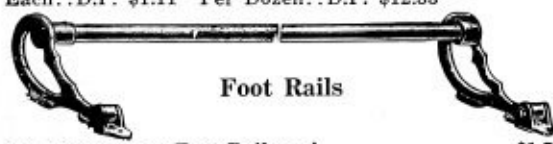
Robe Rails



No. 102 Folding Robe Rail Brass Tube with black enameled handles, each\$1.25
 Each..D.P. \$1.44 Per Dozen..D.P. \$15.55
 No. 1102 Folding Robe Rail Nickeled Tube with black enameled handles, each 1.50
 Each..D.P. \$1.55 Per Dozen..D.P. \$17.11



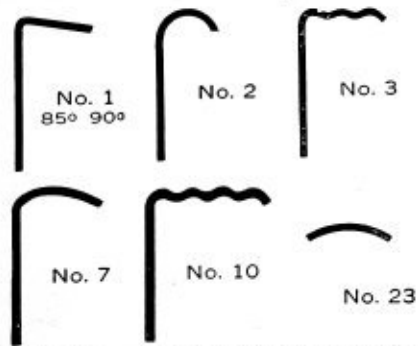
No. 332 S Handle Robe Rail Brass Tube with black enameled handles, each\$1.50
 Each..D.P. \$1.11 Per Dozen..D.P. \$12.33
 No. 1332 S Handle Robe Rail Nickeled Tube with black enameled handles, each 2.00
 Each..D.P. \$1.11 Per Dozen..D.P. \$12.33



Foot Rails

No. 60 All Brass Foot Rail, each\$1.75
 Each..D.P. \$1.88 Per Dozen..D.P. \$21.33
 No. 61 Foot Rail Black Enamel Ends, nickeled rail, each 1.75
 Each..D.P. \$2.00 Per Dozen..D.P. \$22.22

Alite Moulding



Alite Metal Running Board and Floor Board Moulding is an all white, rustless metal moulding that can be supplied in all the patterns illustrated above. All sizes come in 10-foot lengths.

No. 1 Alite Moulding, per foot\$0.18
 Per Foot..D.P. \$0.22
 No. 2 Alite Moulding, per foot18
 Per Foot..D.P. \$0.22
 No. 3 Alite Moulding, per foot30
 Per Foot..D.P. \$0.24
 No. 7 Alite Moulding, per foot30
 Per Foot..D.P. \$0.24
 No. 10 Alite Moulding, per foot30
 Per Foot..D.P. \$0.24
 No. 23 Alite Moulding, per foot30
 Per Foot..D.P. \$0.24

Pyro Denatured Alcohol



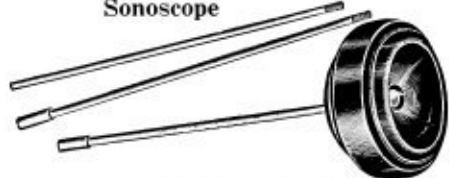
An anti-freezing solution that defies the action of Snow King. This inexpensive and very efficient liquid in solutions as indicated below will help to keep that car running in the severest weather. This Pyro has the approval of the Society of Automobile Engineers and is recommended by that body.

Its superiority over salt-solution, glycerine or wood alcohol has long been known. It has no harmful effects and requires no skill in mixing.

MIXTURES

20 per cent. Solution—(1 quart of Pyro-Alcohol to 1 gallon of water) freezes at about 10 degrees above zero.
 30 per cent. Solution—(1 1/4 quarts of Pyro-Alcohol added to 1 gallon of water) freezes at about 5 degrees below zero.
 40 per cent. Solution—(2 quarts of Pyro-Alcohol added to 1 gallon of water) freezes at about 20 degrees below zero.
 Pyro-Alcohol, per gallon can\$1.00
 Per gallon can..D.P. Price on application.
 Pyro-Alcohol, 5-gallon can, per gallon80
 Per gallon can..D.P. Price on application.
 Pyro-Alcohol, half-barrel, per gallon75
 Per gallon can..D.P. Price on application.
 Pyro-Alcohol, barrel, per gallon70
 Per gallon can..D.P. Price on application.

Sonoscope



Taking a motor apart is a costly piece of work and often much labor and expense could be saved if the cause could be accurately located before the parts are disturbed: in fact the knock is not always in the motor itself, although it may sound so, but may be found in some of its attachments or fittings, and could perhaps be easily remedied by the operator if he only had the means of locating it.

The "American" Sonoscope is an instrument which has been designed expressly for locating these knocks and pounds, and to say it does its work well does not begin to express it. Every click, knock or pound can be instantly traced to its source, and positively located without any mistake.

Sonoscope, each.....\$1.50
 Each..D.P. \$1.67

Water Circulating Pumps

The Lobee Pumps have a train of satisfied users everywhere—are the most universally endorsed of any pump made. If you want good circulation on your automobile, launch or motor boat, use a Lobee Pump. There are more Lobee Circulating Pumps in use than all other makes combined, which demonstrates their efficiency and durability. These gear pumps will make as good as 100 revolutions per minute.



Lobee Pumps, 1/2 inch, each.....\$5.50
 Each..D.P. \$9.44
 Lobee Pumps, 3/4 inch, each..... 7.00
 Each..D.P. \$11.66



TIRE CHAINS

Weed Anti-Skid Chain

Weed Anti-Skid Chains represent the highest development of an anti-skid device. They are made as carefully as the automobile on which they are used, and, as you probably have often heard said, "Every Weed is Guaranteed." The cross chains are made of special stock and the links are smoothly welded. They are hardened in our own furnaces under pyrometer readings and are then heavily brass plated. They are diamond hard, yet not brittle, combining great strength and wearing quality. The Weed side chain is made of heavy wire of high tensile strength and is heavily galvanized to prevent rusting.



Price List of Weed Anti-Skid Chains

Size	Price	Size	Price
28x2½	\$3.50	30x4½	\$6.50
30x2½	3.75	32x4½	7.00
28x3	4.00	34x4½	7.50
30x3	4.50	35x4½	8.00
32x3	5.00	36x4½	8.00
34x3	5.50	37x4½	8.75
36x3	6.00	38x4½	9.50
28x3½	4.50	40x4½	11.00
30x3½	5.00	42x4½	12.50
32x3½	5.50	34x5	8.50
34x3½	6.00	35x5	9.00
36x3½	6.50	36x5	9.00
30x4	5.50	37x5	9.75
31x4	6.00	38x5	10.50
32x4	6.00	39x5	11.25
33x4	6.50	40x5	12.00
34x4	7.00	36x5½	12.00
35x4	7.50	37x5½	13.00
36x4	8.00	38x5½	14.00
37x4	8.00	28x6	14.00
40x4	10.00	40x6	15.00

Price List of Weed Cross Chains



Size	Each	Size	Each
2½	\$0.05	4½	\$0.10
3	.06	5	.12
3½	.08	5½	.15
4	.09	6	.18

Weed Chain Adjusters

Patented March 29, 1910



Weed Chain Adjusters are four springs, radiating from a center chain surrounding the hub; are attached by simple hooks to the side chain. The adjuster draws the chains evenly to the tires—holds them right, fairly taut, but not tight. Allows the chains to "creep," and that's the essential thing. When the chains "creep" there isn't a ghost of a chance to cause injury to the tires.

Price List of Weed Chain Adjusters

28-30, 32-34, 36, per pair	\$1.00
37-38, 40-42, per pair	1.50

Rid-O-Skid Tire Chains



Rid-O-Skid Tire Chains are offered as an anti-skid device to meet the requirements of those to whom initial cheapness is the chief consideration. They are necessarily of inferior quality—are not made as carefully or of diamond-hard material as are Weed Tire Chains. If you ignore the maxim "Initial Cheapness is False Economy" and purchase Rid-O-Skid Chains instead of Weed Chains, you will at least be much wiser than the motorist who insists upon taking chances by "depending on rubber alone," and later experience will show you that Weed chains give much greater mileage and are, therefore, cheaper in the end.

Price List of Rid-O-Skid Tire Chains

Size	Price	Size	Price
28x2½	\$1.95	30x4½	\$3.00
30x2½	2.10	32x4½	3.25
28x3	2.40	34x4½	3.40
30x3	2.50	35x4½	3.50
32x3	2.60	36x4½	3.60
34x3	2.75	37x4½	3.75
36x3	2.90	38x4½	3.90
28x3½	2.50	40x4½	4.25
30x3½	2.65	42x4½	4.50
32x3½	2.80	34x5	4.10
34x3½	2.95	36x5	4.50
36x3½	3.10	37x5	4.70
30x4	2.80	38x5	4.90
31x4	2.90	39x5	5.10
32x4	3.00	40x5	5.25
33x4	3.10	36x5½	5.20
34x4	3.20	37x5½	5.40
35x4	3.30	38x5½	5.60
36x4	3.40	39x5½	5.80
37x4	3.50	38x6	6.50
40x4	4.00	40x6	6.75

Weed Chains for Motorcycles



Patented March 24, 1913; Aug. 23, 1904

Weed Chains for Motorcycles are just as perfect in principle, construction and workmanship as Weed Anti-Skid Chains for automobiles. They are light in weight and easily carried. Packed one chain in a small canvas bag, which can be easily carried in a tool box or coat pocket when not in use, without inconvenience. They are easily attached.

Price List of Weed Chains for Motorcycles

Size	Each	Size	Each
28x2½	\$2.25	29x2½	\$2.25
28x2½	2.25	28x3	2.50

Weed Cross Chains for Motorcycles

Size	Each
2½	\$0.06
2½	.07
3	.08



TIRE CHAINS, MUD HOOKS AND QUICK REPAIR LINKS

Weed Chains for Solid Tires



Patented March 24, 1903; Aug. 23, 1904

An efficient traction and anti-skid device for single and dual solid truck tires.

They are made especially strong and so constructed that they satisfactorily meet the requirements of heavy truck service when the clearance between rim and drive chain is not less than 1½ inches on large sizes, or 1 inch on small sizes. When there is less than this clearance our Lyon Grips should be used.

Price List of Weed Chains

For Single Solid Tires

Size	Per Pr.	Size	Per Pr.
32x3	\$6.00	38x4	\$12.00
34x3	6.50	40x4	13.00
36x3	7.00	42x4	14.00
38x3	8.00	34x4½	10.50
40x3	8.50	36x4½	11.50
42x3	9.00	38x4½	12.50
30x3½	7.00	34x5	12.50
32x3½	7.50	36x5	13.50
34x3½	8.50	38x5	14.50
36x3½	9.50	40x5	15.50
38x3½	10.00	36x6	14.00
30x4	8.50	38x6	15.00
32x4	9.00	40x6	16.00
34x4	10.00	42x6	17.00
36x4	11.00	36x7	16.00

For Dual Solid Tires

Size	Per Pr.	Size	Per Pr.
36x3	\$12.50	36x4½	\$16.50
38x3	13.50	38x4½	17.50
34x3½	14.00	40x4½	18.50
36x3½	15.00	34x5	16.00
38x3½	16.00	36x5	17.00
40x3½	17.00	38x5	18.00
34x4	15.00	40x5	19.00
36x4	16.00	42x5	20.00
38x4	17.00	40x6	21.00
40x4	18.00	42x6	22.00
42x4	19.00	40x7	23.00
34x4½	15.50	42x7	24.00

Cross Chains, Made of Special Stock

For Single Solid Tires

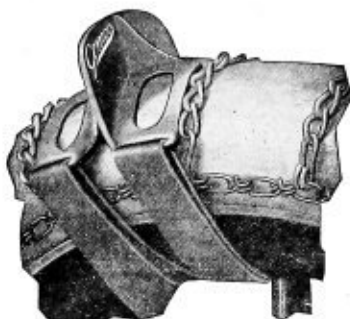
Size	Per 100	Size	Per 100
3-inch	\$9.00	4½-inch	\$21.00
3½-inch	15.00	5-inch	24.00
4-inch	19.00	6-inch	27.00
		7-inch	30.00

For Dual Solid Tires

Size	Per 100	Size	Per 100
3-inch	\$25.00	5-inch	\$35.00
3½-inch	28.00	6-inch	38.00
4-inch	30.00	7-inch	40.00
4½-inch	33.00		

Special Discount Applies to Weed Chains

Emergency Mud Hooks



One on each wheel, we guarantee, will get you out of the mud, sand or snow when everything else fails. They can be put on when the wheel is in deep mud, but chains can not; and they are sure to get you out, while chains will dig deeper. When you are out take them off. The farmer will charge the price of two sets to pull you out of one hole.

For long stretches of mud or deep sand two or three sets can be used to good advantage. Every tourist should carry a set. They are malleable iron; can not break; weight, 5 pounds per set.

No. 1 Emergency Mud Hooks for 3 to 4½ tires,
per pair \$1.25
Per pair..D.P. \$1.76

No. 2 Emergency Mud Hooks for 5 and 6 tires,
per pair 1.25
Per pair..D.P. \$1.76

Quick Repair Link



Open



Closed

Quick Repair Link—Rapid, efficient, durable. Cuts show actual size.

100 in box, price.....\$1.00
Per box...D.P. \$0.88



JACKS

Badger Jacks



No. 1 Badger Jack is recommended for light and medium weight cars. The base is large, standard well ribbed; the steel working parts and steel rack strong and durable. Weight 6½ pounds, height 11 inches, raise 6 inches, capacity 1,500 pounds.

Each\$1.75
Each..D.P. \$2.76
Dozen..D.P. \$30.00

No. 3 Badger Jack is the most powerful and reliable one-ton jack made. No better material or workmanship could be put into any jack. There are no complicated or loose-fitting parts to get out of order. The pawls automatically lock, preventing the rack from dropping with a load and reverse is simple and positive. Weight 9 pounds, height 11 inches, raise 6 inches, capacity one ton.

Each\$2.50
Each..D.P. \$3.88
Dozen..D.P. \$42.22



No. 5 Badger Jack is designed for heavy trucks. The usual Badger construction, drop forge pawls and steel reversing parts. All parts are extra heavy throughout. The bearings are heavy, the leverage great, making the lift easy even when the jack is loaded to its capacity. This jack has an extra large base and 18-inch handle. Weight 14 pounds, height 11½ inches, raise 5½ inches, capacity three tons.

Each\$6.00
Each..D.P. \$8.88
Dozen..D.P. \$97.76

No. 6 Badger Foot Lift Jack is designed to be used on cars with different height front and rear axles, also to meet conditions when touring. Even if a car goes off the road, a jack with only one height is useless; but with adjustable foot lift the foot can be set at any height that the axle may be from the ground. Weight 12 pounds, height 11 inches, raise 6 inches, capacity one ton.

Each\$3.50
Each..D.P. \$4.77
Dozen..D.P. \$51.76



Badger Jacks

No. 7 Badger Foot Lift Jack is constructed exactly like No. 3 Badger except a foot lift and larger base are added. Many cars are now built with different height front and rear axles. This construction saves carrying two jacks in one tool box. Weight 10 pounds, height 11 inches, base 6 inches, capacity one ton.

Each\$3.00
Each..D.P. \$4.44
Dozen..D.P. \$48.00



No. 8 Badger Foot Lift Jack is the same as No. 1 with the foot lift added. Weight 8 pounds, height 11 inches, raise 6 inches, capacity ½-ton.

Each\$2.25
Each..D.P. \$3.32
Dozen..D.P. \$36.00



No. 10 All Steel Badger Jack is a light, strong, compact ratchet jack for cars weighing 2,000 pounds or under. It has no competition for light cars. This jack will easily lift a thousand pounds dead weight, having more lifting capacity for its weight than is found in any other jack. Weight 2¼ pounds, height 11 inches, raise 5 inches, capacity 1,000 pounds.

Each\$1.00
Each..D.P. \$1.10
Dozen..D.P. \$12.00

The No. 15 Victor Jack is solid and substantially made of malleable iron throughout. It has a strong lifting foot cast on the rack and a large base. Parts are carefully machined and assembled. Finish, black japan. The handle stroke is very short with great leverage, making an easy lift. Height 10 inches, raise 6 inches, capacity one ton, weight 5½ pounds.

Each\$1.25
Each..D.P. \$1.76
Dozen..D.P. \$20.00





JACKS

Reliable Jacks



The Reliable Jacks are constructed entirely of malleable iron and steel; are strong, safe, compact and durable. The design is such that the lever does not interfere with the springs, truss-rods or body of the car. It can be operated under any car.

No. 00 Reliable Auto Jack, weight 4½ pounds, capacity 2 tons, adjustment 8½ to 14 inches, each.....\$2.00

Each..D.P. \$2.44
Dozen..D.P. \$23.66

No. 1 Reliable Auto Jack, weight 5 pounds, capacity 2 tons, adjustment 10½ to 18 inches, each..... 2.00

Each..D.P. \$2.44
Dozen..D.P. \$26.66

No. 2 Reliable Auto Jack, weight 8 pounds, capacity 3 tons, adjustment 12 to 20 inches, each..... 2.50

Dozen..D.P. \$33.88

No. 1
Each..D.P. \$3.10

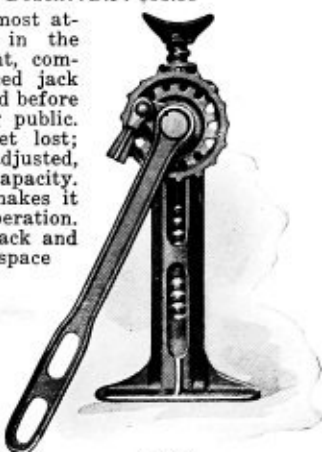
This is one of the most attractive propositions in the way of a light weight, compact, durable low-priced jack that has yet been placed before the automobile buying public. No loose parts to get lost; self-locking, quickly adjusted, with a 1,500-pound capacity. The large side gear makes it very speedy in its operation. It is a very durable jack and takes up very little space in the tool box.

No. 31 Reliable Auto Jack, weight 4½ lbs., capacity 1,500 pounds, adjustment 8 to 12 inches, each..\$1.00

Each..D.P. \$1.44
Dozen..D.P. \$15.54

No. 32 Reliable Auto Jack, weight 5 lbs., capacity 1,500 lbs., adjustment 10 to 16 inches, each...\$1.00

Each..D.P. \$1.44 Dozen..D.P. \$15.54



No. 32

Hartford Red Rack Jack

The Red Rack Jack will lift any car from light roadster to heavy limousine with smoothness and dispatch, and its price is such that it fits the pocket-book of every car owner in the land.

Its Exceptional Convenience

The 26-inch handle enables you to put the Red Rack Jack in place—under the car—ready for action from a starting position. The lifting and lowering movements are regulated by a push rod—right under your hand in the handle. Therefore, you use the Red Rack Jack with the greatest comfort and convenience.

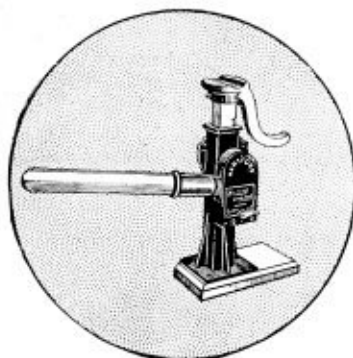
Its Exceptional Strength

The Red Rack Jack is sturdily built. It is strong, with the strength that correct design and good material impart. Therefore, there is no pleasure car too heavy for it. Its metal base is broad and ribbed, to give stability and strength.

Each.....\$2.50
Each..D.P. \$4.44



Hartford Auto Jack



The best Auto Jack, strong, efficient, reliable, easy working.

Here's the jack that actually does what every motorist wants a jack to do—lift the heaviest car in the shortest time with the least effort and the greatest ease.

Regular equipment with Oldsmobile, Autocar, Marmon, Pope-Hartford Six, etc.

Each.....\$6.50
Each..D.P. \$11.54

Reliable Tire Saver

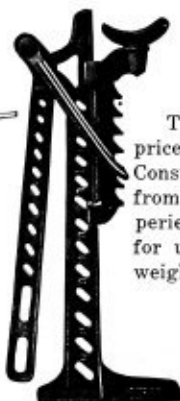
The Reliable Tire Saver and Garage Jack is quickly adjusted to any height of axle or hub without removing bolts or cotters. Has a raise of 2½ inches. It has a swivel top and leather-faced saddle. Is constructed entirely of malleable iron.

No. 52 Reliable Tire Saver Jack, weight per set 40 lbs., capacity 1,800 lbs., adjustment 11½ to 21 inches, per set of four.....\$8.00

Per set of four..D.P. \$10.88



No. 52



The latest and best low-priced tire saver on the market. Constructed on mechanical lines from first-class material by experienced workmen. Designed for use with light and medium weight cars.

No. 53 Reliable Special Tire Saver Jack, weight per set 24 lbs., capacity 1,000 lbs., adjustment 9½ to 17½ inches, per set of four.....\$5.00

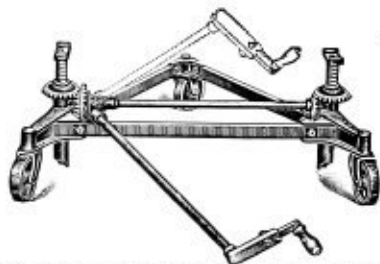
Per set of four..D.P. \$6.88



The GIBSON COMPANY INDIANAPOLIS

JACKS AND AMBULANCES

Weaver Auto Twin-Jack



The Weaver Auto Twin-Jack meets every requirement. As a lifting jack it is preferable to the ordinary type of jack as the 34-inch wheel base offers an absolutely safe and dependable support for dismantled cars. Brakes can be safely and quickly tested with the rear axle supported upon one of these jacks. The long extension handle is also a great convenience.

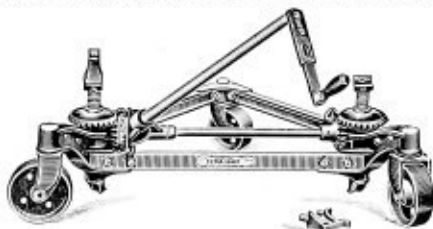
Economizes floor space. Cars can be moved sideways, "cut in" at right angles, or turned completely around within their own length, thus effecting a great saving in floor space in the shop or garage. Also a great convenience in unloading autos from freight cars.

No treacherous ratchets. The screw hoisting principle is a great factor for safety as there are no treacherous ratchets to jar loose or become dislodged and allow the car to fall.

Ball and Roller-Bearing Throughout. The gear nuts which raise the screws each revolve upon ball-bearings. The caster yokes also turn upon ball-bearings and the wheels are equipped with rollers. Lifting leverage 400 to 1; 34-inch wheel base; length of handle 26 inches; 1 1/16-inch screws; diameter of wheels 4 3/4 inches; width of tire 2 inches. Lifting capacity, 4,000 lbs. each. Shipping weight, 50 lbs. each.

Weaver Auto Twin-Jack, each.....\$12.00
Each...D.P. \$20.00
Weaver Auto Twin-Jack, per pair..... 20.00
Per pair...D.P. \$33.32

Weaver Extra Heavy Auto Twin-Jack



Weight, each, 110 pounds. 7-inch Wheels.

Since the regular type of Auto Twin-Jack was put on the market there have been numerous calls for a heavier Auto Twin-Jack for service under light trucks or extremely heavy pleasure cars where the conditions to be contended with are particularly difficult. So the extra heavy Auto Twin-Jack was designed. It is identical with the regular Jack in general principle, but has twice its strength and capacity.

Comparative Dimensions

	Regular Auto Twin-Jack	Extra Heavy Auto Twin-Jack
Weight (each)	50 lbs.	110 lbs.
Lifting capacity	4,000 lbs.	8,000 lbs.
Diameter of wheels	4 3/4 inches	7 inches
Length of handle	26 inches	34 inches
Diameter of screw	1 1/16 inch	1 1/2 inch
Range of lift	9 inches	9 1/2 inches

The caster yokes on the jack are very strongly designed and made of the best cast steel. The large gear nuts which raise the screws each revolve upon twenty 5/16-inch steel balls which operate between two very heavy hard steel thrust bearings. Each wheel yoke revolves upon two sets of steel balls. The 7-inch wheels enable enormous burdens to be transported over comparatively rough floors with almost incredible ease. Large roller bearings in the hubs assist in reducing the resistance to the minimum.

Weaver Auto Twin-Jacks, extra heavy, each.....\$20.00
Each...D.P. \$33.32
Weaver Auto Twin-Jacks, extra heavy, per pair.... 36.00
Per pair...D.P. \$60.00

Weaver Auto Ambulance



For economically transporting disabled automobiles to the repair shop, the Weaver Auto Ambulance is an absolute necessity.

Attaches to Either Axle

One of the greatest advantages of the Weaver Auto Ambulance is that it can be quickly and securely clamped to either the front or rear axle of any car.

Adjustments

The height of the standard may be adjusted as conditions demand and the length of the telescoping tongue may be varied at will from 6 1/2 to 12 feet.

Roller Bearings, Cast Steel Wheels

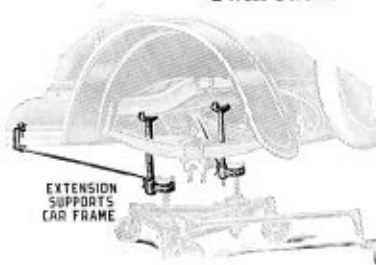
The wheels are of cast steel and designed to withstand the severest service. They have broad roller bearings.

General Construction

The cast steel wheels are 14 inches in diameter with 3-inch tires. Full length steel axle, 1 1/2 inches in diameter. The telescoping tongue is of double strength steel tubing, and adjusts every 6 1/2 feet to 12 feet.

Weaver Auto Ambulance, each.....\$30.00
Each...D.P. \$53.32

Body Extension for Extra Heavy Auto Twin-Jacks



EXTENSION SUPPORTS CAR FRAME

This body extension is designed to attach securely to the raising screws of the Weaver Extra Heavy Auto Twin-Jacks for the purpose of supporting an automobile from the frame

bolsters, instead of from the axle.

Dismantled cars can be easily moved with the body supported in this manner. Either or both axles may be removed and the car rolled to an out-of-the-way place in the shop while the necessary repairs are being made upon the axles. No more cars propped up on boxes obstructing the floor space in front of the work bench.

Full Adjustments—The extensions can be quickly attached and adjusted to fit any width frame from 24 to 36 inches. The height has a convenient pin adjustment with a range of from 18 to 40 inches.

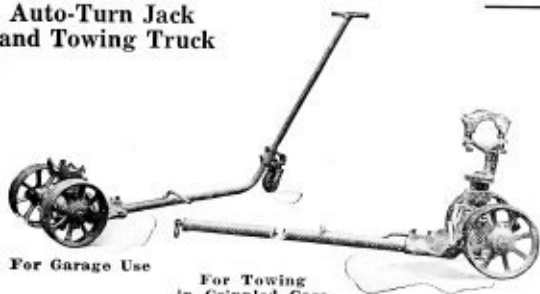
Construction—The clamps are very strongly designed. The inside jaws of the clamps are threaded to fit snugly into the threads of the heavy jack screws so as to prevent slipping. The clamps are securely tightened by heavy nuts. Shipping weight, 22 pounds.

Price, complete, each\$8.00
Each...D.P. \$14.22



JACKS, TOWING TRUCKS AND POLES, VEHICLE CASTERS, ETC.

Auto-Turn Jack and Towing Truck



For Garage Use

 For Towing
in Crippled Cars

The Combination Auto-Turn Jack and Towing Truck may rightly be called the biggest time saver and the most convenient article in the garage. It costs nowhere near as much as a turntable, but will turn cars more quickly and more easily. It is perfectly adapted to moving cars anywhere about the garage, no matter how cramped the space. The heaviest car can be easily and quickly handled by one man. This jack may be converted into a towing truck in three minutes when needed for towing in a disabled car. Adjustable in one motion to any height of axle. Simple, sturdy and strong. Almost impossible to get out of order. All castings made of refined malleable iron and are fully guaranteed.

Each \$35.00
Each... D.P. \$62.22

The danger and inconvenience of towing disabled cars is practically eliminated by the Weaver Towing Pole. The brakes of the towing car are in absolute control of the rear car. No danger of jamming on down grades or on sudden stops in crowded streets. Neither is there danger of a long tow line tripping pedestrians, or being run into by other cars.

Spring Absorbs All Shocks

The heavy coil spring cushions all pulling or ramming shocks so that there is no jerk or jar on either car. The connecting clamps are composed of wide LEATHER PADDED sockets with 30 inch straps of best harness leather with heavy buckle cast into the clamp.



Weaver Towing Pole

This clamping device gives the pole a practically unlimited range of application—either to axle, spring or frame of either car. THE POLE TELESCOPES, and is adjustable from 5 feet 6 inches to 8 feet. It is made of double strength steel tubing. Shipping weight 30 pounds.

Price \$10.00
Each... D.P. \$17.76

Auto Running Gear Aligner

This cut shows method of using Auto Running Gear Aligner in getting forward measurements of front wheel rims

Absolute accuracy attained with Auto Running Gear Aligner



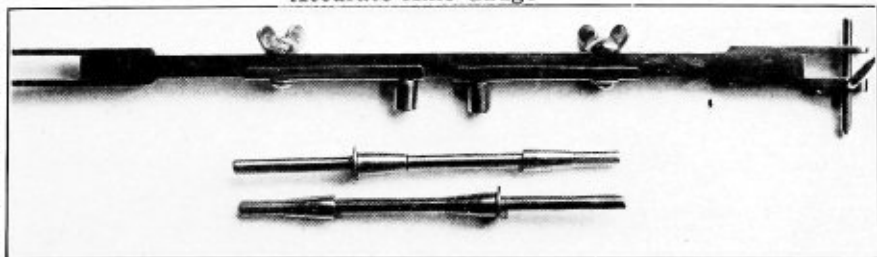
The Auto Running Gear Aligner is a new instrument of precision which tells instantly whether front wheels are in proper alignment and if not how much they are out. It does away with guess work and uncertain methods and supplies absolute accuracy in their place. No car owner would willingly incur heavy tire expense, increase liability to trouble and make steering difficult when he can avoid them all by having his wheels properly aligned. A garage owner or repair man can pick up many a job by having this aligner in his shop. It will be an earner from the start, and will enable one to know that his work is absolutely accurate.

Each \$12.50
Each... D.P. \$17.76

Accurate Axle Gauge

The Accurate Axle Gauge is a simple device that makes easy work of straightening a bent axle. The tool is the invention of a skilled mechanic who in his work found it necessary to invent an appliance that would lessen the labor and shorten the time usually required for a job of this kind. No garage should be without one of these gauges.

Each \$12.50
Each... D.P. \$22.22





VULCAN SPRINGS



We carry in stock Vulcan Springs that fit the following cars:

ABBOTT-DETROIT

Model	Location	Price	Stock No.
30—1910-1911	Front	\$6.50	8000
30—1910-1911	Lower half, rear	7.75	8001
30—1910-1911	Upper quar., rear	4.00	8002
44—1912	Front	7.00	8003
44—1912	Lower half, rear	10.00	8004
44—1912	Upper quar., rear	5.00	8005
34-40—1913	Front	7.25	8006
34-40—1913	Lower half, rear	10.00	8007
34-40—1913	Upper quar., rear	10.00	8008
44-50—1914	Front	8.25	8009
44-50—1914	Lower half, rear	12.00	8010
44-50—1914	Upper quar., rear	6.00	8011

AMERICAN

Scout—1914	Front	\$5.75	3100
Scout—1914	Rear	7.50	3101

BUICK

10-26-27-32-33-34-35-36	Front	\$4.50	1100
10-26-27-32-33-34-35-36	Lower half, rear	4.50	1101
10-26-27-32-33-34-35-36	Upper half, rear	4.50	1102
16-17	Front	6.75	1103
16-17, using Type D only	Rear	16.00	1104
19-21	Front	6.00	1105
19, using Type B only	Lower half, rear	6.75	1106
19, using Type B only	Upper half, rear	7.25	1107
28-29-30-31	Front	6.25	1108
28-30	Lower half, rear	6.75	1109
29-30	Upper quar., rear	3.00	1110
29-31	Lower half, rear	7.00	1111
29-31	Upper quar., rear	3.00	1112
38-39-43	Front	6.75	1113
38	Lower half, rear	8.25	1114
39-43	Lower half, rear	10.00	1115
39-43	Upper quar., rear	5.00	1116
24-25—1913	Front	4.50	1117
24—1913	Lower half, rear	6.75	1118
24—1913	Upper quar., rear	3.00	1119
25—1913	Lower half, rear	6.75	1120
25—1913	Upper quar., rear	3.00	1121
40—1913	Front	6.00	1122
40—1913	Lower half, rear	7.50	1123
40—1913	Upper quar., rear	4.00	1124
B-24-25—1914	Front	5.50	1125
B-24—1914	Lower half, rear	7.00	1126
B-24—1914	Upper quar., rear	3.75	1127
B-24—1914	Lower half, rear	7.50	1128
B-25—1914	Upper quar., rear	4.00	1129
B-25—1914	Front	7.50	1130
B-36-37-38—1914	Lower half, rear	9.00	1131
B-36-38—1914	Upper quar., rear	4.50	1132
B-36-38—1914	Lower half, rear	9.50	1133
B-37—1914	Upper quar., rear	5.00	1134
B-55—1914	Front	8.50	1135
B-55—1914	Lower half, rear	16.00	1136
B-55—1914	Upper quar., rear	7.00	1137
C-24-25—1915	Front	5.50	1138
C-24—1915	Lower half, rear	7.00	1139
C-25—1915	Lower half, rear	8.25	1139
C-25—1915	Upper quar., rear	4.00	1140
C-37—1915	Front	7.50	1130
C-37—1915	Lower half, rear	9.00	1142
C-37—1915	Upper quar., rear	4.75	1144
Four—1500-lb. Truck	Front	6.50	1141
Four—1500-lb. Truck	Rear, complete	16.25	1143
C-55—1915	Front	9.25	1148
D-45 Little Six—1916	Front	7.00	1145
D-45 Little Six—1916	Rear	15.00	1146
D-44—1916	Front	9.00	1150

CADILLAC

30—up to 1911	Front	\$6.75	1200
30—up to 1911	Rear Side	8.00	1201

CADILLAC—Continued

Model	Location	Price	Stock No.
30—up to 1911	Rear Cross	\$8.00	1202
30—1911	Front	8.00	1203
30—1911	Rear Side	10.00	1204
30—1911	Rear Cross	9.00	1205
30—1912	Front	8.00	1206
30—1912	Rear Side	10.00	1207
30—1912	Rear Cross	9.00	1208
1913	Front	8.00	1209
1913	Rear Side	10.00	1210
1913	Rear Cross	9.00	1211
1914	Front	8.00	1212
1914	Rear Side	12.00	1213
1914	Rear Cross	9.00	1214
51—8-cylinder—1915	Front	8.25	1215
51—8-cyl.—7-pass.—1915	Rear Side	14.00	1216
51—8-cyl.—7-pass.—1915	Rear Cross	10.00	1217

(Specify number of leaves wanted on spring.)

CARTERCAR

Model H	Front	\$5.50	1300
Model H	Rear	6.75	1301
Model R	Front	8.00	1302
Model R	Lower half, rear	9.75	1303
Model R	Upper quar., rear	8.50	1304
Model S	Front	7.75	1305
Model S	Lower half, rear	9.50	1306
Model S	Upper quar., rear	8.00	1307
Model L	Front	5.50	1308
Model L	Rear	6.75	1309
Model 7	Front	7.00	1310
Model 7	Lower half, rear	8.50	1311
Model 7	Upper quar., rear	5.50	1312

CHALMERS

Thirty-F—1909	Front	\$6.50	1400
Thirty-F—1909	Lower half, rear	6.50	1401
Thirty-K—1910 M—1911	Front	7.50	1402
Thirty-K—1910 M—1911	Lower half, rear	8.50	1403
Thirty-K—1910 M—1911	Upper quar., rear	5.50	1404
40	Front	8.00	1405
40	Lower half, rear	10.00	1406
E—7-pass., 40 hp., 9 plates	Lower half, rear	16.00	1419
Thirty-Six Model 10—1912	Front	7.50	1402
Thirty-Six Model 10—1912	Lower half, rear	8.50	1407
Thirty-Six Model 10—1912	Upper quar., rear	5.50	1408
17—1913	Front	7.50	1402
17—1913	Lower half, rear	10.00	1409
17—1913	Upper quar., rear	5.50	1404
18—1913—6-cylinder	Front	8.50	1410
18—1913—6-cylinder	Lower half, rear	12.50	1411
18—1913—6-cylinder	Upper quar., rear	6.00	1412
24—1914	Front	8.50	1413
24—1914	Lower half, rear	12.75	1414
24—1914	Upper quar., rear	6.50	1415
26—1915	Front	8.50	1416
26—1915	Lower half, rear	14.00	1417
26—1915	Upper quar., rear	6.50	1418
6-30—1916	Front	10.50	1420
6-30—1916	Lower rear	10.75	1421
6-30—1916	Upper rear	6.50	1418

CHANDLER

Six—1915	Front	\$7.00	3050
Six—1915	Lower half, rear	9.50	3051
Six—1915	Upper quar., rear	4.00	3052

CHEVROLET

H-2 and H-4—1914	Front	\$5.00	1500
H-2—1914	Lower half, rear	6.25	1501

Special Discount Applies to Prices on This Page



VULCAN SPRINGS—Continued

CHEVROLET—Continued

Model	Location	Price	Stock No.
H-2—1914	Upper quar., rear	\$3.25	1502
H-1—1914	Lower half, rear	7.50	1503
H-4—1914	Upper quar., rear	4.00	1504
1915—Little Six	Front	7.25	1505

COLE

30—up to 1913	Front	\$7.00	1450
30—up to 1913	Lower half, rear	8.75	1451
40—up to 1913	Front	7.25	1452
40—up to 1913	Lower half, rear	9.25	1453
40—up to 1913	Upper quar., rear	5.00	1454
6-cyl.—1913	Front	8.00	1455
6-cyl.—1913	Lower half, rear	9.50	1456
4—1914	Front	7.00	1457
4—1914	Lower half, rear	11.25	1458
6—1914	Front	7.50	1459
6—1914	Lower half, rear	13.00	1460
6—1914	Upper quar., rear	8.00	1461

DETROITER

Up to 1915	Front	\$5.00	1600
Up to 1915	Rear Side	5.00	1601
Up to 1915	Rear Cross	5.25	1602

DODGE

1915	Front	\$5.00	1550
1915	Lower half, rear	7.50	1551
1915	Upper quar., rear	5.00	1552
1916	Front	5.00	1553
1916	Lower rear	7.75	1554
1916	Upper rear	3.00	1552

E. M. F.

30—1909-10-11	Front	\$6.00	1700
30—1909-10-11	Lower half, rear	6.00	1701
30—1909-10-11	Upper half, rear	6.50	1702
30—1912	Front	3.50	1703
30—1912	Lower half, rear	6.75	1704
30—1912	Upper half, rear	7.00	1705

EMPIRE

31-40—up to 1915	Front	\$5.00	5050
31-40—up to 1915	Lower, rear	5.00	5051

EVERETT

30—1911	Front	\$6.25	1800
30—1911	Lower half, rear	5.25	1801
30—1911	Upper half, rear	6.25	1802
6-48	Front	7.25	1803
6-48	Lower half, rear	7.25	1804
6-48	Upper half, rear	7.25	1805
36	Front	6.75	1806
36	Lower half, rear	7.50	1807
36	Upper half, rear	7.50	1808

FEDERAL TRUCKS

G. & H.	Front	\$8.75	1850
G. & H.	Rear	17.50	1851

FLANDERS

20—1910-11	Front	\$5.00	1900
20—1910-11	Lower half, rear	5.25	1901
20—1910-11	Upper half, rear	6.00	1902
20—1912	Lower half, rear	6.00	1903
20—1912	Upper half, rear	6.00	1903

FORD

Model	Location	Price	Stock No.
T	Front		2000
T—Standard Trend	Rear	For prices see Ford Section	2001
T—Southern Trend	Rear		2002
N-R-8	Front		2000
N-R-8	Rear		2003

HAYNES

19-20-21	Front	\$7.25	3150
19	Lower half, rear	8.00	3151
21	Upper quar., rear	4.00	3152
21	Lower half, rear	8.50	3153
21	Upper quar., rear	4.25	3154
23	Front	8.00	3155
23	Lower half, rear	12.00	3156
23	Upper quar., rear	6.50	3157

HUDSON

20—1910-11	Front	\$5.00	2100
20—1910-11	Lower half, rear	7.00	2101
20—1910-11	Upper quar., rear	4.00	2102
33—1911	Front	6.00	2103
33—1911	Lower half, rear	10.00	2104
33—1911	Upper quar., rear	4.00	2105
33—1912	Front	7.50	2106
33—1912	Lower half, rear	10.00	2107
33—1912	Upper quar., rear	4.25	2108

(Used on Touring, Roadster, Speedster and Coupe.)

37—1913	Front	7.50	2106
37—1913	Lower half, rear	10.00	2109
37—1913	Upper quar., rear	5.75	2110

(Used on Touring, Torpedo and Coupe.)

54—1913	Front	8.00	2111
54—1913	Lower half, rear 9 leaves	12.50	2112

(Used on Touring Car and Torpedo.)

54—1913	Lower half, rear 11 leaves	15.00	2113
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(Used on Touring Car and Torpedo.)

54—1913	Upper quar., rear 6 leaves	5.00	2114
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(Used on Touring, Torpedo and Commercial Roadster.)

54—1913	Upper quar., rear 8 leaves	8.00	2115
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(Used on Touring Car and Torpedo.)

6-40—1914	Front	8.00	2116
6-40—1914	Lower half, rear	12.50	2117
6-40—1914	Upper quar., rear	4.25	2118
6-54—1914-15	Front	9.00	2119
6-54—1914-15	Lower half, rear	15.00	2120
6-54—1914-15	Upper quar., rear	5.00	2121
6-40—1915	Front	9.00	2122
6-40—1915	Lower half, rear	13.00	2123

(Used on Touring Car.)

6-40—1915	Upper quar., rear	5.00	2124
6-40—1915	Front	9.00	2122

(Used on Roadster and Cabriolet.)

6-40—1915	Lower half, rear	11.00	2125
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(Used on Roadster and Cabriolet.)

6-40—1915	Upper quar., rear	4.25	2126
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(Used on Roadster and Cabriolet.)

6-40—1916	Front	10.00	2127
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HUPMOBILE

20—All Models	Front	\$4.00	2200
20—Roadster, Std. Trd.	Rear	6.00	2201
20—Touring, Std. Trd.	Rear	6.00	2202
20—Roadster, Sou. Trd.	Rear	6.50	2203
20—Touring, Sou. Trd.	Rear	6.50	2204
20	Auxiliary Top Leaf	1.50	2205
32—1912	Front	5.00	2206
32—1913-14	Front	5.00	2207
32—1912-13-14, Std. Trd.	Rear	10.00	2208
32—1912-13-14, Sou. Trd.	Rear	11.50	2209



VULCAN SPRINGS—Continued

HUPMOBILE—Continued

Model	Location	Price	Stock No.
32—All Models	Auxiliary Top Leaf	\$2.00	2210
"K"—1915	Front	6.00	2211
"K"—1915	Rear	10.00	2212
N—7-pass.—1916	Front	7.75	2213
N—7-pass.—1916	Rear	14.25	2214

INTERSTATE

40—1913	Front	\$8.00	2250
40—1913	Lower rear	10.25	2251
40—1913	Upper rear	5.25	2252
45—1914	Front	9.75	2253
45—1914	Lower rear	11.25	2254
45—1914	Upper rear	6.75	2255
T—1915-1916	Front	6.00	2256
T—1915-1916	Lower rear	7.50	2257
T—1915-1916	Upper rear	3.00	2258

KRIT

1914	Front	\$5.00	5000
1914	Lower half, rear	5.25	5001
1914	Upper half, rear	5.50	5002

LITTLE

4—1913	Front	\$3.75	3200
4—1913	Lower half, rear	5.25	3201
4—1913	Upper quar., rear	2.50	3202
6—1913	Front	6.00	3203

MARATHON

L-35—1913	Front	\$7.00	3250
L-35—1913	Lower half, rear	7.00	3251
L-35—1913	Upper half, rear	7.25	3252
N-L-35—1914	Front	5.75	3253
N-L-35—1914	Lower half, rear	6.00	3254
N-L-35—1914	Upper half, rear	6.00	3255
25—Roadster	Front	4.50	3256
25—Roadster	Lower half, rear	5.25	3257
25—Roadster	Upper half, rear	5.25	3258

MARION

10-30-40	Front	\$6.00	4001
10-30-40	Lower half, rear	6.50	4002
10-30-40	Upper half, rear	6.50	4003
37	Front	6.25	4004
37	Lower half, rear	7.50	4005
37-A	Front	6.00	4006
37-A	Lower half, rear	7.50	4007

MAXWELL

L, LA, RL, RS and LC	Front	\$4.50	2300
L, LA, RL, RS and LC	Rear	5.00	2301
LD	Front	5.50	2302
LD	Rear	5.50	2303
A	Front	5.00	2304
A	Rear	6.00	2305
AA, AB and AC	Front	5.75	2306
AA, AB and AC	Rear	6.00	2307
Q and Twenty-two	Front	5.50	2308
Q and Twenty-two	Lower half, rear	5.75	2309
Q and Twenty-two	Upper quar., rear	2.50	2310
I	Front	5.50	2311
I	Lower half, rear	5.25	2312
I	Upper quar., rear	2.50	2313
Mascotte & Thirty (Tou'g)	Front	4.75	2314
Mascotte & Thirty (Tou'g)	Lower half, rear	6.25	2315
Mascotte & Thirty (Tou'g)	Upper quar., rear	3.50	2316
H, HA, HB, HC and HD	Front	5.50	2317
H, HA, HB, HC and HD	Rear	6.00	2318
D, DA, K and KA	Front	5.50	2319
D, DA, K and KA	Rear	6.50	2320
E, EA, G, GA, GAR and Mercury	Front	6.00	2321

MAXWELL—Continued

Model	Location	Price	Stock No.
E, EA, G, GA, GAR and Mercury	Lower half, rear	\$9.00	2322
E, EA, G, GA, GAR and Mercury	Upper quar., rear	3.50	2323
Special and Forty	Front	5.50	2324
Special and Forty	Lower half, rear	10.00	2325
Special and Forty	Upper quar., rear	3.50	2326
25—1914	Front	4.00	2327
25—1914	Rear	5.50	2328
35—1914	Front	6.50	2329
35—1914	Lower half, rear	8.50	2330
35—1914	Upper quar., rear	2.50	2331
50—1914	Front	6.50	2332
50—1914	Lower half, rear	13.25	2333
50—1914	Upper quar., rear	5.25	2334
25-1915-1916	Front	4.00	2335
25-1915-1916	Lower half, rear	6.50	2336
25-1915-1916	Upper quar., rear	3.00	2337
25-1916	Lower rear	5.00	2338

McFARLAND

6—1913	Front	\$8.00	3300
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METZ

1912	Front	\$5.75	3375
1912	Rear	5.75	3376

MICHIGAN

40—1914	Front	\$7.50	3325
40—1914	Lower half, rear	11.00	3326
40—1914	Upper quar., rear	5.00	3327
33—1914	Front	8.50	3328

MONROE

Roadster 16—1915	Front	\$4.00	3353
Roadster 16—1915	Lower half, rear	5.50	3354
Roadster 16—1915	Upper quar., rear	3.00	3355

OAKLAND

30—1910-1911	Front	\$4.50	2400
30—1910-1911	Lower half, rear	5.25	2401
30—1910-1911	Upper half, rear	5.25	2402
40—1910-1911	Front	6.00	2403
40—1910-1911	Rear	18.00	2404
40—1909	Lower half, rear	6.25	2424
30-1912-1913	Front	6.50	2405
35—1913	Front	6.00	2406
35—1913	Lower half, rear	8.50	2407
35—1913	Upper quar., rear	5.50	2408
36—1914	Front	6.00	2409
36—1914	Lower half, rear	8.50	2407
36—1914	Upper quar., rear	5.50	2408
43—1914	Front	9.00	2409
43—1914	Lower half, rear	12.50	2410
43—1914	Upper quar., rear	7.00	2411
48—1914	Front	9.50	2412
48—1914	Lower half, rear	12.50	2413
48—1914	Upper quar., rear	7.00	2414
6-60—1914	Front	10.00	2415
6-60—1914	Lower half, rear	15.00	2416
6-60—1914	Upper quar., rear	10.00	2417
37-1915-38-1916	Front	6.00	2418
37-1915-38-1916	Lower half, rear	9.00	2419
37-1915-38-1916	Upper quar., rear	4.00	2420
49-1915	Front	10.00	2421
49-1915	Lower half, rear	12.50	2422
49-1915	Upper quar., rear	7.50	2423
32-1916	Lower half, rear	6.50	2425
32-1916	Upper quar., rear	3.25	2426
32-1916	Front	5.50	2427

OVERLAND

38-47	Front	\$5.25	2501
38-47	Lower half, rear	5.00	2502



VULCAN SPRINGS—Concluded

OVERLAND—Continued

Model	Location	Price	Stock No.
38-47	Upper half, rear	\$5.00	2503
45-46	Front	4.50	2534
40-41-42-55-56	Front	6.50	2504
40-41-42-55-56	Lower half, rear	8.00	2505
40-41-42-55-56	Upper quar., rear	4.00	2506
51	Front	6.50	2507
51	Lower half, rear	7.25	2508
51	Upper quar., rear	3.75	2509
52-53-54	Front	8.50	2510
52-53-54	Lower half, rear	7.50	2511
59-69	Upper quar., rear	3.75	2512
59-69	Lower half, rear	7.25	2513
59-69	Upper quar., rear	3.75	2515
60	Front	6.25	2516
60	Lower half, rear	7.25	2517
60	Upper quar., rear	3.50	2518
61-71	Front	7.00	2519
61-71	Lower half, rear	8.00	2520
61-71	Upper quar., rear	4.00	2521
79	Front	5.50	2522
79	Lower half, rear	7.50	2523
79	Upper quar., rear	3.75	2524
80-1915	Front	6.00	2525
80-1915	Lower half, rear	8.75	2526
80-1915	Upper quar., rear	5.00	2527
81-1915-83-1916	Front	5.75	2528
81-1915	Lower half, rear	7.00	2529
81-1915-83-1916	Upper quar., rear	3.00	2530
82-1915-86-1916	Front	7.50	2531
82-1915-86-1916	Lower half, rear	12.00	2532
82-1915-86-1916	Upper quar., rear	6.00	2533
83-1916	Lower half, rear	7.50	2535
84 WK 1916	Front	6.25	2537
84 WK 1916	Lower rear	11.50	2538
84 WK 1916	Upper rear	4.75	2539

PACKARD

30-1909	Front	\$7.50	7000
30-1909	Rear	20.00	7001
30-1910	Front	9.00	7002
30-1910-1911	Rear	20.00	7003
30-1911	Front	8.50	7004
30-1912-1913	Front	8.50	7005
30-1912	Rear	20.00	7006
18-1911	Front	7.50	7007
18-1911	Rear	14.00	7008
6-48-1912-1913, right	Front	10.00	7009
6-48-1912-1913, left	Front	8.00	7010
Two-ton Truck	Front	18.00	7011
Two-ton Truck	Rear	30.00	7012
Three-ton Truck	Front	25.00	7013
Three-ton Truck	Rear	40.00	7014

PAIGE-DETROIT

25-1912-1913	Front	\$5.00	6001
25-1912-1913	Rear (using Type D only)	18.00	6002
25-1914	Front	5.00	6003
25-1914	Lower half, rear	6.25	6004
25-1914	Upper half, rear	7.00	6005
36-1912-1913 up to March, 1914	Front—1 1/4-inch width	5.00	6006
36-1912-1913	Lower half, rear	7.25	6007
36-1912-1913	Upper half, rear	7.75	6008
36-1914-1915	Front—2-inch width	5.50	6009
36-1914-1915	Lower half, rear	6.25	6010
36-1914-1915	Upper half, rear	7.00	6011
6-46-1915	Front	6.50	6012

RAMBLER

Cross Country	Front	\$8.25	3350
Cross Country	Lower half, rear	12.50	3351
Cross Country	Upper quar., rear	4.75	3352

R. C. H.

Roadster or Touring	Front	\$4.00	2600
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REGAL

All 1909-10 Models	Front	\$6.50	2700
All 1909-10 Models	Lower half, rear	5.50	2701

REGAL—Continued

Model	Location	Price	Stock No.
30-1910	Upper half, rear	\$5.00	2712
Y-1911	Front	7.25	2702
Y-1911	Lower half, rear	5.50	2703
LF-80-1912	Front	7.25	2704
LF-80-1912	Lower half, rear	5.50	2706
H, Understung—1913	Front	6.50	2707
H, Understung—1913	Rear	8.00	2708
T-N, Understung—1913	Front	6.50	2709
T-N, Understung—1913	Rear	8.00	2710
C-1914	Front	8.00	2711
C-1914	Lower half, rear	10.00	2711

REO

Single Cylinder	Front	\$3.00	2800
Single Cylinder	Rear, complete	6.00	2801
Two-Cylinder	Front	6.00	2802
Two-Cylinder	Rear, complete	10.25	2803
R	Front	6.00	2804
R	Lower half, rear	7.00	2805
R	Upper quar., rear	4.50	2806
Fifth-1912	Front	7.25	2807
Fifth-1913-14	Front	7.25	2808
Fifth-1912-13-14-15	Lower half, rear	8.00	2809
Fifth-1912-13-14-15	Upper quar., rear	5.00	2810
Fifth-1915	Front	7.25	2813
Six-1915	Front	8.50	2814

REO TRUCKS

"J"—2 Tons	Front	\$12.00	2811
"J"—2 Tons	Rear	17.50	2812

SAXON

4-cylinder	Front	\$3.00	6050
4-cylinder	Rear	3.00	6051

REPUBLIC TRUCKS

F—3/4 Ton Inc.—1915	Front	\$8.50	2850
F—3/4 Ton Inc.—1915	Rear	18.00	2851
C & M—1 1/2 Ton Inc.—1915	Front	9.00	2852
C & M—1 1/2 Ton Inc.—1915	Rear	15.75	2853
A—2 Ton Inc.—1916	Front	11.25	2854
A—2 Ton Inc.—1916	Rear	39.50	2855
F—3/4 Ton—1916	Front	6.75	2856
F—3/4 Ton—1916	Rear	19.50	2857

STUDEBAKER

Model	Location	Price	Stock No.	Code
25-1913	Front	\$5.00	2900	Talent
25-1913	Lower half, rear	5.00	2901	Talon
25-1913	Upper half, rear	5.50	2902	Tangle
35-1913	Front	6.00	2903	Tape
35-1913	Lower half, rear	10.00	2904	Tardy
35-1913	Upper quar., rear	5.00	2905	Tackle
4-B-1914	Front	6.00	2906	Tailor
4-B-1914	Lower half, rear	6.50	2907	Tamed
4-B-1914	Upper half, rear	6.50	2908	Tandem
6-B-1914	Front	6.25	2909	Tarnish
6-B-1914	Lower half, rear	10.00	2910	Tarry
6-B-1914	Upper quar., rear	5.00	2911	Tartar
4-1915	Front	6.00	2912	Taste
4-1915	Lower half, rear	6.50	2913	Tavern
4-1915	Upper half, rear	6.50	2914	Teeth
6-1915	Front	6.25	2915	Tenor
6-1915	Lower half, rear	10.00	2916	Theme
6-1915	Upper quar., rear	5.00	2917	Thistle
4-1916	Front	6.25	2918	
4-1916	Lower rear	8.75	2919	
4-1916	Upper rear	3.50	2920	

WHITE

GAB-GAD-GAF-GAG	Front	\$7.50	3000	Wafer
GAB-GAD-GAF-GAG	Lower half, rear	8.50	3001	Waist
GAB-GAD-GAF-GAG	Upper quar., rear	4.25	3002	Walrus
1500-lb. Truck, G.B.E.	Front	8.75	3003	Warrant
1500-lb. Truck, G.B.E.	Rear	17.50	3004	Walk



The GIBSON COMPANY INDIANAPOLIS

SPRING CLIPS, SPRING REPAIRERS, CLIP YOKES AND SPRING LINKS

Heavy Half-Oval Spring Clips



No. 145.

FOR 1 1/2-INCH SPRINGS

Size No.	Flat	Stem	Over All	Per doz.
150A	1	3/8	3	D.P. \$3.25
150C	1	7/16	2 3/4	D.P. \$3.65
150D	1 3/16	7/16	2 5/8	D.P. \$3.70
150E	1 7/16	7/16	3	D.P. \$3.75

FOR 1 3/4-INCH SPRINGS

Size No.	Flat	Stem	Over All	Per doz.
175B	1	7/16	2 3/4	D.P. \$4.00
175C	1 3/16	7/16	3	D.P. \$4.00
175F	1 1/2	7/16	3 1/4	D.P. \$4.00
175P	1 3/4	7/16	3 3/4	D.P. \$4.10
175H	2	7/16	3 1/2	D.P. \$4.10
175J	2 1/2	7/16	4	D.P. \$4.15

FOR 2-INCH SPRINGS

Size No.	Flat	Stem	Over All	Per doz.
200E	1 3/16	7/16	3 3/4	D.P. \$4.15
200E	1 1/2	7/16	3 3/4	D.P. \$4.15
200G	1 3/4	7/16	3 3/4	D.P. \$4.45
200H	1 15/16	7/16	4	D.P. \$4.55
200HH	2 1/4	7/16	4 1/2	D.P. \$4.65
200L	1 1/2	7/16	3 3/4	D.P. \$5.00
200N	1 1/2	7/16	3 3/4	D.P. \$5.00
200P	2 3/8	7/16	4 3/8	D.P. \$5.30
200V	1 1/2	9/16	4	D.P. \$6.66
200KK	2	9/16	4	D.P. \$6.66
200ZZ	2 1/2	9/16	4 1/2	D.P. \$7.20
200AA	2	9/16	4 1/2	D.P. \$8.30

FOR 2 1/4-INCH SPRINGS

Size No.	Flat	Stem	Over All	Per doz.
225C	1 1/2	7/16	4	D.P. \$5.30
225B	2	7/16	4	D.P. \$5.30
225D	1 1/4	9/16	4	D.P. \$6.75
225P	2 3/8	7/16	4 1/2	D.P. \$10.00

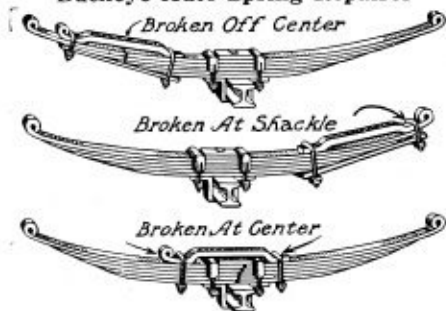
FOR 2 1/2-INCH SPRINGS

Size No.	Flat	Stem	Over All	Per doz.
250D	2	7/16	4 1/2	D.P. \$6.75
250C	2 1/4	7/16	6 1/2	D.P. \$7.20
250M	1 3/4	9/16	4 1/4	D.P. \$7.75
250E	2 3/4	7/16	4 1/2	D.P. \$9.10

SPECIAL

Ford Front	For Model T Ford	D.P. \$8.00
Ford Rear	For Model T Ford	D.P. \$8.00

Buckeye Auto Spring Repairer



The Buckeye Spring Repairer will take care of any size spring broken either at center, off center or at the shackle. The bodies are made of high grade malleable iron, the "U" bolts of wrought iron and the under clips of malleable.

An under wood support is also furnished which prevents slipping when the repairer is used for spring broken off center or at shackle. This outfit comes black enameled and is packed in a strong telescoped box.

Each \$2.50
Each, D.P. \$3.88

Spring Clip Package



No. FU60 Assortment of 60 No. 145 Spring Clips, 14 sizes, put up in a substantial wooden box with hinged cover especially for repair shop.
Per Box.....D.P. \$28.88
Assortment as follows:

Quan.	Size No.	Spring	Flat	Stem	Over all under head
10	Ford Front				
10	Ford Rear				
4	150 D	1 1/2	1 3/8	3/8	2 1/2
4	175 C	1 1/2	1 3/8	3/8	3
4	175 F	1 1/2	1 1/2	3/8	3 1/4
4	175 H	1 1/2	2	3/8	3 1/4
4	200 B	2	1 3/8	3/8	3 1/4
4	200 G	2	1 1/2	3/8	3 1/4
4	200 L	2	1 1/2	3/8	3 1/4
4	200 BB	2	1 1/2	3/8	4 1/4
2	225 B	2 1/2	2	3/8	4
2	225 D	2 1/2	1 5/8	3/8	4
2	250 D	2	2	3/8	4 1/4
2	250 M	2 1/2	1 1/2	3/8	4 1/4

No. 38 Heavy Clip Yokes



Made Cold From Bar Stock

These Yokes are drilled and reamed, making a perfect fit for the bolt.

No.	Distance Between Holes	Sizes of Holes	Per Doz.
38-B	1 1/2 in.	7/16 in.	D.P. \$1.66
38-C	1 1/4 in.	7/16 in.	D.P. 1.76
38-D	2 in.	7/16 in.	D.P. 2.00
38-F	2 in.	1/2 in.	D.P. 2.44
38-G	2 1/4 in.	1/2 in.	D.P. 2.55
38-H	2 1/2 in.	1/2 in.	D.P. 2.66

No. 300 Spring Links



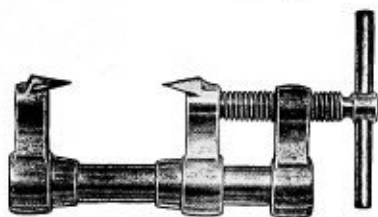
Handy for repairs. Forged from Special Grade O. H. Steel.

No.	Center to Center	Width of Bosses	Thickness of Bosses	Per Doz.
300-A	1 1/2 in.	1 1/2 in.	7/16 in.	D.P. \$1.66
300-C	2 in.	1 1/2 in.	7/16 in.	D.P. 1.66
300-D	2 1/4 in.	1 1/2 in.	7/16 in.	D.P. 1.66
300-E	2 1/2 in.	1 1/2 in.	7/16 in.	D.P. 1.76



SPRING SPREADERS, OILERS AND SHACKLE BOLTS

Knowlson's Spring Leaf Spreader



Made of the highest grade drop forging, nickel plated, polished and well finished; adjustable to any size auto spring; separates the leaves just enough to insert the lubricant; does away

with the jacking up of the car; used as a clamp for broken springs.

Each \$1.50

Each..D.P. \$2.44



Tomahawk Spring Lubricator



Tomahawk Spring Lubricator makes spring lubrication easy. It will increase the comfort of riding and stops the squeak, prevents the leaves from rusting together and breaking. The simplest, quickest and most effective tool on the market for spring lubrication. Made of the finest drop-forged steel, hardened and nickel plated. Graphite grease is fed from container in handle. Any form of grease can be fed. One blow of the hammer, a twist of the wrist and the trick is done.

Each \$1.00

Each..D.P. \$1.66

Cincinnati Spring Spreader



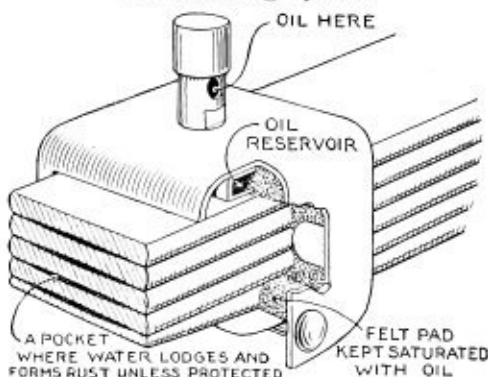
Quickly spreads the leaves of a spring far enough apart to be thoroughly oiled; not necessary to loosen clip or jack up frame.

Eliminates the necessity of taking springs apart for lubrication.

Each, japanned \$0.35

Each..D.P. \$0.44

Brown Oiling System



What the Brown System Is

The system consists of neat little boxes, clamped on the springs, which feed oil from a reservoir through a felt pad into the space between the spring leaves, just as the oil is needed. The boxes are easily and quickly attached to any car or type of spring. Once on the car, the only care required is a little oil in each box occasionally.

Springs Need Oil

No use arguing—springs need oil. If they don't get it, they will rust between the leaves. The rust may cause a spring-break—it surely will cause stiff spring action, which means hard riding. Oil positively prevents squeaks and rust.

The Price

The Brown System is sold at \$1.00 a unit—each oil box being a unit. Two units are required for each half elliptic spring. A car with three-quarter elliptic or platform springs requires ten units; a cantilever job, eight units; a Ford, four units.

Per unit..D.P. \$1.66

Spring Shackle Bolts



Spring Shackle Bolt. This bolt is being made to meet the demand for a low price repair bolt, and used largely in connection with shock absorbers. It is made from open hearth steel, fitted with grease cup and spring, castle nut, cotter pin; case hardened finish. Carried in stock in the following sizes:

$\frac{1}{2}$ x 2 $\frac{3}{4}$ inches	9/16 x 3 $\frac{1}{2}$ inches
$\frac{1}{2}$ x 3 "	9/16 x 3 $\frac{3}{4}$ "
$\frac{1}{2}$ x 3 $\frac{1}{2}$ "	9/16 x 4 "
$\frac{1}{2}$ x 3 $\frac{3}{4}$ "	9/16 x 4 $\frac{1}{4}$ "
$\frac{1}{2}$ x 4 "	$\frac{5}{8}$ x 3 $\frac{1}{4}$ "
$\frac{1}{2}$ x 4 $\frac{1}{4}$ "	$\frac{5}{8}$ x 4 "
7/16 x 3 $\frac{1}{2}$ "	$\frac{5}{8}$ x 4 $\frac{1}{4}$ "
7/16 x 3 $\frac{3}{4}$ "	$\frac{5}{8}$ x 4 $\frac{3}{4}$ "

Shackle Bolts in any of the above sizes, each.....\$0.60

Each...D.P. \$0.55



The GIBSON COMPANY INDIANAPOLIS

HORN AND CUT-OUT VALVES

Husk Valve



These valves are easily and quickly installed, take up but very little space and require absolutely no attention after installation.

- No. 100 Husk Horn Valve, Smooth Bore, 1-in. D.P. \$1.20
- No. 101 Husk Horn Valve, Std. Iron Pipe, thread
1-in. D.P. 1.20
(No. 101 opening measures 1 1/4-in., fits 1-in. iron pipe.)
- No. 102 Husk Horn Valve, Smooth Bore, 1 1/4-in. D.P. 1.20
- No. 103 Husk Horn Valve, Smooth Bore, 1 3/8-in. D.P. 1.20
- No. 104 Husk Horn Valve, Std. Iron Pipe, thread
1 1/4-in. D.P. 1.32
(No. 104 opening measures 1 1/2-in., fits 1 1/4-in. iron pipe.)
- No. 105 Husk Horn Valve, Smooth Bore, 1 1/2-in. D.P. 1.32
- No. 106 Husk Horn Valve, Smooth Bore, 1 5/8-in. D.P. 1.32
- No. 107 Husk Horn Valve, Std. Iron Pipe, thread
1 1/2-in. D.P. 1.55
(No. 107 opening measures 1 3/4-in., fits 1 1/2-in. iron pipe.)
- No. 108 Husk Horn Valve, Smooth Bore, 1 3/4-in. D.P. 1.55
- No. 109 Husk Horn Valve, Smooth Bore, 1 7/8-in. D.P. 1.55
- No. 110 Husk Horn Valve, Smooth Bore, 2-in. D.P. 1.66
- No. 111 Husk Horn Valve, Smooth Bore, 2 1/8-in. D.P. 1.66
- No. 112 Husk Horn Valve, Std. Iron Pipe, thread
2-in. D.P. 1.66
(No. 112 opening measures 2 1/4-in., fits 2-in. iron pipe.)
- No. 113 Husk Horn Valve, Smooth Bore, 2 1/4-in. D.P. 1.66
- No. 114 Husk Horn Valve, Smooth Bore, 2 3/8-in. D.P. 1.77
- No. 115 Husk Horn Valve, Smooth Bore, 2 1/2-in. D.P. 1.77
- No. 116 Husk Horn Valve, Smooth Bore, 2 5/8-in. D.P. 2.10
- No. 117 Husk Horn Valve, Std. Iron Pipe, thread
2 1/2-in. D.P. 2.10
(No. 117 opening measures 2 3/4-in., fits 2 1/2-in. iron pipe.)
- No. 118 Husk Horn Valve, Smooth Bore, 2 3/4-in. D.P. 2.10
- No. 119 Husk Horn Valve, Smooth Bore, 2 7/8-in. D.P. 2.22
- No. 120 Husk Horn Valve, Smooth Bore, 3-in. D.P. 2.22

Bolt-on Horn Valve



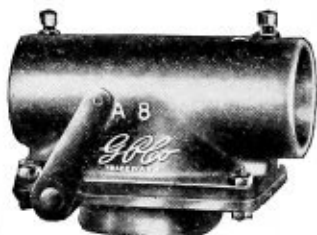
- No. 78 Bolt-on Type Horn Valve,
1-inch D.P. \$1.20
- No. 79 Bolt-on Type Horn Valve,
1 1/4-inch D.P. 1.20
- No. 80 Bolt-on Type Horn Valve,
1 1/2-inch D.P. 1.20
- No. 81 Bolt-on Type Horn Valve,
1 3/4-inch D.P. 1.20
- No. 82 Bolt-on Type Horn Valve,
1 1/2-inch D.P. 1.20
- No. 83 Bolt-on Type Horn Valve, 1 1/8-inch D.P. 1.32
- No. 84 Bolt-on Type Horn Valve, 1 1/4-inch D.P. 1.32
- No. 85 Bolt-on Type Horn Valve, 1 1/2-inch D.P. 1.55
- No. 86 Bolt-on Type Horn Valve, 2-inch D.P. 1.55
- No. 87 Bolt-on Type Horn Valve, 2 1/8-inch D.P. 1.77
- No. 88 Bolt-on Type Horn Valve, 2 1/4-inch D.P. 1.77
- No. 89 Bolt-on Type Horn Valve, 2 3/8-inch D.P. 1.77
- No. 90 Bolt-on Type Horn Valve, 2 1/2-inch D.P. 1.77
- No. 91 Bolt-on Type Horn Valve, 2 1/4-inch D.P. 2.22
- No. 92 Bolt-on Type Horn Valve, 2 1/2-inch D.P. 2.22
- No. 93 Bolt-on Type Horn Valve, 2 1/4-inch D.P. 2.22
- No. 94 Bolt-on Type Horn Valve, 3-inch D.P. 2.22

Rudy Bolt-on Cut-out Valve



- No. 200 Rudy Cut-out Valve,
1-inch, Smooth Bore,
each D.P. \$0.77
- No. 201 Rudy Cut-out Valve,
1 1/4-inch, Smooth Bore,
each D.P. .77
- No. 202 Rudy Cut-out Valve,
1 1/2-inch, Smooth Bore,
each D.P. .77
- No. 203 Rudy Cut-out Valve,
1 3/4-inch, Smooth Bore,
each D.P. .77
- No. 204 Rudy Cut-out Valve, 1 1/4-inch, Smooth Bore,
each D.P. .88
- No. 205 Rudy Cut-out Valve, 1 1/2-inch, Smooth Bore,
each D.P. .88
- No. 206 Rudy Cut-out Valve, 1 1/2-inch, Smooth Bore,
each D.P. .88
- No. 207 Rudy Cut-out Valve, 1 1/2-inch, Smooth Bore,
each D.P. .88
- No. 208 Rudy Cut-out Valve, 2-inch, Smooth Bore,
each D.P. 1.22
- No. 209 Rudy Cut-out Valve, 2 1/4-inch, Smooth Bore,
each D.P. 1.22
- No. 210 Rudy Cut-out Valve, 2 1/4-inch, Smooth Bore,
each D.P. 1.22
- No. 211 Rudy Cut-out Valve, 2 1/4-inch, Smooth Bore,
each D.P. 1.22
- No. 212 Rudy Cut-out Valve, 2 1/2-inch, Smooth Bore,
each D.P. 1.32
- No. 213 Rudy Cut-out Valve, 2 1/2-inch, Smooth Bore,
each D.P. 1.32
- No. 214 Rudy Cut-out Valve, 2 1/2-inch, Smooth Bore,
each D.P. 1.32
- No. 215 Rudy Cut-out Valve, 2 1/2-inch, Smooth Bore,
each D.P. 1.32
- No. 216 Rudy Cut-out Valve, 3-inch, Smooth Bore,
each D.P. 1.32

G-P Muffler Cut-Out



The G-P Muffler Cut-out is designed along practical lines and, while there is no superfluous metal, there is no sacrifice made that might impair its strength. Its simplicity is commendable — the illustrations here-with show both interior and exterior.

The valve-tongue and its seat are so constructed that when the cut-out is open the line to the muffler is completely shut off and the correct angle is obtained for deflecting the exhaust gases freely and without possibility of back pressure.

- G-P Muffler Cut-out for 1 1/4-inch to 1 1/2-inch pipe, inclusive, each \$4.50
Each. . D.P. \$7.50
- G-P Muffler Cut-out for 2-inch to 2 1/4-inch pipe, inclusive, each 5.00
Each. . D.P. \$8.33
- G-P Muffler Cut-out for 2 1/4-inch to 3 1/4-inch pipe, inclusive, each 5.50
Each. . D.P. \$9.10

Above sizes refer to outside diameter of exhaust pipe. In ordering be sure and specify size.



CUT-OUTS, CUT-OUT OUTFITS, PULLEYS, CABLE AND SPRINGS

Gray Muffler Cut-out



In the Gray Muffler Cut-out the outlet is large and turned downward at an angle of 30 degrees which throws the exhaust backward and downward, preventing it raising the dust. It is attached by cutting a notch in the pipe and clamping the cut-out over the opening. The valve is held against its seat by a strong spring. The lever is adjustable and may be placed on either side. The cut-out is made of malleable iron throughout and is furnished to fit all sizes of exhaust pipes.

- No. 4-C For pipe 1½-in. outside diameter, each... \$1.50
Each... D.P. \$2.48
- No. 5-A For pipe 1½-in. outside diameter, each... 1.50
Each... D.P. \$2.48
- No. 5-B For pipe 1½-in. outside diameter, each... 1.50
Each... D.P. \$2.48
- No. 6-A For pipe 1½-in. outside diameter, each... 1.65
Each... D.P. \$2.74
- No. 6-B For pipe 1½-in. outside diameter, each... 1.65
Each... D.P. \$2.74
- No. 7-A For pipe 1½-in. outside diameter, each... 1.75
Each... D.P. \$2.90
- No. 7-B For pipe 2-in. outside diameter, each... 1.75
Each... D.P. \$2.90
- No. 7-C For pipe 2½-in. outside diameter, each... 1.75
Each... D.P. \$2.90
- No. 7-D For pipe 2½-in. outside diameter, each... 1.75
Each... D.P. \$2.90
- No. 8-A For pipe 2½-in. outside diameter, each... 2.00
Each... D.P. \$3.32
- No. 8-B For pipe 2½-in. outside diameter, each... 2.00
Each... D.P. \$3.32
- No. 8-C For pipe 2½-in. outside diameter, each... 2.25
Each... D.P. \$3.76
- No. 8-D For pipe 2½-in. outside diameter, each... 2.25
Each... D.P. \$3.76
- No. 8-E For pipe 2½-in. outside diameter, each... 2.50
Each... D.P. \$4.18
- No. 8-F For pipe 3-in. outside diameter, each... 2.50
Each... D.P. \$4.18

Cut-Out Outfits

For the Dodge, Maxwell and Studebaker Cars



- No. 10 Cut-out Outfit, Dodge, 2-inch bore, complete, packed in carton, each... \$1.10
Each... D.P. \$1.54
- No. 11 Cut-out Outfit, Maxwell, 1½-inch bore, complete, packed in carton, each... 1.10
Each... D.P. \$1.54
- No. 12 Cut-out Outfit, Studebaker, 2-inch bore, complete, packed in carton, each... 1.10
Each... D.P. \$1.54

Pulleys



- ¼-in. Galvanized Swivel Pulleys, each... \$0.10
Dozen... D.P. \$1.54
- 1-in. Galvanized Swivel Pulleys, each... .15
Dozen... D.P. \$1.76

Chain Cable



Chain Cable for Pedal Connection to horns or cut-out valve. Heavily coppered to prevent rust and will not rust or stretch. Will last three times as long as wire cable and will run through an ordinary pulley more easily.

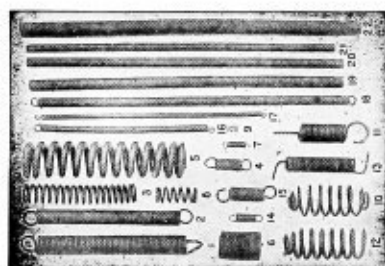
- No. 8 Coppered Chain Cable, per ft... \$0.10
Per foot... D.P. \$0.08

Wire Cable



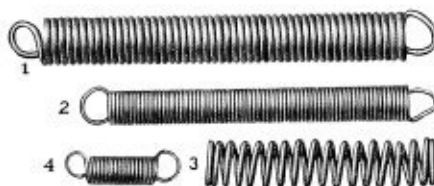
- ¼-in. Wire Cable for pedal connections to horn and cut-out valves, per ft... \$0.06
Per foot... D.P. \$0.06

Springs Oil Tempered



- Box of 25 Assorted Oil Tempered Springs, per box... D.P. \$0.88

Cut-Out and Pedal Springs



- No. 1 Oil Tempered Springs, length 5½ inches, diameter ½ inch, gauge 11, per dozen... \$0.77
Per Dozen... D.P. \$0.80
- No. 2 Oil Tempered Springs, length 5 inches, diameter ½ inch, gauge 17, per dozen... .62
Per Dozen... D.P. \$0.66
- No. 3 Oil Tempered Springs, length 3½ inches, diameter ½ inch, gauge 11, per dozen... .44
Per Dozen... D.P. \$0.40
- No. 4 Oil Tempered Springs, length 1½ inches, diameter ½ inch, gauge 16, per dozen... .22
Per Dozen... D.P. \$0.26



The GIBSON COMPANY INDIANAPOLIS

PEDALS

Horn and Cut-out Pedals



This Pedal is in the nature of a heel button. It is very practical and neat. Intended for operating muffler cut-out. Finish: All black except heel button, which is nickel, brass or black, as ordered.

Style M

- No. 1 Pedal Style M, black, each\$0.25
Each...D.P. \$0.33 Dozen...D.P. \$3.32
- No. 2 Pedal Style M, brass, each35
Each...D.P. \$0.44 Dozen...D.P. \$4.77
- No. 3 Pedal Style M, nickel, each40
Each...D.P. \$0.44 Dozen...D.P. \$4.77

This Pedal is similar to the "M" in construction and also used for the same purposes. It is equipped with a tension spring.



Style Y

- No. 4 Pedal Style Y, black, each\$0.30
Each...D.P. \$0.33 Dozen...D.P. \$3.32
- No. 5 Pedal Style Y, brass, each50
Each...D.P. \$0.44 Dozen...D.P. \$4.77
- No. 6 Pedal Style Y, nickel, each60
Each...D.P. \$0.44 Dozen...D.P. \$4.77



Style G

This pedal is intended for operating horns, etc. It is a very neat and well designed pedal.

- No. 7 Pedal Style G, black, each\$0.25
Each...D.P. \$0.26 Dozen...D.P. \$2.77
- No. 8 Pedal Style G, brass, each40
Each...D.P. \$0.33 Dozen...D.P. \$3.32
- No. 9 Pedal Style G, nickel, each50
Each...D.P. \$0.33 Dozen...D.P. \$3.32

This is a substantial locking Pedal for cut-out and similar purposes. Locked and released by a tap of the foot.



Style L

- No. 10 Pedal Style L, black, each\$0.60
Each...D.P. \$0.66 Dozen...D.P. \$7.24
- No. 11 Pedal Style L, brass, each90
Each...D.P. \$1.22 Dozen...D.P. \$13.32
- No. 12 Pedal Style L, nickel, each 1.00
Each...D.P. \$1.32 Dozen...D.P. \$14.66

Horn and Cut-out Pedals



Style R

Style "R" is a very practical pedal for all purposes. The lower lever is operated by the pressure of the foot on the upper lever. By sliding the foot forward the travel of the lower lever increases, thereby opening the throttle, the foot resting in a comfortable position without strain. The floor plate is finished in black; the toe clip in either nickel, brass or black, as specified.

- No. 13 Pedal Style R, black, each\$0.50
Each...D.P. \$0.55 Dozen...D.P. \$6.10
- No. 14 Pedal Style R, brass, each80
Each...D.P. \$0.88 Dozen...D.P. \$9.44
- No. 15 Pedal Style R, nickel, each80
Each...D.P. \$0.88 Dozen...D.P. \$9.44

This rolling Pedal is operated by a sliding motion of the foot forward or backward to open or close the throttle. There is a friction fulcrum which holds the pedal in a firm position after removing the foot and the position will not be changed until it is again moved by the foot. Finished in either nickel, brass or all black.



Style C

- No. 16 Pedal Style C, black, each\$0.66
Each...D.P. \$0.66 Dozen...D.P. \$7.22
- No. 17 Pedal Style C, brass, each80
Each...D.P. \$0.88 Dozen...D.P. \$9.44
- No. 18 Pedal Style C, nickel, each85
Each...D.P. \$0.88 Dozen...D.P. \$9.44

Gray Lock Pedals

The most simple and durable Lock Pedal made. It is small, attractive and easy to operate. Push the button down and it locks—touch the catch and it releases.



To attach, simply bore a 5-in. hole in foot board—remove push rod and upper nut—slip the threaded part of Pedal through hole—screw the nut on top until catch is in desired position and the top of nut is flush with top of Pedal, then secure by tightening lower nut.

- No. 19 Gray Lock Pedal, black, each\$1.00
Each...D.P. \$1.00 Dozen...D.P. \$10.66
- No. 20 Gray Lock Pedal, brass, each 1.10
Each...D.P. \$1.22 Dozen...D.P. \$13.32
- No. 21 Gray Lock Pedal, nickel, each 1.20
Each...D.P. \$1.33 Dozen...D.P. \$14.44
- No. 22 Gray Pedal without Lock, black, each75
Each...D.P. \$0.77 Dozen...D.P. \$8.33
- No. 23 Gray Pedal without Lock, brass, each85
Each...D.P. \$0.88 Dozen...D.P. \$9.44
- No. 24 Gray Pedal without Lock, nickel, each90
Each...D.P. \$1.00 Dozen...D.P. \$10.00



PEDAL PADS, MATTING AND HEEL PLATES

"Perfection" Pedal Pads



"Perfection" Pedal Pads are mounted from high grade solid pliable rubber. The upper surface, with deep corrugated ribs, insures a firm suction grip for the foot.



The pad is firmly secured in a cold rolled steel frame, which is attached to the pedal by metal prongs. The frame is handsomely nicked and adds greatly to the looks of the car. An inexperienced person can easily clamp pad on pedal in less than one minute.

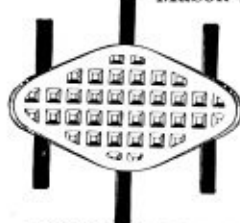
Pierce-Arrow, Ford, Cadillac

No drilling of holes in pedal or bolts necessary.

Style "A"—Briscoe 1915-16, Car-Nation, Grant, Hollier 1916, McFarlan 1914, Oakland 1912-13, Packard 1910-13, Paige-Detroit 46, Stevens-Duryea, 12x32, per set.....	\$1.00
Per Set...D.P.	\$1.66
Style "B"—De Dion Bouton, Ranier, Renault, 22x32, Convex, per set.....	1.50
Per Set...D.P.	\$2.48
Style "C"—Correja, Jeffrey 1915-16, Lancia 1915-16, Lexington, Metroyol, Owen-Magnetic, Pierce-Arrow, 22x43, per set.....	1.75
Per Set...D.P.	\$2.90
Style "D"—Ford (Three Pads), per set.....	1.00
Per Set...D.P.	\$1.66
Style "E"—Peerless 1912-13, 3x3, half round, per set....	1.50
Per Set...D.P.	\$2.48
Style "E-X"—Peerless 1914-15-16, 31x31, half round, per set	1.50
Per Set...D.P.	\$2.48
Style "F"—Cadillac 1912, Haynes 1914, Herff-Brooks 1914-15, Overland, Pilot, Willys-Knight 1916, 22x4, oval, per set.....	1.25
Per Set...D.P.	\$2.08
Style "G"—Hudson 8-J-R, Singer 1915, Studebaker 1915-16, 22x32, per set.....	1.25
Per Set...D.P.	\$2.08
Style "H"—Locomobile 1912, 22x32, per set.....	1.25
Per Set...D.P.	\$2.08
Style "H-X"—Chevrolet 490, Locomobile 1913-14-15-16, 3" round, per set.....	1.25
Per Set...D.P.	\$2.08
Style "I"—Abbott-Detroit, Case 1914, Croxton, E-M-F, Fischer-Magic, Garford, King 1914, Paige-Detroit 36, Paige-Detroit 1916, Palmer..... Studebaker 1914, Willys-Knight, 22x32, per set.....	\$1.25
Per Set...D.P.	\$2.08
Style "J"—Auburn 1912-13, Buick 1914, 24, 25, 30, 31, 36, Buick 1915, C, 24, 25, Detroitter 1915, 11x4, per set....	1.25
Per Set...D.P.	\$2.08
Style "J-X"—Allen, Austin 1916, Model 46, Cadillac 1914-15-16, Chalmers 1916 (6-40), Crawford 1915, Imperial, Marion 1916, Maxwell 1914, Model 25, Stutz, 2x32, oval, per set.....	1.25
Per Set...D.P.	\$2.08
Style "K"—Amplex, Cadillac 1913, Cameron, Empire 1915, Great Western, Herreshoff, Jackson 1915-16, Lyons-Knight 1914-16, Oakland 1914-16, Packard 1914-16, Pope-Hartford, Speedwell 1914, Waverly 1916, 22x32, oval, per set.....	1.25
Per Set...D.P.	\$2.08
Style "L"—Auburn 1916, Simplex, Sun 1916, 3x32, per set	1.75
Per Set...D.P.	\$2.90
Style "L-X"—Auburn 1915, Benham, Chalmers 1914, Cole 1914, Havers, Kissel-Kar, 3x32, per set.....	1.75
Per Set...D.P.	\$2.90
Style "M"—Fiat 1913-14, Knox, Lozier 4 Cylinder, Lozier 1916, Maxwell 1914, Mercedes, Metz 1914, Regal 1914, 22x32, per set.....	1.25
Per Set...D.P.	\$2.08
Style "M-X"—Chalmers 1915, Chalmers 1916, Cole 1915-16, H. A. L. 1916, Moon 1914-15-16, Pullman 1916, White 1915, 22x32, per set.....	1.50
Per Set...D.P.	\$2.48
Style "N"—Hupmobile 1914, McIntyre, 22x32, per set.....	1.25
Per Set...D.P.	\$2.08
Style "N-X"—Marion 1914, 22x32, per set.....	1.25
Per Set...D.P.	\$2.08
Style "O"—Buick 1914, 36B, 37, 38, 40, 43, 55-6, Buick 1915, all other cars, Buick 1916, Cartiercar, Crow, Eikhart 1916, Keeton, Metallurgique, Oldsmobile, Pullman 1915, Scripps-Booth Velie 1915, Model 15, 22x4, per set....	1.75
Per Set...D.P.	\$2.90
Style "O-X"—National 1915-16, Winton 1914, 22x4, per set	1.75
Per Set...D.P.	\$2.90
Style "P"—Fiat 1915-14, Mitchell 1914-15, 22x32, per set	1.25
Per Set...D.P.	\$2.08
Style "Q"—Mercury 1915-16, Minerva, Reo, 22x31, oval and convex, per set.....	1.75
Per Set...D.P.	\$2.90
Style "R"—Marmon 1914, Winton 1913, 22x4, per set....	1.75
Per Set...D.P.	\$2.90

Style "S"—Kline-Car, S-G-V, 22x4, concave, per set.....	1.75
Per Set...D.P.	\$2.90
Style "T"—Davis 1915-16, Franklin 1914-15-16, Interstate, McFarlan 1915-16, 22x32, per set.....	1.50
Per Set...D.P.	\$2.48
Style "T-X"—King 1915 (Model D-1916), Regal 1915, Remington 1915, Westcott, 22x4, per set.....	1.75
Per Set...D.P.	\$2.90

Mason-Allan Cushion Pedal Pads



QUICKLY ATTACHED



PERMANENTLY SECURED

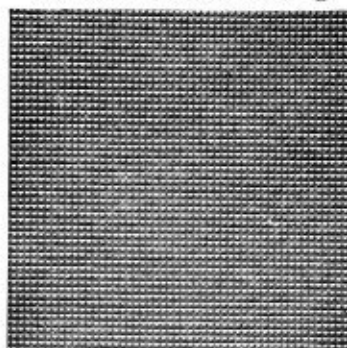
Positively prevents feet from slipping off pedals. Scientifically designed for your comfort and safety. When moderate pressure is applied on pedal by sole of

shoe, air is compressed in cells forming an air cushion which effectively absorbs all vibration and jar. Instantly attached. In moments of emergency, when strong pressure is exerted on pedal, the air is pressed out of cells and the resulting vacuum absolutely prevents the feet from slipping. Mason-Allan Cushion Pedal Pads for any car, per set.... \$1.00

Per set...D.P. \$1.66

NOTE—When ordering give year and make of car.

Pyramid Rubber Matting



Price per square yard..... \$3.00
Per square yard...D.P. \$4.44

Aluminum Matting

Aluminum Matting does not rust, tarnish, nor stain from the effects of oil, grease or gasoline, as does rubber matting, and can always be restored to its original brightness when washing the car.

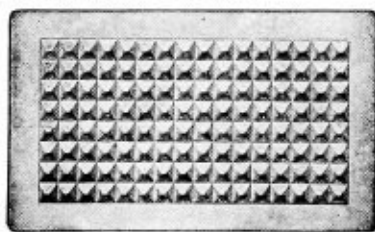
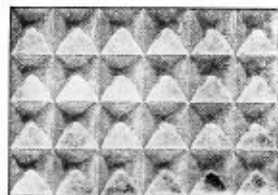
The Matting costs less than good rubber and lasts longer, and is very durable.

Aluminum Matting, 12 inches wide, per square foot.... \$0.60

Per square foot...D.P. \$0.88

Aluminum Matting, 24 inches wide, per square foot..... .60

Per square foot...D.P. \$0.88



Heel Plate

Aluminum Heel Plates 6x10 1/2 in. Made of heavy aluminum having 3/4-inch pyramid with 3/4-inch plain borders. Prevent wearing holes in floor covering.

Each..... 25

Each...D.P. \$0.35



BALL BEARINGS

Fafnir Ball Bearings

Fafnir Ball Bearings, of which we carry a complete line, are the highest development in equipment of this class.

The balls and races are made from the highest grade steel, heat treated over a special process. The balls are held in specially designed races. All material and parts are selected and tested. Any showing the least defect is rejected, thus insuring bearings that will give great durability.



Wide Type, Light (200) Series

No.	Bore Inches	Diameter Inches	Width Inches	Price Each
200-A	0.3937	1.1811	0.3543	\$3.00
201-A	0.4724	1.2598	0.3937	3.29
202-A	0.5906	1.3780	0.4331	3.59
203-A	0.6693	1.5748	0.4724	4.00
204-A	0.7874	1.8594	0.5512	4.75
205-A	0.9843	2.0472	0.5906	5.25
206-A	1.1811	2.4410	0.6299	6.25
207-A	1.3780	2.8347	0.6693	6.85
208-A	1.5748	3.1496	0.7087	7.50
209-A	1.7717	3.3465	0.7480	9.00
210-A	1.9685	3.5433	0.7874	10.00
211-A	2.1654	3.9370	0.8268	12.50

Wide Type, Medium (300) Series

No.	Bore Inches	Diameter Inches	Width Inches	Price Each
300-A	0.3937	1.3780	0.4331	\$3.75
301-A	0.4724	1.4567	0.4724	4.00
302-A	0.5906	1.6536	0.5118	4.25
303-A	0.6693	1.8504	0.5512	5.00
304-A	0.7874	2.0472	0.5906	5.90
305-A	0.9843	2.4410	0.6299	6.90
306-A	1.1811	2.8347	0.7840	8.10
307-A	1.3780	3.1496	0.8268	9.50
308-A	1.5748	3.5433	0.9055	11.90
309-A	1.7717	3.9370	0.9843	14.50
310-A	1.9685	4.3307	1.0630	16.00
311-A	2.1654	4.7244	1.1417	18.00

Wide Type, Heavy (400) Series

No.	Bore Inches	Diameter Inches	Width Inches	Price Each
403-A	0.6693	2.4410	0.6693	\$7.50
404-A	0.7874	2.8347	0.7480	8.75
405-A	0.9843	3.1496	0.8268	10.50
406-A	1.1811	3.5433	0.9055	11.90
407-A	1.3780	3.9370	0.9843	13.75
408-A	1.5748	4.3307	1.0630	16.50
409-A	1.7717	4.7244	1.1417	19.50
410-A	1.9685	5.1181	1.2205	22.50
411-A	2.1654	5.5118	1.2992	26.50

Narrow Type, Light Series

No.	Bore Inches	Diameter Inches	Width Inches	Price Each
102-A	0.3937	1.2598	0.3543	\$3.75
103-A	0.5906	1.4567	0.3937	4.25
104-A	0.7874	1.6536	0.3937	4.75
105-A	0.9843	2.0472	0.3937	5.25
106-A	1.1811	2.4410	0.3937	6.25
107-A	1.3780	2.7559	0.3937	6.85
108-A	1.5748	3.1496	0.4831	7.50

Fafnir Ball Bearings

INSTRUCTIONS FOR ORDERING

When ordering be sure to give the bore diameter, outside diameter and width. Also give us the number and name of the old bearing that is to be replaced.

The Society of Automobile Engineers has standardized the ball bearing on all cars. We can therefore supply you with bearings for any make of car. Simply give us the name and location of the bearing.



Narrow Type, Medium Series

No.	Bore Inches	Diameter Inches	Width Inches	Price Each
1-A	0.4724	1.4567	0.3543	\$4.75
2-A	0.5906	1.5748	0.3543	5.00
3-A	0.7874	2.0472	0.3937	5.90
4-A	0.9843	2.4410	0.4724	6.90
5-A	1.1811	2.8347	0.5118	8.10
6-A	1.3780	3.1496	0.5512	9.50
7-A	1.5748	3.5433	0.6299	11.90
8-A	1.7717	3.9370	0.6693	15.40
9-A	1.9685	4.3307	0.7480	16.90
10-A	2.1654	4.6662	0.7480	18.25
11-A	2.3622	5.0000	0.7874	20.90

Narrow Type, Heavy Series

No.	Bore Inches	Diameter Inches	Width Inches	Price Each
52-A	0.7874	2.5591	0.5512	\$7.50
53-A	0.8661	2.8347	0.6299	8.75
54-A	0.9843	3.1496	0.6693	10.60
55-A	1.0630	3.4646	0.7480	11.90
56-A	1.1811	3.7492	0.7874	13.75
57-A	1.3780	4.0551	0.8661	17.50

Two Row Radial Bearings, Light Series

No.	Bore Inches	Diameter Inches	Width Inches	Price Each
6200	0.3937	1.1811	.5512	\$6.20
6201	.4724	1.2599	.5512	6.50
6202	.5906	1.3780	.5512	6.70
6203	.6693	1.5748	.6299	7.60
6204	.7874	1.8504	.7087	8.90
6205	.9843	2.0472	.7874	10.30
6206	1.1811	2.4409	.9055	11.50
6207	1.3780	2.8346	.9055	12.40
6208	1.5748	3.1496	.9055	15.00
6209	1.7717	3.3465	.9055	16.00
6210	1.9685	3.5433	.9843	20.50
6211	2.1654	3.9370	.9843	

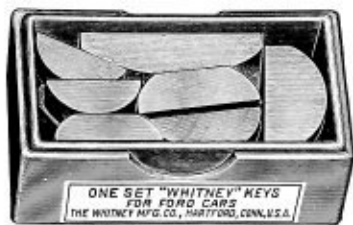
Two Row Radial Bearings, Medium Series

No.	Bore Inches	Diameter Inches	Width Inches	Price Each
6300	.3937	1.3780	.6693	\$6.70
6301	.4724	1.4567	.6693	7.10
6302	.5906	1.6536	.6693	7.50
6303	.6693	1.8504	.7480	8.50
6304	.7874	2.0472	.8268	10.00
6305	.9843	2.4409	.9449	11.60
6306	1.1811	2.8346	1.0630	13.70
6307	1.3780	3.1496	1.2205	16.00



KEYS, BALLS AND BALL JOINTS

Whitney Keys



Ford Assortment Whitney Keys. Box contains 12 keys, being one complete set for a Ford.

Per Box\$0.75
Per Box..D.P. \$0.88



100 Assortment Whitney Keys. Assorted in sizes in general use.

Per box\$3.00
Per Box..D.P. \$3.32

Whitney Keys in Bulk

	Size	Per Doz.	Per 100
No. 1	Whitney Keys, $\frac{1}{2}$ x 1/16..D.P.	\$0.23	D.P. \$0.89
No. 2	Whitney Keys, $\frac{1}{2}$ x 3/32..D.P.	.23	D.P. .89
No. 3	Whitney Keys, $\frac{1}{2}$ x $\frac{1}{8}$.....D.P.	.23	D.P. .95
No. 4	Whitney Keys, $\frac{3}{8}$ x 3/32..D.P.	.23	D.P. .89
No. 5	Whitney Keys, $\frac{3}{8}$ x $\frac{1}{8}$.....D.P.	.25	D.P. 1.00
No. 6	Whitney Keys, $\frac{3}{8}$ x 5/32..D.P.	.29	D.P. 1.16
No. 7	Whitney Keys, $\frac{3}{8}$ x $\frac{1}{4}$.....D.P.	.28	D.P. 1.10
No. 8	Whitney Keys, $\frac{3}{8}$ x 5/32..D.P.	.33	D.P. 1.30
No. 9	Whitney Keys, $\frac{3}{8}$ x 3/16..D.P.	.40	D.P. 1.56
No. 10	Whitney Keys, $\frac{3}{8}$ x 5/32..D.P.	.47	D.P. 1.68
No. 11	Whitney Keys, $\frac{3}{8}$ x 3/16..D.P.	.50	D.P. 2.00
No. 12	Whitney Keys, $\frac{3}{8}$ x 7/32..D.P.	.55	D.P. 2.20
No. A	Whitney Keys, $\frac{3}{8}$ x $\frac{1}{2}$.....D.P.	.60	D.P. 2.40
No. 13	Whitney Keys, 1 x 3/16..D.P.	.63	D.P. 2.52
No. 14	Whitney Keys, 1 x 7/32..D.P.	.70	D.P. 2.76
No. 15	Whitney Keys, 1 x $\frac{1}{2}$.....D.P.	.75	D.P. 3.00
No. B	Whitney Keys, 1 x 5/16..D.P.	.88	D.P. 3.52
No. 16	Whitney Keys, 1 x 3/16..D.P.	.78	D.P. 3.12
No. 17	Whitney Keys, 1 x 7/32..D.P.	.85	D.P. 3.40
No. 18	Whitney Keys, 1 x $\frac{1}{2}$.....D.P.	.94	D.P. 3.72
No. C	Whitney Keys, 1 x 5/16..D.P.	1.08	D.P. 4.28

Tool Steel Balls



	Per 100
Steel Balls, 1/8 inch	\$0.35
Per 100..D.P.	\$0.26
Steel Balls, 5/32 inch	.35
Per 100..D.P.	\$0.36
Steel Balls, 3/16 inch	.40
Per 100..D.P.	\$0.44
Steel Balls, 7/32 inch	.50
Per 100..D.P.	\$0.54
Steel Balls, 1/4 inch	.50
Per 100..D.P.	\$0.60
Steel Balls, 9/32 inch	.70
Per 100..D.P.	\$1.00
Steel Balls, 5/16 inch	.85
Per 100..D.P.	\$1.00
Steel Balls, 11/32 inch	1.00
Per 100..D.P.	\$1.44
Steel Balls, 3/8 inch	1.10
Per 100..D.P.	\$1.54
Steel Balls, 7/16 inch	2.50
Per 100..D.P.	\$3.10
Steel Balls, 1/2 inch	3.00
Per 100..D.P.	\$3.76
Steel Balls, 9/16 inch	3.50
Per 100..D.P.	\$4.44
Steel Balls, 5/8 inch, per 100	4.00
Per 100..D.P.	\$5.32
Steel Balls, 11/16 inch, per 100	5.00
Per 100..D.P.	\$7.76
Steel Balls, 3/4 inch, per 100	7.00
Per 100..D.P.	\$11.55
Steel Balls, 13/16 inch, per 100	10.00
Per 100..D.P.	\$15.54
Steel Balls, 7/8 inch, per 100	13.00
Per 100..D.P.	\$20.00
Steel Balls, 15/16 inch, per 100	15.00
Per 100..D.P.	\$22.22
Steel Balls, 1 inch, per 100	16.00
Per 100..D.P.	\$26.66

The way we pack Steel Balls:

Steel Balls 1/8 to 3/8, in packages of 100.
Steel Balls 7/16 to 1/2, in packages of 250.
Steel Balls 9/16 to 5/8, in packages of 100.
Steel Balls 11/16 to 13/16, in packages of 50.
Steel Balls 7/8 to 15/16 and 1, in packages of 25.

We also supply Steel Balls in Auto Sizes in small boxes as follows:

No. 1 Steel Balls, 3/8, 100 in box, per box	\$1.10
Per Box..D.P.	\$1.54
No. 2 Steel Balls, 7/16, 100 in box, per box	2.50
Per Box..D.P.	\$3.10
No. 3 Steel Balls, 1/2, 50 in box, per box	1.50
Per Box..D.P.	\$1.88
No. 4 Steel Balls, 9/16, 50 in box, per box	1.75
Per Box..D.P.	\$2.22
No. 5 Steel Balls, 5/8, 25 in box, per box	1.00
Per Box..D.P.	\$1.32
No. 6 Steel Balls, 11/16, 25 in box, per box	1.25
Per Box..D.P.	\$1.98
No. 7 Steel Balls, 3/4, 20 in box, per box	1.40
Per Box..D.P.	\$2.32

Ball Joints



Non-Adjustable Ball Joints. Used extensively for connecting carburetors and timers with levers on steering wheel.

No.	Ball Stem			Screw		Each
	Inside Diam.	Thread	Socket	Outside Diam.	Thread	
1	10	32	9/32	5/16	18	\$0.25
2	$\frac{1}{2}$	20	9/32	5/16	18	.25
3	$\frac{1}{2}$	24	9/32	$\frac{1}{2}$	27	.25
4	$\frac{1}{2}$	27	9/32	$\frac{1}{2}$	27	.25
5	$\frac{1}{2}$	28	9/32	$\frac{1}{2}$	28	.25
6	$\frac{1}{2}$	20	5/16	$\frac{3}{8}$	16	.25
7	$\frac{1}{2}$	20	9/32	$\frac{1}{2}$	20	.25
8	3/16	32	9/32	3/16	32	.25
9	7/32	32	9/32	7/32	32	.25

All sizes—Per Doz.....D.P. \$1.78; Per 100.....D.P. \$15.54

Adjustable Ball Joints, $\frac{1}{2}$ x 28, A. L. A. M., each.....\$0.25

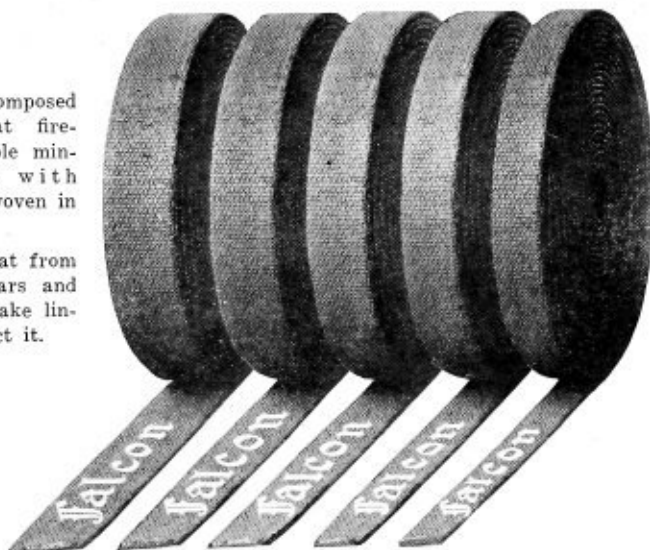
Adjustable Ball Joints, $\frac{1}{2}$ x 20, U. S., each......25
Per Doz.....D.P. \$2.22 Per 100.....D.P. \$16.65



BRAKE BAND LINING

This lining is composed of asbestos—that fire-proof, indestructible mineral—reinforced with brass wires interwoven in each strand.

That is why heat from friction which chars and burns ordinary brake linings will not affect it.



And asbestos to metal—that is why it will lock wheels instantly when emergency demands, yet will stop cars just as slowly as you wish.

Made to fit any brake and any friction or transmission clutch.

Falcon Brake Band Lining

Falcon Brake Band Lining, 1x $\frac{1}{2}$ inches, per foot	.....\$0.32
Per ft., D.P. \$0.27 50-ft. lengths, per ft., D.P. \$0.24	
Falcon Brake Band Lining, 1 $\frac{1}{4}$ x $\frac{1}{2}$ inches, per foot	..... .36
Per ft., D.P. \$0.29 50-ft. lengths, per ft., D.P. \$0.27	
Falcon Brake Band Lining, 1 $\frac{1}{2}$ x $\frac{1}{2}$ inches, per foot	..... .40
Per ft., D.P. \$0.31 50-ft. lengths, per ft., D.P. \$0.29	
Falcon Brake Band Lining, 1 $\frac{3}{4}$ x $\frac{1}{2}$ inches, per foot	..... .46
Per ft., D.P. \$0.33 50-ft. lengths, per ft., D.P. \$0.31	
Falcon Brake Band Lining, 2x $\frac{1}{2}$ inches, per foot	..... .52
Per ft., D.P. \$0.40 50-ft. lengths, per ft., D.P. \$0.36	
Falcon Brake Band Lining, 2 $\frac{1}{4}$ x $\frac{1}{2}$ inches, per foot	..... .58
Per ft., D.P. \$0.44 50-ft. lengths, per ft., D.P. \$0.40	
Falcon Brake Band Lining, 2 $\frac{1}{2}$ x $\frac{1}{2}$ inches, per foot	..... .64
Per ft., D.P. \$0.48 50-ft. lengths, per ft., D.P. \$0.44	
Falcon Brake Band Lining, 3x $\frac{1}{2}$ inches, per foot	..... .74
Per ft., D.P. \$0.52 50-ft. lengths, per ft., D.P. \$0.48	
Falcon Brake Band Lining, 4x $\frac{1}{2}$ inches, per foot	..... .92
Per ft., D.P. \$0.66 50-ft. lengths, per ft., D.P. \$0.60	
Falcon Brake Band Lining, 1x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... .36
Per ft., D.P. \$0.29 50-ft. lengths, per ft., D.P. \$0.27	
Falcon Brake Band Lining, 1 $\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... .42
Per ft., D.P. \$0.33 50-ft. lengths, per ft., D.P. \$0.31	
Falcon Brake Band Lining, 1 $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... .48
Per ft., D.P. \$0.40 50-ft. lengths, per ft., D.P. \$0.36	
Falcon Brake Band Lining, 1 $\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... .56
Per ft., D.P. \$0.44 50-ft. lengths, per ft., D.P. \$0.42	
Falcon Brake Band Lining, 2x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... .64
Per ft., D.P. \$0.52 50-ft. lengths, per ft., D.P. \$0.48	
Falcon Brake Band Lining, 2 $\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... .72
Per ft., D.P. \$0.57 50-ft. lengths, per ft., D.P. \$0.52	
Falcon Brake Band Lining, 2 $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... .80
Per ft., D.P. \$0.66 50-ft. lengths, per ft., D.P. \$0.60	
Falcon Brake Band Lining, 3x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... .94
Per ft., D.P. \$0.76 50-ft. lengths, per ft., D.P. \$0.70	
Falcon Brake Band Lining, 4x $\frac{1}{2}$ x $\frac{3}{32}$ inches, per foot	..... 1.20
Per ft., D.P. \$0.98 50-ft. lengths, per ft., D.P. \$0.88	
Falcon Brake Band Lining, 1x $\frac{1}{2}$ x $\frac{1}{16}$ inches, per foot	..... .42
Per ft., D.P. \$0.33 50-ft. lengths, per ft., D.P. \$0.31	

Falcon Brake Band Lining

Falcon Brake Band Lining, 1 $\frac{1}{4}$ x $\frac{3}{16}$ inches, per foot	.....\$0.50
Per ft., D.P. \$0.42 50-ft. lengths, per ft., D.P. \$0.38	
Falcon Brake Band Lining, 1 $\frac{1}{2}$ x $\frac{3}{16}$ inches, per foot	..... .58
Per ft., D.P. \$0.48 50-ft. lengths, per ft., D.P. \$0.44	
Falcon Brake Band Lining, 1 $\frac{3}{4}$ x $\frac{3}{16}$ inches, per foot	..... .68
Per ft., D.P. \$0.55 50-ft. lengths, per ft., D.P. \$0.50	
Falcon Brake Band Lining, 2x $\frac{3}{16}$ inches, per foot	..... .76
Per ft., D.P. \$0.62 50-ft. lengths, per ft., D.P. \$0.58	
Falcon Brake Band Lining, 2 $\frac{1}{4}$ x $\frac{3}{16}$ inches, per foot	..... .84
Per ft., D.P. \$0.68 50-ft. lengths, per ft., D.P. \$0.64	
Falcon Brake Band Lining, 2 $\frac{1}{2}$ x $\frac{3}{16}$ inches, per foot	..... .94
Per ft., D.P. \$0.77 50-ft. lengths, per ft., D.P. \$0.70	
Falcon Brake Band Lining, 2 $\frac{3}{4}$ x $\frac{3}{16}$ inches, per foot	..... 1.04
Per ft., D.P. \$0.84 50-ft. lengths, per ft., D.P. \$0.77	
Falcon Brake Band Lining, 3x $\frac{3}{16}$ inches, per foot	..... 1.12
Per ft., D.P. \$0.88 50-ft. lengths, per ft., D.P. \$0.82	
Falcon Brake Band Lining, 4x $\frac{3}{16}$ inches, per foot	..... 1.44
Per ft., D.P. \$1.14 50-ft. lengths, per ft., D.P. \$1.06	
Falcon Brake Band Lining, 1x $\frac{1}{2}$ inches, per foot	..... .56
Per ft., D.P. \$0.44 50-ft. lengths, per ft., D.P. \$0.40	
Falcon Brake Band Lining, 1 $\frac{1}{4}$ x $\frac{1}{2}$ inches, per foot	..... .66
Per ft., D.P. \$0.53 50-ft. lengths, per ft., D.P. \$0.48	
Falcon Brake Band Lining, 1 $\frac{1}{2}$ x $\frac{1}{2}$ inches, per foot	..... .76
Per ft., D.P. \$0.62 50-ft. lengths, per ft., D.P. \$0.58	
Falcon Brake Band Lining, 1 $\frac{3}{4}$ x $\frac{1}{2}$ inches, per foot	..... .88
Per ft., D.P. \$0.73 50-ft. lengths, per ft., D.P. \$0.66	
Falcon Brake Band Lining, 2x $\frac{1}{2}$ inches, per foot	..... 1.00
Per ft., D.P. \$0.80 50-ft. lengths, per ft., D.P. \$0.73	
Falcon Brake Band Lining, 2 $\frac{1}{4}$ x $\frac{1}{2}$ inches, per foot	..... 1.12
Per ft., D.P. \$0.88 50-ft. lengths, per ft., D.P. \$0.82	
Falcon Brake Band Lining, 2 $\frac{1}{2}$ x $\frac{1}{2}$ inches, per foot	..... 1.24
Per ft., D.P. \$1.02 50-ft. lengths, per ft., D.P. \$0.93	
Falcon Brake Band Lining, 2 $\frac{3}{4}$ x $\frac{1}{2}$ inches, per foot	..... 1.36
Per ft., D.P. \$1.11 50-ft. lengths, per ft., D.P. \$1.00	
Falcon Brake Band Lining, 3x $\frac{1}{2}$ inches, per foot	..... 1.46
Per ft., D.P. \$1.15 50-ft. lengths, per ft., D.P. \$1.06	
Falcon Brake Band Lining, 4x $\frac{1}{2}$ inches, per foot	..... 1.88
Per ft., D.P. \$1.51 50-ft. lengths, per ft., D.P. \$1.30	



BRAKE BAND LINING—Continued

Thermoid Hydraulic Compressed Brake Band Lining

Thermoid
HYDRAULIC COMPRESSED
Brake Lining - 100%



Brake Lining Must Be Dependable

Is brake lining all the way through—just the same inside as out. Therefore it is dependable as long as any of it remains. That's why it is 100 per cent; why it's the best to buy—the best to sell.

Thermoid is constructed of pure Canadian asbestos, interwoven with solid brass wire.

Under giant heated rolls it is impreg-

nated with a wondrous secret friction compound—forced through every pore.

Then it is compressed and cured at 2,000 pounds pressure for one hour, at intense heat.

	Per ft.
Thermoid Brake Band Lining, 1x $\frac{1}{2}$ in.....	\$0.40
Per ft., D.P. \$0.35 50-ft. lengths, per ft., D.P. \$0.33	
Thermoid Brake Band Lining, 1 $\frac{1}{4}$ x $\frac{1}{2}$ in.....	.50
Per ft., D.P. \$0.44 50-ft. lengths, per ft., D.P. \$0.40	
Thermoid Brake Band Lining, 1 $\frac{1}{2}$ x $\frac{1}{2}$ in.....	.60
Per ft., D.P. \$0.53 50-ft. lengths, per ft., D.P. \$0.48	
Thermoid Brake Band Lining, 1 $\frac{3}{4}$ x $\frac{1}{2}$ in.....	.70
Per ft., D.P. \$0.62 50-ft. lengths, per ft., D.P. \$0.58	
Thermoid Brake Band Lining, 2x $\frac{1}{2}$ in.....	.80
Per ft., D.P. \$0.71 50-ft. lengths, per ft., D.P. \$0.64	
Thermoid Brake Band Lining, 2 $\frac{1}{4}$ x $\frac{1}{2}$ in.....	.90
Per ft., D.P. \$0.80 50-ft. lengths, per ft., D.P. \$0.72	
Thermoid Brake Band Lining, 2 $\frac{1}{2}$ x $\frac{1}{2}$ in.....	1.00
Per ft., D.P. \$0.88 50-ft. lengths, per ft., D.P. \$0.80	
Thermoid Brake Band Lining, 1x5/32 in.....	.45
Per ft., D.P. \$0.40 50-ft. lengths, per ft., D.P. \$0.36	
Thermoid Brake Band Lining, 1 $\frac{1}{4}$ x5/32 in.....	.55
Per ft., D.P. \$0.48 50-ft. lengths, per ft., D.P. \$0.44	
Thermoid Brake Band Lining, 1 $\frac{1}{2}$ x5/32 in.....	.65
Per ft., D.P. \$0.58 50-ft. lengths, per ft., D.P. \$0.52	
Thermoid Brake Band Lining, 1 $\frac{3}{4}$ x5/32 in.....	.75
Per ft., D.P. \$0.66 50-ft. lengths, per ft., D.P. \$0.60	
Thermoid Brake Band Lining, 2x5/32 in.....	.85
Per ft., D.P. \$0.75 50-ft. lengths, per ft., D.P. \$0.68	
Thermoid Brake Band Lining, 2 $\frac{1}{4}$ x5/32 in.....	.95
Per ft., D.P. \$0.84 50-ft. lengths, per ft., D.P. \$0.78	
Thermoid Brake Band Lining, 2 $\frac{1}{2}$ x5/32 in.....	1.05
Per ft., D.P. \$0.88 50-ft. lengths, per ft., D.P. \$0.80	

Thermoid Hydraulic Compressed Brake Band Lining

	Per ft.
Thermoid Brake Band Lining, 2 $\frac{1}{4}$ x5/32 in.....	\$1.15
Per ft., D.P. \$1.02 50-ft. lengths, per ft., D.P. \$0.92	
Thermoid Brake Band Lining, 1x $\frac{3}{8}$ in.....	.50
Per ft., D.P. \$0.44 50-ft. lengths, per ft., D.P. \$0.40	
Thermoid Brake Band Lining, 1 $\frac{1}{4}$ x $\frac{3}{8}$ in.....	.60
Per ft., D.P. \$0.52 50-ft. lengths, per ft., D.P. \$0.48	
Thermoid Brake Band Lining, 1 $\frac{1}{2}$ x $\frac{3}{8}$ in.....	.70
Per ft., D.P. \$0.62 50-ft. lengths, per ft., D.P. \$0.56	
Thermoid Brake Band Lining, 1 $\frac{3}{4}$ x $\frac{3}{8}$ in.....	.80
Per ft., D.P. \$0.70 50-ft. lengths, per ft., D.P. \$0.64	
Thermoid Brake Band Lining, 2x $\frac{3}{8}$ in.....	.90
Per ft., D.P. \$0.80 50-ft. lengths, per ft., D.P. \$0.72	
Thermoid Brake Band Lining, 2 $\frac{1}{4}$ x $\frac{3}{8}$ in.....	1.00
Per ft., D.P. \$0.88 50-ft. lengths, per ft., D.P. \$0.80	
Thermoid Brake Band Lining, 2 $\frac{1}{2}$ x $\frac{3}{8}$ in.....	1.10
Per ft., D.P. \$0.98 50-ft. lengths, per ft., D.P. \$0.90	
Thermoid Brake Band Lining, 2 $\frac{3}{4}$ x $\frac{3}{8}$ in.....	1.20
Per ft., D.P. \$1.06 50-ft. lengths, per ft., D.P. \$0.96	
Thermoid Brake Band Lining, 3x $\frac{3}{8}$ in.....	1.30
Per ft., D.P. \$1.14 50-ft. lengths, per ft., D.P. \$1.04	
Thermoid Brake Band Lining, 4x $\frac{3}{8}$ in.....	1.70
Per ft., D.P. \$1.52 50-ft. lengths, per ft., D.P. \$1.37	
Thermoid Brake Band Lining, 1 $\frac{1}{4}$ x $\frac{1}{2}$ in.....	.80
Per ft., D.P. \$0.70 50-ft. lengths, per ft., D.P. \$0.64	
Thermoid Brake Band Lining, 1 $\frac{1}{2}$ x $\frac{1}{2}$ in.....	.90
Per ft., D.P. \$0.80 50-ft. lengths, per ft., D.P. \$0.72	
Thermoid Brake Band Lining, 1 $\frac{3}{4}$ x $\frac{1}{2}$ in.....	1.00
Per ft., D.P. \$0.88 50-ft. lengths, per ft., D.P. \$0.80	
Thermoid Brake Band Lining, 2x $\frac{1}{2}$ in.....	1.20
Per ft., D.P. \$1.06 50-ft. lengths, per ft., D.P. \$0.96	
Thermoid Brake Band Lining, 2 $\frac{1}{4}$ x $\frac{1}{2}$ in.....	1.30
Per ft., D.P. \$1.14 50-ft. lengths, per ft., D.P. \$1.04	
Thermoid Brake Band Lining, 2 $\frac{1}{2}$ x $\frac{1}{2}$ in.....	1.50
Per ft., D.P. \$1.22 50-ft. lengths, per ft., D.P. \$1.11	
Thermoid Brake Band Lining, 2 $\frac{3}{4}$ x $\frac{1}{2}$ in.....	1.60
Per ft., D.P. \$1.32 50-ft. lengths, per ft., D.P. \$1.20	
Thermoid Brake Band Lining, 3x $\frac{1}{2}$ in.....	1.70
Per ft., D.P. \$1.52 50-ft. lengths, per ft., D.P. \$1.36	
Thermoid Brake Band Lining, 4x $\frac{1}{2}$ in.....	2.20
Per ft., D.P. \$1.95 50-ft. lengths, per ft., D.P. \$1.75	



Unreliable Brake Lining Is a Deadly Peril



ASBESTOS PRODUCTS AND FIBER



Wire Woven Asbestos Packing

Asbestos Sheet Packing, durable and efficient; will not blow out; the most reliable flat packing for gas and gasoline engines. Comes in rolls 40 inches wide, $\frac{1}{8}$ -inch thick; weight about four pounds per square yard.

Per pound.....\$1.50
Per Pound..D.P. \$1.67

Mogul Rope Packing

This packing is made in braided or twisted form from absolutely pure asbestos yarn. Each strand is thoroughly lubricated, insuring minimum friction. It is fireproof, oil-proof, pressure-proof and practically wear-proof. Put up in $\frac{1}{4}$ -lb. spools.



Each\$0.60
Per Spool..D.P. \$0.84



Asbestos Wicking

A loosely woven asbestos wick, adapted for various uses on automobiles, motor boats, etc., and used for packing exhaust and water pipes. Put up in $\frac{1}{4}$ -lb. balls.

Each\$0.35
Per Ball..D.P. \$0.55

Asbestos Cord

Nos. 629 Asbestos Cord

$\frac{1}{8}$ -inch diameter.

For packing spark plugs and minor parts, in place of copper ring gaskets.

Boxes of 1 dozen spools (weight 1 lb.).....\$4.00
Per Spool..D.P. \$0.55
Per Dozen Spools..D.P. \$5.77



Solderall



With an ordinary match it easily mends and stops all leaks in pots, pans, tinware, metal ornaments, agate ware, toys, umbrellas (broken ribs) and a hundred other things. Automobiles, mechanics and machinists use it regularly. Indispensable for wiring. A child can stop or mend a leak with it at once.

Solderall in Tubes, each.....\$0.50
Dozen..D.P. \$3.88

Red Fiber Tubing



Carried in 3-ft. lengths only

Diameter.	Thickness of Wall.		
$\frac{1}{8}$ inch	$\frac{1}{16}$ inch	Per foot.....	D.P. \$0.30
$\frac{1}{8}$ inch	$\frac{1}{8}$ inch	Per foot.....	D.P. .35
$\frac{1}{8}$ inch	$\frac{1}{4}$ inch	Per foot.....	D.P. .40
$\frac{1}{8}$ inch	$\frac{3}{8}$ inch	Per foot.....	D.P. .45
1 inch	$\frac{1}{8}$ inch	Per foot.....	D.P. .50
1 $\frac{1}{2}$ inch	$\frac{1}{8}$ inch	Per foot.....	D.P. .55
1 $\frac{1}{4}$ inch	$\frac{1}{8}$ inch	Per foot.....	D.P. .60

Red Fiber Rod



$\frac{1}{8}$ inch.	Per foot.....	D.P. \$0.40
$\frac{1}{8}$ inch.	Per foot.....	D.P. .40
$\frac{1}{8}$ inch.	Per foot.....	D.P. .55
$\frac{1}{8}$ inch.	Per foot.....	D.P. .60
$\frac{1}{8}$ inch.	Per foot.....	D.P. 1.00
$\frac{1}{8}$ inch.	Per foot.....	D.P. 1.50
1 inch.	Per foot.....	D.P. 3.00

Red Sheet Fiber

Sheets Thickness		
1/64 inch.	Per pound.....	D.P. \$0.70
$\frac{1}{32}$ inch.	Per pound.....	D.P. .70
$\frac{1}{16}$ inch.	Per pound.....	D.P. .46
$\frac{1}{8}$ inch.	Per pound.....	D.P. .50
$\frac{1}{4}$ inch.	Per pound.....	D.P. .50
$\frac{1}{2}$ inch.	Per pound.....	D.P. .50
1 inch.	Per pound.....	D.P. .52

Vellumoid Sheet Packing



Vellumoid Sheet Packing has as a basis a very strong vegetable fiber which is chemically treated making it oil, water, gasoline, grease and air proof and exceedingly tough, as an examination will show. Owing to these properties Vellumoid Sheet Packing makes an exceptional gasket for use on all oil, grease, water and

gasoline connections and all places where the conditions call for a very tough and durable packing. The only place where we cannot recommend it is where it is subjected to a temperature over 300 degrees Fahrenheit. It contains no rubber or rubber substitute and no mineral matter. It is light in weight, very flexible and has high tensile and tearing strength. Because of its flexibility it makes a particularly tight joint and its toughness insures durability.

No. 2 Vellumoid Sheet Packing .010 inch thick, weight 9 oz. per square yard; per yard.....\$0.60
Per square yard..D.P. \$0.88

No. 4 Vellumoid Sheet Packing .021 inch thick, weight 24 oz. per square yard; per yard..... 1.20
Per square yard..D.P. \$1.76



GASKETS—Continued

Victor Ford Gaskets



This Box Contains 12 Cylinder Head Gaskets

- No. J. V. 29. Box of 12 Ford Cylinder Head Gaskets, per box.....\$9.60
Per box..D.P. \$8.88
Less than box lot, each..D.P. \$0.83

Victor Ford Gaskets



This Box Contains 12 Complete Sets Less the Cylinder Head Gasket

- No. J. V. 9. Box of 12 Set Ford Gaskets. Less Cylinder Head Gaskets, per box.....\$3.20
Per box..D.P. \$4.44

Victor Ford Gaskets



- No. J. V. 25. Box of 12 Complete Sets Ford Gaskets, per box.....\$12.00
Per box..D.P. \$12.88
Less than box, per set..D.P. \$1.22

Victor Buick Gaskets



This box contains 300 Copper Asbestos and Copper Brass Asbestos Gaskets that will fit all models of Buick cars made during the years of 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913 and 1914.

The assortment consists of:

- | | |
|--------------------------------------|---------|
| Gasoline Tank Filler..... | Gaskets |
| Intake and Exhaust Pipe..... | Gaskets |
| Spark Plug..... | Gaskets |
| Exhaust Pipe..... | Gaskets |
| Valve Cap..... | Gaskets |
| Water Outlet..... | Gaskets |
| Water Inlet..... | Gaskets |
| Water Flange..... | Gaskets |
| Intake Elbow..... | Gaskets |
| Bolt size $\frac{3}{8}$ | Gaskets |
| Bolt Size $\frac{1}{2}$ | Gaskets |
| Bolt Size $\frac{3}{4}$ | Gaskets |
| Total number of different sizes..... | 20 |
| Total quantity of all gaskets..... | 300 |
- No. J. V. 42. Box of 300 Assorted Buick Gaskets, per box.....\$10.00
Per box..D.P. \$10.22

Assorted Victor Motorcycle Gaskets



This box contains 170 Copper Asbestos Gaskets that will fit all models of the Indian as well as every other make of motorcycle now on the market.

The assortment consists of the following:

- | | |
|-----------------------------------|--------------------------------|
| French Type | Closed Type |
| Sizes from 1 1/2 to 3 1/2..... 16 | Sizes from 1/2 to 1 1/2..... 8 |
| Quantity of Gaskets..... 62 | Quantity of Gaskets.....101 |
| Solid Copper | |
| Sizes of Copper Gaskets..... | 2 |
| Quantity of Gaskets..... | 7 |
| Total number of sizes..... | 26 |
| Total quantity of gaskets..... | 170 |

The above range of sizes and numbers of gaskets enables one to pick a gasket instantly for every day repairs. Dealers and repairmen will therefore find this assortment an absolute necessity.

- No. J. V. 21. Box of 170 Assorted Motorcycle Gaskets, per box.....\$6.00
Per box..D.P. \$5.77



GASKETS—Continued

Assorted Victor Standard French Type Round Gaskets



This box contains 100 assorted Victor Copper Asbestos French Type Gaskets, selected from among the most popular sizes exclusively used by all repairmen and garages, and are selected in proper proportion to accommodate every-day repairs on all makes of automobile motors.

No. J.V. 24 Box of 100 Assorted French Type Gaskets, per box.....\$4.75
Per box...D.P. \$5.77

Assorted Victor Standard Closed Type Round Gaskets



This box contains 200 assorted Victor Copper Asbestos Gaskets, selected from among the most popular sizes universally used, and in proper proportion for every-day repairs on all makes of automobile motors from the highest to the lowest priced car and are fully guaranteed by the manufacturer.

To make the assortment more complete sixty-five selective sizes of plug gaskets are included to fit all makes of spark plugs on the market.

No. J.V. 22 Box of 200 Assorted Closed Type Round Gaskets, per box.....\$5.00
Per box...D.P. \$5.77

Assorted Victor Standard Gaskets



For Intake and Exhaust Pipes, Manifolds, Carburetors, Etc.

This box contains 50 assorted Victor Copper Brass Asbestos Gaskets, universally recognized as the most economical and efficient gaskets made for intake and exhaust pipes, inlet and exhaust manifolds, exhaust pipe flanges, carburetor connections, etc.

No. J.V. 23 Box of 50 Assorted Exhaust Gaskets, per box.....\$4.75
Per box...D.P. \$5.77

G.Q. Closed Type Assortment



No. 1 G.Q. Gasket Assortment, consisting of a highly finished and decorated board with hooks on which are placed 32 sizes closed type gaskets, one dozen of each size, from small spark plug gaskets increasing in sixteenths up to 2½ inside diameter.

EachD.P. \$14.44

G.Q. Open or French Type Assortment



No. 2 G.Q. Gasket Assortment, consisting of a highly finished and decorated board with hooks on which are placed 32 sizes French Type Gaskets, one dozen of each size, from small spark plug gaskets increasing in sixteenths up to 2½ inside diameter.

EachD.P. \$14.44

These G.Q. Display Boards provide the best method yet devised for handling gaskets.



The GIBSON COMPANY INDIANAPOLIS

BELTING, BELT LACING, HOOKS AND COUPLINGS

Alligator Steel Belt Lacing



Patented in United States, Nov. 2, 1909.
Patented in Great Britain, Aug. 24, 1909, No. 19515.

Saves time, saves labor. No tools required but a hammer.

It is adapted for use on leather, rubber, balata, cotton or canvas stitched belting. A separable lacing, hinging on a rawhide or sectional steel rocker pin.

No. 15 Alligator Steel Lacing for belts, $\frac{1}{4}$ to $\frac{5}{32}$ inch thick. For light single leather belting one to two inches wide, packed in 8-inch lengths, in boxes containing sufficient for 64 inches in width of belting, complete with gauge pin for applying and 64 inches rawhide hinge pins.

Weight $\frac{1}{2}$ lb., price.....\$1.00
Per box....D.P. \$1.66

No. 25 Alligator Steel Lacing for belts $\frac{3}{8}$ to $\frac{7}{32}$ inch thick. For medium and heavy single leather, 3-ply rubber or 4-ply cotton or balata or any make of belting $\frac{3}{8}$ to $\frac{7}{32}$ inch thick. Packed in boxes complete with gauge pin and either rawhide or rocker hinge pins, as follows:

Box F contains sufficient for 48 inches in width of belting in 8-inch lengths.

Weight $1\frac{1}{2}$ lbs., price.....\$1.00
Per box....D.P. \$1.66

Box G contains sufficient for 96 inches in width of belting in 12-inch lengths.

Weight $2\frac{1}{2}$ lbs., price.....\$2.00
Per box....D.P. \$3.32

No. 27 Alligator Steel Lacing for belts $\frac{1}{4}$ to $\frac{9}{32}$ inch thick. Specially adapted for motorcycle belts.

Packed in boxes containing sufficient for 96 inches in width of belting in 12-inch lengths, per box \$2.25
Per box....D.P. \$3.75

Improved Belt Hooks



For round or flat belt. (Illustration $\frac{2}{3}$ actual size.)
When bent and clamped into the belt they correspond to the size of the belt.

Price per dozen.....D.P. \$0.22

Neverbreak Cut Laces



Elk Hide Neverbreak Cut Laces are made of the best selected drab colored "Elk" tanned leather, which is stronger than other kinds of leathers used for this purpose. They are all cut straight, are soft and pliable, will wear longer and give better satisfaction than other kinds of laces, and will not get hard or crack from continued use.

No. 383 Neverbreak Cut Laces, $\frac{3}{8}$ inch wide, 36 inches long (2 dozen in box), per dozen.....\$1.00
Per Dozen, D.P. \$1.32

No. 484 Neverbreak Cut Laces, $\frac{1}{2}$ inch wide, 48 inches long (1 dozen in box), per dozen.....1.75
Per Dozen, D.P. \$2.22

Leather Beltings and Couplings



Oak-tanned Round Leather Belting, 1 in. per ft.....D.P. \$0.14

Oak-tanned Round Leather Belting, $\frac{5}{16}$ in., per ft.....D.P. .32

Oak-tanned Round Leather Belting, $\frac{3}{8}$ in., per ft.....D.P. .57

Oak-tanned Round Leather Belting, $\frac{7}{16}$ in., per ft.....D.P. .44

Oak-tanned Round Leather Belting, $\frac{1}{2}$ in., per ft.....D.P. .53

Oak-tanned Flat Leather Belting, $\frac{3}{8}$ in., per ft.....D.P. .22

Oak-tanned Flat Leather Belting, 1 in., per ft.....D.P. .33

Oak-tanned Flat Leather Belting, $\frac{1}{2}$ in., per ft.....D.P. .40

Round Steel Belt Couplings, 1, per pair.....D.P. .22

Round Steel Belt Couplings, $\frac{5}{16}$, per pair.....D.P. .31

Round Steel Belt Couplings, $\frac{3}{8}$, per pair.....D.P. .40

Round Steel Belt Couplings, $\frac{7}{16}$, per pair.....D.P. .44

Round Steel Belt Couplings, $\frac{1}{2}$, per pair.....D.P. .50

Peerless V-Shaped Belting



Peerless Belt is built up of sections put together with coppered rivets. These sections overlap each other so that the belt is three-ply from end to end. This means that it has three times the tensile strength of a single-ply construction. If one of these sections should break, a repair can be easily and permanently made on the road or in your own garage by removing the broken section. This can be done in less than five minutes.

Peerless V-Shaped Fan Belt, $\frac{1}{2}$ Oak, per foot.....\$0.60
Per foot...D.P. \$0.77

Peerless V-Shaped Fan Belt, $\frac{3}{4}$ Oak, per foot......75
Per foot...D.P. \$0.88

Calcutt's Steel Wire Belting



Wire Belting, 50 feet and 20 couplings in box, $\frac{1}{4}$ inch, per box.....D.P. \$3.75

Wire Belting, 50 feet and 20 couplings in box, $\frac{3}{8}$ inch, per box.....D.P. 4.18

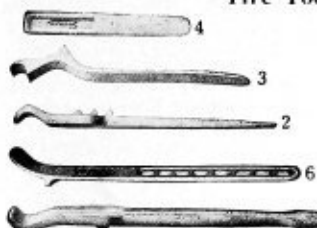
Wire Belting, 50 feet and 20 couplings in box, $\frac{1}{2}$ inch, per box.....D.P. 4.58

Couplings for wire belting, any size, put up in packages of 25, per package.....D.P. 1.11



TIRE TOOLS

Tire Tools



These Tire Tools are made of strong malleable iron and are very practical in putting on or removing tires from wheels or demountable rims.

Finish: Velvet Aluminum.

No. 4 Tire Tool, 8 inches long, each	.....\$0.15
Each..D.P. \$0.18 Dozen..D.P. \$1.88	
No. 3 Tire Tool, 11 inches long, each	......25
Each..D.P. \$0.28 Dozen..D.P. \$3.11	
No. 2 Tire Tool, 13 inches long, each	......25
Each..D.P. \$0.26 Dozen..D.P. \$2.66	
No. 1 Tire Tool, 16 1/2 inches long, each	......35
Each..D.P. \$0.37 Dozen..D.P. \$4.00	
No. 6 Tire Tool, 12 inches long, each	......25
Each..D.P. \$0.26 Dozen..D.P. \$2.66	



No. 5 Tire Tool, 14 inches long, each	......40
Each..D.P. \$0.55 Dozen..D.P. \$6.11	

Springfield Tire Tool



An adjustable tire tool, made to conform with the shape of all sizes of casings. Particularly adapted for loosening corroded casings from the rim. Made of malleable iron.

Springfield Tire Tool, price	.....\$0.80
Each..D.P. \$1.11 Dozen..D.P. \$12.22	

The Perfect Handle Tire Tool



13 1/2 inches long, 1 inch tapering to 3/4 inch in width, 3/8 inch tapering to 1/8 inch in thickness, with a cute curved and round point tapered to 1/8 inch, to slip under the tire and heave it off in a jiffy. A regular "cuss" preventer for automobilists.

Each	.....\$1.00
Each..D.P. \$1.44 Dozen..D.P. \$15.54	

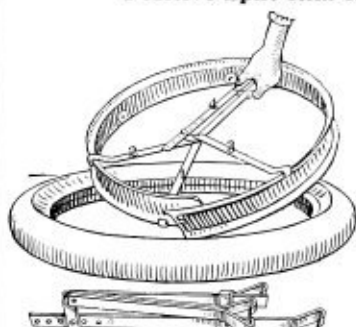
Auto Pry Bar



Octagon Tool Steel Bar, 14 inches long, one end straight and the other angled.

Auto Pry Bar, 3/4x14 inches, each	......25
Each..D.P. \$0.33	
Auto Pry Bar, 1/2x14 inches, each	......30
Each..D.P. \$0.40	
Auto Pry Bar, 1/4x14 inches, each	......35
Each..D.P. \$0.44	

Positive Split Rim Remover



Neatly Folded to Fit the Tool Box.

Positively adjusted to fit any sized rim and can be instantly folded to fit in the tool box. Weight, 3 pounds.

Price	.....\$2.00
Each..D.P. \$2.44	

The Positive Split Rim Remover removes any split rim from a tire in a few seconds without prying, hammering or damaging the rim or injuring the casing. Removing split rims from casings has always been a hard task for the garage man as well as for the car owner. The old method of prying and hammering has ruined many a new rim and sent many a good tire to the junk pile.

A light and efficient tool, combining convenience and speed with simplicity. It is

"Buckeye" Tire Remover

The Buckeye Tire Remover is the handiest tool of its kind ever marketed. It is of service for both removing and applying clincher tires to the rim.

The Buckeye Tire Remover is of special value to Ford, Saxon, Maxwell, etc., owners.

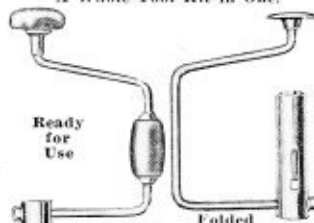
As shown in the illustration, a lady can attach a new casing or remove an old one rusted to the rim, without any trouble whatever.

Price, per set (two pieces), completely boxed	.....\$1.00
Each..D.P. \$1.32	



The Utility Demountable Rim Wrench

A Whole Tool Kit in One.



Ready for Use

Folded

It can be folded when not in use and carried in the tool box.

Utility Demountable Rim Wrench, each	.....\$1.50
Each..D.P. \$2.44	

The Utility Demountable Rim Wrench is especially designed for removing all nuts used in connection with all kinds of demountable rims, but can be utilized for many other purposes.

It is really a socket wrench set in itself, adjusts itself automatically.

This wrench can be used with both hands. It operates as does a bit brace and can exert great pressure.

Mossberg Socket Brace



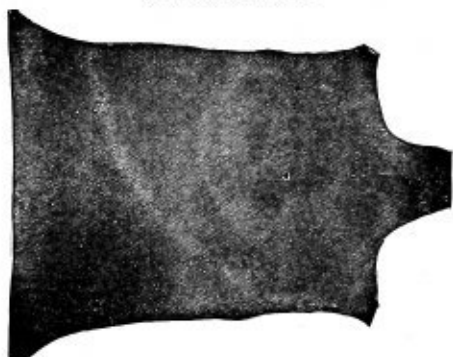
No. 360 Mossberg Socket Brace. Machinists have a decided tendency to favor braces for work around an engine, and legitimately so, for they are extremely efficient. If you use demountable rims and don't use these braces and Mossberg sockets, you are taking too much time in putting on tires. Made of finest steel, dull nickel plated, with ebonyized wood handle and top 13 inches over all, and covered by the usual old-fashioned Mossberg guarantee.

Price, each	.....\$0.40
Each..D.P. \$0.55 Dozen..D.P. \$6.10	
Sockets any size for use with No. 360 Brace, each	......20
Dozen..D.P. \$3.54	



CLEANING ACCESSORIES

Chamois Skins



No. 1. Chamois Skins, 11x13 $\frac{1}{2}$, each.....	\$0.35
Each..D.P. \$0.33 Per Kip of 30 Skins..D.P. \$9.33	
No. 2. Chamois Skins, 19x25, each.....	.75
Each..D.P. \$1.11 Per Kip of 30 Skins..D.P. \$30.00	
No. 3. Chamois Skins, extra large, each.....	1.25
Each..D.P. \$2.22 Per Kip of 30 Skins..D.P. \$60.00	

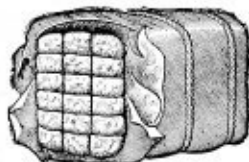
Sponges

Genuine Rock Island sheep's wool full form Sponges, clean.

No. 10 Sponge, 2-oz., each.....	\$0.75
Each..D.P. \$1.33	
No. 20 Sponge, 4-oz., each.....	1.25
Each..D.P. \$2.44	

To meet the demand for a lower-priced sponge, we have a cheaper grade in soft velvet form.

No. 30 Sponge, 2-oz., each.....	\$0.50
Each..D.P. \$0.88	
No. 40 Sponge, 4-oz., each.....	.75
Each..D.P. \$1.32	



Carriage Feather Dusters

These dusters contain 120 selected tall feathers wound on a hardwood block, threads guaranteed not to strip and trimmed with short leatherette cuffs. They are very durable and the best low-priced duster that can be safely used on autos.



Carriage Feather Duster, 14-inch, each.....	\$1.00
Each..D.P. \$1.44 Dozen..D.P. \$15.55	
Carriage Feather Duster, 16-inch, each.....	1.50
Each..D.P. \$1.77 Dozen..D.P. \$20.00	

Chicago Feather Dusters



Chicago Feather Dusters are made for hard service and are unequalled in wearing qualities and appearance.

No. 45 Feather Duster, 14-inch, each.....	\$1.75
Each..D.P. \$2.55 Dozen..D.P. \$28.00	
No. 46 Feather Duster, 16-inch, each.....	2.00
Each..D.P. \$3.00 Dozen..D.P. \$33.33	

Wool Dusters



Made of strong, staple imported wool only, well filled and full length. Dyed in fast, bright colors. Handles are hardwood, enameled a hard, bright color.

No. 2 Wool Dusters, 8-inch, each.....	\$0.63
Each..D.P. \$0.88 Dozen..D.P. \$9.77	
No. 6 Wool Dusters, 10-inch, each.....	1.00
Each..D.P. \$1.06 Dozen..D.P. \$18.88	

"Royal Blue" Wool Dusters

There is a strong demand for a wool duster, for use on cars, stronger and heavier than the common wool dusters. "Royal Blues" are made to supply this demand. A "Royal Blue" will outwear two ordinary wool dusters because they are well filled with strong staple wool, which is held in place by reinforced cuffs. The head into which the handle screws has an unbreakable metal base. The handles are hardwood, "rubberoid" finish, and the threads guaranteed not to strip.



Washable in gasoline or soap and water.

A Royal Blue Wool Dusters, each.....	\$1.00
Each..D.P. \$1.55 Dozen..D.P. \$18.32	
B Royal Blue Wool Dusters, each.....	1.50
Each..D.P. \$2.10 Dozen..D.P. \$23.32	
C Royal Blue Wool Dusters, each.....	1.75
Each..D.P. \$2.65 Dozen..D.P. \$30.00	
D Royal Blue Wool Dusters, each.....	2.00
Each..D.P. \$2.88 Dozen..D.P. \$33.77	

Packed one dozen in a carton.

"Round Downs"

Dust-Absorbing—For Body Wiping



"Round Downs" are a cylindrical shaped feather duster, made of down (marabou) feathers wound around a handle. Down feathers have small stems and thick, soft, silky plumage. A sufficient quantity of downs are used to produce a thick, soft, fur-like surface, which picks up and retains dust particles until shaken or washed out.

For wiping bodies they are the ideal duster. They are soft as silk and won't scratch the finest finished car. They absorb the dust instead of scattering it and have a large dust-absorbing capacity because of their round shape and thick, soft texture. May be washed or shaken clean when filled with dust.

No. 18 Round Down, length of handles 14 inches, length of down face 6 $\frac{1}{2}$ inches, each.....	\$1.50
Each..D.P. \$1.76 Dozen..D.P. \$20.00	
No. 19 Round Down, length of handles 16 inches, length of down face 8 inches, each.....	1.75
Each..D.P. \$2.10 Dozen..D.P. \$23.32	



WASHERS, PROTECTORS, APRONS, BOOTS AND SOAP

Peoria Overhead Washer



The Peoria Overhead Washer has five-foot arm completing a ten-foot circle, double braced to prevent sagging of arm, which causes leakage; head very strong and substantial, being made entirely of the very finest machine brass, having a liberal-sized stuffing box.

Each \$12.00
Each.. D.P. \$15.54

Sleeve Protectors



These sleeve and cuff protectors afford great protection when washing or working around the car. They are held securely to the wrist by a strap and snap button. Will

absolutely keep out the dust and dirt. Every motor car owner should have a pair.

No. 1086 Rubber finished cloth, per pair..... \$0.40
Per Pair.. D.P. \$0.55

Wash Aprons

This is a strong, serviceable wash apron for use in garages or any place where a waterproof apron may be required. Just what is needed when washing the car, cleaning machinery, etc. Made of heavy waterproof material. Edges sewed all around. Provided with large grommets protecting the cloth from tearing.



No. 1077 Rubber Finished Duck Wash Aprons,
each \$1.80
Each.. D.P. \$2.55

Rubber Boots



These boots are made of the best rubber and duck possible to get, have a very heavy sole; also properly reinforced so as to stand very hard usage.

Price, regular style with
rubber soles, per pair. \$6.80
Per Pair.. D.P. \$10.00

Buckeye Soap



Buckeye Cleanser is put up in six different size packages, as follows:

Barrels 450 to 500 pounds net
Half barrels 225 pounds net
Kegs 125 pounds net
25-pound pails..... 2 pails per crate
10-pound pails..... 6 pails per case
5-pound pails..... 12 pails per case

Buckeye Cleanser in 5-lb. pails, each..... \$0.75
Dozen.. D.P. \$16.66

Buckeye Cleanser in 10-lb. pails, each..... 1.50
Dozen.. D.P. \$33.32

Buckeye Cleanser in 25-lb. pails, each..... 3.00
Dozen.. D.P. \$70.12

Buckeye Cleanser in kegs, per lb..... .12
Per lb.. D.P. \$0.21

Buckeye Cleanser in half barrels, per lb..... .12
Per lb.. D.P. \$0.19

Buckeye Cleanser in barrels, per lb..... .10
Per lb.. D.P. \$0.17½

Whiz Hand Soap

When Whiz and dirt meet there is something doing. The dirt flies. Used by painters, printers, machinists, engineers, chauffeurs, mechanics, and all those whose work causes soiling of the hands. Lathers freely in hard water.

Whiz Hand Soap in 1-lb. cans,
each \$0.10
Per Dozen.. D.P. \$2.00



Blue Ribbon Hand Soap



Blue Ribbon Cold Cream Hand Soap washes the hands without water. Leaves the hands soft and smooth. Just the thing for motorists on the road after tinkering with tires or engine. No grit, no water, soft as velvet, no chapped hands.

10-oz. can, per can... \$0.10
Per Dozen.. D.P. \$1.77

2-lb. can, per can... .25
Per Dozen.. D.P. \$4.44

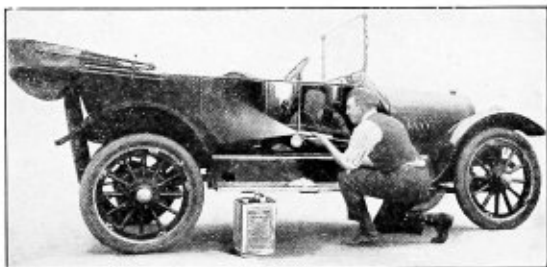
6-lb. can, per can... .60
Per Dozen.. D.P. \$10.66



The GIBSON COMPANY INDIANAPOLIS

CLEANING AND POLISHING MATERIAL

Wonder-Mist



Cleans and polishes without water. Removes dust, dirt and mud like magic—removes grease and tar perfectly. No possible injury to finish. No scratching. Non-inflammable, non-combustible. The quickest, easiest and best way to maintain a clean, bright car every day in the year. An investment protection. Always use sprayer and dry with cheese cloth.



PRICES

Gallon and Sprayer.....	\$3.00
Gallon..D.P. \$4.44	
Half Gallon and Sprayer.....	2.00
½ Gallon..D.P. \$2.93	
Quart and Sprayer.....	1.25
Quart..D.P. \$1.84	



Waxit Body Polish



Waxit is the perfect polish. It has been produced as a result of much experimenting, has been tried out thoroughly, has been improved in every way possible, and is now confidently offered as the very best polish on the market for use on the very finest finish. Waxit is a cream white emulsion which requires no tedious shaking, has no disagreeable odor, is not injurious to the skin, but on the contrary softens the hands. For automobile bodies Waxit is used as on furniture after the machine has been washed. Waxit will remove all milkiness and leave the car looking as good as new.

Waxit is put up in the following sizes:

6 Ounces, each.....	\$0.25
Per dozen..D.P. \$4.00	
1 Pint, each.....	.50
Per dozen..D.P. \$9.33	
1 Quart, each.....	1.00
Per dozen..D.P. \$18.00	
Half Gallon, each.....	1.50
Per dozen..D.P. \$28.00	
1 Gallon, each.....	2.50
Per dozen..D.P. \$46.00	

Johnson's Wax and Cleaner



Johnson's Prepared Wax is the standard polish for automobiles, electrics and limousines. It forms a thin, protecting coat over the varnish, adding years to its life. It covers up mars and scratches, prevents checking and "sheds water like a duck's back." Johnson's Prepared Wax preserves the varnish and protects it from the weather. It imparts a beautiful, high polish so hard and dry that it cannot gather dust. Johnson's Prepared Wax is a boon to the man who takes care of his own car as it makes a "wash" last twice as long. Cars treated with Johnson's Cleaner and Prepared Wax require washing only when they become covered with mud—ordinary usage does not affect the polish.

Auto Size Johnson's Prepared Wax, each.....\$0.25
Dozen..D.P. \$4.44

No. 1 Johnson's Prepared Wax, 1-lb. cans, each.... .75
Dozen..D.P. \$10.66



Johnson's Cleaner really cleans—it entirely removes all stains, discolorations, scum, road-oil, grease, tar, etc. Even those spots that are ground in—mud freckles—and surface scratches which you thought were permanent—will disappear like magic under Johnson's Cleaner. And it doesn't injure or scratch the finest varnish—simply cleans and prepares it for the wax polish.

Johnson's Cleaner, in 8-ounce cans, each.....\$0.25
Dozen..D.P. \$4.44



BODY AND METAL POLISH

This is a heavy polish, especially adapted for use on articles exposed to the weather. It is not a varnish, but a cleaner and renewer of the original finish. Contains no acid, alkali or grit, which destroys the finish. Does not gum, stick or leave a greasy surface to catch dust and soil the clothing. Leaves the surface perfectly dry. Preserves the luster and prevents checking.

Golden Star Body Polish

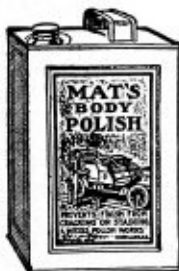


- | | |
|---|---------|
| Golden Star Body Polish, $\frac{1}{2}$ pint, each | \$0.25 |
| Doz.....D.P. | \$4.44 |
| Golden Star Body Polish, $\frac{1}{4}$ pint, each | .50 |
| Doz.....D.P. | \$8.88 |
| Golden Star Body Polish, pint, each | .75 |
| Doz.....D.P. | \$12.22 |
| Golden Star Body Polish, quart, each | \$1.00 |
| Doz.....D.P. | \$20.00 |
| Golden Star Body Polish, $\frac{1}{2}$ gallon, each | 1.75 |
| Doz.....D.P. | \$26.66 |
| Golden Star Body Polish, gallon, each | 3.00 |
| Doz.....D.P. | \$53.33 |

Mat's Body Polish

This polish is equally good as a body polish or leather dressing. It is used for renovating upholstery and tops, as well as brightening varnished surfaces.

- | | |
|---|---------|
| Mat's Body Polish, pint, each | \$0.50 |
| Doz.....D.P. | \$6.66 |
| Mat's Body Polish, quart, each | 1.00 |
| Doz.....D.P. | \$13.32 |
| Mat's Body Polish, $\frac{1}{2}$ gallon, each | 1.50 |
| Doz.....D.P. | \$21.11 |
| Mat's Body Polish, gallon, each | 2.50 |
| Doz.....D.P. | \$40.00 |



Glad Rags



- | | |
|-----------------|--------|
| Glad Rags, each | \$0.25 |
| Dozen.....D.P. | \$3.33 |

Blue Ribbon Metal Polish For Brass Only



A lasting shine in every drop. The quick action of Blue Ribbon Metal Polish attracts immediate attention. Its economy in use and absolute freedom from injurious ingredients secures permanent friends.

- | | |
|--|---------|
| Blue Ribbon Metal Polish, $\frac{1}{2}$ pint, each | \$0.15 |
| Doz.....D.P. | \$2.66 |
| Case Lots, Doz.....D.P. | \$2.44 |
| Blue Ribbon Metal Polish, pint, each | .25 |
| Doz.....D.P. | \$4.44 |
| Case Lots, Doz.....D.P. | \$4.00 |
| Blue Ribbon Metal Polish, quart, each | .40 |
| Doz.....D.P. | \$8.00 |
| Case Lots, Doz.....D.P. | \$7.22 |
| Blue Ribbon Metal Polish, $\frac{1}{2}$ gallon, each | .75 |
| Doz.....D.P. | \$13.32 |
| Case Lots, Doz.....D.P. | \$12.00 |
| Blue Ribbon Metal Polish, gallon, each | 1.25 |
| Doz.....D.P. | \$22.22 |
| Case Lots, Doz.....D.P. | \$20.00 |

Cases Blue Ribbon Polish Contain:

- 3 Dozen $\frac{1}{2}$ Pints
- 2 Dozen Pints
- 2 Dozen Quarts

- 1 Dozen $\frac{1}{2}$ Gallons
- $\frac{1}{2}$ Dozen Gallons

Blue Ribbon Nickel Polish

For Nickel Only

The ordinary metal polish manufacturer is experimenting on a new nickel polish, while we are giving you a Quality Nickel Polish which has already stood the test.



- | | |
|---|---------|
| Blue Ribbon Nickel Polish, $\frac{1}{2}$ pint can, each | \$0.25 |
| Doz.....D.P. | \$3.33 |
| Case Lots, Doz.....D.P. | \$3.00 |
| Blue Ribbon Nickel Polish, pint can, each | .50 |
| Doz.....D.P. | \$6.11 |
| Case Lots, Doz.....D.P. | \$5.55 |
| Blue Ribbon Nickel Polish, quart can, each | .75 |
| Doz.....D.P. | \$10.00 |
| Case Lots, Doz.....D.P. | \$8.88 |

Blue Ribbon Auto Body Gloss and Furniture Polish



Is not an ordinary lacquer or veneer which simply produces an artificial luster and lasts scarcely longer than the time used in applying it.

- | | |
|---|---------|
| Blue Ribbon Body Polish, 6 ounces, each | \$0.25 |
| Doz.....D.P. | \$4.00 |
| Case Lots, Doz.....D.P. | \$3.55 |
| Blue Ribbon Body Polish, pint, each | .50 |
| Doz.....D.P. | \$8.88 |
| Case Lots, Doz.....D.P. | \$8.00 |
| Blue Ribbon Body Polish, quart, each | 1.00 |
| Doz.....D.P. | \$16.00 |
| Case Lots, Doz.....D.P. | \$14.44 |
| Blue Ribbon Body Polish, $\frac{1}{2}$ gallon, each | 1.75 |
| Doz.....D.P. | \$28.00 |
| Case Lots, Doz.....D.P. | \$25.22 |
| Blue Ribbon Body Polish, gallon, each | 2.50 |
| Doz.....D.P. | \$48.00 |
| Case Lots, Doz.....D.P. | \$43.00 |



The GIBSON COMPANY INDIANAPOLIS

PEERLESS AUTOMOBILE SPECIALTIES

Cushion Dressing, Liquid Wax, Fender Japan, Battery Box Battery



Peerless Cushion Dressing

A dressing that renews the finish of leather seat cushions and dries in thirty minutes without danger of washing or rubbing on light clothes. Does not crack, chip or peel, and can be used on the finest work.

About a pint for small car; a quart for large car.

1-pint can \$0.54
Doz. . D.P. \$9.60
½-pint can30
Doz. . D.P. \$5.33

Peerless Liquid Wax

A polishing wax finish for automobile varnished surfaces in liquid form, so that it is easily applied in an even coat, polished with ease, and ready for use at once. Does not collect dust, and is not injured by water.

About one pint for a large car.

1-pint can \$0.54
Doz. . D.P. \$9.60
½-pint can30
Doz. . D.P. \$5.33



Peerless Jet Black Fender Japan

An especially heavy-bodied, air-drying black enamel for fenders, hoods, and large surfaces of automobiles. One coat covers solid, giving a rich gloss finish, with full luster; air drying in twenty-four to thirty-six hours.

About one pint for fenders of five passenger car.

1-pint can \$0.54
Doz. . D.P. \$9.60
½-pint can30
Doz. . D.P. \$5.33



Peerless Acid-Proof Battery Box Black

A black, gloss, enamel-like finish for wood and metal that is acid-resisting, and when used on battery boxes, cases, racks, etc., protects and preserves the wood and metal from being eaten up and decaying. One coat covers solid. Air drying in five to six hours.

1-pint can \$0.54
Doz. . D.P. \$9.60
½-pint can30
Doz. . D.P. \$5.33



Rim Paint, Extra Fine Black Japan, Mirroroid, Body Polish



Peerless Anti-Rust Rim Paint

A coating that dries hard, and does not remain sticky, for automobile rims to keep the tires from sticking to the rims and the rims from rusting. Not affected by water and does not chip or peel.

About one pint for a small car.

1-pint can \$0.54
Doz. . D.P. \$9.60
½-pint can30
Doz. . D.P. \$5.33

Peerless Extra Fine Black Japan

A good body, rich, gloss, air-drying black enamel for use on wood and metal around an automobile. Covers solid with one coat, and very handy product for touching up where the paint is chipped off, to keep your car from rusting.

1-pint can \$0.54
Doz. . D.P. \$9.60
½-pint can30
Doz. . D.P. \$5.33



Peerless Mirroroid

A varnish renewer—not a polish, to be applied with a soft brush, or if necessary a cloth. Used on all varnished surfaces that are in good condition where the luster has died out but the color and undercoats are in good condition. Leaves a rich luster like a new varnished surface, drying over night.

About a pint to a quart for an automobile.

1-pint can \$0.54
Doz. . D.P. \$9.60
½-pint can30
Doz. . D.P. \$5.33



Peerless Auto Body Polish

A real good automobile body polish for all varnished surfaces to keep them bright and looking new. Easily applied, and polished ready for use in a few minutes. This is not a greasy preparation.

About one pint for a car.

1-pint can \$0.54
Doz. . D.P. \$9.60
½-pint can30
Doz. . D.P. \$5.33



MAKE OLD CARS LOOK LIKE NEW



PEERLESS AUTOMOBILE SPECIALTIES—Continued

Top Dressings, Lining Dye

Peerless Mohair Top Dressing

The original Mohair Top Dressing that dresses and water-proofs mohair, ducks and canvas tops and curtains. Renew old mohair with a fine silky finish, cementing the layers of cloth together, and leaving the top soft and pliable. Dries over night.

About one quart for top of five-passenger car.

1-pint can\$0.54
 Doz. . D.P. \$9.60
 ½-pint can30
 Doz. . D.P. \$5.33



Peerless Leather Top Dressing

An oil preparation to help used tops of leather, rubber and pantasote, and their imitations, keeping them soft and pliable. Renews the rich black finish. Dries over night.

About one quart for top of five-passenger car.

1-pint can\$0.54
 Doz. . D.P. \$9.60
 ½-pint can30
 Doz. . D.P. \$5.33



Peerless Lining Dye

A black, non-fading dye, which makes a uniformly colored lining of grease-spotted and water-stained top linings. The color is fast and will not wash, fade or rub off. Dries in two hours.

About one quart for inside of top of five-passenger car.

1-pint can\$0.54
 Doz. . D.P. \$9.60
 ½-pint can30
 Doz. . D.P. \$5.33



Peerless Ford Top Dressing

An especially prepared dressing for Ford Top material, making a rich, black gloss finish, so that an old top would look like new. Wears a long while.

About one pint for runabout; one quart for touring car.

1-pint can\$0.54
 Doz. . D.P. \$9.60
 ½-pint can30
 Doz. . D.P. \$5.33



Lamp Enamels, Cylinder Enamels

Peerless Lamp Enamel—Gloss

A high gloss, air drying, enameled finish for lamps and similar parts around an automobile. One coat covers solid giving a rich finish. Air drying in ten or twelve hours. Wears indefinitely, and not affected by the heat of the lamps.

About one pint for the lamps of a car.

1-pint can\$0.54
 Doz. . D.P. \$9.60
 ½-pint can30
 Doz. . D.P. \$5.33



Peerless Lamp Enamel—Dull

A fine, rich dull finish for automobile lamps and similar parts. One coat covers solid. The finish is durable, and the heat of the lamps does not affect the enamel in any way. Air drying in three to four hours.

About one pint for the lamps of a car.

1-pint can\$0.54
 Doz. . D.P. \$9.60
 ½-pint can30
 Doz. . D.P. \$5.33



Peerless Cylinder Enamel—Black

A high-grade, rich, black, air-drying gloss enamel finish for cylinders, metal rods, and all engine parts; used to keep the parts free from rust; the finish is not injured by heat of engine, oil or gasoline. Air drying over night.

About one pint for four-cylinder car.

1-pint can\$0.54
 Doz. . D.P. \$9.60
 ½-pint can30
 Doz. . D.P. \$5.33



Peerless Cylinder Enamel—Gray

A high-grade, gloss, gray, air-drying enamel finish for cylinders, metal rods, and all engine parts. Keep these parts free from rust, and the finish is not affected by heat, oil or gasoline. Air dries over night.

About a pint for four-cylinder car.

1-pint can\$0.54
 Doz. . D.P. \$9.60
 ½-pint can30
 Doz. . D.P. \$5.33



MAKE OLD CARS LOOK LIKE NEW



The GIBSON COMPANY INDIANAPOLIS

SCHELLAC, COMPOUND, BRONZE, NEVER-RUST, LACQUER, DRESSING, ETC.



Pioneer Rim and Gasket Shellac

It is used to cement bicycle tires to their rims; also to coat gaskets so that a perfectly tight union may be made. It does the trick.

Quart cans, each \$0.85
 Dozen . . D.P. \$13.60
 Half-pint cans, each25
 Dozen . . D.P. \$4.00
 Two-ounce swab bottles, each .15
 Dozen . . D.P. \$1.86

Pioneer Clutch and Brake Compound

Restores leather, cork or composition clutch and brake facings to their original state, causing them to grip with their original tenacity.

This is undoubtedly the best clutch and brake compound on the market. It is prepared on scientific principles and gives absolute satisfaction wherever used.

Per can \$0.35
 Per Dozen . . D.P. \$5.60



Norwesco Aluminum Bronze

It is put up specially for use on radiators, engines, mufflers, etc. Because of its heat resisting qualities it is particularly well adapted to painting those parts of the machine that are subject to heat.

One can will do over the largest size motor.

Per can \$0.60
 Per Dozen . . D.P. \$6.93



Never-Rust

The "chemically correct" rim paint used by all motorists who want to prevent tires from sticking to the rims. It protects the tires by preventing the rust from forming and eating into the canvas.

Per can \$0.50
 Per Dozen . . D.P. \$8.66



Norwesco Retouching Lacquer

A one coat air-drying Lacquer built on a lacquer base instead of a varnish base. This is a very high grade article intended for use on any part of the machine that has become shabby. It is particularly adapted for use on the brass and metal parts about the machine.

Per can \$0.50
 Per Dozen . . D.P. \$8.66

Norwesco Upholstering Dressing

A one coat quick-drying dressing for upholstering and tops. It is furnished in a gloss black finish only and should be applied with a small varnish brush. It dries quickly, giving an ever finish which will not crack or rub off. Each can contains enough of the dressing to do over the upholstering on one car.

Per can \$0.50
 Per Dozen . . D.P. \$8.66



Norwesco Lining Dye

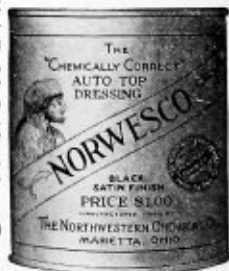
Prepared especially for use on auto tops and linings where it is desired to dye the top or lining to cover up dirt and grease spots. This is not a water-proofing dressing, but simply a dye. Each can contains enough to do one top. The material may be applied either with a brush or cloth.

Per can \$0.40
 Per Dozen . . D.P. \$6.92

Norwesco Top Dressing

It imparts a soft, flat, black appearance to leather, pantosote, canvas or mohair. It has the appearance of satin and is, we believe, far superior to the shiny varnishes now used as top dressings. This dressing produces an absolutely waterproof and elastic finish. Each can contains enough dressing to cover the largest size top.

Large can, each \$0.90
 Per Dozen . . D.P. \$16.00
 Small can, each50
 Per Dozen . . D.P. \$8.66





ENAMEL, PRUSSIAN BLUE, COMPOUND, JET-LAC, CEMENT AND PATCHES

Engine Enamel

Never-Burn Engine Enamel is specially prepared for use on automobile engines. The heat of the engine bakes the enamel and produces a finish that will not crack nor burn off.

	Per can.
Never-Burn Engine Enamel, gloss black	.....\$0.60
Never-Burn Engine Enamel, flat black	......60
Never-Burn Engine Enamel, battleship gray	......60
Per Dozen..D.P.	\$11.11



Norwesco Prussian Blue

is made from the finest quality of imported Prussian Blue, ground in pure linseed oil.

It is used by all mechanics to show wear and high spots.

Per tube	.....\$0.15
Per Dozen..D.P.	\$2.76

Wonder-Worker Neats Foot Oil Clutch Compound

is a sure remedy against clutch troubles. A high grade compound for softening and keeping clutch leather in perfect condition.

Is an absolute necessity and should always be kept handy by the owner and driver.

One can may save you no end of time and trouble.

Pint cans, each	.....\$0.25
Per Dozen..D.P.	\$4.44



Jet-Lac

An especially prepared black quick air-drying enamel for enameling lamps, horns and fenders.

Jet-Lac leaves a smooth, rich, durable, elastic finish that is not affected by heat, oil or grease, and is in every respect a high grade article, prepared especially for automobile use. An amateur can apply it, as the enamel runs together after it is applied and leaves no brush marks. Gives a neat and classy appearance to brass work and saves time and bother of polishing brass.

Jet-Lac will not scratch or chip off and will wear as long as any baked-on enamels.

Half-pint can, each	.....\$0.75	Quart can, each	.....\$2.25
Per Dozen..D.P.	\$13.32	Per Dozen..D.P.	\$40.00
Pint can, each	.....1.25	Gallon can, each	....4.00
Per Dozen..D.P.	\$24.00	Per Dozen..D.P.	\$80.00



Wonder-Worker Iron Cement

Here is a metallic chemical iron cement that will withstand heat, oils, grease, steam and gasoline.



When once hardened it becomes a metallic substance which contracts and expands same as the iron. Used extensively for repairing cracks, blow-holes or defects in piping, cylinders, jackets, radiators, etc. Should be in the possession of every auto owner, as Wonder-Worker Iron Cement will save

you long delays and an expensive repairing bill, at the same time enabling any one to make a permanent repair at very low cost.

Pint cans, each	.....\$0.75
Per Dozen..D.P.	\$13.32

Quad-Lac

For renewing worn and dingy leather cushions, mohair and pantasote tops, brass lamps and nickel trimmings.

Quad-Lac produces a smooth, durable, waterproof, black, elastic finish, easy to apply, no loss of time in holding up car a day or two overtime for drying.

Quad-Lac will not rub off, stiffen or crack leather or pantasote cushions or tops.

For mohair tops, simply dilute with equal parts of denatured alcohol; one pint makes a

quart of mohair dressing. Imparts a black, silky finish that will not stiffen or crack the mohair, and will re-color and waterproof a faded and leaky mohair top, giving it the appearance and wearing quality as when new.

Two coats of Quad-Lac will give brass or nickel a rich black, durable finish. Excellent for touching up marred and scratched surfaces on body or fenders. Dries in twenty minutes. Directions on every can.

Quad-Lac, 1/2-pint can, each	.....\$0.45
Dozen..D.P.	\$8.00

Quad-Lac, pint can, each	......75
Dozen..D.P.	\$12.00



Self-Curing Mohair Top Patches

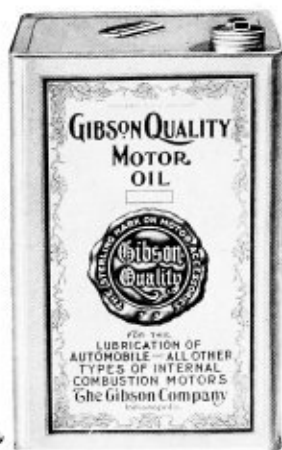


The annoying and troublesome small holes that are burned or chafed in comparatively new mohair tops may be quickly and permanently repaired so that the repair is unnoticeable, at the same time making the top as good as new and absolutely waterproof. For mending holes, leaks and rips in mohair tops, without sewing. Simply remove muslin from uncured side of patch, moisten with gasoline and place patch over hole on outside of top, pressing firmly with fingers.

Self-Curing Mohair Top Patches, box of ten, assorted, per box	.....\$0.50
Dozen boxes..D.P.	\$8.00



Gibson Quality Motor Oil



ONE OF THE MOST serious problems confronting the motorist is the use of a satisfactory lubricant for his automobile. The remarkable growth of the automobile industry and the natural large demand for oils and greases has flooded the market with hundreds of good, bad and indifferent lubricants, some of which do the motor and other machinery more harm than good. The automobile motor, with the variable conditions of heat and cold, expansion and contraction, friction and terrific speed under which it must operate, demands exceptional care in the selection of an oil that will lubricate all the bearings liberally without waste; that will flow freely at low temperatures without coagulation; that will retain its viscosity (body) at high temperatures and will not carbonize the cylinders. Such an oil must have these qualities:

High Flash Test—The flash point is the lowest temperature at which the vapors arising from the oil will ignite. Oils used for the lubrication of internal combustion engines are exposed to severe heat. The flash test should, therefore, never fall below 375 degrees. Gibson Quality Oil shows a flash test of 390 degrees.

High Fire Test—The fire point of an oil is the lowest temperature at which the oil itself ignites. Since the fire is always above the flash in temperature, the test should show not less than 430 degrees. Gibson Quality Oil shows a fire test of 445 degrees.

Cold Test—The cold test is the lowest temperature at which an oil will flow or pour. This is very essential, as motor oil should be fluid even at temperatures as low as 10 degrees. Gibson Quality Motor Oil shows a cold test of 8 degrees F.

Viscosity—This represents the body of the oil and determines its lubricating value. The viscosity is measured by the fluidity at certain temperatures. Gibson Quality Oil shows a viscosity of 220 at 100 degrees.

All the elements described above are found in high values in the Gibson Quality Motor Oil—an oil that has been subjected to every known test by the engineers of the largest automobile factories in America. This Gibson Quality Motor Oil is better adapted to automobile motors than any oil manufactured. It possesses those factors that guarantee the motorist—

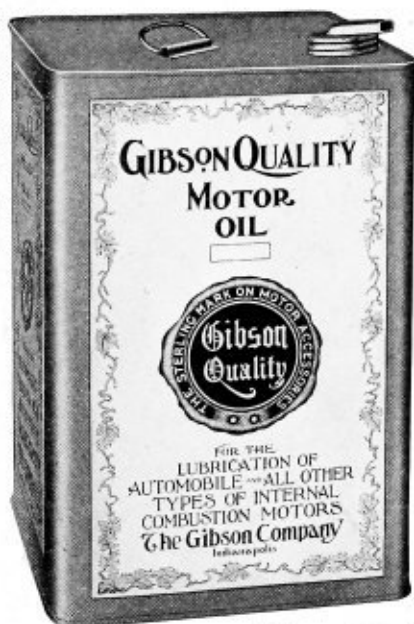
- Greatest mileage per gallon.
- Least bearing wear per mile.
- Least carbon.
- Best general results.
- Least friction and consequently less fuel.

An oil that is made for the varying conditions found in automobile motors and guaranteed to give perfect satisfaction.

Dealers—We have a special sales proposition on this line of oils and greases. Write for it at once. It will pay you.



Gibson Quality Motor Oil and Greases



Gibson Quality Motor Oil

The Gibson Quality Motor Oil is packed in lithographed cans of special design, with patented spout. These packages make it very convenient for handling and guard against loss in pouring.

Prices—Light, Heavy and Medium Grades

1-Gallon Can	\$0.75
1-gallon cans, packed six cans to case, per case....D.P.	\$6.10
5-Gallon Can	3.50
5-gallon can, packed one can to case, per case....D.P.	\$4.44
½-Barrel Lots, per gallon.....	.38
Per gallon....D.P.	\$0.69
Barrel Lots, per gallon.....	.36
Per gallon....D.P.	\$0.65

Gibson Quality Motor Grease

Gibson Quality Motor Grease is of the right consistency to give the very best results in grease cups, transmissions and at all other points where a high-grade grease is necessary. This grease is guaranteed not to harden or cake. It is an ideal lubricant.

1-Pound Cans	\$0.20
Packed 24 1-pound cans to case, per case....D.P.	\$6.66
5-Pound Cans.....	.90
Packed 6 5-pound cans to case, per case....D.P.	\$6.10
10-Pound Cans.....	1.50
Packed 6 10-pound cans to case, per case....D.P.	\$11.10
25-Pound Can.....	3.00
Packed 1 25-pound can to case, per case....D.P.	\$4.44
Half-Barrels, per pound.....	.10
Per pound....D.P.	\$0.11
Barrels, per pound.....	.09
Per pound....D.P.	\$0.11

Gibson Quality Heavy Transmission Oil

Some motorists and garage men prefer a heavy fluid oil for transmissions, and for this purpose we offer the Gibson Quality Heavy Transmission Oil as being the very best in this class of lubricants.

5-Gallon Cans	\$2.00
5-Gallon Can....D.P.	\$3.33
Half-Barrels, per gallon.....	.45
Half-Barrels, per gallon....D.P.	\$0.58
Barrels, per gallon.....	.42
Barrels, per gallon....D.P.	\$0.53



The GIBSON COMPANY INDIANAPOLIS

VACUUM, OILS AND GREASES

Description of Gargoyle Mobiloils

Gargoyle Mobiloils are the result of long experience by experts in the science of lubrication. The following descriptions cover merely the general distinguishing characteristics of the different grades of Gargoyle Mobiloils.



Gargoyle Mobiloil "A" Medium Body

A dark amber colored oil for cylinder lubrication of water-cooled gasoline engines requiring a rich lubricant. Also for the motor and enclosed chains of electric vehicles, for motorcycles where a medium bodied oil is required and for motorboats. It holds its body under extreme heat.

Gargoyle Mobiloil "B" Heavy Body

For both air and water-cooled gasoline engines where a heavy bodied oil is required. It holds up compression under extreme heat. This oil is especially suitable for lubrication of motorcycle engines and gas tractors.



Gargoyle Mobiloil "E" Light Body

A straw colored oil for cylinder lubrication of a body is required. It flows freely in cold weather. Particularly suited to the lubrication requirements of Ford cars.

Gargoyle Mobiloil "Arctic" Light Medium Body

A light colored oil of intermediate body for both summer and winter lubrication of gasoline engines having close fitting piston rings. It flows freely in the coldest weather.



FOR CYLINDER LUBRICATION

Gargoyle Mobiloil "A," "B," "E" and "Arctic"

	Per Gallon
One gallon can	\$0.80
Per Gallon...D.P. \$1.24	
Ten one gallon cans in case .....	.75
Per Gallon...D.P. \$1.18	
Five gallon can in case .....	.65
Per Gallon...D.P. \$1.02	
Fifteen gallon steel drum with faucet .....	.65
Per Gallon...D.P. \$1.02	
(No charge for drum.)	
Thirty gallon steel drum with faucet .....	.58
Plus \$0.75 for drum	
Per Gallon...D.P. \$0.91	
Fifty-five gallon steel drum with faucet .....	.55
Plus \$1.35 for drum	
Per Gallon...D.P. \$0.84	
Half barrels (wood) .....	.58
Per Gallon...D.P. \$0.91	
Barrels (wood) .....	.55
Per Gallon...D.P. \$0.84	
(Barrels average 50-55 Gal. Half barrels average 28-30 Gal.)	



Gargoyle Mobiloil "C"

A heavy, dark oil for transmission and differential lubrication, especially for ball or roller bearing types, as well as for timing gears and worm gears.

FOR TRANSMISSION AND DIFFERENTIAL

Gargoyle Mobiloil "C"

Per Gallon	Per Gallon
One gallon can	\$0.65
Per Gallon...D.P. \$1.02	
Ten one-gallon cans in case .....	.60
Per Gallon...D.P. \$0.93	
Five-gallon can in case .....	.50
Per Gallon...D.P. \$0.78	
Two five-gallon cans in case	\$0.50
Per Gallon...D.P. \$0.78	
Half barrels .....	.43
Per Gallon...D.P. \$0.69	
Barrels .....	.40
Per Gallon...D.P. \$0.62	

(Barrels average 50 gallons. Half barrels average 28 gallons.)

Gargoyle Mobiloil "CC"

A heavy semi-solid lubricant of dark amber color. It will follow, coat and cushion the gears, allowing them to engage easily without noise, and will prevent unnecessary wear.

One five pound tin, each	\$0.75
Each...D.P. \$1.16	
Ten five pound tins in case, per case ..	7.10
Per Case...D.P. \$11.04	
One ten pound tin in case, per case ...	1.50
Per Case...D.P. \$2.33	
Six ten pound tins in case, per case ...	8.40
Per Case...D.P. \$13.06	
One twenty-five pound tin, each	2.75
Each...D.P. \$4.28	
Half barrels, per pound .....	.083
Per pound...D.P. \$0.13	
Barrels, per pound .....	.08
Per Pound...D.P. \$0.12	



Motogrease and Autosponge

These are excellent greases, light in color, and will give satisfactory results under all general conditions.



Motogrease

Offered in three grades, light, medium and heavy, for the lubrication of transmission and differential gears. Consistencies range from a soft non-fluid grease for the light, to a hard cup grease for the heavy.

Autosponge

Offered in two grades, light and heavy, for the lubrication of transmission and differential gears where a grease of fibrous consistency is preferred.



MOTOGREASE AND AUTOSPONGE PRICES

Barrels, per pound	\$0.11
Per Pound...D.P. \$0.12	
Half barrels, per pound .....	.08
Per Pound...D.P. \$0.12	
One five pound tin, each .....	.75
Each...D.P. \$1.18	
Twelve five pound tins in case, per case ..	6.90
Per Case...D.P. \$10.72	
One twenty-five pound tin in case, per case ..	2.50
Per Case...D.P. \$3.88	
One fifty pound tin in case, per case	4.50
Per Case...D.P. \$7.00	



OILS, ETC.

Non-Fluid Oil



Non-Fluid Oil best protects your motor car investment by preventing wear and loss of power more effectively than other lubricants. Insures most efficient, economical and longest service from cars by overcoming the faults of ordinary greases and oil.

Used and recommended by most motor car manufacturers since first days of motor-ing.

Non-Fluid Oil is not the name of a general class of lubricants, but is a specific product manufactured by New York & New Jersey Lubricant Co. It is identified by sprocket wheel trade-mark above shown.

"K-No. 000" Non-Fluid Oil is of proper consistency for use in Compression Cups on all bearings, for packing Differential Gears, Planetary Transmissions, for Steering Gear Knuckles, Ball and Roller Bearings, Axles and Universal Joints. Lasts longer than any grease.

"K-No. 00-Special" Non-Fluid Oil is softer than the "K-No. 000" grade. Designed particularly for lubricating Sliding Gear Transmissions. It cushions the gear teeth, prevents shocks when changing speeds, prevents abrasion and heating, and assures smooth, quiet running. Ratches and lubricates all shaft bearings.

"K-Forty" Non-Fluid Oil for lubricating Timing Gears. Quiets gears. Won't dry up nor gum. Is not so heavy that the gears plow channels in it, and thereafter get no lubrication; nor so light that it will stew out of gear case.

"A-No. 5" Pump Lubricant. For use in Grease Cups on Circulating Pumps. Is a "waterproof" lubricant. Will not "thin out" and waste. Much cleaner, less expensive than tallow grease.

Prices on all the above.

3-lb. Cans, each	\$0.60
Each...D.P.	\$0.54
5-lb. Cans, each	1.00
Each...D.P.	\$1.40
10-lb. Cans, each	1.75
Each...D.P.	\$2.76
20-lb. Cans, each	3.00
Each...D.P.	\$5.55
50-lb. Cans, each	7.00
Each...D.P.	\$13.88

"K-No. 4" Non-Fluid Oil (Melting Point 488 deg. Fah.). Proves of great value for use under condition where greases melt and waste, especially on bearings or gears located in hot places. This product will "stay by" universal joints on shaft-driven cars when nothing else will

Prices No. 4.

3-lb. Cans, each	\$0.75
Each...D.P.	\$0.97
5-lb. Cans, each	1.25
Each...D.P.	\$1.64
10-lb. Cans, each	2.25
Each...D.P.	\$3.22
20-lb. Cans, each	4.00
Each...D.P.	\$6.44
50-lb. Cans, each	9.50
Each...D.P.	\$16.10

Crum's Spring-Lub



Crum's Spring-Lub makes the springs more lively and resilient, prevents rust and pitting, lessens breakage of springs. Is a perfect lubricant. Is not gummy or greasy, and will not ooze out like oil does. Will not collect dust. Wears smooth, becomes a part of the spring and lasts a long time. Springs need lubrication the same as other working parts. They seldom get it. Unless they are lubricated they corrode between the leaves and become stiff, lose their resiliency and the car rides hard.

Each\$0.75
Dozen...D.P. \$10.00

Crum's Rim-No-Stick



Makes Tire Changing Easy

Prevents Rust or Corrosion

Crum's Rim-No-Stick is a graphite rim paint that dries quickly and prevents tires from sticking to rim. Prevents rust and corrosion, preserves the rim and wears indefinitely. It is easy to apply. Any one can do it. When rims are painted with Rim-No-Stick and a change of tires is desired, it is not necessary to stamp and pound casings to get them off. A tire that is stuck to the rim and taken off by pounding or stamping is injured more than several hundred miles of road wear. If rims are painted with Rim-No-Stick, tires can be easily removed.

Each\$0.50
Dozen...D.P. \$7.22

Three-In-One Oil



Three-In-One Oil is an oil of the highest quality. Especially recommended for magneto bearings, the finest also for bicycles, sewing machines, guns, etc.

One-ounce bottles, each.....\$0.10
Per Dozen...D.P. \$1.77

Three-ounce bottles, each......25
Per Dozen...D.P. \$4.00



The GIBSON COMPANY INDIANAPOLIS

GRAPHITE

Dixon's Graphite Transmission and Differential Grease No. 677



A graphited grease of just the right consistency for all transmission and differential gears, except those intended to be lubricated with light oil. It is the grease the "Speed Kings" use. There is nothing like it on the market. We stand behind this grease with our strongest recommendation.

- 1-lb. Tin Cans, 36 in case, per lb.\$0.35
Per Lb. .D.P. \$0.62
- 5-lb. Tin Pails, 10 in case, per lb.30
Per Lb. .D.P. \$0.53
- 10-lb. Tin Pails, 6 in case, per lb.25
Per Lb. .D.P. \$0.44

Dixon's Graphite Gear Oil No. 675



A very light-bodied gear lubricant for use in transmission and differential cases designed for light oil lubrication. Generally speaking, No. 675 should be used only in cases fitted with plain bearings.

- 1-lb. Tin Cans, 36 in case, per lb.\$0.35
Per Lb. .D.P. \$0.62
- 5-lb. Tin Pails, 10 in case, per lb.30
Per Lb. .D.P. \$0.53
- 10-lb. Tin Pails, 6 in case, per lb.25
Per Lb. .D.P. \$0.44

Dixon's Graphite Heat-Resisting Grease No. 676



No. 676 is the best grease we know of for universal joints, water pump cups, overhead valve cups and clutch thrust collars. It positively will not melt and run out. This grease should not be used on gears.

- 1-lb. Tin Cans, 36 in case, per lb.\$0.35
Per Lb. .D.P. \$0.62
- 5-lb. Tin Cans, 10 in case, per lb.30
Per Lb. .D.P. \$0.53
- 10-lb. Tin Pails, 6 in case, per lb.25
Per Lb. .D.P. \$0.44

Dixon's Motor Graphite

The purest and most carefully selected grade of Flake Graphite, ground to impalpable fineness. May be mixed with oil or grease as required. Its function is to eliminate friction and wear of parts and to increase power. Use it in cylinders, on chains, springs, tires, wheel rims, bearings and wherever friction occurs.



- 1-lb. Tin Cans, 36 in case, each\$0.50
Each. .D.P. \$0.88
- 5-lb. Tin Cans, 10 in case, each 4.00
Each. .D.P. \$7.10

Dixon's Graphite Cup Grease



Cup Greases containing fine Flake Graphite reduce friction to a minimum. In summer use Dixon's No. 5; in winter use Dixon's No. 3. Use in all grease cups, wheel spindles, etc. By using these high grade graphite greases the bearings soon acquire the well known graphite polish that eliminates friction and causes easy running.

- 1-lb. Tin Cans, 36 in case, per lb.\$0.35
Per Lb. .D.P. \$0.62
- 5-lb. Tin Pails, 10 in case, per lb.30
Per Lb. .D.P. \$0.53
- 10-lb. Tin Pails, 6 in case, per lb.25
Per Lb. .D.P. \$0.44

Dixon's Graphitoleo



Pack wheel spindles and steering gear housings with Graphitoleo. It is the highest grade graphite lubricant made for ball bearings and other fine mechanism. Absolutely warranted not to gum or become rancid. The collapsible tubes are very convenient for automobile use.

- 8-oz. Tubes, 36 in case, per doz.\$5.00
Per Dozen. .D.P. \$8.88
- 1-lb. Tin Cans, 36 in case, per lb.55
Per Lb. .D.P. \$0.98
- 5-lb. Tin Pails, 10 in case, per lb.50
Per Lb. .D.P. \$0.88
- 10-lb. Tin Pails, 6 in case, per lb.45
Per Lb. .D.P. \$0.80



GRAPHITE

Dixon's Non-Leak Graphite Grease No. 680



Differential housings of many cars chronically leak at the ends of the axle. No. 680 is the result of several years experimenting with the idea of overcoming this trouble. It is all lubricant, has long life, will not allow gears to cut a path through it like very heavy grease and it does not leak out on the brakes and over the wheels. This special grease should be used only when No. 677 or No. 675 will not stay in the

differential housing. It should not be used in transmissions. Great for Fords.

5-lb. Tin Pails (10 in case), per lb.....	\$0.30
Per lb.....D.P. \$0.53	
10-lb. Tin Pails (6 in case), per lb.....	.25
Per lb.....D.P. \$0.44	
25-lb. Firkin, per lb.....	.23
Per lb.....D.P. \$0.40	
50-lb. Keg, per lb.....	.22
Per lb.....D.P. \$0.36	

Dixon's Graphite Wood Fiber Grease No. 688

A graphited gear lubricant containing a certain proportion of finely ground cedar fiber. It is prepared especially for noisy gears and leaky housings and is not intended for general use. No. 688 will prevent disagreeable noise and will not drip from the housing. It must be thinned before using.



1-lb. Tin Cans (36 in case), per lb.....	\$0.25
Per lb.....D.P. \$0.44	
5-lb. Tin Pails (10 in case), per lb.....	.20
Per lb.....D.P. \$0.36	
10-lb. Tin Pails (6 in case), per lb.....	.20
Per lb.....D.P. \$0.36	
25-lb. Tin Pails, per lb.....	.19
Per lb.....D.P. \$0.33	
50-lb. Kegs, per lb.....	.18
Per lb.....D.P. \$0.32	
100-lb. Kegs, per lb.....	.17
Per lb.....D.P. \$0.30	

Dixon's Graphite Motor Chain Compound



Dixon's Chain Graphite

Without an equal for lubricating automobile driving chains. When chain is cleaned and immersed in the melted compound no other external or internal applications are necessary. The compound may be used repeatedly. Prevents rust and wear. Put up in cakes of about three pounds each.

Per cake.....	\$1.00
Per cake.....D.P. \$1.76	

Gredag



This is the only grease lubricant that contains pure, gritless Acheson-Graphite. It is made in the various grades and consistencies to meet all requirements. Gredag is an ideal lubricant for automobile gears, transmissions and universal joints, as it has greater endurance and affords better lubrication. It builds a film that will not break under the pressure when full power is suddenly thrown upon the gears. The teeth will silently engage in mesh and the car will run quietly and sweetly. It will reduce friction and prevent wear.

The grades of Gredag strongly recommended for automobile use are: No. 31, semi-fluid; No. 32, soft; No. 33, medium. Either grade of Gredag will serve for a wider range of uses than plain grease.

Price of grades 31, 32 and 33:

5-lb. Can, per lb.....	\$0.25	100-lb. Keg, per lb.....	\$0.17
Per lb.....D.P. \$0.39		Per lb.....D.P. \$0.27	
10-lb. Can, per lb.....	.24	200-lb. Barrel, per lb.....	.16
Per lb.....D.P. \$0.38		Per lb.....D.P. \$0.27	
25-lb. Can, per lb.....	.21	400-lb. Barrel, per lb.....	.15
Per lb.....D.P. \$0.36		Per lb.....D.P. \$0.24	
50-lb. Can, per lb.....	.20		
Per lb.....D.P. \$0.33			

Oildag

No lubricant equals it for use in automobile cylinders. This new lubricant is deflocculated graphite diffused in oil. Deflocculated graphite is finer than dust breathed from the atmosphere. It brings a new principle and new possibilities to the field of lubrication, and marks a modern advance in keeping with the progress made in the power and machine fields.



No. 1 Screw-Top Can, containing charge for 1 gallon oil, each.....	\$0.25
Each.....D.P. \$0.33	
No. 1 Screw-Top Can, one dozen in a box, by the dozen.....	2.50
Per dozen.....D.P. \$3.88	
Case contains 6 or 12 dozen No. 1 cans.	
No. 5 Screw-Top Can, containing charge for 5 gallons oil, each.....	1.00
Each.....D.P. \$1.66	
Case contains 20 No. 5 cans.	
No. 10 Screw-Top Can, containing charge for 10 gallons oil, each.....	2.00
Each.....D.P. \$3.32	
Case contains 10 or 25 No. 10 cans.	
No. 50 Can, containing charge for 50 gallons oil, each.....	10.00
Each.....D.P. \$16.60	
Case contains 5, 10 or 25 No. 50 cans.	



The GIBSON COMPANY INDIANAPOLIS

OIL AND GREASE GUNS

Standard Oil Guns



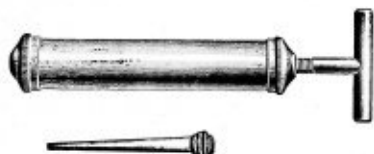
No. 32 B

No. 32 B Standard Oil Gun, 1 1/4 x 8, brass barrel, crook-neck handle, 5-inch bent nozzle, each... \$0.60
Each... D.P. \$0.77 Dozen... D.P. \$8.33



No. 33 P

No. 33 P Standard Oil Gun, 1 1/4 x 8, brass barrel, cork plunger and metal handle with finger clips, each .90
Each... D.P. \$1.32 Dozen... D.P. \$14.44



No. 34 B Standard Grease Gun, 1 1/4 x 10, brass barrel with screw rod, 4 threads to inch, allowing quick action, 4-inch straight spout with large opening cork, plunger and metal handle, each... 1.10
Each... D.P. \$1.55 Dozen... D.P. \$17.11

Pioneer Grease Gun



Pioneer Grease Gun, 1 1/4 x 10, brass barrel, spout turns in all directions, will handle heaviest grease, each... 1.50
Each... D.P. \$2.22 Dozen... D.P. \$24.00

A New Grease Gun



Jumbo Combination Grease and Oil Gun

We offer here a high-grade Combination Grease and Oil Gun, made of extra heavy sheet brass. The barrel is 11 inches long and 2 1/4 inches in diameter and weighs 1 1/2 pounds. Capacity 13 ounces.

The change from grease to oil is quickly made by turning the small thumb nut by hand. Note the combination spout which is curved and conveniently arranged.

The gun is high-grade in every respect; has a large cork plunger and a rapid feed for grease.

Price \$2.25
Each... D.P. \$3.88 Dozen... D.P. \$44.00

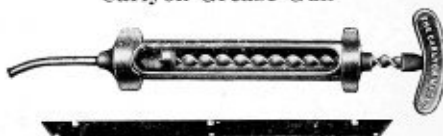
Townsend Grease Gun



It can be filled—others cannot. It is filled through an opening in its side 1 1/2 inches wide and 8 inches long, while others are supposed to be filled from the end, which is impossible, as when a spoonful or two has been put in, the opening becomes stopped up with a pocket of air behind it and no more can be crammed in.

Townsend Grease Gun, 6 oz., each \$3.00
Each... D.P. \$5.00
Townsend Grease Gun, 8 oz., each 3.50
Each... D.P. \$5.82
Townsend Grease Gun, 12 oz., each 4.00
Each... D.P. \$6.66
Townsend Grease Gun, 16 oz., each 5.00
Each... D.P. \$8.33

Carlyon Grease Gun



Carlyon Grease Guns embody entirely new ideas in grease guns. Two revolving cylinders. One-half turn opens or closes entire side. Requires but ten seconds to fill. Seven turns of the handle unloads heaviest grease. Simple, efficient, clean. Each \$1.50
Each... D.P. \$2.44

Bigsby Grease Gun



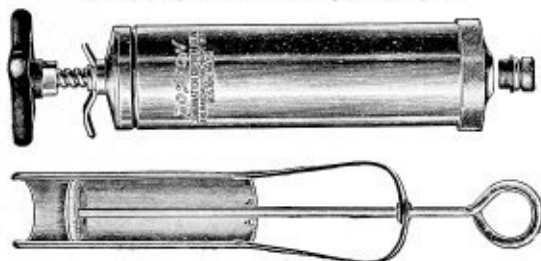
The Bigsby Automatic Grease Gun for forcing heavy grease or lubricants into the working parts of automobiles, engines, gear cases and all other kinds of machinery. Makes it possible to oil wearing parts not readily accessible, thereby reducing repair bills to the minimum. Any machine may be oiled without special effort or waste of lubricants. Grease cups may be filled with the heaviest grease. Wearing parts requiring lubrication are easily oiled. Gasoline may be drawn from the fuel tank for priming purposes. An oil nozzle in addition to the regular curved grease spout is supplied with every gun. Easy to operate—simply pull the trigger.

Each \$3.00
Each... D.P. \$5.00 Dozen... D.P. \$56.00



GREASE GUNS, BUCKET PUMPS AND RADIATOR COMPOUNDS

Boston Combination Grease Gun



Filler for Boston Grease Gun

All metal construction. The cleanest, strongest and handiest grease gun on the market. Polished brass, lacquered. Metal plunger ground to a perfect fit. The gun for the man who really cares. Prices include B-Line Grease Filler and two tips.

- Boston Combination Grease Gun, 6-ounce, 6x1 $\frac{1}{2}$ -inch, each**\$3.00
Each...D.P. \$5.00
- Boston Combination Grease Gun, 9-ounce, 8 $\frac{1}{2}$ x1 $\frac{1}{2}$ -inch, each** 3.50
Each...D.P. \$5.82
- Boston Combination Grease Gun, 12-ounce, 11x1 $\frac{1}{2}$ -inch, each** 4.00
Each...D.P. \$6.66
- Boston Combination Grease Gun, 16-ounce, 8 $\frac{1}{2}$ x2 $\frac{1}{2}$ -inch, each** 6.00
Each...D.P. \$10.00

Weaver Valveless Bucket Pump

FOR ENGINE OILS AND HEAVY GREASES



One great advantage of the Weaver Bucket Pump is the fact that the valveless construction permits lubricants to be handled in "three ways."

FIRST—The lubricant can be forced out of the bucket and into the desired receptacle.

SECOND—Grease or oils can be sucked out of the differential, transmission housing, etc.

THIRD—The barrel or chamber of the bucket may be sucked full of foreign lubricant and discharged again through the hose into a third receptacle without disturbing the contents of the bucket.

Self-Measuring

The lubricant is accurately measured as discharged.

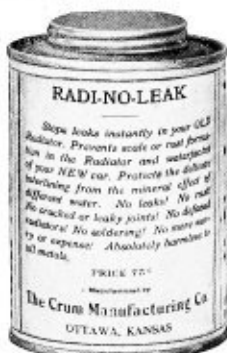
Steel Hose

The Weaver Bucket Pump is equipped with $\frac{3}{8}$ -inch flexible steel hose which cannot be affected by the grease, as is the case with the rubber hose.

Construction

The bucket proper is made of heavy sheet iron and has a capacity of 25 pounds of grease. The cylinder is of 16-gauge brass tubing, two-inch diameter, containing a plunger which will not leak and is impervious to the action of grease and oils.

- Each\$12.00
Each...D.P. \$21.33



Radi-No-Leak

Radi-No-Leak is an absolutely reliable radiator compound. Stops leaks instantly and prevents formation of scale or rust.

- Price, per can.....\$0.75
Dozen...D.P. \$9.44

Se-Ment-Ol

Se-Ment-Ol is a self-acting cement for repairing leaky radiators and cracked water jackets. When poured into the radiator it dissolves in the water, circulates through the cooling system and flows out through the leak. When the Se-Ment-Ol comes in contact with the air in coming through the leak it congeals, forming a clot which stops the leak. This clot hardens, making a permanent repair.

After the cement has "set" the remainder of the Se-Ment-Ol can be drained out through the pet cock, leaving the entire cooling system free from foreign substance.

By using Se-Ment-Ol you can repair leaks while using your car.

Se-Ment-Ol is put up in lithographed cans, each can containing enough Se-Ment-Ol to repair two radiators of ordinary size.

- Retail Price, each.....\$0.75
Per dozen...D.P. \$10.66



Blue Ribbon Radiator Cement

When poured into the radiator the cement dissolves thoroughly, and as the solution comes into contact with the air at the leak point it immediately closes the fracture and mends it by forming a permanent and lasting cement filling.

This cement cleans out the circulating system and prevents scale and rust from forming. This preserves the metal and increases the cooling capacity.

- 9-ounce Package, per can.....\$0.75
Per dozen...D.P. \$8.33



The GIBSON COMPANY INDIANAPOLIS

VALVE GRINDING COMPOUNDS

Clover Valve Grinding Compound



Duplex 4oz. Can 40¢

For grinding valves, lapping out cylinders, grinding pistons into cylinders, grinding together gearing, roughing - in work, grinding shafts into bearings, polishing, etc.

A scientific mixture of abrasive and hard petroleum cutting oil. Ready for use as sold.

Contains no emery or grit, and having no magnetic properties, it will not remain in the pores of cast iron after grinding.

Will not melt or run in temperatures under 200 degrees.

Clover Valve Grinding Compound, 4-oz. boxes, fine and coarse, each\$0.40
Dozen. .D.P. \$7.22

Clover Valve Grinding Compound, 1-lb. boxes, fine, each 1.25

Clover Valve Grinding Compound, 1-lb. boxes, medium, each 1.25

Clover Valve Grinding Compound, 1-lb. boxes, coarse, each 1.25

Each. .D.P. \$1.95

Eureka Valve Grinding Compound

The Eureka Valve Grinding Compound will grind valves that are in the worst possible condition, and do it without scratching or grooving. Eureka is put up in boxes containing three grades—coarse, medium and fine.



Price\$0.35

Dozen. .D.P. \$6.66

Carborundum Valve Grinding Compound In Combination Cans



No. G-20 Carborundum Valve Grinding Compound in 2-ounce combination cans. The can, 2 inches high, 1 1/2-inch diameter, is divided into two distinct compartments, one containing fine, the other coarse compound.

Carborundum Valve Grinding Compound is a superior material for valve grinding. It cuts fast and clean, leaving a smooth, uniform surface. The coarse compound is used first for roughing in the valve; the fine compound then gives the valve seat a perfectly true polished surface.

Each\$0.25

Dozen. .D.P. \$1.44

Carborundum

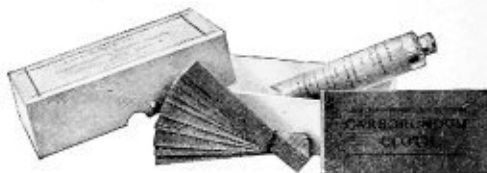


For the convenience of the motor supply dealer, the garage and repair station owner, and for use in the machine shop, the Carborundum Valve Grinding Compound is put up in one and five-pound cans of the coarse and fine mixtures.

The coarser compound is used first in grinding the valve. It quickly removes all pits or masses of any foreign matter. The finer compound is then used in giving the valve seat a perfectly true, polished surface.

1-lb. tin Carborundum Compound, coarse or fine...\$0.50
Each. .D.P. \$0.77

5-lb. tin Carborundum Compound, coarse or fine... 2.00
Each. .D.P. \$3.00



Carborundum Valve Grinding Compound is the best medium possible for motor valve grinding. Its use positively assures a perfect valve.

Outfit No. 1, containing two collapsible tubes, cloth strips and booklet, packed in neat cardboard box, complete\$0.75
Dozen. .D.P. \$13.33

Outfit No. 2, containing two half-pound tins, coarse and fine grain, cloth strips, booklet, packed in neat cardboard box75
Dozen. .D.P. \$13.33



Carborundum Valve Grinding Compound is also put up in separate tubes containing fine or coarse paste, as desired. In this form it is most convenient for the individual car owner.

Carborundum Valve Grinding Compound, fine, in tubes, each.....\$0.25
Dozen. .D.P. \$4.44

Carborundum Valve Grinding Compound, coarse, in tubes, each..... .25
Dozen. .D.P. \$4.44





PRIMERS AND PET COCKS

Priming Cups

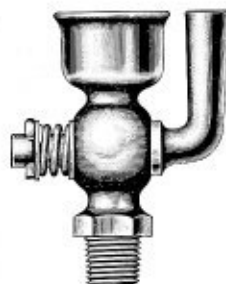


Nos. 1 and 2

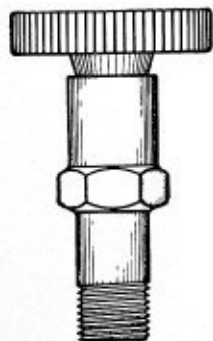


Nos. 3 and 4

- No. 1 Priming Cup, upright long shank, $\frac{1}{4}$ -in. pipe thread, each \$0.35
 Dozen. . D.P. \$4.80
- No. 2 Priming Cup, upright long shank, $\frac{1}{4}$ -in. pipe thread, each35
 Dozen. . D.P. \$5.33
- No. 3 Priming Cup, angle long shank, $\frac{1}{4}$ -in. pipe thread, each35
 Dozen. . D.P. \$5.86
- No. 4 Priming Cup, angle long shank, $\frac{1}{4}$ -in. pipe thread, each35
 Dozen. . D.P. \$6.40



- No. 5 Priming Cup, upright short shank, $\frac{1}{4}$ -in. pipe thread, each \$0.35
 Dozen. . D.P. \$4.53
- No. 6 Priming Cup, upright short shank, $\frac{1}{4}$ -in. pipe thread, each35
 Dozen. . D.P. \$4.80



No. 34

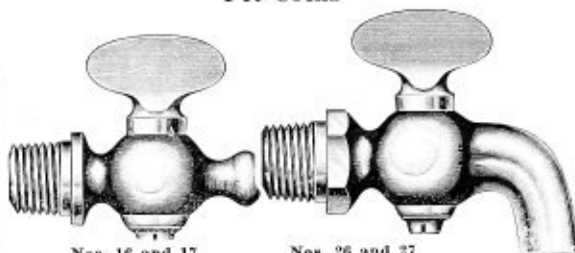


No. 35

Ideal Priming Cups

- This Priming Cup is a radical departure from the old style priming cups now on the market and is designed on the needle valve principle.
- No. 34 Ideal Priming Cups, $\frac{1}{8}$ -in., brass, each \$0.50
 Dozen. . D.P. \$6.00
- No. 34 Ideal Priming Cups, $\frac{1}{8}$ -in., nickel, each55
 Dozen. . D.P. \$7.46
- No. 35 Ideal Priming Cups, $\frac{1}{8}$ -in., brass, each60
 Dozen. . D.P. \$8.00
- No. 35 Ideal Priming Cups, $\frac{1}{8}$ -in., nickel, each65
 Dozen. . D.P. \$8.53

Pet Cocks



Nos. 16 and 17 Nos. 26 and 27

- No. 16 Pet Cock, $\frac{1}{4}$ -in. pipe thread, each \$0.25
 Dozen. . D.P. \$3.73
- No. 17 Pet Cock, $\frac{1}{4}$ -in. pipe thread, each25
 Dozen. . D.P. \$4.26
- No. 26 Pet Cock, bibb nose, $\frac{1}{4}$ -in. pipe thread, each35
 Dozen. . D.P. \$6.40
- No. 27 Pet Cock, bibb nose, $\frac{1}{4}$ -in. pipe thread, each40
 Dozen. . D.P. \$7.46

Shut-off Cocks



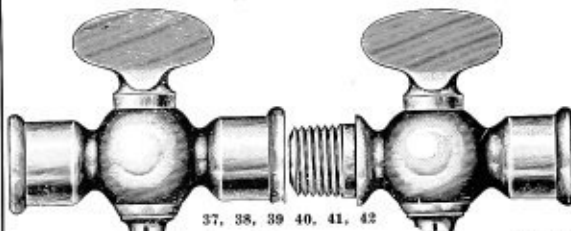
Nos. 110 and 111



Nos. 10 and 11

- No. 10 Shut-off Cock, $\frac{1}{4}$ -in. pipe thread and $\frac{1}{2}$ -in. tubing, each \$0.60
 Dozen. . D.P. \$8.00
- No. 11 Shut-off Cock, $\frac{1}{4}$ -in. pipe thread and $\frac{3}{8}$ -in. tubing, each60
 Dozen. . D.P. \$8.88
- No. 110 Shut-off Cock, both ends for $\frac{1}{4}$ -in. tubing, each60
 Dozen. . D.P. \$9.60
- No. 111 Shut-off Cock, both ends for $\frac{3}{8}$ -in. tubing, each60
 Dozen. . D.P. \$9.60

Air Cocks



37, 38, 39 40, 41, 42

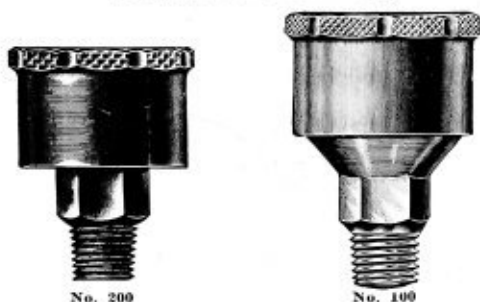
- No. 37 Air Cock, $\frac{1}{2}$, each \$0.65
 Dozen. . D.P. \$6.13
- No. 38 Air Cock, $\frac{1}{2}$, each70
 Dozen. . D.P. \$6.66
- No. 39 Air Cock, $\frac{1}{2}$, each85
 Dozen. . D.P. \$8.00
- No. 40 Air Cock, $\frac{1}{2}$, each75
 Dozen. . D.P. \$6.93
- No. 41 Air Cock, $\frac{1}{2}$, each80
 Dozen. . D.P. \$7.46
- No. 42 Air Cock, $\frac{1}{2}$, each90
 Dozen. . D.P. \$8.00



The GIBSON COMPANY INDIANAPOLIS

GREASE CUPS

Compression Grease Cup



- No. 700 Compression Grease Cup, 3/4 inch inside diameter, 1/4 ounce capacity, 3/4-inch pipe thread, plain steel, each \$0.15
Dozen . . . D.P. \$1.32
- No. 701 Compression Grease Cup, 1 inch inside diameter, 1/2 ounce capacity, 1/2-inch pipe thread, plain steel, each18
Dozen . . . D.P. \$1.50
- No. 702 Compression Grease Cup, 1 1/4 inch inside diameter, 2/3 ounce capacity, 1/2-inch pipe thread, plain steel, each20
Dozen . . . D.P. \$2.00
- No. 99 Compression Grease Cup, 3/4 inch inside diameter, 1/2 ounce capacity, 1/2-inch pipe thread, brass, each25
Dozen . . . D.P. \$2.55
- Same in nickeled finish, each..... .30
Dozen . . . D.P. \$4.11
- No. 100 Compression Grease Cup, 1 inch inside diameter, 1/2-inch pipe thread, brass, capacity 1/2 ounce, each30
Dozen . . . D.P. \$3.11
- Same in nickeled finish, each..... .35
Dozen . . . D.P. \$4.44
- No. 101 Compression Grease Cup, 1 1/4 inch inside diameter, 1-inch pipe thread, brass, capacity 2/3 ounces, each35
Dozen . . . D.P. \$4.66
- Same in nickeled finish, each..... .40
Dozen . . . D.P. \$5.77
- No. 200 Compression Grease Cup, with leather washer, 3/4 inch inside diameter, 1/2-inch pipe thread, brass, capacity 1/2 ounce, each30
Dozen . . . D.P. \$3.00
- Same in nickeled finish, each..... .35
Dozen . . . D.P. \$4.88
- No. 201 Compression Grease Cup, with leather washer, 1 inch inside diameter, 1/2-inch pipe thread, brass, capacity 1/2 ounce, each30
Dozen . . . D.P. \$3.55
- Same in nickeled finish, each..... .35
Dozen . . . D.P. \$5.33
- No. 202 Compression Grease Cup, with leather washer, 1 1/4 inch inside diameter, 1/2-inch pipe thread, brass, capacity 2/3 ounce, each35
Dozen . . . D.P. \$4.88
- Same in nickeled finish, each..... .40
Dozen . . . D.P. \$5.88



- No. 299 Ratchet Compression Grease Cup, 3/4 inch inside diameter, 1/2-inch pipe thread, polished brass, capacity 1/4 ounce, each40
Dozen . . . D.P. \$5.77
- Same in nickeled finish, each... .45
Dozen . . . D.P. \$7.77
- No. 300 Ratchet Compression Grease Cup, 1 inch inside diameter, 3/4-inch pipe thread, polished brass, capacity 1/2 ounce, each45
Dozen . . . D.P. \$7.10
- Same in nickeled finish, each... .50
Dozen . . . D.P. \$8.88
- No. 301 Ratchet Compression Grease Cup, 1 1/4 inch inside diameter, 1/2-inch pipe thread, polished brass, capacity 2/3 ounce, each55
Dozen . . . D.P. \$8.55

Same in nickeled finish, each 40
Dozen . . . D.P. \$9.55

Brass and Steel Ratchet Grease Cups

- No. 800 Winkley Ratchet Compression Grease Cups, 1 inch inside diameter, 1 ounce capacity, 1/2 inch pipe thread, plain steel, each \$0.20
Dozen . . . D.P. \$2.12
- No. 801 Winkley Ratchet Compression Grease Cups, 1 inch inside diameter, 1/2 ounce capacity, 1/2 inch pipe thread, plain steel, each22
Dozen . . . D.P. \$2.44
- No. 802 Winkley Ratchet Compression Grease Cups, 1 1/2 inch inside diameter, 2/3 ounce capacity, 1/2 inch pipe thread, plain steel, each25
Dozen . . . D.P. \$3.00
- No. 900 Winkley Ratchet Compression Grease Cups, 1 inch inside diameter, 1 ounce capacity, 1/2 inch pipe thread, dull brass, each30
Dozen . . . D.P. \$3.88
- No. 901 Winkley Ratchet Compression Grease Cups, 1 inch inside diameter, 1/2 ounce capacity, 1/2 inch pipe thread, dull brass, each32
Dozen . . . D.P. \$4.06
- No. 902 Winkley Ratchet Compression Grease Cups, 1 1/2 inch inside diameter, 2/3 ounce capacity, 1/2 inch pipe thread, dull brass, each35
Dozen . . . D.P. \$5.08



De Luxe Grease Cups



The DeLuxe is a T-handle compression cup with the plunger threaded on the handle stem and held in place by a collar and groove. This overcomes the objection to this type of cup, as the handle does not protrude when cup is full. Base of cup forms hexagon for wrench and allows of cup fitting flush with article to which attached. Finish is blued steel base with polished nickel or brass body, making a very attractive as well as a strictly high grade cup.

- No. 000 DeLuxe Grease Cup, 5/8-inch inside diameter, 1/2 ounce capacity, 1/2-inch pipe thread, nickel finish, each \$0.60
Dozen . . . D.P. \$9.00
- No. 00 DeLuxe Grease Cup, 3/4 inch inside diameter, 1/2 ounce capacity, 1/2-inch pipe thread, nickel finish, each80
Dozen . . . D.P. \$9.50
- No. 0 DeLuxe Grease Cup, 15/16 inch inside diameter, 1/3 ounce capacity, 1/2-inch pipe thread, nickel finish, each 1.00
Dozen . . . D.P. \$12.00
- No. 1 DeLuxe Grease Cup, 3/4 inch inside diameter, 1/2 ounce capacity, 1/2-inch pipe thread, nickel finish, each. 1.25
Dozen . . . D.P. \$16.00



No. 1101



No. 1104

- No. 1101 Grease Cup, nickeled finish, 1/2-inch pipe thread, capacity, 1 ounce, each \$0.20
Dozen . . . D.P. \$2.93
- No. 1102 Grease Cup, nickeled finish, 5/16x32 thread, capacity 1 ounce, each20
Dozen . . . D.P. \$2.93
- No. 1103 Grease Cup, nickeled finish, 1/4x32 thread, capacity 1 ounce, each20
Dozen . . . D.P. \$2.93
- No. 1104 Grease Cup, nickeled finish, 1/2-inch pipe thread, capacity 1 ounce, each30
Dozen . . . D.P. \$4.26



OIL CUPS, SAND PAPER, ALOXITE CLOTH AND CARBORUNDUM WHEELS

Style N Oil Cups



"4-N" Closed and Open

Often an oil cup is to be used in a horizontal or oblique position and in such a place our style "N" may be used as it can be screwed into a tapped hole at almost any angle so that the oil hole is on top.

Our "N" Cup is made with a spring friction fit between inner and outer part, furnishing a smooth working, dust-proof cap which can be turned either way to open but will not jar open.

No. 1-N Oil Cup, Nickel, $\frac{1}{4}$ -in. diameter, 32 thread, each	\$0.10
Dozen.. D.P. \$1.46	
No. 2-N Oil Cup, Nickel, $\frac{3}{8}$ -in. diameter, 32 thread, each .....	.12
Dozen.. D.P. \$1.88	
No. 3-N Oil Cup, Nickel, $\frac{1}{2}$ -in. diameter, 24 thread, each .....	.15
Dozen.. D.P. \$2.00	
No. 3-N Oil Cup, Brass, $\frac{1}{2}$ -in. diameter, 24 thread (Ford Size), each .....	.15
Dozen.. D.P. \$1.11	
No. 4-N Oil Cup, Nickel, $\frac{7}{16}$ -in. diameter, 24 thread, each .....	.20
Dozen.. D.P. \$2.44	

Sand Paper



B. & A. Sand Paper

Sheets 9x11. 24 sheets in quire, 20 quires in ream.

B. & A. Sand Paper, 2/0, per quire	\$0.25
Per Quire.. D.P. \$0.33	
B. & A. Sand Paper, 0, per quire .....	.25
Per Quire.. D.P. \$0.33	
B. & A. Sand Paper, $\frac{1}{2}$, per quire .....	.25
Per Quire.. D.P. \$0.33	
B. & A. Sand Paper, 1, per quire .....	.30
Per Quire.. D.P. \$0.35	
B. & A. Sand Paper, $1\frac{1}{2}$, per quire .....	.30
Per Quire.. D.P. \$0.35	
B. & A. Sand Paper, 2, per quire .....	.30
Per Quire.. D.P. \$0.35	
B. & A. Sand Paper, 2 $\frac{1}{2}$, per quire .....	.35
Per Quire.. D.P. \$0.40	
B. & A. Sand Paper, 3, per quire .....	.35
Per Quire.. D.P. \$0.40	

Aloxite Cloth



Aloxite is a new abrasive material manufactured by The Carborundum Company. It is the ideal abrasive for steel cutting, and when coated on cloth it is far superior to emery for general machine shop work. Aloxite is exceedingly hard and extremely tough, and it not only does better and faster work than emery, but the Aloxite Cloth, because of the toughness of the grain, shows much longer life.

ALOXITE CLOTH IN HANDY PACKAGES.

For the convenience of all users of Aloxite Cloth, the Handy Package meets a long felt want. Each envelope contains six 9x11-inch sheets of any desired grits.

Aloxite Cloth, Handy Package, each

Each.. D.P. \$0.44

ALOXITE CLOTH STRIPS.

No. 66 Aloxite Cloth Strips, 15 strips, $1\frac{1}{2}$ x11, assorted, coarse, medium and fine; per package ..

Per Package.. D.P. \$0.25

In ordering state grits wanted.

Aloxite Cloth, Crocus, per quire	\$1.55
Aloxite Cloth, F, per quire	1.55
Aloxite Cloth, 2/0, per quire	1.55
Aloxite Cloth, 0, per quire	1.55
Per quire.. D.P. \$1.90	
Aloxite Cloth, 1, per quire	1.65
Per quire.. D.P. \$2.10	
Aloxite Cloth, $1\frac{1}{2}$, per quire	1.75
Per quire.. D.P. \$2.22	
Aloxite Cloth, 2, per quire	1.90
Per quire.. D.P. \$2.44	

Carborundum Wheels



Carborundum Wheels, 4 inch diameter, 1 inch thick, $\frac{1}{2}$ inch arbor hole. Each.....	D.P. \$1.60
Carborundum Wheels, 4 inch diameter, $\frac{3}{4}$ inch thick, $\frac{1}{2}$ inch arbor hole. Each.....	D.P. 1.35
Carborundum Wheels, 6 inch diameter, 1 inch thick, $\frac{3}{4}$ inch arbor hole. Each.....	D.P. 3.05
Carborundum Wheels, 6 inch diameter, $\frac{3}{4}$ inch thick, $\frac{3}{4}$ inch arbor hole. Each.....	D.P. 2.40
Carborundum Wheels, 8 inch diameter, 1 inch thick, 1 inch arbor hole. Each.....	D.P. 4.60
Carborundum Wheels, 10 inch diameter, 1 inch thick, 1 inch arbor hole. Each.....	D.P. 6.35
Carborundum Wheels, 10 inch diameter, $1\frac{1}{2}$ inch thick, 1 inch arbor hole. Each.....	D.P. 7.70
Carborundum Wheels, 12 inch diameter, $1\frac{1}{2}$ inch thick, $1\frac{1}{2}$ inch arbor hole. Each.....	D.P. 9.00

The above are all 80 grit, which is suitable for general work.



The GIBSON COMPANY INDIANAPOLIS

TORCHES, FIRE POTS AND BRAZERS

No. 31 Torch (Quart Size)

Has No Equal Where Intense Heat Is Desired



This quart torch makes a perfect fire, whether employed indoors or out, in hard wind or extreme cold. A strong blast heat is generated by a powerful burner and the resulting blue flame is a joy to the user. Every desired adjustment is quickly made. A surprisingly small amount of gasoline is required compared with the results obtained in heat efficiency. The torch creates a good impression the minute it is handled, being strong, exceedingly well built and handsomely finished. If durability and service are what you want, the No. 31 will certainly please you.

Each \$5.25
Each... D.P. \$8.44

No. 32 Torch (Quart Size)

No. 32 has every feature in construction and finish found in No. 31, with the added advantage, for repairmen, of a hook and support on the burner for holding soldering coppers.

Each \$5.50
Each... D.P. \$8.88

No. 47 Torch (Pint Size)

1 3/4 in. thick by 5 in. long. Stands with burner, 8 in. high



Having a practical knowledge of the requirements of automobile users, we have designed the No. 47 Torch especially for them. They will find it a carefully constructed torch amply suited to their needs. It is oblong, being 1 3/4 in. thick, 5 in. long and stands 8 in. high, complete with burner. It is fitted with a special burner, which is light, yet sufficiently powerful to generate a flame adapted to all requirements.

Each \$5.40
Each... D.P. 9.77

No. 48 Torch (Pint Size)

No. 48 is like No. 47, except that the burner has a hook and support for soldering coppers, convenient for repairmen.

Each \$5.65
Each... D.P. \$10.22

No. 112 Torch (Quart Size)

The No. 112 is a very good Torch for the price. While not as good, in our judgment, as others that have our patented automatic brass pump, it is as good as any Torch having pump with single spring.



The burner is made of bronze metal, with metal wheel handle and heavy stuffing box on needle, which prevents leakage. The tank is made of heavy brass and will give the user good results. The No. 112 produces a steady flame of intense heat, and is supplied with detachable soldering copper attachment without added charge.

Each \$4.25
Each... D.P. \$7.12

No. 114 Torch (Pint Size)

The No. 114 is similar to No. 112, except pint size. Same style of pump and detachable soldering iron attachment, as shown in cut.

Each \$4.00
Each... D.P. \$6.66



No. 1 Fire Pot (Seven Pints)

The Greatest General Utility Fire Pot Made



For tinner, galvanized iron and copper workers, plumbers and electricians. The No. 1 Fire Pot is 12 1/2 inches high, 9 3/4 inches diameter at base, and 6 3/4 inches at top. The tank is made of heavy galvanized iron, thoroughly braced to withstand hard usage, and lasts much longer than if made of brass or any other material. The burner (at the expense of only half the gasoline required in other makes) represents the highest development in generating power and heat efficiency, quickly producing an ideal blue flame entirely free from smoke, easily regulated, giving satisfactory results under all reasonable conditions, including windy or cold weather.

The burner is swiveled, which permits moving the flame up or down, and fitted with cleanout plugs, thus being easily kept clean. With the No. 1 the heaviest irons are thoroughly heated in half the time required by other makes, the flame being so directed that the heel of the copper is in the hottest part of the flame. A pair of 12-lb. soldering coppers can be heated, and a kettle of lead or solder melted at the same time. The top section can be removed, thus producing an open fire.

No. 1 Galvanized Iron Tank, each \$9.00
Each... D.P. \$13.32

No. 5 Fire Pot (Five Pints)

The No. 5 is an exact duplicate of the No. 1, only smaller, being about two-thirds its size. Height over all, 12 inches; diameter at base, 8 3/4 inches and at top, 6 inches. Tank is made of heavy galvanized iron and holds 5 pints. Top section is large enough to easily handle a pair of 8-lb. coppers and a 5-inch metal pot at the same time. The burner produces a pure blue flame, intensely hot, using but little gasoline (less than half required by some makes). While the No. 5 is not as large and powerful as the No. 1, still it will do any work any other make of fire pot will do, and much that cannot be done with them. By removing the top section, the base may be used as a torch or brazing fire, enabling the user to accomplish any work any torch will do.



No. 5 Galvanized Iron Tank, each \$6.75
Each... D.P. \$10.00

No. 105 Brazier (For Gasoline)



The No. 105 Brazier is designed for heavy brazing, pre-heating surfaces, tempering, and for use in the garage and in general repair shops and factories. The burner is fitted with a powerful generator that superheats the gas, producing a perfect blue flame of intense heat, and is swiveled, enabling the operator to point the flame in any direction desired as indicated, and hold it there. The tank is 10-gallon capacity, made with welded seams and galvanized inside and out.

The No. 105 Brazier is operated under working pressure of 75 pounds, produced by a powerful, compound, detachable brass pump, and can be operated, if desired, by compressed air. The adjustable brazing tripod, as illustrated, is furnished with the complete Brazier.

Shipping weight, 130 pounds. Capacity, 10 gallons.
No. 105—Complete with tripod, as illustrated, each.....\$37.50
Each... D.P. \$55.50
Brazier—Complete without brazing tripod, each 33.00
Each... D.P. \$48.84
Tank—Complete with pump, gauge and filler plug, each. 20.10
Each... D.P. \$29.75
Brazing Tripod—Complete, each..... 7.50
Each... D.P. \$11.10
Burners only, each..... 12.00
Each... D.P. \$17.76



SOLDER, BRAZING COMPOUND, ETC.

Wire Solder



No. 10 Wire Solder

This comes on large spools. Cut any amount.

Per Pound.....\$0.60
Per Pound...D.P. \$0.80

Bar Solder



Half and Half Solder, per pound.....\$0.60
Per Pound...D.P. \$0.88

Reinhold "No Flux" Aluminum Solder



100% Efficiency

This solder is recognized as the highest standard. Is scientifically compounded, and the result of exhaustive investigation. Not to be compared with the aluminum solders, so termed, which are prepared from random mixtures and uncertain formulas.

Any person can use the Reinhold Solder with an ordinary, clean soldering iron, blow-pipe or gasoline torch. The fact that it does not require an expert to use it is a strong point in its favor.

We are in position to meet every known need for Aluminum Solder and list in the following the regular and special mixtures:

No. 1 Reinhold No Flux Aluminum Solder, 4 oz. bar, each \$1.00
Each...D.P. \$1.11

No. 2 Reinhold No Flux Aluminum Solder, 2 oz. bar, each .50
Each...D.P. \$0.60

No. 5 Reinhold No Flux Aluminum Solder, 8 oz. bar, each 2.00
Each...D.P. \$2.22

Soldering Coppers



Soldering Coppers, 3 lb., each\$0.65
Each...D.P. \$1.22

Soldering Coppers, 1 lb., each80
Each...D.P. \$1.44

Soldering Coppers, 1/2 lb., each 1.25
Each...D.P. \$2.44

Spelter



Wire Spelter, 9 gauge, per pound\$0.75
Per Pound...D.P. \$1.11



Soft Grain Brazing Spelter, per pound\$0.65
Per Pound...D.P. \$1.00

Wonder Worker Brazing Compound



Every repair shop, no matter how small or remote, finds use for a brazing compound that will actually braze cast iron with surety.

It will be no longer necessary to send castings or ordinary joints to the factory to be made, as the above will do the work in ten minutes, at a very low cost.

This compound is a high grade article, and will insure a clean, bright and secure joint, free from all scale.

One Pound Packages, each.....\$0.50
Dozen...D.P. \$8.00

Wonder Worker Solder Paste

The most effective, quick, active and non-corrosive soldering paste, which absolutely will not freeze or decompose. Can be used with any soldering flux, and will solder any metal except aluminum. Works freely on galvanized iron, lead, tinned steel and other metals. Used extensively by plumbers and tin workers in general. Prepared especially for needs of automobile repairers, dynamo builders, telephone makers, and by all the trades in general.



Two-Ounce Cans, each.....\$0.25
Dozen...D.P. \$4.00

Babbitt Metal



No. 4 Babbitt Metal, per pound.....\$0.30
Per Pound...D.P. \$0.38

No. 2 Babbitt Metal, per pound..... .40
Per Pound...D.P. \$0.48

The Gem Soldering Set, No. 2



Comprises one bar of solder, one box of resin, a scraper, and a soldering copper.

Copper is of sufficient size to retain heat.

Packed one set in a wooden box, which is enclosed in a pasteboard carton.

No. 2 Gem Soldering Set, each.....\$1.00
Each...D.P. \$1.11



The GIBSON COMPANY INDIANAPOLIS

CARBON REMOVERS, RIVETS AND WASHERS

Carbonox

Carbonox is put up in lithographed cans, each can containing enough to keep a four-cylinder engine free from carbon for six months. The cans are fitted with detachable oil can spouts which may be inserted in the spark plug opening and the Carbonox injected by pressure on the spring bottom.

Carbonox does not dissolve the carbon, but attacks the charred oil that fastens the flakes of carbon to each other and to the cylinder, piston head, etc. After destroying this charred oil the carbon is left in a loose, flaky condition and is blown out with the exhaust.

Per can.....\$0.75
Each.....D.P. \$0.88



Mound Carbon Scrapers

For removing carbon from cylinders and piston heads without tearing down engine. Made of 3-inch crucible steel, hand forged, nickel plated, apple wood handles.

Set No. 55, in box.....\$0.80
Per set.....D.P. \$0.77

Mound Three-Square Scrapers
Made of the best file steel and hollow ground, with hard maple handle, stained and polished.
Each.....\$0.30
Each.....D.P. \$0.33

Flexible Carbon Scrapers



No. 57 Mound Flexible Carbon Scraper, each.....\$0.35
Each.....D.P. \$0.40

Mound Curved Bearing Scrapers

These scrapers have just the right curve on blade for scraping metal bearings and grooves on automobiles.

Forged from the finest grade of steel, properly tempered for effective work.

Hollow ground and polished, mounted in rosewood handles. Packed in neat box.

No. 7 Set of Three.....\$1.25
Per set.....D.P. \$1.44

Rivets

Copper rivets and burs in 1/4-lb. boxes, assorted lengths from 1 to 1 1/2.

No. 8 Copper Rivets and Burs, assorted, 1-pound box, each.....\$0.65
Each.....D.P. \$0.93

No. 10 Copper Rivets and Burs, assorted, 1-pound box, each.....\$0.70
Each.....D.P. \$1.00

No. 12 Copper Rivets and Burs, assorted, 1-pound box, each.....\$0.75
Each.....D.P. \$1.06



Special Brake Band Copper Rivets



No. 9 Brake Band Copper Rivets in 1/4-lb. boxes, 1/2 inch, per box.....\$0.65
Per box.....D.P. \$0.93

No. 9 Brake Band Copper Rivets in 1/4-lb. boxes, 3/8 inch, per box.....\$0.65
Per box.....D.P. \$0.93

No. 9 Brake Band Copper Rivets in 1/4-lb. boxes, 1/2 inch, per box.....\$0.65
Per box.....D.P. \$0.93

No. 7 Brake Band Copper Rivets in 1/4-lb. boxes, 1/2 inch, per box.....\$0.65
Per box.....D.P. \$0.93

No. 7 Brake Band Copper Rivets in 1/4-lb. boxes, 3/8 inch, per box.....\$0.65
Per box.....D.P. \$0.93

No. 7 Brake Band Copper Rivets in 1/4-lb. boxes, 1/2 inch, per box.....\$0.65
Per box.....D.P. \$0.93

Slotted Copper Rivets, Fifty in Box

No. 1 Slotted Copper Rivets, 1/2-in., per box.....\$0.20

Per dozen boxes.....D.P. \$1.66



No. 1 Slotted Copper Rivets, 3/8 inch, per box.....\$0.20

Per dozen boxes.....D.P. \$1.66

No. 1 Slotted Copper Rivets, 1/2 inch, per box.....\$0.20

Per dozen boxes.....D.P. \$1.76

Slotted Brass Rivets Fifty in Box

No. 10 Slotted Brass Rivets, 1/2 inch, per box.....\$0.35

Per dozen boxes.....D.P. \$4.44

No. 10 Slotted Brass Rivets, 3/8 inch, per box.....\$0.35

Per dozen boxes.....D.P. \$4.44

No. 10 Slotted Brass Rivets, 1/2 inch, per box.....\$0.35

Per dozen boxes.....D.P. \$4.44

Sheet Felt and Felt Washers

No. 1 Felt Washers, 2 1/8 x 1 1/8 x 1/8, per dozen.....\$0.50
Per dozen.....D.P. \$0.50

No. 2 Felt Washers, 2 1/2 x 1 1/8 x 1/8, per dozen.....\$0.60
Per dozen.....D.P. \$0.60

No. 3 Felt Washers, 2 x 1 1/8 x 1/8, per dozen.....\$0.40
Per dozen.....D.P. \$0.40

No. 4 Felt Washers, 1 1/2 x 1 1/8 x 7/32, per dozen.....\$0.30
Per dozen.....D.P. \$0.30



No. 5 Felt Washers, 2 1/4 x 1, per dozen.....\$0.60

Per dozen.....D.P. \$0.60

No. 6 Felt Washers, 3 x 2 1/4 x 1/4, per dozen.....\$0.70

Per dozen.....D.P. \$0.70

No. 7 Felt Washers, 3 1/4 x 2 1/2 x 1/4, per dozen.....\$0.75

Per dozen.....D.P. \$0.75

No. 8 Felt Washers, 3 1/2 x 2 1/2 x 1/4, per dozen.....\$1.00

Per dozen.....D.P. \$1.00

Best quality felt for washers or gaskets in sheets 36x36 inches.

No. 32 Blue Felt, 1/4 inch, per pound.....\$2.50

No. 32 Blue Felt, 1/8 inch, per pound.....\$2.50

No. 32 Blue Felt, 1/2 inch, per pound.....\$2.50

Per pound.....D.P. \$2.77

A sheet of 1/4 inch weighs about 2 1/2 pounds.



SHIM STOCK AND BEARING BRONZE



Shim Stock

This stock is essential to every well regulated shop and is put up in convenient packages. It is supplied in thicknesses varying from .002 to .15 of an inch in 2½-inch strips, as illustrated.

- No. 1 Shim Stock—Package contains 4 rolls of special sheet brass, 50 inches in length to each roll, 2½ inches wide, making a total of 500 square inches; per box...\$1.50 Per Box...D.P. \$2.22
- No. 2 Shim Stock—Contents, one-half of No. 1, per box... .80 Per Box...D.P. \$1.11

Laminum



In selecting a Shim for any purpose, your choice must be made from among the three types which are in use. The trouble encountered in the use of the original solid brass Shim, the expensive filing and scraping by an expert mechanic, and the difficulty of obtaining accurate thickness and an even surface, led to the adoption by some of the loose-leaf Shim. But it was found that dirt and grease would get between the layers, and would work out under pressure, this leaving a loose bearing.

The careful study and experiments of specialists has evolved laminum, which, as its name implies, is a material composed of innumerable thin layers or laminations of hard brass held together by a metal binder. These layers are made in two thicknesses—.002 and .003 inches. By peeling off successive layers of the metal anyone may obtain a perfectly smooth, solid, and uniform shim of any desired exact thickness.

For the convenience of automobile repairmen and mechanics, laminum is put up in various packages, which are listed below.

- No. 3 Assortment Laminum containing three strips 1/32 x 2 x 9 inches, all .002 lamination, each \$1.50 Each...D.P. \$2.45
- No. 4 Assortment Laminum containing three strips 1/32 x 2 x 9 inches, all .003 lamination, each 1.50 Each...D.P. \$2.45

Bunting Bearing Bronze



Cored Bars of Bunting Bearing Metal produced in various dimensions to be readily machined to the proper size bearing, made from the famous Bunting Bearing Metal which has been used so generally for several years past wherever the highest grade of bronze bearings were required.

Piece No.	Outside Diameter	Inside Diameter	Length	Approximate Weight
A	1	Solid	12	1½
B	1¼	½	12	2
C	1½	¾	12	3½
D	1¾	¾	12	5
E	2	1	12	7
F	2¼	1¼	12	8½
G	2½	1½	12	11½

When ordering, use the letters at the left to denote size required.

Bunting Bearing Bronze, per pound.....\$0.50
Per Pound...D.P. \$1.32

Non-Gran Bearing Bronze



High Speed Non-Gran Bearing Bronze, cored bars for bushings at new low prices. You can now secure the same bronze used in the Packard, Locomobile, Marmon, Mercer, etc., at very near the cost of inferior bronzes. All bars absolutely guaranteed, no flaws, no waste, perfect cores.

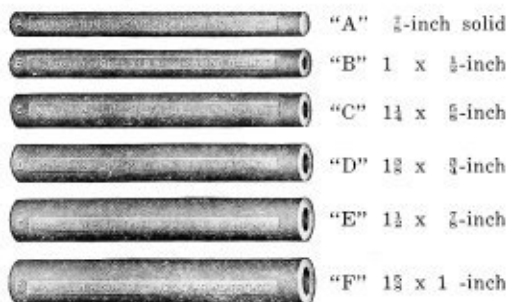
A brand new assortment, 20½ pounds. It takes care of every bushing need up to a shaft diameter of 1½ in.



Means less stock and more money for repairmen. The six different sizes of Non-Gran Bars in this assortment make fifty-four standard and all intermediate bushing sizes. This little inexpensive assortment of genuine standard Non-Gran Bars answers every possible bushing need up to and including a shaft diameter of 1½ inches. It takes care of every one of the bushing sizes which any automobile repairman has most constant call for. Not a single bar which will prove a "dead one." Most everything you need is there; nothing is there you do not need. Every repair shop, machine shop, lathe equipped garage will recognize in this new assortment the best possible investment.

Special price on this new 6-54 assortment...D.P. \$27.28

These are the 6-54 Assortment Bars



In addition to this 6-54 assortment we are prepared to make prompt shipment on all standard and near-standard Non-Gran Bars of any diameter you may need.

Per PoundD.P. \$1.48



The GIBSON COMPANY INDIANAPOLIS

OIL CANS

Dover Non-Leakable Steel Oilers

Especially adapted for gasoline for priming. With extra large mouths. Easy to fill. New easy locking spout. Gets rid of all cross threading. One-half turn securely locks the spout on the can. Likewise one-half turn removes the spout.

The greatest improvement ever made to an oiler.

COPPERIZED
Patented



No.	Quantity	Diameter, Inches	Length of Spout, Inches	Each
No. 013	1/3 pt.	3 3/4	3	\$0.40
Per Dozen . . . D.P.	\$5.00			
No. 013A	1/3 pt.	3 3/4	5	.45
Per Dozen . . . D.P.	\$5.33			
No. 014	1/3 pt.	3 3/4	9	.50
Per Dozen . . . D.P.	\$5.88			
No. 014A	1/2 pt.	3 3/4	3	.55
Per Dozen . . . D.P.	\$6.66			
No. 014AA	1/2 pt.	3 3/4	5	.60
Per Dozen . . . D.P.	\$7.22			
No. 011B	1/2 pt.	3 3/4	9	.65
Per Dozen . . . D.P.	\$7.77			
No. 015	1 pt.	4 1/4	3	.70
Per Dozen . . . D.P.	\$8.33			
No. 015A	1 pt.	4 1/4	5	.75
Per Dozen . . . D.P.	\$8.88			
No. 016	1 pt.	4 1/4	9	.80
Per Dozen . . . D.P.	\$9.44			

Dover Steel Oilers

A superior oiler, with extra large mouths. Easy to fill. New easy locking spout. Gets rid of all cross threading. One-half turn securely locks the spout on the can, likewise one-half turn removes the spout.

Made from 20-gauge cold rolled steel, copper plated inside and out. Clock spring steel bottoms. All spouts from 3 to 9 inches interchangeable.

COPPERIZED



No.	Quantity	Diameter, Inches	Length of Spout, Inches	Each
No. 13	1/3 pt.	3 3/4	3	\$0.25
Per Dozen . . . D.P.	\$2.77			
No. 13A	1/3 pt.	3 3/4	5	.30
Per Dozen . . . D.P.	\$3.00			
No. 14	1/3 pt.	3 3/4	9	.33
Per Dozen . . . D.P.	\$3.32			
No. 14A	1/2 pt.	3 3/4	3	.35
Per Dozen . . . D.P.	\$3.66			
No. 14AA	1/2 pt.	3 3/4	5	.38
Per Dozen . . . D.P.	\$3.88			
No. 14B	1/2 pt.	3 3/4	9	.40
Per Dozen . . . D.P.	\$4.22			
No. 15	1 pt.	4 1/4	3	.42
Per Dozen . . . D.P.	\$4.44			
No. 15A	1 pt.	4 1/4	5	.45
Per Dozen . . . D.P.	\$4.66			
No. 16	1 pt.	4 1/4	9	.50
Per Dozen . . . D.P.	\$5.33			

Dover Auto Pump Oilers



COPPERIZED

No.	Quantity	Diameter, Inches	Length of Spout, Inches	Each
No. 800	1/2 pt.	3 3/4	3	\$1.50
Per Dozen . . . D.P.	\$20.66			
No. 801	1/2 pt.	3 3/4	5	1.60
Per Dozen . . . D.P.	\$21.10			
No. 802	1/2 pt.	3 3/4	9	1.75
Per Dozen . . . D.P.	\$21.55			
No. 803	1 pt.	4 1/4	5	1.85
Per Dozen . . . D.P.	\$22.76			
No. 804	1 pt.	4 1/4	9	2.00
Per Dozen . . . D.P.	\$23.33			

Dover Compact Oilers

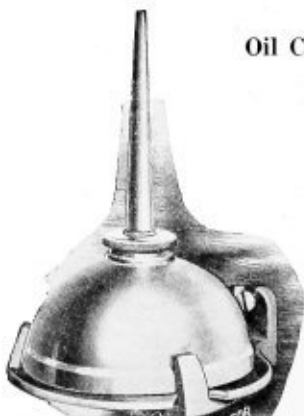
A very handy and convenient oiler to carry in tool box. Four-inch reversible spout with metal cap. Drip cap at base of spout catches all surplus oil. Occupies very small space, easily carried in tool box. Its powerful spring makes it practically a squirt gun, as it will throw a stream of oil into any part of the car.



HEAVILY COPPER PLATED

No. 10	1/4-pt. 6 1/2-in. long x 3-in. wide x 1 1/4-in. thick	each	\$0.50
Dozen . . . D.P.	\$8.00		

Oil Can Holder



To be attached to dash under hood. Oil or priming can ready for instant use. Oil is kept warm in cold weather.

Price, without can	\$0.35
Doz. . . D.P.	\$2.22
Price, with can	.50
Doz. . . D.P.	\$5.32



MEASURES

Dover Auto Oil Measures



HEAVY WEIGHT Heavily Copper Plated and Lacquered

No.	Capacity	Diam. Bottom Inches	Height Inches	Each
No. 8	1-pt., Side Handle	3½	4¼	\$0.40
Per dozen	D.P. \$8.00			
No. 11	1-qt., Side Handle	4½	5¾	.50
Per doz.	D.P. \$10.00			
No. 12	2-qt., Side Handle	5¾	7½	.70
Per dozen	D.P. \$14.00			
No. 14	4-qt., Side Handle	6¾	9¼	.90
Per dozen	D.P. \$18.00			

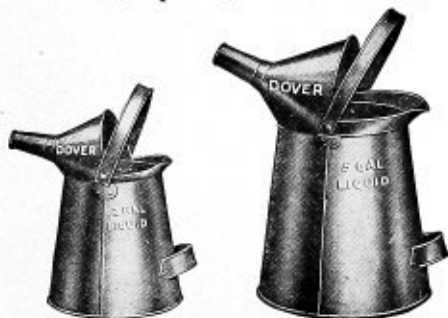
Dover Auto Gasoline Measures



HEAVILY COPPER PLATED AND LACQUERED Extra Heavy Weight with Re-enforced Bottoms

No.	Capacity	Diam. Bottom Inches	Height Inches	Each
No. 18	2-gal., with Ball	9½	9¼	\$2.25
Per dozen	D.P. \$44.00			
No. 22	5-gal., with Ball	12½	12¼	3.00
Per dozen	D.P. \$60.00			

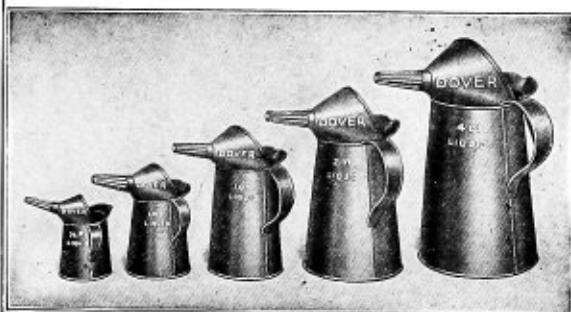
Dover Simplex Gasoline Measure



A Practical Easy Pouring Measure Heavily Copper Plated and Lacquered

No.	Capacity	Diam. Bottom Inches	Height Inches	Each
No. 118	2-gal., with Ball	9½	14	\$2.50
Per dozen	D.P. \$50.00			
No. 222	5-gal., with Ball	12½	19	3.50
Per dozen	D.P. \$70.00			

Dover Duplex Combination Measure and Funnel



Extra Heavy Weight

No.	Capacity	Diam. Bottom Inches	Height Inches	Diam. Spout Inches	Each
No. 2½	½-pt.	2½	4¾	5/16	\$0.50
Per dozen	D.P. \$8.88				
No. 5	1-pt.	3½	5¾	¾	.58
Per dozen	D.P. \$10.55				
No. 10	1-qt.	4½	7¾	7/16	.74
Per dozen	D.P. \$13.32				
No. 20	2-qt.	5¾	9¾	½	1.00
Per dozen	D.P. \$17.77				
No. 40	4-qt.	6¾	12¾	11/16	1.36
Per dozen	D.P. \$25.00				
No. 20½	½-pt.	2½	4¾	5/16	\$0.55
Per dozen	D.P. \$10.00				
No. 50	1-pt.	3½	5¾	¾	.65
Per dozen	D.P. \$12.00				
No. 100	1-qt.	4½	7¾	7/16	.80
Per dozen	D.P. \$14.41				
No. 205	2-qt.	5¾	9¾	½	1.05
Per dozen	D.P. \$19.33				
No. 400	4-qt.	6¾	12¾	11/16	1.40
Per dozen	D.P. \$25.00				

Dover Saval Combination Measure and Funnel with Automatic Shut-Off Attachment



Simple in Construction, Positive in Action and Everlasting in Quality

Heavily Copper Plated

No.	Capacity	Diam. Bottom Inches	Height Inches	Diam. Spout Inches	Each
No. 210	1-qt.	4½	7¾	7/16	\$1.00
Per dozen	D.P. \$20.00				
No. 220	2-qt.	5¾	9¾	½	1.25
Per dozen	D.P. \$25.00				
No. 240	4-qt.	6¾	12¾	11/16	1.75
Per dozen	D.P. \$35.22				

Positively Prevents Overflowing the Oil Tank and Spilling Oil Over the Engine and Other Parts

It is not only a most practical measure, combined with a funnel for convenience in pouring, but has in the spout a brass ball valve (ground oil tight) to shut off the flow of the oil instantly (in a very simple manner) at the convenience of the user.



FUNNELS

Dover Portable Funnel

With Fine Brass Strainers **OVAL** Heavily Copper Plated
Square Top Pattern



Extra Heavy Weight

No.	Capacity	Length, Inches	Width, Inches	Height, Inches	Diam. Outlet, Inches	Each
No. 1.	1-pt.	5½	2½	6½	½	\$0.50
Per Dozen						D.P. \$8.00
No. 001.	1-pt.	5½	2½	6½	½	.40
Per Dozen						D.P. \$7.20
No. 2.	1-qt.	7½	3	8½	¾	.60
Per Dozen						D.P. \$9.00

Oval Top Pattern



No.	Capacity	Length, Inches	Width, Inches	Height, Inches	Diam. Outlet, Inches	Each
No. 01.	1-pt.	6½	3	6½	7/16	\$0.30
Per Dozen						D.P. \$4.80
No. 02.	1-qt.	8	3½	8	½	.44
Per Dozen						D.P. \$7.22

These funnels are made especially to carry on auto; oval shape, occupy small space, have an extra large spout so that while the body is small the gasoline will run through the funnel very fast, an important feature. The tube on funnel is fluted so that it will not get air bound while pouring.

Dover Standard Gasoline Auto Funnel

With Fine Brass Strainers and Movable Hoop to Hold Chamois



Heavily Copper Plated

No.	Capacity	Diam. Top, Inches	Height, Inches	Diam. Outlet, Inches	Each
No. 10.	1-pt.	5	6½	½	\$0.60
Per Dozen					D.P. \$10.88
No. 20.	2-qt.	8½	9½	¾	.75
Per Dozen					D.P. \$14.00
No. 40.	4-qt.	9½	11	¾	1.00
Per Dozen					D.P. \$18.00
No. 80.	8-qt.	12	12½	¾	1.25
Per Dozen					D.P. \$22.77

A Very Important Feature

We have put beads or fluted the lower part of the body for use in tanks with large openings, so that if the filler opening in the tank is larger than the spout and the lower part of the body of the funnel goes down into the tank opening, the beads form an air space and prevent the funnel from becoming air bound.

Shut-off Funnel

A PERFECT GASOLINE AUTO FUNNEL

Galvanized

A new and convenient shape. Very practical, both for garage and automobile owner's use. An ideal funnel for motor boats. Complete with chamois skin attached. Positive in action, simple in construction and everlasting in quality.



No.	Capacity	Diam. Top, Inches	Depth, Inches	Diam. Spout, Inches	Each
No. 24.	6-qts.	10½	5½	¾	\$2.75
Per Dozen					D.P. \$50.55
No. 28.	8-qts.	12½	6	¾	3.00
Per Dozen					D.P. \$55.10

Simply lift the funnel from the filling hole in the tank or can and no more gasoline can run through the spout. A necessity to safety and economy.



Dover Gasoline Funnel

Oval Pattern Copper Plated

With movable inside hoop for chamois, detachable spouts and fine brass strainers.

No.	Capacity	Dia. Top, Inches	Hght. less Spout, In.	Dia. Outlet, Inches	Each
No. 26.	1-qt.	9½ x 4	7	¾	\$1.40
Per Dozen					D.P. \$28.00
No. 27.	1-qt.	8½ x 3½	6½	¾	1.10
Per Dozen					D.P. \$22.00

Dover Gasoline Auto Funnel

Designed Especially for New Cars with Large Tank Openings
The Fastest Flowing Funnel Made



Heavily Copper Plated

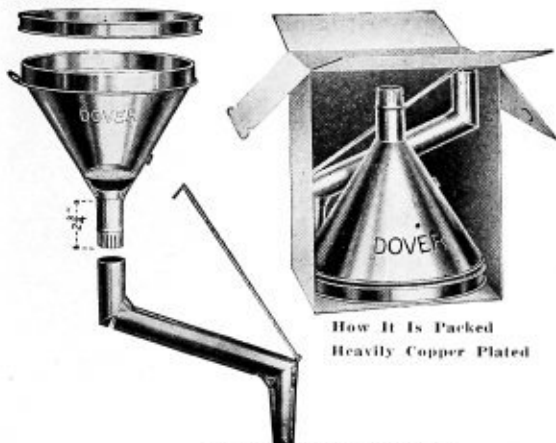
No.	Capacity	Diam. Top, Inches	Height, Inches	Diam. Outlet, Inches	Each
No. 240.	1-qt.	9½	12	¾	\$1.00
Per Dozen					D.P. \$20.00
No. 280.	8-qts.	12	13½	¾	1.25
Per Dozen					D.P. \$25.00



FUNNELS, PAILS AND TANKS

New Dover Two-in-One Offset Gasoline Funnel

With fine brass strainer, movable hoop to hold chamois. Spout easily removed, thus forming a regular funnel.



How It Is Packed
Heavily Copper Plated

	Diam. of Top Inches	Diam. of Outlet Inches	Each
No. 4000 4-qt.	9½	¼	\$2.00
Per dozen...D.P.			\$36.00
No. 8000 8-qt.	12	1¼	2.25
Per dozen...D.P.			\$41.10

The increasing practice of carrying the gasoline in the rear tanks has greatly increased the demand of our offset Funnel, and after a careful study of the same we have re-designed our offset Funnel so that these tanks may be filled easily and quickly.

Dover Leviathan Garage Funnel

Six-gallon capacity, extra heavy; has seamless brass spout threaded in brass base on bottom, thus being removable, facilitating shipping and preventing breakage. Complete with chamois strainer.

Galvanized, with Bail



	Diam. Inches	Height Inches	Length of Spout Inches	Diam. of Spout Inches	Each
No. 56 6 gals.	14½	10½	5½	1½	\$4.75
Doz. . .D.P.					\$96.00

Having had numerous calls for an extra large, heavy Funnel of a capacity sufficient to take a five-gallon can of gasoline at a single pouring (without having to wait for the contents to run through the chamois strainer), we designed the above Funnel and have put the same to test in a large garage for over a year. It is made of heavy steel and thoroughly galvanized after it is made up, thereby giving a durable and rustless coating.

It has a deep, large hoop for the chamois, which stretches it tight across the bottom, the full diameter of the funnel giving the maximum straining capacity and insuring a very rapid flow. This chamois is supported by a wire rack rest to prevent its sagging.

Dover Garage Pails

For washing cars and general use.

Extra Heavy



	Diam. Inches	Height Inches	Each
No. 100 10-qt., Flat Bottom	11	9	\$0.65
Per dozen . . .D.P.			\$12.44
No. 120 12-qt., Flat Bottom	11	10	.75
Per dozen . . .D.P.			\$13.66
No. 140 14-qt., Flat Bottom	12	10½	.80
Per dozen . . .D.P.			\$14.66

This is our heaviest and strongest pail. Extra heavy body and bottom and has a heavy wrought steel hoop securely riveted on bottom.

Extra Heavy



	Diam. Inches	Height Inches	Each
No. 200 12-qt.	11½	10½	\$1.00
Per dozen . . .D.P.			\$18.10
No. 400 14-qt.	11½	10½	1.10
Per dozen . . .D.P.			\$19.00

Gasoline Tanks

Emergency Gasoline Tank

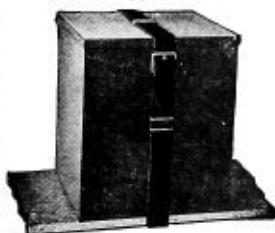
Made of steel and protected by a wood casing, nicely finished. Has a special pouring spout and a wire strainer. This tank will store one gallon of gasoline in a small space and will always furnish a full gallon of gasoline in reserve to get home with.

No. 1 8½ inches wide by 3 inches thick by 12 inches high.	\$1.00
Doz. . .D.P.	\$14.44



Dover Tourist Oil and Gasoline Kit

(Patent applied for)



A neat, compact and dust-proof device for carrying extra oil and gasoline when touring. Instantly attached and instantly detached. Furnished with strap, complete.

No. 1 8x9 in. by 10½ in. high, 3½ gals. capacity, each	\$4.00
Dozen . . .D.P.	\$80.00
Attached to running board	



MEASURES

Dover Gasoline Can



Extra heavy weight. Galvanized with blue stripes.

No. 52. 5-gal., with spout, diameter 11½-in., height 15¼-in.; each\$1.50
Each...D.P. \$2.22

New Dover Galvanized Garage Measure

The ideal 5-gallon garage measure. Extra heavy. Warranted not to break.

This is the most practical 5-gallon measure made, because it can be filled from a tank, hose or faucet without splattering, and when full can be carried to auto and lifted up on running board to tank without spilling a drop and can further be poured into funnel very fast without spilling.



Opening in end of spout, 1½ inches
Opening in top for filling, 4½ inches

No. 15. 5-gallon capacity; each\$2.00
Each...D.P. \$3.32

Dover Non-Evaporating Gasoline Measure



The perfect 5-gallon measure. Galvanized with blue bands. 11½-in. diam. by 18-in. high, over all. 4-in. diam., filling opening.

No. 25. 5-gallon capacity with New Novel Bail; each\$2.50
Each...D.P. \$4.22

Dover 5-Gallon Wagon Measure

No. 300 Five-gallon Wagon Measure, painted red, 10½-in. diameter by 20½ in. high; diameter of pouring neck, four inches. The body is heavily reinforced with three bands, and a new sunk arch-shape bottom, which is indestructible; also has a new bail reinforced with wood boss and steel. Front of neck reinforced, also a new feature. They are designed to stand hard, everyday service. The strongest five gallon measure ever put on the market and are used largely by gasoline dealers for wagon use. Accurate to measure and guaranteed not to leak.

Each\$4.50
Each...D.P. \$7.54



Dover Storage Oil Cans



Plain Tin

No. 1. 1-gal. 5¼-in. square x 10-in. high x 1-in. opening\$0.30
Each...D.P. \$0.40
No. 5. 5-gal. 9¼-in. square x 13¼-in. high x 1½-in. opening55
Each...D.P. \$0.77

Wood Jacketed Tin Cans



	Diam.	High.	Open.	Each
	In.	In.	In.	
No. 55. 5-gal., with Wood Bail,	10¼	x 19¼	x 1¼	.....\$0.80
Each...D.P.				\$1.11
No. 510. 10-gal., with Side Hdls.,	13¼	x 23¼	x 1¼	.....1.45
Each...D.P.				\$2.00

The above cans are well made, oil tight, and are used by dealers and garages for putting up special brands of oil.



SOAP ECONOMIZERS, DRIP AND TESTING PANS

New Dover Garage Soap Economizer



Reduces soap consumption one-half. Saves all waste and prevents theft. It works on the same principle that the common soap shaker does in washing dishes. Made of heavy galvanized perforated steel.

	Capacity	Dia.	High	Price
No. 30	6½-lbs.	6¼	x 8-in.	each...\$1.75
	Each...	D.P.		\$3.00

Simply fill the perforated pail with four to six pounds of soap, and suspend by cord, chain or other method, in water washing tank or barrel.

Very little agitation is required, as the numerous perforations allow perfect circulation of water.

It not only saves at least one-half the soap consumption, but absolutely prevents all unnecessary waste and petty theft, as it is intended after filling to be securely locked with a padlock, the advantages of which will appeal to every practical garage man. It was designed by a practical garage man, and tried out in the largest garage in New England.

Dover Soap Economizer

A Perfect Pail for Washing Cars

Will reduce soap consumption at least one-third



GARAGE SIZE
Height Diam.

No. 20 25-qts. Capacity, 12 -in. x 12½-in., each...\$2.50
Each...D.P. \$4.22

INDIVIDUAL SIZE

No. 40 13-qts. Capacity, 10½-in. x 10 -in., each... 2.00
Each...D.P. \$3.32

Fill the pail about one-quarter to one-third full of soap, place the perforated disc or pan on the soap with the concave surface uppermost, fill the pail with water, and use the same as an ordinary pail.

The advantages are: Economy in soap; keeps the sponge always clean, thereby saving both sponge and body of the car.

This pail was invented by a practical garage man, and has been tested most successfully in several of the largest garages.

It not only saves more than one-third of the soap consumption over an ordinary pail, but saves sponges, the varnish of the car and the time in washing.

These pails are well made of heavy steel, galvanized after they are made up, thereby coating every edge, seam and crevice, making them absolutely tight and rustless.

Dover Auto Safety Drip Pan

Made of heavy Galvanized Steel WITH RIM TURNED OVER A HEAVY ROD LEAVING TOP SURFACE OF PAN WITHOUT SEAM OR SOLDER, the only correct manner of making a Drip Pan.



Note Construction

Extra Heavy Edge Banded with Red Stripe

No. 1	Runabout, size 35x17-in., each.....	\$3.00
	Each...D.P. \$4.44	
No. 2	Touring Car, size 35x95 in., each.....	5.00
	Each...D.P. \$7.77	
New sizes, not quite so heavy, not striped but a good serviceable pan.		
No. 01	Runabout, size 29x41-in., each.....	2.00
	Each...D.P. \$3.32	
No. 02	Touring Car, size 29x83-in., each.....	4.00
	Each...D.P. \$6.66	

COPPER DRIP PANS

No. 3 Size 29x59-in., 16-oz., Polished, each.....\$16.00
Each...D.P. \$26.66

Placed on floor under auto the pan catches all oil, grease and gasoline. Easily cleaned. Keeps floor bright and clean.

This pan has no sharp edges, and when on floor, if auto is backed over edge it will not injure the tires nor injure the pan. All pans are shipped securely crated.

Why All Garages and Automobiles Should Have a Drip Pan

Few automobile users appreciate the importance of keeping oil and grease from the floors of the garage over which vehicle tires are run. A tire which has seen considerable service becomes more or less porous, and will take up oil very much like a sponge. The oil being a natural solvent of rubber causes a soft spot in the tire which is allowed to stand in it, and it is but a short process of wearing away the partially dissolved rubber to cause a "flat spot." Where garage floors are more or less covered with oil, different parts of the tire are affected, with the general result that the tire wears very unevenly, and in extreme cases the user is very apt to lay the blame for its poor performance upon the tire maker.

Dover Tire Testing Pan

A Great Convenience To Every User of the Electric Vulcanizer and a Necessity to Every Garage



No. 1 30-in. long x 6-in. wide x 8-in. deep, each.....\$3.00
Each...D.P. \$5.00

Note rod which supports the tube allowing free use of both hands. This rod slides in a brass clamp, thus being adjustable to different size tire tubes.

The rod is easily removed and packed inside the pan for shipping and also occupies no space when not in use. For locating small leaks this tank is invaluable to any one who vulcanizes tires.



CAP SCREWS, ETC.

Set Screw Assortment



- No. 110 Set Screw Assortment, 14 assorted cup point set screws, U. S. standard thread, per box\$0.25
Per dozen boxes..D.P. \$4.26

Hexagon Head Cap Screw Assortment



- No. 75 Hexagon Head Cap Screw Assortment, 12 assorted U. S. standard thread, each.....\$0.40
Per dozen boxes..D.P. \$6.93
- No. 90 Hexagon Head Cap Screw Assortment, 12 assorted A.L.A.M. thread, each..... .50
Per dozen boxes..D. P. \$8.00

Taper Pin Assortment



- No. 115 Taper Pin Assortment, 40 assorted taper pins, per box.....\$0.50
Per dozen boxes..D.P. \$9.33

Hexagon Nut Assortment



- No. 30 Hexagon Nut Assortment, 24 semi-finished assorted sizes, U. S. standard thread, per box..\$0.40
Per dozen boxes..D.P. \$5.86
- No. 45 Hexagon Nut Assortment, 24-semi-finished assorted sizes, A.L.A.M. thread, per box..... .40
Per dozen boxes..D.P. \$5.86

Castellated Nut Assortment



- No. 60 Castellated Nut Assortment, 15 assorted castellated nuts, U. S. standard thread, per box..\$0.40
Per dozen boxes..D.P. \$6.66
- No. 63 Castellated Nut Assortment, 15 assorted castellated nuts, A.L.A.M. thread, per box..... .50
Per dozen boxes..D.P. \$7.46

Lock Washer Assortment



- No. 120 Lock Washer Assortment, 42 assorted lock washers, per box\$0.20
Per dozen boxes..D.P. \$2.66



SCREW ASSORTMENTS



No. 1 Wood Screw Assortment. Six dozen assorted brass wood screws. Both flat and round heads. Per box\$0.60

Doz. . D.P. \$9.60



No. 4 Iron Machine Screw Assortment. Two dozen assorted iron machine screws and nuts, per box\$0.20

Doz. . D.P. \$2.13

No. 2 Brass Machine Screw Assortment. Two dozen brass machine screws and nuts. Per box\$0.35

Doz. . D.P. \$6.11



No. 5 Iron Bolt Assortment. One and one-half dozen assorted iron bolts and nuts, per box...\$0.20

Doz. . D.P. \$2.66



No. 3 Iron Wood Screw Assortment. Six dozen assorted flat and round head wood screws. Per box...\$0.25

Doz. . D.P. \$2.66



No. 6 Copper Rivet Assortment. Thirty assorted copper rivets and bars. Per box\$0.20

Doz. . D.P. \$2.66

Cotter Pins

One hundred assorted spring cotter pins of various lengths and thicknesses. Packed in a neat enameled box, which avoids scattering about in the tool box.

"Just the thing for your tool box."

Price\$0.15

Doz. . D.P. \$1.88



Campbell Lock Cotter Pins

One hundred and twenty-six assorted Campbell hammer-lock cotter pins in nickel plated screw top box.

Per box\$0.15

Per doz. . D.P. \$2.22





The GIBSON COMPANY INDIANAPOLIS

NUTS AND CAP SCREWS

Semi-Finished Hexagon Nuts U. S. Standard Thread

	Per 100
3/4-20	\$2.00
Per 100, D.P.	\$1.42
5/16-18	2.50
Per 100, D.P.	\$1.78
3/8-16	3.25
Per 100, D.P.	\$2.33
7/16-14	3.75
Per 100, D.P.	\$2.66
1/2-12	4.50
Per 100, D.P.	\$3.20
9/16-12	5.50
Per 100, D.P.	\$3.91
5/8-11	6.50
Per 100, D.P.	\$4.62



	Per 100
3/4-10	\$8.50
Per 100, D.P.	\$6.04

A. L. A. M. Thread

	Per 100
3/4-28	\$2.00
Per 100, D.P.	\$1.42
5/16-24	2.50
Per 100, D.P.	\$1.78
3/8-24	3.25
Per 100, D.P.	\$2.31
7/16-20	3.75
Per 100, D.P.	\$2.67

	Per 100
3/4-20	\$4.50
Per 100, D.P.	\$3.20
9/16-18	5.50
Per 100, D.P.	\$3.91
5/8-18	6.50
Per 100, D.P.	\$4.62
3/8-16	8.50
Per 100, D.P.	\$6.04

Castellated Nuts U. S. Standard Thread



	Per 100
3/4-20	\$2.00
Per 100, D.P.	\$2.35
5/16-18	2.50
Per 100, D.P.	\$3.51
3/8-16	3.25
Per 100, D.P.	\$3.73
7/16-14	3.75
Per 100, D.P.	\$4.31
1/2-12	4.50
Per 100, D.P.	\$5.26
9/16-11	5.50
Per 100, D.P.	\$6.46
5/8-11	6.50
Per 100, D.P.	\$7.64

A. L. A. M. Thread

	Per 100
3/4-28	\$2.00
Per 100, D.P.	\$2.35
5/16-24	2.50
Per 100, D.P.	\$2.95
3/8-24	3.25
Per 100, D.P.	\$3.73
7/16-20	3.75
Per 100, D.P.	\$4.31

	Per 100
3/4-20	\$4.50
Per 100, D.P.	\$5.29
9/16-18	5.50
Per 100, D.P.	\$6.47
5/8-18	6.50
Per 100, D.P.	\$7.64

Hexagon Head Cap Screws



U. S. Standard Thread

	Per 100		Per 100
3/4x 3/4	\$3.00	5/16x1 3/4	\$4.25
Per 100, D.P.	\$2.73	Per 100, D.P.	\$3.91
3/4x1	3.25	5/16x2	4.85
Per 100, D.P.	\$3.00	Per 100, D.P.	\$4.44
3/4x1 1/4	3.50	3/8x 3/4	3.75
Per 100, D.P.	\$3.20	Per 100, D.P.	\$3.42
3/4x1 1/2	3.75	3/8x1	4.00
Per 100, D.P.	\$3.42	Per 100, D.P.	\$3.62
3/4x1 3/4	4.00	3/8x1 1/4	4.25
Per 100, D.P.	\$3.62	Per 100, D.P.	\$3.92
3/4x2	4.25	3/8x1 1/2	4.50
Per 100, D.P.	\$3.84	Per 100, D.P.	\$4.15
5/16x 3/4	3.25	3/8x1 3/4	4.85
Per 100, D.P.	\$2.96	Per 100, D.P.	\$4.44
5/16x1	3.50	3/8x2	5.20
Per 100, D.P.	\$3.20	Per 100, D.P.	\$4.75
5/16x1 1/4	3.75	3/8x2 1/4	5.55
Per 100, D.P.	\$3.42	Per 100, D.P.	\$5.06
5/16x1 1/2	4.00	3/8x2 1/2	6.00
Per 100, D.P.	\$3.66	Per 100, D.P.	\$5.46

Hexagon Head Cap Screws—Continued U. S. Standard Thread

	Per 100		Per 100
7/16x7	\$4.90	1/2x3	\$10.70
Per 100, D.P.	\$4.44	Per 100, D.P.	\$9.78
7/16x1 1/4	5.30	9/16x1 1/4	9.50
Per 100, D.P.	\$4.84	Per 100, D.P.	\$8.64
7/16x1 1/2	5.70	9/16x1 1/2	10.00
Per 100, D.P.	\$5.20	Per 100, D.P.	\$9.11
7/16x1 3/4	6.10	9/16x1 3/4	10.75
Per 100, D.P.	\$5.57	Per 100, D.P.	\$9.78
7/16x2	6.50	9/16x2	11.50
Per 100, D.P.	\$5.92	Per 100, D.P.	\$10.44
7/16x2 1/4	7.15	9/16x2 1/4	12.60
Per 100, D.P.	\$6.51	Per 100, D.P.	\$11.49
7/16x2 1/2	7.50	9/16x2 1/2	13.60
Per 100, D.P.	\$6.82	Per 100, D.P.	\$12.40
7/16x2 3/4	7.90	9/16x2 3/4	14.40
Per 100, D.P.	\$7.51	Per 100, D.P.	\$13.15
7/16x3	8.40	9/16x3	15.20
Per 100, D.P.	\$7.69	Per 100, D.P.	\$13.82
1/2-1	5.90	5/8x1 1/4	9.50
Per 100, D.P.	\$5.38	Per 100, D.P.	\$8.64
1/2x1 1/4	6.50	5/8x1 1/2	10.00
Per 100, D.P.	\$5.91	Per 100, D.P.	\$9.11
1/2x1 1/2	7.10	5/8x1 3/4	10.75
Per 100, D.P.	\$6.46	Per 100, D.P.	\$9.82
1/2x1 3/4	7.70	5/8x2	11.50
Per 100, D.P.	\$7.04	Per 100, D.P.	\$10.54
1/2x2	8.30	5/8x2 1/4	12.60
Per 100, D.P.	\$7.58	Per 100, D.P.	\$11.77
1/2x2 1/4	8.90	5/8x2 1/2	13.60
Per 100, D.P.	\$8.11	Per 100, D.P.	\$12.44
1/2x2 1/2	9.50	5/8x2 3/4	14.40
Per 100, D.P.	\$8.64	Per 100, D.P.	\$13.15
1/2x2 3/4	10.10	5/8x3	15.20
Per 100, D.P.	\$9.20	Per 100, D.P.	\$13.93

Hexagon Head Cap Screws

A. L. A. M. Thread

	Per 100		Per 100
1/4x 3/4	\$3.45	7/16x2 1/4	\$10.95
Per 100, D.P.	\$3.58	Per 100, D.P.	\$10.42
3/4x1	3.85	7/16x2 1/2	10.65
Per 100, D.P.	\$4.02	Per 100, D.P.	\$11.07
3/4x1 1/4	4.10	7/16x2 3/4	11.25
Per 100, D.P.	\$4.26	Per 100, D.P.	\$11.67
3/4x1 1/2	4.40	7/16x3	11.95
Per 100, D.P.	\$4.58	Per 100, D.P.	\$12.38
3/4x1 3/4	4.70	1/2x1	7.40
Per 100, D.P.	\$4.91	Per 100, D.P.	\$7.69
3/4x2	5.00	1/2x1 1/4	8.15
Per 100, D.P.	\$5.20	Per 100, D.P.	\$8.52
5/16x 3/4	4.10	1/2x1 1/2	8.90
Per 100, D.P.	\$4.26	Per 100, D.P.	\$9.20
5/16x1	4.50	1/2x1 3/4	9.65
Per 100, D.P.	\$4.68	Per 100, D.P.	\$10.00
5/16x1 1/4	4.80	5/8x2	10.40
Per 100, D.P.	\$4.98	Per 100, D.P.	\$10.78
5/16x1 1/2	5.10	5/8x2 1/4	11.15
Per 100, D.P.	\$5.28	Per 100, D.P.	\$11.55
5/16x1 3/4	5.45	5/8x2 1/2	11.80
Per 100, D.P.	\$5.66	Per 100, D.P.	\$12.20
5/16x2	6.05	5/8x2 3/4	12.60
Per 100, D.P.	\$6.26	Per 100, D.P.	\$13.80
5/16x2 1/4	6.70	3/4x3	13.40
Per 100, D.P.	\$6.98	Per 100, D.P.	\$13.86
5/16x2 1/2	7.25	9/16x1 1/4	11.90
Per 100, D.P.	\$7.53	Per 100, D.P.	\$12.33
3/8x 3/4	4.70	9/16x1 1/2	12.50
Per 100, D.P.	\$4.86	Per 100, D.P.	\$12.93
3/8x1	5.10	9/16x1 3/4	13.45
Per 100, D.P.	\$5.28	Per 100, D.P.	\$13.98
3/8x1 1/4	5.35	9/16x2	14.40
Per 100, D.P.	\$5.51	Per 100, D.P.	\$14.93
3/8x1 1/2	5.65	9/16x2 1/4	15.75
Per 100, D.P.	\$5.87	Per 100, D.P.	\$16.31
3/8x1 3/4	6.05	9/16x2 1/2	17.00
Per 100, D.P.	\$6.29	Per 100, D.P.	\$17.60
3/8x2	6.50	9/16x2 3/4	18.00
Per 100, D.P.	\$6.71	Per 100, D.P.	\$18.02
3/8x2 1/4	6.95	9/16x3	19.00
Per 100, D.P.	\$7.22	Per 100, D.P.	\$19.60
3/8x2 1/2	7.50	5/8x1 3/4	15.80
Per 100, D.P.	\$7.76	Per 100, D.P.	\$16.36
7/16x1	6.80	5/8x2	16.90
Per 100, D.P.	\$7.04	Per 100, D.P.	\$17.49
7/16x1 1/4	7.35	5/8x2 1/4	18.20
Per 100, D.P.	\$7.60	Per 100, D.P.	\$18.84
7/16x1 1/2	8.00	5/8x2 1/2	19.45
Per 100, D.P.	\$8.29	Per 100, D.P.	\$20.15
7/16x1 3/4	8.65	5/8x2 3/4	20.90
Per 100, D.P.	\$8.90	Per 100, D.P.	\$21.62
7/16x2	9.25	5/8x3	22.40
Per 100, D.P.	\$9.60	Per 100, D.P.	\$23.22



SET SCREWS, TAPER PINS, WASHERS AND STOVE BOLTS

Cup Point Set Screws



	Per 100		Per 100
$\frac{1}{4} \times \frac{1}{2}$	\$1.80	$\frac{3}{8} \times \frac{3}{4}$	\$2.60
Per 100 .D.P. \$1.36		Per 100 .D.P. \$2.00	
$\frac{1}{4} \times \frac{3}{4}$	1.90	$\frac{3}{8} \times 1$	2.65
Per 100 .D.P. \$1.47		Per 100 .D.P. \$2.02	
$\frac{1}{4} \times \frac{3}{8}$	2.00	$\frac{3}{8} \times 1\frac{1}{2}$	2.85
Per 100 .D.P. \$1.53		Per 100 .D.P. \$2.18	
$\frac{1}{4} \times \frac{7}{8}$	2.10	$\frac{3}{8} \times 1\frac{1}{2}$	3.10
Per 100 .D.P. \$1.60		Per 100 .D.P. \$2.35	
$\frac{1}{4} \times 1$	2.15	$\frac{7}{16} \times \frac{3}{4}$	2.80
Per 100 .D.P. \$1.64		Per 100 .D.P. \$2.13	
$\frac{1}{4} \times 1\frac{1}{4}$	2.30	$\frac{7}{16} \times \frac{1}{2}$	2.90
Per 100 .D.P. \$1.73		Per 100 .D.P. \$2.30	
$\frac{1}{4} \times 1\frac{1}{2}$	2.50	$\frac{7}{16} \times \frac{3}{8}$	3.00
Per 100 .D.P. \$1.89		Per 100 .D.P. \$2.27	
$\frac{5}{16} \times \frac{1}{2}$	2.00	$\frac{7}{16} \times 1$	3.10
Per 100 .D.P. \$1.53		Per 100 .D.P. \$2.35	
$\frac{5}{16} \times \frac{3}{4}$	2.10	$\frac{7}{16} \times 1\frac{1}{4}$	3.50
Per 100 .D.P. \$1.60		Per 100 .D.P. \$2.67	
$\frac{5}{16} \times \frac{3}{8}$	2.20	$\frac{7}{16} \times 1\frac{1}{2}$	4.00
Per 100 .D.P. \$1.62		Per 100 .D.P. \$3.02	
$\frac{5}{16} \times \frac{7}{8}$	2.30	$\frac{1}{2} \times \frac{7}{8}$	3.30
Per 100 .D.P. \$1.73		Per 100 .D.P. \$2.53	
$\frac{5}{16} \times 1$	2.35	$\frac{1}{2} \times \frac{3}{4}$	3.40
Per 100 .D.P. \$1.78		Per 100 .D.P. \$2.60	
$\frac{5}{16} \times 1\frac{1}{4}$	2.50	$\frac{1}{2} \times \frac{1}{2}$	3.60
Per 100 .D.P. \$1.89		Per 100 .D.P. \$2.73	
$\frac{5}{16} \times 1\frac{1}{2}$	2.70	$\frac{1}{2} \times 1$	3.80
Per 100 .D.P. \$2.07		Per 100 .D.P. \$2.89	
$\frac{3}{8} \times \frac{1}{2}$	2.35	$\frac{1}{2} \times 1\frac{1}{4}$	4.30
Per 100 .D.P. \$1.78		Per 100 .D.P. \$2.67	
$\frac{3}{8} \times \frac{3}{4}$	2.45	$\frac{1}{2} \times 1\frac{1}{2}$	4.80
Per 100 .D.P. \$1.84		Per 100 .D.P. \$2.31	
$\frac{3}{8} \times \frac{1}{2}$	2.50		
Per 100 .D.P. \$1.89			

Taper Pins



Taper Pins	Per 100	Taper Pins	Per 100
$\frac{3}{4}$ No. 1	\$2.00	$\frac{3}{4}$ No. 5	\$2.75
Per 100 .D.P. \$1.11		Per 100 .D.P. \$1.50	
$\frac{1}{2}$ No. 1	2.25	$\frac{1}{2}$ No. 6	3.00
Per 100 .D.P. \$1.25		Per 100 .D.P. \$1.63	
$\frac{1}{4}$ No. 1	2.50	$\frac{1}{4}$ No. 5	3.25
Per 100 .D.P. \$1.42		Per 100 .D.P. \$1.82	
$\frac{3}{8}$ No. 2	2.10	$\frac{1}{2}$ No. 5	3.50
Per 100 .D.P. \$1.16		Per 100 .D.P. \$1.96	
$\frac{1}{2}$ No. 2	2.35	$\frac{1}{4}$ No. 5	3.75
Per 100 .D.P. \$1.33		Per 100 .D.P. \$2.09	
$\frac{1}{4}$ No. 2	2.60	$\frac{1}{2}$ No. 5	4.00
Per 100 .D.P. \$1.47		Per 100 .D.P. \$2.22	
$\frac{1}{2}$ No. 2	2.85	$\frac{3}{4}$ No. 5	4.40
Per 100 .D.P. \$1.60		Per 100 .D.P. \$2.45	
$\frac{3}{8}$ No. 3	2.30	$\frac{1}{2}$ No. 6	3.60
Per 100 .D.P. \$1.33		Per 100 .D.P. \$1.98	
$\frac{1}{2}$ No. 3	2.55	$\frac{1}{4}$ No. 6	3.25
Per 100 .D.P. \$1.42		Per 100 .D.P. \$1.82	
$\frac{1}{4}$ No. 3	2.80	$\frac{1}{2}$ No. 6	3.50
Per 100 .D.P. \$1.56		Per 100 .D.P. \$1.96	
$\frac{1}{2}$ No. 3	3.05	$\frac{3}{4}$ No. 6	3.75
Per 100 .D.P. \$1.69		Per 100 .D.P. \$2.09	
$\frac{1}{4}$ No. 3	3.30	$\frac{1}{2}$ No. 6	4.00
Per 100 .D.P. \$1.87		Per 100 .D.P. \$2.22	
$\frac{3}{8}$ No. 4	2.50	$\frac{3}{4}$ No. 6	4.35
Per 100 .D.P. \$1.42		Per 100 .D.P. \$2.45	
$\frac{1}{2}$ No. 4	2.75	$\frac{1}{4}$ No. 6	4.75
Per 100 .D.P. \$1.56		Per 100 .D.P. \$2.67	
$\frac{1}{4}$ No. 4	3.00	$\frac{1}{2}$ No. 6	5.20
Per 100 .D.P. \$1.69		Per 100 .D.P. \$2.87	
$\frac{1}{2}$ No. 4	3.25	$\frac{3}{4}$ No. 6	5.70
Per 100 .D.P. \$1.82		Per 100 .D.P. \$3.20	
$\frac{1}{4}$ No. 4	3.50	$\frac{1}{2}$ No. 6	6.25
Per 100 .D.P. \$1.96		Per 100 .D.P. \$3.30	
$\frac{3}{8}$ No. 4	3.75		
Per 100 .D.P. \$2.09			

Lock Washers



(Lock Washers, Packed in Boxes of 250.)

Lock Washers for $\frac{3}{16}$ bolt, per 100	\$0.20
Per 100 .D.P. \$0.11 Per box of 250 .D.P. \$0.22	
Lock Washers for $\frac{1}{2}$ bolt, per 100	.40
Per 100 .D.P. \$0.22 Per box of 250 .D.P. \$0.44	
Lock Washers for $\frac{5}{16}$ bolt, per 100	.60
Per 100 .D.P. \$0.33 Per box of 250 .D.P. \$0.66	
Lock Washers for $\frac{3}{4}$ bolt, per 100	.80
Per 100 .D.P. \$0.44 Per box of 250 .D.P. \$0.88	
Lock Washers for $\frac{7}{16}$ bolt, per 100	1.00
Per 100 .D.P. \$0.55 Per box of 250 .D.P. \$1.11	
Lock Washers for $\frac{1}{2}$ bolt, per 100	1.10
Per 100 .D.P. \$0.66 Per box of 250 .D.P. \$1.32	
Lock Washers for $\frac{9}{16}$ bolt, per 100	1.30
Per 100 .D.P. \$0.77 Per box of 250 .D.P. \$1.54	
Lock Washers for $\frac{1}{2}$ bolt, per 100	1.30
Per 100 .D.P. \$0.88 Per box of 250 .D.P. \$1.76	

Wrought Iron Washers



	Per Lb.
Iron Washers for $\frac{3}{16}$ bolt	\$0.30
Per lb. .D.P. \$0.35	
Iron Washers for $\frac{1}{2}$ bolt	.30
Per lb. .D.P. \$0.35	
Iron Washers for $\frac{5}{16}$ bolt	.30
Per lb. .D.P. \$0.35	
Iron Washers for $\frac{3}{4}$ bolt	.30
Per lb. .D.P. \$0.35	
Iron Washers for $\frac{7}{16}$ bolt	.30
Per lb. .D.P. \$0.35	
Iron Washers for $\frac{1}{2}$ bolt	.30
Per lb. .D.P. \$0.35	
Iron Washers for $\frac{9}{16}$ bolt	.30
Per lb. .D.P. \$0.35	
Iron Washers for $\frac{1}{2}$ bolt	.30
Per lb. .D.P. \$0.35	

Stove Bolts



Flat Head



Round Head

	Per 100		Per 100
$\frac{3}{16} \times \frac{3}{4}$	\$0.85	$\frac{3}{16} \times \frac{3}{4}$	\$0.85
Per 100 .D.P. \$0.45		Per 100 .D.P. \$0.45	
$\frac{3}{16} \times 1$	.90	$\frac{3}{16} \times 1$	.90
Per 100 .D.P. \$0.47		Per 100 .D.P. \$0.47	
$\frac{3}{16} \times 1\frac{1}{4}$	1.00	$\frac{3}{16} \times 1\frac{1}{4}$	1.00
Per 100 .D.P. \$0.49		Per 100 .D.P. \$0.49	
$\frac{3}{16} \times 1\frac{1}{2}$	1.10	$\frac{3}{16} \times 1\frac{1}{2}$	1.10
Per 100 .D.P. \$0.54		Per 100 .D.P. \$0.54	
$\frac{3}{16} \times 1\frac{3}{4}$	1.15	$\frac{3}{16} \times 1\frac{3}{4}$	1.15
Per 100 .D.P. \$0.58		Per 100 .D.P. \$0.58	
$\frac{3}{16} \times 2$	1.20	$\frac{3}{16} \times 2$	1.20
Per 100 .D.P. \$0.62		Per 100 .D.P. \$0.62	
$\frac{1}{4} \times \frac{3}{4}$	1.20	$\frac{1}{4} \times \frac{3}{4}$	1.20
Per 100 .D.P. \$0.62		Per 100 .D.P. \$0.62	
$\frac{1}{4} \times 1$	1.30	$\frac{1}{4} \times 1$	1.30
Per 100 .D.P. \$0.67		Per 100 .D.P. \$0.67	
$\frac{1}{4} \times 1\frac{1}{4}$	1.40	$\frac{1}{4} \times 1\frac{1}{4}$	1.40
Per 100 .D.P. \$0.71		Per 100 .D.P. \$0.71	
$\frac{1}{4} \times 1\frac{1}{2}$	1.50	$\frac{1}{4} \times 1\frac{1}{2}$	1.50
Per 100 .D.P. \$0.76		Per 100 .D.P. \$0.76	
$\frac{1}{4} \times 1\frac{3}{4}$	1.55	$\frac{1}{4} \times 1\frac{3}{4}$	1.55
Per 100 .D.P. \$0.76		Per 100 .D.P. \$0.76	
$\frac{1}{4} \times 2$	1.60	$\frac{1}{4} \times 2$	1.60
Per 100 .D.P. \$0.80		Per 100 .D.P. \$0.80	



The GIBSON COMPANY INDIANAPOLIS

SCREWS, NUTS, CASES AND COTTER PINS

Machine Screws

Flat and Round Head Machine Screws



Numbers Threads	6	8	10	12	14	16
Length Under Heads	32	32	32	21	20	18
$\frac{1}{8}$ Per Gross	\$0.39	\$0.48	\$0.70	\$0.80	\$0.95	\$1.20
$\frac{1}{8}$ Per Gross	.42	.52	.75	.85	1.09	1.25
$\frac{3}{16}$ Per Gross	.46	.56	.80	.90	1.05	1.30
$\frac{1}{2}$ Per Gross	.50	.60	.85	.95	1.15	1.40
1 Per Gross	.55	.65	.90	1.00	1.25	1.50
$1\frac{1}{4}$ Per Gross	.65	.75	1.10	1.20	1.45	1.75
$1\frac{1}{2}$ Per Gross	.75	.85	1.30	1.40	1.65	2.10
$1\frac{3}{4}$ Per Gross	.95	1.05	1.50	1.60	1.85	2.50
2 Per Gross	1.15	1.25	1.70	1.80	2.20	2.90

Hex Machine Screw Nut



Semi-finished Iron

Nos. Size Screw	Threads Per Inch	Price
6	32	Per Gross, D.P. \$0.25
8	32	Per Gross, D.P. .28
10	24 and 32	Per Gross, D.P. .30
12	24	Per Gross, D.P. .33
14	20	Per Gross, D.P. .38
16	18	Per Gross, D.P. .50

Bolt and Screw Cases

Revolving Cases



Poplar Wood Cases—Cherry Stained

No. 10 Case, 72 drawers, height 33 inches, width 21 inches, with knobs, each.....	\$33.00
Each, D.P. \$54.95	
With knobs and label holders, each.....	\$7.50
Each, D.P. \$62.43	
No. 12 Case, 80 drawers, height 36 inches, width 21 inches, with knobs, each.....	\$7.50
Each, D.P. \$62.43	
With knobs and label holders, each.....	\$40.50
Each, D.P. \$67.45	
No. 14 Case, 88 drawers, height 39 inches, width 24 inches, with knobs, each.....	\$42.00
Each, D.P. \$69.93	
With knobs and label holders, each.....	\$44.25
Each, D.P. \$73.68	
No. 16 Case, 96 drawers, height 42 inches, width 24 inches, with knobs, each.....	\$46.00
Each, D.P. \$76.50	
With knobs and label holders, each.....	\$49.00
Each, D.P. \$81.50	
No. 10 Case in oak, with knobs and label holders, each.....	\$44.00
Each, D.P. \$73.26	
No. 12 Case in oak, with knobs and label holders, each.....	\$48.00
Each, D.P. \$79.92	
No. 14 Case in oak, with knobs and label holders, each.....	\$55.00
Each, D.P. \$91.58	
No. 16 Case in oak, with knobs and label holders, each.....	\$71.50
Each, D.P. \$119.04	

Cotter Pins



Cotter Pins in bulk, packed in boxes of 500 and 1,000.

Inches	Per M.	Inches	Per M.
$1/16 \times \frac{3}{4}$	\$0.75	$\frac{3}{4} \times 1\frac{1}{2}$	\$1.75
Per M., D.P. \$0.67		Per M., D.P. \$1.40	
$1/16 \times 1$	.80	$\frac{3}{4} \times 1\frac{3}{4}$	1.85
Per M., D.P. \$0.78		Per M., D.P. \$1.51	
$1/16 \times 1\frac{1}{4}$	1.00	$\frac{3}{4} \times 2$	2.00
Per M., D.P. \$0.89		Per M., D.P. \$1.67	
$1/16 \times 1\frac{1}{2}$	1.20	$9/64 \times 1\frac{1}{4}$	1.80
Per M., D.P. \$1.00		Per M., D.P. \$1.45	
$3/32 \times \frac{3}{4}$	.90	$9/64 \times 1\frac{1}{2}$	2.00
Per M., D.P. \$0.67		Per M., D.P. \$1.67	
$3/32 \times 1$	1.00	$9/64 \times 1\frac{3}{4}$	2.20
Per M., D.P. \$0.78		Per M., D.P. \$1.78	
$3/32 \times 1\frac{1}{4}$	1.10	$9/64 \times 2$	2.40
Per M., D.P. \$0.89		Per M., D.P. \$1.96	
$3/32 \times 1\frac{1}{2}$	1.20	$5/32 \times 1\frac{1}{4}$	2.10
Per M., D.P. \$1.00		Per M., D.P. \$1.74	
$3/32 \times 1\frac{3}{4}$	1.40	$5/32 \times 1\frac{1}{2}$	2.30
Per M., D.P. \$1.11		Per M., D.P. \$1.89	
$3/32 \times 2$	1.50	$5/32 \times 1\frac{3}{4}$	2.50
Per M., D.P. \$1.29		Per M., D.P. \$2.11	
$7/64 \times 1$	1.10	$5/32 \times 2$	2.80
Per M., D.P. \$0.89		Per M., D.P. \$2.33	
$7/64 \times 1\frac{1}{4}$	1.20	$3/16 \times 1\frac{1}{4}$	2.75
Per M., D.P. \$1.07		Per M., D.P. \$2.45	
$7/64 \times 1\frac{1}{2}$	1.40	$3/16 \times 1\frac{1}{2}$	3.00
Per M., D.P. \$1.16		Per M., D.P. \$2.67	
$7/64 \times 1\frac{3}{4}$	1.50	$3/16 \times 1\frac{3}{4}$	3.40
Per M., D.P. \$1.29		Per M., D.P. \$2.78	
$7/64 \times 2$	1.70	$\frac{1}{2} \times 1\frac{1}{4}$	3.70
Per M., D.P. \$1.40		Per M., D.P. \$3.11	
$\frac{1}{2} \times 1\frac{1}{4}$	1.50		
Per M., D.P. \$1.22			

Campbell Hammer-Lock Cotter Pins



PATD. MARCH 1912

	Inches	Per M.
Campbell Cotter Pins.....	$1/16 \times 1$	\$4.80
Per M., D.P. \$1.00		
Campbell Cotter Pins.....	$1/16 \times 1\frac{1}{4}$	5.45
Per M., D.P. \$1.11		
Campbell Cotter Pins.....	$1/16 \times 1\frac{1}{2}$	6.10
Per M., D.P. \$1.22		
Campbell Cotter Pins.....	$3/32 \times 1$	4.80
Per M., D.P. \$1.00		
Campbell Cotter Pins.....	$3/32 \times 1\frac{1}{4}$	5.45
Per M., D.P. \$1.11		
Campbell Cotter Pins.....	$3/32 \times 1\frac{1}{2}$	6.10
Per M., D.P. \$1.22		
Campbell Cotter Pins.....	$3/32 \times 1\frac{3}{4}$	6.75
Per M., D.P. \$1.45		
Campbell Cotter Pins.....	$3/32 \times 2$	7.40
Per M., D.P. \$1.51		
Campbell Cotter Pins.....	$\frac{1}{2} \times 1$	6.70
Per M., D.P. \$1.34		
Campbell Cotter Pins.....	$\frac{1}{2} \times 1\frac{1}{4}$	7.55
Per M., D.P. \$1.51		
Campbell Cotter Pins.....	$\frac{1}{2} \times 1\frac{1}{2}$	8.40
Per M., D.P. \$1.73		
Campbell Cotter Pins.....	$\frac{1}{2} \times 1\frac{3}{4}$	9.25
Per M., D.P. \$1.89		
Campbell Cotter Pins.....	$\frac{1}{2} \times 2$	10.10
Per M., D.P. \$2.05		
Campbell Cotter Pins.....	$5/32 \times 1$	9.30
Per M., D.P. \$1.96		
Campbell Cotter Pins.....	$5/32 \times 1\frac{1}{4}$	10.45
Per M., D.P. \$2.09		
Campbell Cotter Pins.....	$5/32 \times 1\frac{1}{2}$	11.60
Per M., D.P. \$2.33		
Campbell Cotter Pins.....	$5/32 \times 1\frac{3}{4}$	12.75
Per M., D.P. \$2.56		
Campbell Cotter Pins.....	$5/32 \times 2$	13.90
Per M., D.P. \$2.78		



EXTRACTORS, PLIERS, CUTTERS, HAMMER MOLDS AND DISPLAY STAND

Cotter Pin Extractor



Cotter Pin Extractor, 6-inch, each.....\$0.15
 Cotter Pin Extractor, 7-inch, each......15
 Dozen..D.P. \$1.60

Mesnard Cotter Spring Plier



To insert, spread and remove spring cotter pins in difficult places has brought about the necessity of this wonderful invention, which has proved beyond doubt that every owner of machinery can not be without it. The combination of cotter pin inserter, spreader, extractor, cutter, screw driver and gas tank wrench makes this a six (6) in one (1) tool, with no adjustments whatever.

Mesnard's Cotter Pin Plier, each.....\$0.75
 Each..D.P. \$1.33

Glass Cutters



Light iron handle; cutter head polished; steel cutter wheel, carefully tempered and ground.
 Each cutter packed in an individual carton.

No. 7 Glass Cutters, each.....\$0.15
 Each..D.P. \$0.22



Nickel plated frame; fancy wood handle. Six highly tempered and perfect cutting steel wheels set in a revolving turret, clamped in place by set screw.

No. 300 Glass Cutters, each.....\$0.50
 Each..D.P. \$0.55

Mound Gasket and Washer Cutter



Mound Gasket and Washer Cutter will cut gaskets up to 24 inches outside diameter suitable for large cylinder heads and flange joints down to small size washers.

No. 50 Mound Gasket and Washer Cutter, nickel plated, each.....\$2.00
 Each..D.P. \$3.35

Horat Soft Metal Hammer Mold



Patent applied for.
 It meets a distinct want.

A soft metal hammer that you make yourself; that costs but a trifling amount; that you make over with the same metal when it becomes battered; that you will use constantly.

Any one who handles metal knows the efficiency of a soft metal hammer. You can use it on finished steel, brass, bronze, aluminum, gears, cams, sprockets, pins, shafts, screws—on any finished part without injury, thereby saving many unnecessary repair bills.

Made in two sizes for Nos. 2 and 3 hammers. There are but three parts—the bottom of the mold and the ladle combined, the top, and a clamp. One hammer handle is included with the mold.

No. 2 Horat Hammer with mold and ladle, weight two pounds, each.....\$2.00
 Each..D.P. \$3.33

No. 3 Horat Hammer with mold and ladle, weight three pounds, each.....2.25
 Each..D.P. \$3.66

Rubber Head Hammer



The Young Perfect Hammer for men who take pride in their work. The rubber head prevents the marring of surfaces where a finished face is desired, while the opposite end is used for rougher work. The inserted rubber head can be renewed at slight expense, saving the necessity of buying a new hammer. The hammer is made of cast steel with the toughest rubber head, and will withstand the roughest usage. It is handled with selected Indiana white hickory. Weight, 2½ pounds.

Each.....\$1.35
 Each..D.P. \$1.88

Gemco Tire Display Stand



The Gemco Tire Holder grips and holds all sizes of tires from 3 inches to 6 inches with or without a rim. There are no screws or clamps to adjust. It is simple, durable and "fool-proof." A glance at the cut will convince you of this.

Each.....\$2.50
 Each..D.P. \$4.18



The GIBSON COMPANY INDIANAPOLIS

WHEEL PULLERS, AUTOWLINE, MOTOROPE, TACKLE OUTFITS, ETC.

New Model Crane Wheel Puller



For removing auto wheels, fly-wheels, transmission and cam shaft gears, commutators, sprockets, collars, pulleys, propellers, couplings, etc. The point of the screw is flat with inserted tempered tool steel point. Will not spread centers. Works equally well on work without centers. The strain is taken on the flat point of screw. Grease to keep from

cutting. All Pullers are furnished with two sets of the new combination hook and extension arms.

No. 2 Two Arm Crane Puller with two sets combination arms, each.....\$8.00

Each...D.P. \$13.32

No. 3 Two Arm Crane Puller with two sets combination arms, each.....10.00

Each...D.P. \$16.66

No. 2 Three Arm Crane Puller with two sets combination arms, each.....10.50

Each...D.P. \$17.50

No. 3 Three Arm Crane Puller with two sets combination arms, each.....13.00

Each...D.P. \$22.58

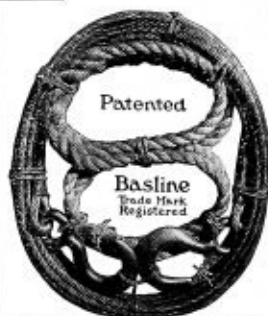
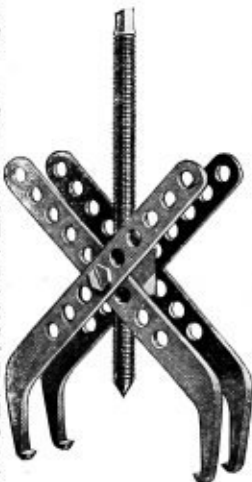
"Little Giant" Gear and Wheel Puller

The Little Giant Gear and Wheel Puller is indispensable in any machine shop or garage.

As a garage tool the "Little Giant" will be found to be the greatest labor saver and money maker of any tool around the place. It is especially applicable and designed for gear pulling where the space is limited around the gear, such as timing and other gears in an automobile which are surrounded by a close fitting gear case. By setting the pulling arms parallel or slightly convergent, you will be able to get in and pull a gear in a jiffy which would be practically impossible to remove without hours of labor on account of the clearance or room between the gear and the gear case being very limited. With the "Little Giant," however, which has very thin tempered steel drop forge prongs, very little space is needed to get in and when once in and the grip assured, to remove the gear is simply the work of a moment.

Each.....\$10.00

Each...D.P. \$15.54



Basline Autowline

A "Basline Autowline" is a 5/16-inch wire rope, thirty feet long, especially constructed for towing autos.

This wonderful little towing line is manufactured of high-grade steel, 5/16-inch in diameter, about thirty feet long, over all. It has an approximate strength of 7,000 pounds. This "over all" length includes two 3-inch manila rope slings, which are joined to each end.

These slings make it possible to attach a stalled car to another car or anything else in less than one minute. The strain on these slings, if doubled, is taken by four pieces of 1/2-inch manila rope, giving an approximate strength of 9,600 pounds.

No safe and sane auto owner should even think of going around the block without an Autowline under the cushion—ready for any emergency.

Weights only six pounds. Coils up under a cushion.

Each.....\$3.95

Each...D.P. \$6.88

Truck Basline Autowline, much heavier than standard, having breaking strain of about 12 tons,

each.....\$6.50

Each...D.P. \$11.99

MotoRope is the original and best automobile rope tow line on the market. Made of high quality Manila bolt rope. New fastener at each end, quickly adjusted to any length, no knots to tie, can not slip, instantly released.

No. 1 Special Grade, 25 feet long, 1/2 inch diameter, each...\$1.00

Each...D.P. \$1.66

No. 2 Special Grade, 30 feet long, 1/2 inch diameter, each...2.00

Each...D.P. \$3.32



Block and Tackle Outfits



Furnished in highest grade Bolt Rope, with fine quality, roller bearing blocks. All spliced and ready for use. Neatly coiled.

No. 1 Block and Tackle Outfit, 100 feet long, 1/2 inch diameter, rope, single and double blocks; will separate about 32 feet, each.....\$6.50

Each...D.P. \$11.66

No. 1-A Block and Tackle Outfit, same as No. 1 with 60 feet of rope, each.....5.00

Each...D.P. \$8.88

Every motorist needs a Pull-U-Out — and should carry one in the tool kit.

No automobile driver knows when he will get stuck in the mud—run into a ditch, or possibly be overturned. Even those who do not tour, sometimes get onto a street that isn't paved.

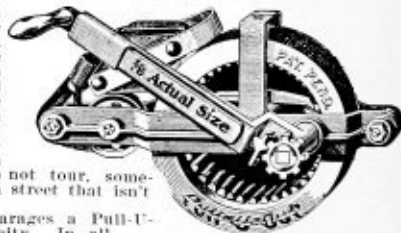
In public garages a Pull-U-Out is a necessity. In all kinds of repair work, taking out engines, removing bodies, changing tires, it is handier than a chain block and much more adaptable. It can be rigged up on a frame (see next page), and carried and used in any part of the building, without loss of time or effort.

Think of such a bar... with so many uses, and then realize that, in addition to all this, it is ready, without notice, to be put on the wrecking car and sent out in answer to a call for help from some one who has gone into the ditch, turned over, or stuck in the mud. What garage has not had such calls? The time saved in such cases would pay for a Pull-U-Out.

Each.....\$15.00

Each...D.P. \$26.66

Pull-U-Out

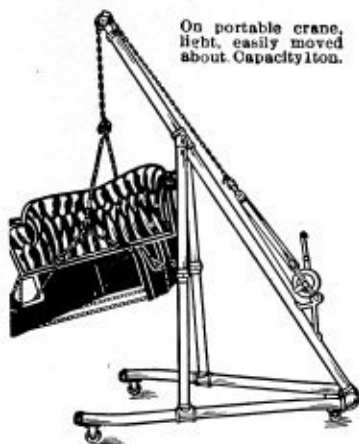




Pull-U-Out

The little thing with the big pull

On portable crane, hoist, easily moved about. Capacity ton.



A Life Saver for Autos in Trouble

The motorist who has Pull-U-Out in his tool-box is independent of road conditions. If his auto skids into trouble, turns over or sticks in the mud, he doesn't have to go for help; he simply drives into the ground the three little stakes that come with the Pull-U-Out, hitches Pull-U-Out to them and to the auto, gives the crank a few turns, and out comes the auto in almost no time. With Pull-U-Out a boy can easily lift or move the heaviest touring car. In case of engine trouble, Pull-U-Out chains make the finest possible tow line.

A Wonderful New Hoist

Because of its light weight, great power, low cost—because it will work in any position, and pull horizontally as well as lift, and has a greater reach and more power than a chain block, Pull-U-Out will revolutionize present methods of hoisting.

Does Jobs No Other Machine Can Do Cheaps Present Methods of Hoisting

There are hundreds of lifting and pulling jobs for which no mechanical help has heretofore been provided, such as setting boilers, shifting machinery, lowering vaults and setting stones in cemeteries, raising radiators, pulling wires through conduits, placing telegraph poles, etc. Pull-U-Out and one man will do jobs of this kind that require from three to a dozen men.

In all ordinary hoisting in shops, factories, on construction jobs, etc., Pull-U-Out will do the work quicker and better than the customary chain block. Where individual hoists are needed, Pull-U-Out is cheap enough to supply every workman with one.

For spotting cars, stretching wire fences, pulling stumps, for painters' rigging, and hundreds of other similar jobs, Pull-U-Out surpasses anything now in use.

No. 1 Pull-U-Out. Equipped with 40-foot steel cable, two 7-foot chains, three stakes. Weight, 28 pounds. Capacity, lift one ton. Pull (on wheels) 100,000 pounds. Reach, 16-foot lift; 173-foot pull.

Each, D.P. \$22.22

No. 2 Pull-U-Out. Equipped with 50-foot steel cable, two extra heavy 7-foot chains, three extra heavy stakes. Weight, 50 pounds. Capacity, lift 2 tons; pull (on wheels), 150,000 pounds. Reach, 123-foot lift; 19-foot pull.

Each, D.P. \$44.44

No. 2X Pull-U-Out with 100-foot steel cable.

Each, D.P. \$33.33

No. 2-X-B Pull-U-Out. Equipped same as No. 2-X, with addition of internal brake for controlling device when lowering extra heavy weight for long distance.

Each, D.P. \$62.22

No. 3 Pull-U-Out. Equipped with 400-foot steel cable. No chains or stakes. Weight, 75 pounds. Capacity, lift 3 tons; pull 200,000 pounds (on wheels); lifts or pulls 100 feet.

Each, D.P. \$106.66

Portable Crane made of extra heavy tubing. Weight, 250 pounds. Capacity, one ton. Lift, 91 feet. Shipped ready to screw together. Price complete with Pull-U-Out

Each, D.P. \$77.77

Junior S. P. Pull-U-Out. For stump pulling and heavy hoisting. Pull-U-Out No. 2-X with two 7-foot chains, two triple blocks with 100 feet of steel cable (1/2 inch), 48 feet of 1/2-inch steel anchor cable and one piece 12-foot 1/2-inch steel anchor cable and fittings complete. Reach, 65 feet. Pulling or lifting capacity, five to eight tons.

Each, D.P. \$75.00

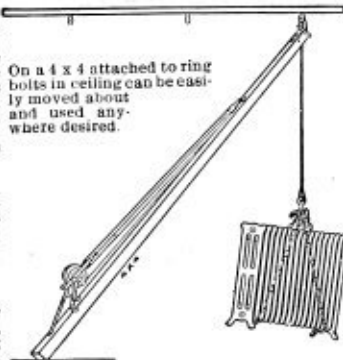
Each, D.P. \$133.32

Jumbo S. P. Pull-U-Out. For stump pulling and extra hoisting or pulling. Consists of Pull-U-Out No. 2-X with two 7-foot chains, two triple blocks and 100 feet of 1/2 inch steel cable, 48 feet of 1/2-inch steel anchor cable and one piece of 12-foot 1/2-inch anchor cable and fittings complete, sufficient for 65-foot reach. Pulling or lifting capacity, 10 to 15 tons.

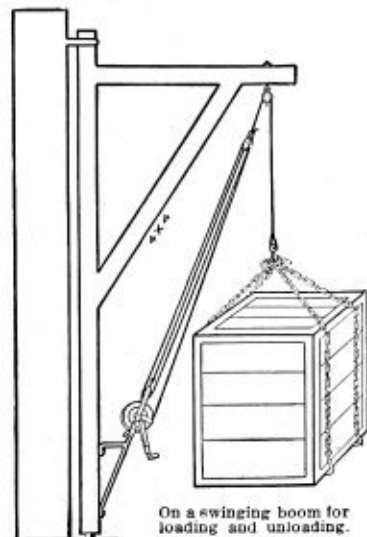
Each, D.P. \$100.00

Each, D.P. \$177.76

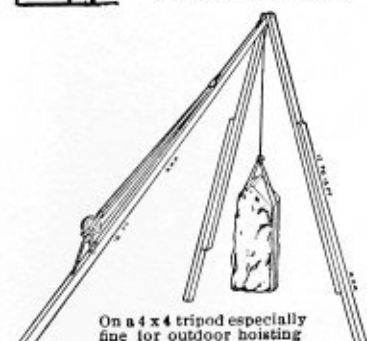
On a 4 x 4 attached to ring bolts in ceiling can be easily moved about and used anywhere desired.



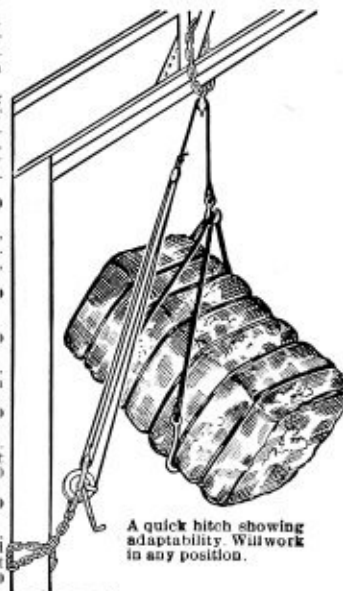
On a swinging boom for loading and unloading.



On a 4 x 4 tripod especially fine for outdoor hoisting



A quick hitch showing adaptability Will work in any position.





See that Fit?

Tight as a drum—elastic as rubber—bearing perfect and permanent—oil can't get up—gas can't get down—that's the

McQUAY-NORRIS
LEAK-PROOF
 PISTON RING

Leak-Proof Piston Rings should be used to get more power—to save fuel and oil—to produce more effective and economical service in Automobiles, Motor Boats, Motorcycles, Aeroplanes, Farm Engines (stationary, portable and tractor), Steam Engines, Air Compressors, Pumps (all kinds), Refrigerating and Ice-making Machines, Lungmotors.

Manufactured by McQuay-Norris Mfg. Co., St. Louis, U. S. A.

RETAIL PRICE LIST

Always give diameter of cylinder and width of ring.

Diameter in Inches	Width and Price Each					Diameter in Inches	Width and Price Each			
	3/16	3/8	5/16	7/8	1/2		3/8	5/16	7/8	1/2
2 3/4	\$1.31	\$1.31	-----	-----	-----	5	\$1.50	\$1.50	\$1.70	\$2.00
2 1/2	1.31	1.31	-----	-----	-----	5 1/8	1.50	1.50	1.70	2.00
2 5/8	1.31	1.31	-----	-----	-----	5 1/4	1.50	1.50	1.70	2.00
2 3/4	1.31	1.31	-----	-----	-----	5 3/8	1.50	1.50	1.70	2.00
2 7/8	1.31	1.31	-----	-----	-----	5 1/2	1.50	1.50	1.70	2.00
3	1.31	1.31	\$1.31	-----	-----	5 5/8	1.50	1.50	1.70	2.00
3 1/4	1.31	1.31	1.31	-----	-----	5 3/4	1.50	1.50	1.70	2.00
3 1/2	1.31	1.31	1.31	-----	-----	5 7/8	1.50	1.50	1.70	2.00
3 3/4	1.31	1.31	1.31	-----	-----	6	1.50	1.50	1.70	2.00
3 5/8	1.31	1.31	1.31	\$1.49	-----	6 1/8	-----	-----	1.91	2.25
3 5/4	1.50	1.50	1.50	1.70	-----	6 3/8	-----	-----	1.91	2.25
3 3/2	1.50	1.50	1.50	1.70	-----	6 1/2	-----	-----	1.91	2.25
3 7/8	1.50	1.50	1.50	1.70	-----	6 3/4	-----	-----	1.91	2.25
4	1.50	1.50	1.50	1.70	\$2.00	6 5/8	-----	-----	2.13	2.50
4 1/4	1.50	1.50	1.50	1.70	2.00	6 3/4	-----	-----	2.13	2.50
4 1/2	1.50	1.50	1.50	1.70	2.00	6 7/8	-----	-----	2.13	2.50
4 3/4	1.50	1.50	1.50	1.70	2.00	7	-----	-----	2.13	2.50
4 5/8	1.50	1.50	1.50	1.70	2.00	7 1/4	-----	-----	2.13	2.50
4 3/2	1.50	1.50	1.50	1.70	2.00	7 1/2	-----	-----	2.13	2.50
4 3/4	1.50	1.50	1.50	1.70	2.00	7 3/4	-----	-----	2.13	2.50
4 5/4	1.50	1.50	1.50	1.70	2.00	7 1/2	-----	-----	2.13	2.50

Made any diameter and width. If we haven't your size in stock, we will get it for you.

There's no leak proof ring but the **Leak-Proof Ring** — insist



PISTON RINGS

Leak-Proof Piston Rings



PISTON RINGS

No. 77 Piston Rings



For the convenience of our customers we list the standard size piston rings for the majority of cars.

Great care has been taken in preparing this list, but it is best to measure the desired ring or piston to insure accuracy where possible.

If the make of car or model is not listed, it does not mean that we cannot supply you, as we were unable to secure and list all makes and models.

Our No. 77 Piston Rings are carefully made of special soft gray cast iron and sizes are accurate to manufacturers' specifications. All rings are step cut, eccentric form and magnet ground. Fit and service guaranteed.

No. 77 Piston Rings, all sizes, each \$0.40
Dozen ..D.P. \$4.00 **Per 100** ..D.P. \$30.00

Ford sizes, each15
Dozen ..D.P. \$2.66

Prices on Leak Proof Rings on Opposite Page

Either Leak Proof or No. 77 Rings are obtainable for sizes given.

Will Fit	Model	Style	Size	No.	Will Fit	Model	Style	Size	No.	
Abbott-Detroit	1910	A	4 x 1	3	Avery	1915	2 and 3 Ton A and B			
	1911-12	B	4 1/2 x 1	3		Briscoe	1915	5 Ton B	4 1/2 x 1	4
	1912	C	4 1/2 x 1	3			All Models	3 1/2 x 3/16	3	
	1913	D	4 1/2 x 1	3			4 Cyl.	3 7/16 x 1	2	
	1913	E	4 1/2 x 1	3			8 Cyl.	3 x 3/16	3	
	1914-15-16	K	4 1/2 x 1	3			1904-05-06-07	B-c-f-g	4 1/2 x 1/16	3
	1914-15-16	L	4 1/2 x 1	3			1907	D-8-K-H	4 1/2 x 1	3
	1914-15-16	F	3 1/2 x 1	3			1908-09-10	F	4 1/2 x 1/16	3
	1916	H	3 1/2 x 3/16	3			1908-09	G	4 1/2 x 1/16	3
	1913	36	3 1/2 x 1	3			1908	D-8	4 1/2 x 1	3
1914-15	40	4 1/2 x 1	3	1908	5		4 1/2 x 1/16	3		
Allen	1914-15	34-35	3 1/2 x 1	3	1908-09-10	10	3 1/2 x 3/16	3		
	1916	37	3 1/2 x 1	3	1909-10	16-17	4 1/2 x 1/16	3		
	American	1908	Roadster	5 1/2 x 1	3	1910	7A	5 x 1	4	
		1909-10-11-12	Traveler	5 1/2 x 1	4	1910	19	4 1/2 x 1	3	
		1912	Scout	3 1/2 x 1	3	1910-11	41-14	4 1/2 x 1/16	3	
		1913	Traveler	5 1/2 x 1	4	1910-11-12	2A	4 1/2 x 1/16	3	
		Apperson-Jack Rabbit	1914	Scout	4 x 1	3	1911	21	4 1/2 x 1	3
			642-644-646		4 x 1	3	1911	26-27	4 x 5/16	3
			696		5 1/2 x 1	3	1911	32-33	3 1/2 x 3/16	3
			Auburn	1910	4-30	4 1/2 x 1	3	1911	38-39	4 1/2 x 1/16	3
4-40				4 1/2 x 1	3	1912	34-35-36	3 1/2 x 3/16	3	
4-50				5 1/2 x 1	3	1912	28-29-4	4 x 5/16	3	
1911-12-13-14	4-45			4 1/2 x 1	3	1912	43	4 1/2 x 1/16	3	
1911-12-13	4-55			4 1/2 x 1	3	1913	30-31	4 x 5/16	3	
1914	6-55			4 1/2 x 1	3	1913	40	4 1/2 x 1	3	
1915	4-40			4 x 1	3	1913	24-25	3 1/2 x 3/16	3	
1915	6-45	3 1/2 x 1		2	1913-14	3-4	3 x 3/16	3		
1916	6-60	4 1/2 x 1		3	1914	B-24, B-25, B36, B37	3 1/2 x 3/16	3		
1916	6-16	3 1/2 x 1		2	B38, B55, Ex24, Ex25	3 1/2 x 3/16	3			
1916	S	3 1/2 x 1	2	1915	C24, C25, Cx24, Cx25, CXL, C36, C37, C54, C55, C43	3 1/2 x 3/16	3			
Auto-Car	1909	D	4 7/32 x 5/16	3	1916	D44, D45, D46, D47, Dx44, Dx45, DxL45, Dr44, Dr45, DRL45, D54, D55, D4, V Special	3 1/2 x 3/16	3		
	1909	E	4 1/2 x 5/16	3	1916	4 x 5/16	3			
	1910-11-12	F	4 5/16 x 1	3	1916	4 1/2 x 1/16	3			
	1915	J	4 1/2 x 1	3	1916	4 1/2 x 1	3			
	1914	40	4 1/2 x 1	3	1915	51-8 Cyl.	3 1/2 x 3/16	3		
	1915	4-36	3 1/2 x 3/16	3	1916	3 1/2 x 3/16	3			
	1916		3 1/2 x 1	3	1908	G	5 1/2 x 3/16	3		
	1909	T-18	4 1/2 x 1	4	1909-10	K	5 1/2 x 3/16	3		
	1909	T-20	4 x 1	4	1909	H	4 x 5/16	3		
	1910	T-22	4 x 1	4	1909	L	4 1/2 x 1/16	4		
Avery	1910-11-12	T-24	4 1/2 x 1	4	1910	T	4 1/2 x 1	4		
	1910-11-12	T-21	4 1/2 x 5/16	4	1911	H-H2	4 x 5/16	3		
	1913-14-15	T-21	4 1/2 x 5/16	4	1911	M	4 1/2 x 5/16	3		
	1916	XX1	4 1/2 x 5/16	4						
	1911-12-13-14	2 and 3 Ton	4 1/2 x 1	4						
	1912	5 Ton	4 1/2 x 1	4						
	1913-14	5 Ton	5 1/2 x 1	4						
	1913-14	1 Ton C	4 1/2 x 1	4						
	1915-16	1 Ton C	4 1/2 x 1	3						
	1916	3 Ton A	4 1/2 x 1	4						
1916	2 and 3 Ton B	4 1/2 x 1	4							
1916	5 Ton B	5 1/2 x 1	4							



The GIBSON COMPANY INC. INDIANAPOLIS

PISTON RINGS—Continued

Will Fit	Model	Style	Size	No.	Will Fit	Model	Style	Size	No.	
Cartercar	1911	T	4½x1	4	Crow-Elkhart Detroit	1916	30	3½x3/16 3		
	1912	R	4½x5/16 3			1911-12-13		3½x5/16 3		
	1912	S	4½x5/16 3			1913	A	3½x3/16 3		
	1912	H	4½x5/16 3			1914-15	C	3½x3/16 3		
	1913	5-5A	4½x5/16 3			1915-16		3½x3/16 3		
Case	1914	7	3½x1	3	Dodge E. M. F. (See Studebaker) Empire	1908-09-10	A and B-C	3½x1	4	
	1914	5	4½x5/16 3			1911	C	3½x1	3	
	1914	9	3½x3/16 3			1912	25	3½x3/16 3		
	1910	K	4½x1	4		1913-14	31	3½x3/16 3		
	1911	L	4½x1	4		1915	31-40	3½x1	3	
Chadwick Chalmers	1912-13-14	M-O	4½x1	4	Federal	1916	40	3½x1	3	
	1913	N	4½x1	4		1912	C and D	4½x1	4	
	1914	S	4½x1	4		1913-14-15	G and H, J and K	4½x3/16 3		
	1914	R	3½x1	3						
	1915	R-2	3½x3/16 3							
Chandler-Six	1915	R-30	3½x3/16 3		Fiat	1916	M	4½x3/16 3		
	1916	6-40-32E	3½x3/16 3			1909-10-11-12-13 14-15-16	54-56 110/M/M 6M/M 4			
	1913	14	3½x1	3		1909-10-11-12-13 14-15-16	55 130 M/M 6M/M 4 Racer 142 M/M 8M/M 4			
	1914	15	3½x1	3		Flanders	1916	All Models	4 x3/16 4	
	1915	16	3½x1	2			Discontinued	4 x3/16 4		
1916	16B	3½x3/16 3		Ford Franklin	1908-09-10		All Models	3½x1	3	
1916	16L Top Groove	3½x1	2		1908-10-11		DH	4½x1	3	
1916	16-B Others	3½x1	2		1908-10-11		GK1-2-3-4-5-6	3½x1	3	
1908-12	D	3½x2 1/2 4			1911-12-13	L-2-3-4-5	D-M G and H	4 x1	3	
1911-15	F	4½x2 1/2 4			1911	H	4½x1	3		
Chase	1911-15	J	4½x2 1/2 4		Garford	1916-12-13-14-15	M	3½x1	3	
	1913-15	M	4½x2 1/2 4			1908-09	G3-G5-G6	4½x1	4	
	1915	T	3½x3/16 3			1908-10-11	G4-G7-H Trucks, A, B and C Trucks	4½x1 4		
	1915	R	4½x3/16 3			1911	G12-G14	4½x1	4	
	1915	O	4½x3/16 3				D and J Truck			
Chevrolet	1916	A	3½x3/16 3		Glide	1911	G15	3½x1	4	
	1913	B and O	4½x1	3		1908-09-10	GS-R and GS, R-45	4½x1	4	
	1914-15	C	3 9/16x1	3		11-12-13-14	S 45			
	1914-15	Baby Grand	3 11/16x3/16 3			1912-13-14	36	4½x1	3	
	1914-15	Royal Mail, Light Six	3 5/16x3/16 3			1915	30	3½x3/16 3		
Cole	1914-15	Classic 3 9/16x1	3		Gramm	1915-16	Six 40	3 x3/16 3		
	1915	Monroe 16	3 x3/16 2			1911	R	4½x1	3	
	1916	Four-Ninety	3 11/16x3/16 3			1912	3-E	4½x1	3	
	1910		4 x5/16 3			1912	25C	3½x1	3	
	1911		4½x5/16 3			1914 B. A. Gramm 1 Ton		3½x3/16 3		
Continental (Truck)	1912-13-14-15	13-50	4½x5/16 3		2 and 3½ Ton		4½x3/16 3			
	1913	13-60, 13-60	4½x5/16 3		1 and 1½ Ton		3½x3/16 3			
	1914	*11 Models	4½x5/16 3		181-1 Ton		4½x3/16 3			
	1914	10-1, 4-40	4½x5/16 3		2 Ton		4½x3/16 3			
	1915	Series 30	4½x5/16 3		3½ Ton		4½x3/16 3			
Continental	1910-11-12	29-21-23-26	4½x1	4	Great Western	1908	14 and 18	5 x5/16 4		
	1913	27	4½x1	4		1908	16	5 x1	4	
	1909-10	R	4½x1	4		1909	20	4 x1	4	
	1911	1C	4½x1	4		1909	21	4½x1	4	
	1912-13-14-15	1C	4½x1	3		1909	22	5 x1	4	
Crawford	1912-13-14-15	1E	4½x1	3	Haynes	1910-11-12 13-14	15	30-40	4½x1	4
	1916		3½x3/16 3			1916	Light Six	3 x7/32 3		
	1908-09-10	C-D and E	3½x5/16 3			1908	W	4½x7/16 4		
	1910	F	3½x5/16 3			1909	X	4½x7/16 4		
	1910-11-12	M and L, 15-50-57	4 5/16x1	3		1910-11	19-20	4½x5/16 4		
Crow-Elkhart	1911-12-13-14-15	1355-65-D62-55-56-555	4½x1	3	1912-13	Y	5 x5/16 4			
	1911-12	16-17-20-58-59	4½x1	3	1913	21-22	4½x1	4		
	1913-14-15	CT-2-3-4-D42-45	4 x1	3	1914	23-24	4½x1	4		
	1913-14-15	E42-45	4 x1	3	1914	4 Cyl. 27	4½x1	4		
	1913-14-15	C6-L6-D62-65-66-E65	3½x1	3	1915	4 Cyl. 28	4½x1	4		
Henderson	1913	C-7-8	4½x1	3	Hudson	1915	6 Cyl. 31	4½x1	4	
	1910-11-12	10-11-12-1-12, 50-54	4 x1	3		1914	4 Cyl. 32	4½x1	4	
	1911-12-13-14-15	1355-65-D62-55-56-555	4½x1	3		1915-16	6 Cyl. 30	3½x3/16 2		
	1911-12	16-17-20-58-59	4½x1	3		1912	All Models	4½x1	4	
	1913-14-15	CT-2-3-4-D42-45	4 x1	3		1915	All Models	4½x1	3	
Hupmobile	1913	E42-45	4 x1	3	Interstate	1911	4 Cyl.	4½x1	3	
	1913-14-15	C6-L6-D62-65-66-E65	3½x1	3		1912	6 Cyl.	3½x1	3	
	1913	C-7-8	4½x1	3		1909-10	20	3½x3/16 4		
	1910-11-12	10-11-12-1-12, 50-54	4 x1	3		1911-12	32-33	4 x1	3	
	1911-12-13-14-15	1355-65-D62-55-56-555	4½x1	3		1913	37-54	4½x1	3	
Jackson	1911-12	16-17-20-58-59	4½x1	3	Hupmobile	1914-15-16	6-54	4½x3/16 3		
	1913-14-15	CT-2-3-4-D42-45	4 x1	3		1914-15-16	6-40	3½x3/16 3		
	1913-14-15	E42-45	4 x1	3		1915	CH and HA	3½x3/16 3		
	1913-14-15	C6-L6-D62-65-66-E65	3½x1	3		1916	N-NR-NQ-NU-NL	3½x3/16 3		
	1913	C-7-8	4½x1	3						

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PISTON RINGS—Continued

Will Fit Jackson	Model	Style	Size	No.	Will Fit	Model	Style	Size	No.
	1910-11-12	30-32	4 x 1	3		1915-16	2½ and 3 Tons		
	1910-11-12	40-41-42	4½x1	3			KKL	45/16x1	4
	1910-11	35	4 x5/16 3					45/16x1	4
	1912-14	33-53	4½x5/16 3		Marathon	1910	M-10	4 x 245 3	
	1915-16	48-34	3½x3/16 3			1911	M-11	4½x 245 3	
	1916	348	2½x3/16 3			1912	K-20	3½x1	3
Kissel Kar	1909-10	D9-E9-G9-G10	4½x3/16 3			1912	L30 and M40	4½x 245 3	
	1909-10-11-12	LD-9LD10-LD11	4½x3/16 4			1912	N 50	4½x 245 3	
	1913	LD12-LD13	4½x3/16 4			1913-14	Runner	3½x1	3
	1910-11-12	D-10F-10D-11	4½x3/16 4			1913-14	Winner	4½x5/16 3	
	1913	D12-D13	4½x3/16 4			1913-14	Champion	4½x1	3
	1911-12-13	F11-F12-H-12	4½x3/16 4		Marion	1912-13-14	37-38-37A	4 x1	3
	1914	40-60	4½x3/16 4			1915	C5	4½x1	3
	1914-15	F13-H13-60	4½x3/16 4			1912	46-47-48-18A	4½x1	3
		40-6-60	4 x1	3		1914	50	3½x1	3
	1914-15	48-6-48	4 x1	3		1916	H	3 x5/32 2	
	1915	0-42	3½x3/16 3				K	3 x5/32 3	
	1916	6-60	4½x3/16 4		Marmon	1908	H	5 x7/16 3	
		4-36-6-48	4½x1	3		1909	50	5½x7/16 3	
		6-42	3½x3/16 3			1909-10-11-12	32	4½x7/16 2	
Kline Kar	1910	4-24	3½x9/32 3			1913-14	32-48	4½x7/16 2	
	1910-11	0-50	4 3/32x9/32 3			1914	41	4½x7/16 2	
	1911-12-13	4-30	4 x5/32 3		Maxwell	1915-16	41	4½x3/16 3	
	1914					1914-15	25	3½x1	3
	1911-12-13	4-40-6-60	4½x9/32 3			1914-15	35	4 x1	3
	1912-13	6-50	4 1/32x9/32 3			1915	6-50	4½x1	3
	1914	4-40 and 6-60	4 5/16x9/32 3		Maxwell-Briscoe	1916	25	3½x3/16 3	
	1915	6-50	4½x9/32 3			1908	HD	5x5/16 3	
	1916	Series E636	3½x1	2		1909-10-12	A-AA Mascot	4 x5/16 3	
Knox	1908	L and H	4½x5/16 4			1910-13	Q-22	3½x5/16 3	
	1909	O	4½x3/16 4			1910-12	E and G Special		
	1909-10-11-12-13-14	M	5½x3/16 4			1911-12		4½x5/16 3	
	1910-11-12-13-14	R and S	45-31-52			1911-13	A and B-A and C	Messenger	4½x5/16 3
	1913-14	46	5 x3/16 4			1911-12-13	1-50	45/16x1	3
	1915	35	5 x1	3			FA and GAR	Mercury-40	4½x5/16x1
	1910-11-12-13		3 11/16x1	4	Mercer	1911-12	35-R	4½x1	3
	1914	M and O	3½x3/16 3			1911	30M	4½x1	4
	1915					1912	35A and 35B	4½x1	3
						1912-13-14	35C-35J-35K	4½x1	2
						1913-14	35G and 35H-35M	4½x1	2
						1915-16	and 35-O	4½x1	2
							All Models	3½x3/16 2	
							All 4 Cyl. Models	3½x1	3
					Mitchell	1908-09	GH and I-J	4 x1	4
						1909	K	4½x1	4
						1909	L	4½x5/16 4	
						1910-11	RS and T	4½x5/16 4	
						1912	1-2 and 3	3½x5/16 4	
						1912	4 and 5	4½x5/16 4	
						1913	All Models	4½x3/16 2	
						1914	All Models	4½x1	3
						1915	Light Four	4 x1	3
							Light Six		
							Special Six		
							DeLuxe Six		
						1915	B2-35B5-35		
							B6-36	4½x1	3
						1916	C2-42-C5-42		
							C7-42	3½x1	3
					Moline-Knight	1911-12		4 x1	4
						1913		4½x1	4
						1915		4 x1	3
						1916	MK40	3½x3/16 3	
							MK 50	4 x1	3
						1909	C	4½x5/16 4	
						1910	20	4½x1	4
						1910-11	30	4½x1	4
						1910-11	45	4½x1	4
						1911	C	4 13/32x5/16 4	
						1912-13-14	40-48-42	4½x1	4
							39	4 x1	4
						1914-15	6-50	3½x3/16 3	
						1915	6-40	3½x3/16 3	
						1915	4-38	3½x3/16 3	
						1916	6-30	3½x1	2
							6-40	3½x3/16 3	
							6-50	3½x3/16 3	
					National	1908-09-10	N-4 and 6 Cyl. R-B		
						1911	Series S	5 x1	4
						1909	Small 6 Cyl.	4½x1	4
						1912-13-14	Series V	4½x1	4
							Series 3V		
						1914-15	Nat. 6 6 Series		
							AA	3½x3/16 4	
						1916	Six Series AB	3½x3/16 3	
							Highway Six		
							Series AC	3½x3/16 3	
							Highway 12		
							Series AD	2½x7/32 3	
Mais	1911-12-13-14-16	C-D-E-F-G and H	4 x1	4	Oakland	1911-12	30	4 x5/16 3	
	1915	1½ and 2 Tons	4 x1	4		1911	40	4½x5/16 3	
						1912-13	40-42-6-60	4½x5/16 3	



The GIBSON COMPANY INDIANAPOLIS

PISTON RINGS—Concluded

Will Fit	Model	Style	Size No.	Will Fit	Model	Style	Size No.
Oakland	1913-14	25-26-6-48	3 1/2 x 1 3/8	Rambler	1913	S3	4 1/2 x 1 3/8
	1914	43-6-62	4 1/2 x 5/16 x 3	1913	83A	4 1/2 x 3/16 x 4	
	1915	37-49	3 1/2 x 3/16 x 3	Regal	1908		3 1/2 x 5/16 x 4
	1916	32	2 13/16 x 3/16 x 3	1909-10	30		4 x 5/16 x 4
		4 and 8 Cyl.	3 1/2 x 3/16 x 4	1910-11-12	40-40S		4 1/2 x 3/16 x 4
Oldsmobile	1908	Z	4 1/2 x 5/16 x 3	1911-12-13-14	20N-N and F-25		3 1/2 x 3/16 x 4
	1908-09	M-Z-D	4 1/2 x 5/16 x 3	1915	D and R		3 1/2 x 3/16 x 3
	1910	22 Special	4 1/2 x 5/16 x 3	1911-12	301		4 1/2 x 3/16 x 4
		22 Limited	4 1/2 x 5/16 x 4	1912	35H		4 1/2 x 3/16 x 4
	1911	27-28	5 x 1 1/8	1913-14	C		4 x 3/16 x 4
	1912-13	32-33-35	5 x 5/16 x 4	1916	E		3 1/2 x 3/16 x 3
	1912-13	40	4 x 1 1/8		D		3 1/2 x 3/16 x 3
	1913	53	4 1/2 x 5/16 x 3		F		3 x 5/16 x 3
	1914	42	3 1/2 x 1 3/8	Reo	1908-09	A-D	4 1/2 x 1 3/8
	1914	54	4 1/2 x 5/16 x 3	1910-11-12-13	R and S		4 x 5/16 x 3
	1915	42	3 1/2 x 3/16 x 3	1914	R and S		4 1/2 x 5/16 x 3
	1915	55	4 1/2 x 5/16 x 3	1915-16	R and S		4 1/2 x 1 3/8
	1916	43	3 1/2 x 3/16 x 4		6 Cyl. M	3 9/16 x 1 3/8	2
		Flyer	5 x 5/16 x 3		H	4 1/2 x 1 3/8	3
Overland	1909	30-31-32-34-36	4 x 1 1/8	Reo Truck	1910-11-12		
	1910-11-12	38-45-58H	3 1/2 x 3/16 x 3	1913-14			
	1910-11	40-41-42-52-53		1913	J		4 x 5/16 x 3
		54-55	4 1/2 x 1 3/8	1914	J		4 1/2 x 5/16 x 3
	1911	45-46	3 1/2 x 3/16 x 3	1915	J		4 1/2 x 1 3/8
	1911-12-13	50-51-59-60	4 x 3/16 x 3	Saxon	1914	A	2 1/2 x 3/16 x 3
	1915	81	4 x 3/16 x 3	1915	4 Cyl. A		2 1/2 x 3/16 x 3
	1912	60	4 1/2 x 3/16 x 3		6 Cyl. B2		2 1/2 x 3/16 x 3
	1912-13	61-71	4 1/2 x 1 3/8	1916	82		2 1/2 x 3/16 x 3
	1913-15-16	79-80-83-84	4 1/2 x 1 3/8		14		2 1/2 x 3/16 x 3
	1915-16	82-86	3 1/2 x 3/16 x 3	Scripps-Booth	1915	8		2 1/2 x 3/16 x 3
Paige	1910-11-12		3 1/2 x 1 3/8	1916	8		2 1/2 x 3/16 x 3
	1913		4 x 1 1/8		4		3 1/2 x 3/16 x 3
	1914-15	4-36	4 x 3/16 x 3	Selden	1908-09	All Models	4 1/2 x 1 3/8
	1915-16	G6-H6	3 1/2 x 3/16 x 3	1910-11-12	All Models		4 1/2 x 1 3/8
				1913-14			
Pathfinder	1912-13	4	4 1/2 x 1 3/8	1915-16	All Models		3 1/2 x 3/16 x 2
	1914	4-6L	4 1/2 x 3/16 x 3	1916			4 1/2 x 3/16 x 3
	1914	6-B	3 1/2 x 3/16 x 3	Stearns-Knight	1908	30-60	5 1/2 x 1 3/8
	1915	7-ABC	3 1/2 x 3/16 x 3	1909-10-11	30-60		5 1/2 x 1 3/8
	1916	8-ABC	3 1/2 x 3/16 x 3	1910-11	15-30		4 1/2 x 1 3/8
Peerless	1908	R-18	4 1/2 x 5/16 x 4	1910-11	15-30		4 1/2 x 1 3/8
	1908-09	T-20, S-19 and Y-25		1914-15-16	SK-4, SK-6		4 1/2 x 3/16 x 3
	1910	C-28	4 1/2 x 5/16 x 4	1915-16	SK-4, SK-6		4 1/2 x 3/16 x 3
	1910	E-27	4 1/2 x 5/16 x 4	1908	SK-L4-SK8		3 1/2 x 1 3/8
	1910-12-13	D-29-J35-Six	4 x 1 1/8	1909	U		3 1/2 x 1 3/8
		2J-38		1909	X and Y		4 1/2 x 1 3/8
	1911-12-13	F31-G32-H33	5 x 5/16 x 4	1910-11	AA		4 5/16 x 1 3/8
	1914	L37-Six-2L-60		1912-13-14	C and B		4 5/16 x 1 3/8
		3L	5 x 5/16 x 4	1913-14-15	CC-D		4 1/2 x 1 3/8
	1912-13	K36-Six-2J-38	4 1/2 x 5/16 x 4	1915	DD		4 7/16 x 1 3/8
	1914	Six-3J-38	4 x 3/16 x 3	1912	EMF 30		4 x 1 1/8
1914-15	Six-3K-48	4 1/2 x 3/16 x 3	1912	Flanders 20		3 1/2 x 1 3/8	
	5K-48		1913	35		4 1/2 x 1 3/8	
1914-15	Truck TC	4 1/2 x 3/16 x 4	1913	25 Six		3 1/2 x 3/16 x 4	
	3-4-5-6 Ton T		1914-15	Four-Six		3 1/2 x 3/16 x 3	
1915	Light 4 DD 54	3 1/2 x 3/16 x 3	1916	EB Six SD Four		3 1/2 x 3/16 x 4	
1915	Light 6 EE 55	3 1/2 x 3/16 x 3	4-40			3 1/2 x 5/16 x 2	
1916		3 1/2 x 3/16 x 3	4-50			3 1/2 x 5/16 x 2	
Pierce-Arrow	1908	S	4 1/2 x 1 3/8	7 Truck			3 1/2 x 5/16 x 2
	1908-09-13-14	Q-PP-QQ-A	5 x 9/32 x 4	1912-13	A4-B4		4 1/2 x 1 3/8
	1915	A2-37429-A3		1916	C4		4 1/2 x 1 3/8
	1909	P-UU	3 5/16 x 1 3/8	1914-15-16	E4-F4		4 1/2 x 1 3/8
	1909-10-11-12	SS-B-B2	4 1/2 x 1 3/8	1913	B6		4 1/2 x 1 3/8
	1913-14-15	36226-B3		1914-15	F6		4 x 1 1/8
	1910-11-12	UU-C-C2	4 x 1 1/8	1915	HCS-81		3 1/2 x 1 3/8
	1913-14-15	36225-C3		1909	A-B-C		4 x 3/16 x 3
	1910-11-12	QQ	5 1/2 x 9/32 x 4	1910-11-12	D-E-F-G-H		4 1/2 x 1 3/8
	1916	C4	4 x 1 1/8	13	I-K-L-M-N-O-S-T		
		B4	4 1/2 x 1 3/8	1912-13	W-R		3 1/2 x 1 3/8
	A4	5 x 9/32 x 3	1913-14	R series 11		4 x 1 1/8	
Premier	1909-10	P-V-4-W-6	4 1/2 x 1 3/8	1914-15	Series 9		4 1/2 x 1 3/8
	1911-12-13	4 Cyl. 6 Cyl. 4 1/2 x 1 3/8		Series 12			
		Series M 6-60		Series 10			3 1/2 x 3/16 x 3
	1913-14-15	Z-6-49-6-50	4 x 1 1/8	Series 14			
	1914	A	3 1/2 x 3/16 x 3	1915	Series 15		3 1/2 x 3/16 x 4
Pullman	1908	H	3 1/2 x 1 3/8	22			3 1/2 x 1 3/8
	1908	I and J	4 15/16 x 5/16 x 3	Westcott	1910-12-13	J-K-L-M-4-40	4 1/2 x 3/16 x 4
	1909-10-11-12	K	4 1/2 x 5/16 x 3	1911	RS&U		4 1/2 x 3/16 x 4
	1909	M-4-40	5 x 5/16 x 3	1913	6-50		4 x 3/16 x 3
	1909	L	3 1/2 x 9/32 x 3	1914-15	Series 10		3 1/2 x 1 3/8
	1910-11-12	O-4-30	4 1/32 x 1 3/8	1915	4-Cyl		3 1/2 x 3/16 x 3
	1913-14	4-36	4 1/32 x 1 3/8	6-Cyl			3 1/2 x 3/16 x 3
	1910-11-13	M-4-50	5 1/2 x 5/16 x 3	Whilys-Knight	1914-15	K17-K19	4 x 5 M/M3
	1912-13	4-40-6-60	4 15/32 x 1 3/8	Previously Garford	1916	S4	4 1/2 x 1 3/8
	1914	4-44-6-60	4 1/2 x 1 3/8	1908-10-11	XVI-17A		4 1/2 x 1 3/8
	1914	6-46	3 1/2 x 3/16 x 3		17B-17C-17D		
1915	6-48	3 1/2 x 3/16 x 3	1914	M/20		4 1/2 x 1 3/8	
1916	All Models	3 1/2 x 3/16 x 3	1914	M/20		4 1/2 x 3/16 x 4	
Rambler	1908-09	34-34A	4 1/2 x 5/16 x 4	1915	M/21		4 1/2 x 3/16 x 4
	1910-11	44-53-63		1915	M/21		4 1/2 x 1 3/8
	1908-09-10	31-37-41-45	5 x 5/16 x 4	1909	17		4 1/2 x 5/16 x 3
		47-54-55		1909-10	18-18A		5 x 5/16 x 3
	1911-12	61-65-74-75-76	5 x 5/16 x 3	1916	22		4 1/2 x 1 3/8
	1912-13	73	4 1/2 x 1 3/8		22A		3 1/2 x 1 3/8



VALVE SPRING RELEASE, LIFTERS, GRINDERS AND AUTO TRAYS

Chain Valve Spring Release

This is without doubt the most practical tool ever made to remove valves. Will fit any motor. The lever has a narrow fork on one end and a wide one at the other to accommodate valves having split washer instead of pins to hold the spring on the stem.

Complete, nickel plated,
each\$0.50
Each..D.P. \$0.66



Gemco Valve Spring Release



This valve tool is made entirely of pressed steel. The spring ratchet device holds the valve spring firmly in place after being compressed by the fulcrum action of the valve tool, enabling the pin to be easily extracted from the stem. It can be used on practically any type of motor.

Gemco Valve Spring Release, each\$0.50
Each..D.P. \$0.55

Vlcek Valve Lifter



This is the only drop forged valve lifter on the market.

The sliding cam increases the leverage as the valve spring is compressed and allows quick action with greatest ease.

Each\$1.25
Each..D.P. \$1.88

Handy Valve Lifter



Constructed of the best spring steel. Goes into the port hole of an engine, and its knurled edges engages the sides of the slot in a valve by a slight pressure of the fingers, and the valve may then be easily and securely removed.

There has never been a tool designed for picking the valves out of an engine, and this Handy Valve Lifter is something absolutely new. It is a labor-saving device that should be in every garage.

Each\$0.50
Each..D.P. \$0.66

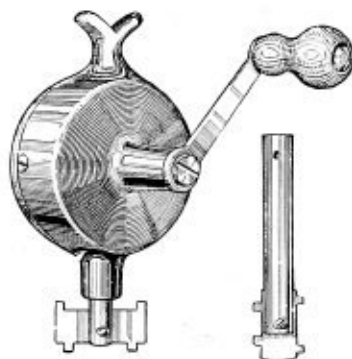
Mossberg Valve Grinder



No. 610 Mossberg Universal Valve Grinder will fit valve tops on all cars, whether slotted or drilled with two holes. The brace type is admittedly the ideal valve grinding construction and this particular tool is recommended by practical automobile mechanics. For use on Ford valves or other drilled tops bring down the two wings and secure them tightly in desired position with knurled nut. If valve tops are slotted, loosen the nut and swing the two wings back onto shank and fasten them out of the way by turning up again on knurled nut. Length 15½ inches over all, made of finest steel bright finish with wooden handle and top.

Each\$1.00
Each..D.P. \$1.65

Turko Valve Grinder



The Turko Valve Grinder permits the operator to grind all valves of automobile engines or other internal combustion engines without taking down the engine. The shaft carrying the grinding bit makes one step forward and return for every revolution of the crank, seven complete revolutions of the crank carrying the grinding bit completely around the valve seat; yet the gear is so designed that the grinding bit never comes to a stop twice at the same point on its way round the valve seat. Substantially made with die cast gears and handsomely finished in nickel plate. Indispensable to the garage manager and makes it possible for any person to take care of his own engine.

Each\$2.25
Each..D.P. \$3.55

Ideal Auto Tray



The Ideal Auto Tray is of hardwood construction throughout. Natural finish. Fitted with ball bearing caster and neatly upholstered head rest. Size 22 x 36 inches.

Each\$2.00
Each..D.P. \$3.00



The GIBSON COMPANY INDIANAPOLIS

PLIERS

Combination Pliers



These Pliers are drop forged of the best tool steel, the joint is carefully milled and they are finished in a first class manner. Guaranteed in every respect.

No. 55 Combination Pliers, 6-inch, black.....\$0.30
Dozen...D.P. \$6.00
No. 355 Combination Pliers, 6-inch, nickeled......40
Dozen...D.P. \$8.33



No. 355 Combination Pliers, 8-inch, nickeled.....\$0.60
Dozen...D.P. \$10.00
No. 355 Combination Pliers, 10-inch, nickeled......75
Dozen...D.P. \$13.55



We present here an exceptionally high grade tool, not only in quality, but in finish. This tool is carefully forged from 60-carbon steel and is accurately machined. The knurled handles are a distinct feature and add greatly to the beauty of the pliers.

Per Pair
No. 356 Combination Pliers, 5½-inch, nickeled.....\$0.45
Dozen...D.P. \$8.33
No. 356 Combination Pliers, 6-inch, nickeled......50
Dozen...D.P. \$9.33
No. 356 Combination Pliers, 8-inch, nickeled......65
Dozen...D.P. \$11.66
No. 356 Combination Pliers, 10-inch, nickeled......80
Dozen...D.P. \$14.44



Distinctly a high grade tool in quality, its utility and finish. Forged from 60-carbon steel, accurately machined and correctly finished with knurled handles.

No. 305 Victor Universal Pliers, 7-inch, nickeled.....\$0.75
Dozen...D.P. \$13.32

Slip Joint Side Cutting Pliers



These Pliers are made of a special cutting plier steel, cuts eight-penny box nails with ease, owing to the immense leverage and shape of handles. Is highly nicked plated with beautifully knurled handles, and the words "Forged Steel" struck inside of same. Has two wire cutters, one on either side of fulcrum. Has proved a ready seller, taking the place of both cheap side cutting pliers as well as all combination pliers.

No. 1873 Slip Joint Side Cutting Pliers, 7-inch, per pair...\$0.75
Dozen...D.P. \$13.32

Lap Joint Side Cutting Pliers



Handsome finished with knurled handles. This tool is strictly high grade. It is carefully forged from 60-carbon steel and is accurately machined. Recognized immediately by mechanics as an exceptional tool.

Lap Joint Side Cutting Pliers

Prices

No. 1801 Side Cutting Pliers, 6-inch, per pair.....\$0.90
Dozen...D.P. \$16.00
No. 1801 Side Cutting Pliers, 7-inch, per pair......110
Dozen...D.P. \$20.00
No. 1801 Side Cutting Pliers, 8½-inch, per pair......135
Dozen...D.P. \$23.33



No. 1863 Combination Pliers, 9-inch, nickeled, per pair....\$0.75
Dozen...D.P. \$12.44



No. 1903 Thin Nose Combination Pliers, jaws made additional length to insure greater reach and employ two grips, length 7 inches, full nickel, each.....\$0.80
Dozen...D.P. \$13.55



No. 1923 Bent Nose Combination Pliers, the pliers for odd places that are difficult to reach, length 8 inches, full nickel, each.....\$0.85
Dozen...D.P. \$16.00



This is a beautiful as well as serviceable tool. Forged from a superior quality of cutting plier steel.
No. 2601 Diagonal Pliers, 5½-inch, per pair.....\$0.95
Dozen...D.P. \$16.00



No. 1631 Curved Needle Nose Pliers, 5½-inch, nickeled, per pair.....\$0.95
Dozen...D.P. \$17.33



No. 1681 Long Nose Side Cutting Chain Pliers, 6-inch, nickeled, per pair.....\$0.85
Dozen...D.P. \$16.00



No. 1593 Milliner's Pliers, 4½-inch, nickeled, per pair....\$0.90
Dozen...D.P. \$16.66



No. 1701 Short Nose Pliers with cutter, nickeled, per pair...\$0.75
Dozen...D.P. \$13.32



WRENCHES AND PLIERS

Crescent Adjustable Wrench



The Crescent Wrench can be used in practically every opening where the solid wrench can be used. The 10-inch size takes the place of nine sizes of solid wrenches. Other sizes proportionately.

The handle is drop forged from best carbon steel; the movable jaw from special alloy steel showing four times the strength of ordinary steel; the entire wrench is carbonized, hardened in oil, and tempered. They are neatly finished.

Size 4-inch, Capacity 1/2-inch, each.....	\$0.65
Dozen...D.P. \$11.55	
Size 6-inch, Capacity 3/4-inch, each.....	.65
Dozen...D.P. \$11.55	
Size 8-inch, Capacity 15/16-inch, each.....	.80
Dozen...D.P. \$14.20	
Size 10-inch, Capacity 1 1/4-inch, each.....	1.00
Dozen...D.P. \$17.76	
Size 12-inch, Capacity 1 3/4-inch, each.....	1.25
Dozen...D.P. \$22.22	

The Crescent Silent Salesman



Mounted with Six 4-inch Crescent Wrenches
Size 8 1/2 x 11 1/2 inches

The Crescent Wrench is one of the best tools for the automobile owner that has ever been put on the market.

This display board is made of heavy cardboard, attractively designed and provided with an easel back which locks and will not fall over on a glass show case.

Crescent Wrench Display Board with six 4-inch Crescent Wrenches, each.....\$3.90
Each...D.P. \$5.78

Simplex Pliers



Simplex Combination Pliers are drop-forged from a 60-carbon crucible analysis, open-hearth steel, oil-tempered, hand finished, and unconditionally warranted satisfactory. These pliers are so made that by a quarter turn of the handles they can be used on a wide range of sizes of either round pipe or nuts. Nickel finish.

Simplex Combination Pliers, 5-inch, nicked, each.....\$0.40
Dozen...D.P. \$5.55

Motor Kit Combination Pliers



A high-grade tool of the same quality and finish as the Simplex brand. Has knurled or cross-corrugated handles which insures a perfect grip at all times without hurting the hand. Guaranteed satisfactory. The slip joint permits of a wide range of work.

Motor Kit Combination Pliers, 5-inch, weight 3 1/2 ounces, capacity 3/4-inch, each.....\$0.40
Dozen...D.P. \$5.55

Motor Kit Combination Pliers, 6-inch, weight 8 ounces, capacity 1-inch, each......40
Dozen...D.P. \$5.55

CeeTeeCo Combination Pliers



The CeeTeeCo is a high-grade tool, drop forged from 60-carbon open-hearth steel, but machine finished instead of hand finished. The machine finish does not give the high polish of the hand work but makes a very satisfactory and rust-proof finish for all-around work.

The slip joint permits of a wide range of sizes in either round pipe or nuts. CeeTeeCo Pliers are made with cross-corrugated handles, which insures a perfect grip without hurting the hand. They are accurately machined with drilled holes and milled teeth and for all practical purposes are the equal of any plier.

CeeTeeCo Combination Pliers, 5-inch, weight 3 1/2 ounces, capacity 3/4-inch, each.....\$0.35
Dozen...D.P. \$3.89

CeeTeeCo Combination Pliers, 6-inch, weight 8 ounces, capacity 1-inch, each......35
Dozen...D.P. \$3.89



SCREW DRIVERS

Mound Offset Screw Driver No. 27



These screw drivers are made especially to get at screws where a straight tool is not desirable. Made of $\frac{3}{4}$ inch square tool steel.

5-inch, nickel plated, each.....	\$0.25
Dozen...D.P. \$4.00	
6-inch, nickel plated, each.....	.30
Dozen...D.P. \$4.22	
7-inch, nickel plated, each.....	.35
Dozen...D.P. \$4.66	

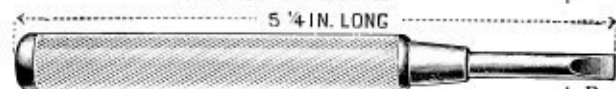
Twin Screw Driver



A very handy tool for work on coils, magnetos, clocks, etc.

Twin Screw Driver, each.....	\$0.10
Dozen...D.P. \$1.45	

No. 3 Screw Driver



No. 3 EDELMANN SCREW DRIVER

This is a practical tool and useful around an automobile.

Each.....	\$0.25
Dozen...D.P. \$4.00	

Four-In-One Screw Driver



This clever little tool is a combination of the several screw drivers shown on preceding page. Each tool fits into the one larger, making a neat compact combination which fits in the vest pocket.

Length over all, $5\frac{1}{2}$ inches.

Each.....	\$0.60
Dozen...D.P. \$10.00	

Three-In-One Screw Driver



Same construction as in the Four-In-One, but does not contain the largest size blade, being a combination of our Twin and Perfecto Screw Driver.

Length over all, $3\frac{3}{4}$ inches.

Each.....	\$0.25
Dozen...D.P. \$5.55	

Perfect Handle Screw Drivers



The Perfect Handle Screw Drivers are the most durable and substantial screw drivers ever placed upon the market. The oval-shaped wood handle gives great leverage and fits the hand perfectly. The end of the handle is very heavy and can be used as a hammer head.

Perfect Handle Screw Driver, length of blade 4 inches, diameter $\frac{1}{4}$ inch, each.....	\$0.40
Dozen...D.P. \$6.66	
Perfect Handle Screw Driver, length of blade 5 inches, diameter $\frac{1}{4}$ inch, each.....	.50
Dozen...D.P. \$7.56	
Perfect Handle Screw Driver, length of blade 6 inches, diameter, $\frac{5}{16}$ inch, each.....	.60
Dozen...D.P. \$9.11	
Perfect Handle Screw Driver, length of blade 7 inches, diameter $\frac{5}{16}$ inch, each.....	.60
Dozen...D.P. \$10.67	
Perfect Handle Screw Driver, length of blade 8 inches, diameter $\frac{3}{8}$ inch, each.....	.75
Dozen...D.P. \$12.22	
Perfect Handle Screw Driver, length of blade 10 inches, diameter $\frac{3}{8}$ inch, each.....	.90
Dozen...D.P. \$15.22	
Perfect Handle Screw Driver, length of blade 12 inches, diameter $\frac{3}{8}$ inch, each.....	1.00
Dozen...D.P. \$16.00	

Perfect Handle Machinist Screw Driver



Perfect Handle Machinist Screw Driver, length over all $9\frac{1}{2}$ inches, length of blade $4\frac{1}{2}$ inches, diameter $\frac{7}{16}$ inch, each.....	\$0.75
Dozen...D.P. \$16.00	
Perfect Handle Machinist Screw Driver, length over all $10\frac{1}{2}$ inches, length of blade 5 inches, diameter $\frac{9}{16}$ inch, each.....	1.00
Dozen...D.P. \$19.78	

The "Triple Lever," Perfect Handle Screw Driver



A very strong screw driver for mechanics and automobilists, with point $\frac{1}{2}$ inch wide and $5/64$ inch thick. A convenient and ingenious arrangement by which the benefit of a variety of extraordinary leverages can be obtained in an instant.

Each.....	\$1.50
Dozen...D.P. \$25.53	

Wood Handle Screw Driver



No. 1001

Wood Handle Screw Driver with forged steel blade. Riveted to hard wood handle. Finished in black rubber enamel.

5-inch blade, each.....	\$0.25
Dozen...D.P. \$3.56	



SCREW DRIVERS

Insulated Screw Driver



No. 87 Insulated Screw Driver. The finest kind of a tool to use around ignition apparatus on the automobile or for electricians' use. Insulated to within 2 inches of end of the blade.

No. 87 Insulated Screw Driver, 2-inch, each.....	\$0.40
Dozen.. D.P.	\$6.67
No. 87 Insulated Screw Driver, 2½-inch, each.....	.40
Dozen.. D.P.	\$6.89
No. 87 Insulated Screw Driver, 3-inch, each.....	.45
Dozen.. D.P.	\$7.44
No. 87 Insulated Screw Driver, 4-inch, each.....	.50
Dozen.. D.P.	\$8.88
No. 87 Insulated Screw Driver, 5-inch, each.....	.55
Dozen.. D.P.	\$9.78
No. 87 Insulated Screw Driver, 6-inch, each.....	.70
Dozen.. D.P.	\$12.00
No. 87 Insulated Screw Driver, 7-inch, each.....	.75
Dozen.. D.P.	\$13.67
No. 87 Insulated Screw Driver, 8-inch, each.....	.90
Dozen.. D.P.	\$15.56

Slim Screw Driver



No. 130J Extra Slim Screw Driver. A very fine tool for magneto-coil use, or anywhere where small screws are used, made from highly polished steel rod, correctly tempered, has a long ferrule and black, friction polished handle.

No. 130J Extra Slim Screw Driver, length of blade 1½-inch, each.....	\$0.30
Dozen.. D.P.	\$4.44
No. 130J Extra Slim Screw Driver, length of blade 2-inch, each.....	.30
Dozen.. D.P.	\$4.66
No. 130J Extra Slim Screw Driver, length of blade 3-inch, each.....	.35
Dozen.. D.P.	\$4.66
No. 130J Extra Slim Screw Driver, length of blade 4-inch, each.....	.35
Dozen.. D.P.	\$5.33
No. 130J Extra Slim Screw Driver, length of blade 5-inch, each.....	.35
Dozen.. D.P.	\$5.88

All Steel Screw Driver



Tool Steel Drop Forged

All Steel Screw Drivers, ¼-inch, polished, square shank, length 6 inches, each.....	\$0.40
Dozen.. D.P.	\$7.22
All Steel Screw Drivers, ⅜-inch, polished, square shank, length 7½ inches, each.....	.50
Dozen.. D.P.	\$8.88
All Steel Screw Drivers, ½-inch, polished, square shank, length 9 inches, each.....	.60
Dozen.. D.P.	\$10.66

Champion Screw Driver



Forged from toughest steel. Intended for and will stand harder work than any other screw driver. Stronger construction. Tougher temper. Finer finish. Every blade tested to split a screw driver head.

Champion Screw Drivers, 4-inch, each.....	\$0.35
Dozen.. D.P.	\$5.22
Champion Screw Drivers, 5-inch, each.....	.45
Dozen.. D.P.	\$6.12
Champion Screw Drivers, 6-inch, each.....	.50
Dozen.. D.P.	\$7.22
Champion Screw Drivers, 7-inch, each.....	.60
Dozen.. D.P.	\$8.55
Champion Screw Drivers, 8-inch, each.....	.70
Dozen.. D.P.	\$9.66
Champion Screw Drivers, 10-inch, each.....	.85
Dozen.. D.P.	\$10.78

Yankee Screw Driver



No. 10 Yankee Ratchet Screw Driver, 2-inch, each	\$0.50
Dozen.. D.P.	\$7.78
No. 10 Yankee Ratchet Screw Driver, 3-inch, each	.70
Dozen.. D.P.	\$10.00
No. 10 Yankee Ratchet Screw Driver, 4-inch, each	.80
Dozen.. D.P.	\$10.78
No. 10 Yankee Ratchet Screw Driver, 5-inch, each	.90
Dozen.. D.P.	\$11.78
No. 10 Yankee Ratchet Screw Driver, 6-inch, each	1.00
Dozen.. D.P.	\$14.00

Yankee Ratchet Spiral



No. 30 Yankee Ratchet Spiral Screw Driver, each	\$2.30
Dozen.. D.P.	\$40.00

"Telegraph" Screw Driver



Round Blade, Crucible Steel, carefully hardened and tempered, finished bright. Hard Wood Handle.

No. 230 Telegraph Screw Driver, 2-inch, each.....	\$0.30
Dozen.. D.P.	\$3.00
No. 230 Telegraph Screw Driver, 3-inch, each.....	.30
Dozen.. D.P.	\$3.11
No. 230 Telegraph Screw Driver, 4-inch, each.....	.30
Dozen.. D.P.	\$3.33
No. 230 Telegraph Screw Driver, 5-inch, each.....	.35
Dozen.. D.P.	\$3.66
No. 230 Telegraph Screw Driver, 6-inch, each.....	.40
Dozen.. D.P.	\$3.89
No. 230 Telegraph Screw Driver, 7-inch, each.....	.40
Dozen.. D.P.	\$4.00
No. 230 Telegraph Screw Driver, 8-inch, each.....	.45
Dozen.. D.P.	\$4.44



The GIBSON COMPANY INDIANAPOLIS

BILLINGS & SPENCER'S WRENCHES

Billings & Spencer Wrench Sales Board No. 3

The board is designed to hang in a convenient position back of the counter, or to stand up on the floor.

It is handsomely finished with trademark at the top.

The wrenches hang in one-half dozen lots and they are selected as being the sizes and styles most in demand.

The dealer is entitled to one of these boards free on condition that he purchase the wrenches complete as per list, full finished, and in lots of one-half dozen each.

A printed card giving the number, bolt sizes and milled openings of the wrenches as placed on the board will be furnished with each board.

No. 3 B. & S. Wrench Sales Board, complete with 6 each of the 35 sizes (210 in all) full finished wrenches as shown by list that follows, each D.P. \$140.76

Prices are also given for wrenches when desired without the board.

Wrenches on No. 3 Sales Board

Engineer's Wrenches—15° Angle, Double Head

Number	S.A.E. Std. Nuts and Cap Screws Inches	Milled Openings Inches	Length Inches	Price	Retail
1105	$\frac{1}{4}$ — $\frac{5}{16}$	$\frac{3}{8}$ — $\frac{1}{2}$	4½	D.P. \$0.32	\$0.22
1118-Sp.	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	5	D.P. .46	.30
1126	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{1}{2}$	8	D.P. .68	.45
1132-Sp.	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	9	D.P. .85	.58
1140	$\frac{1}{2}$ — $\frac{3}{4}$	$1\frac{1}{2}$ — $1\frac{1}{4}$	11½	D.P. 1.40	.95

Check Nut or "Thin" Wrenches—15° Angle, Double Head

Number	Diameter of Screw Inches	Milled Openings Inches	Length Inches	Price	Retail
1350	$\frac{1}{4}$ — $\frac{1}{4}$	$\frac{1}{4}$ — $\frac{1}{2}$	4½	D.P. \$0.38	\$0.25
1352	$\frac{3}{8}$ — $\frac{3}{8}$	$\frac{1}{2}$ — $\frac{3}{4}$	4½	D.P. .38	.25
1354	$\frac{1}{2}$ — $\frac{1}{2}$	$\frac{3}{4}$ — $\frac{1}{2}$	5½	D.P. .48	.30
1356	$\frac{3}{4}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{3}{4}$	7	D.P. .60	.40
1358	$\frac{1}{2}$ — $\frac{1}{2}$	$\frac{3}{8}$ — $\frac{3}{8}$	7	D.P. .60	.40

Engineer's Wrenches—15° Angle, Double Head

Number	U. S. S. Nuts Inches	Milled Openings Inches	Length Inches	Price	Retail
1101	$\frac{1}{8}$ — $\frac{1}{8}$	$\frac{1}{8}$ — $\frac{1}{2}$	4	D.P. \$0.26	\$0.20
1107	$\frac{1}{8}$ — $\frac{1}{8}$	$\frac{1}{4}$ — $\frac{3}{8}$	4½	D.P. .32	.25
1112	$\frac{1}{8}$ — $\frac{1}{8}$	$\frac{3}{8}$ — $\frac{1}{2}$	5	D.P. .38	.22
1118	$\frac{1}{8}$ — $\frac{1}{8}$	$\frac{1}{2}$ — $\frac{3}{4}$	6	D.P. .46	.30
1123	$\frac{1}{8}$ — $\frac{1}{8}$	$\frac{3}{4}$ — $\frac{1}{2}$	6¾	D.P. .56	.38
1128	$\frac{1}{8}$ — $\frac{1}{8}$	$\frac{1}{2}$ — $\frac{3}{4}$	8	D.P. .68	.45
1134	$\frac{1}{8}$ — $\frac{1}{8}$	$\frac{3}{4}$ — $\frac{1}{2}$	10	D.P. 1.08	.70
1140	$\frac{1}{8}$ — $\frac{1}{8}$	$1\frac{1}{4}$ — $1\frac{1}{4}$	11½	D.P. 1.40	.95

Number	U. S. S. Nuts and Cap Screws Inches	Milled Openings Inches	Length Inches	Price	Retail
1109	$\frac{1}{4}$	$\frac{1}{4}$ — $\frac{1}{2}$	5	D.P. \$0.38	\$0.25
1112	$\frac{3}{8}$	$\frac{1}{2}$ — $\frac{3}{4}$	5	D.P. .38	.25
1116-Sp.	$\frac{1}{2}$	$\frac{3}{4}$ — $\frac{1}{2}$	6	D.P. .46	.30
1120-Sp.	$\frac{3}{4}$	$\frac{1}{2}$ — $\frac{3}{4}$	6¾	D.P. .56	.38
1126	$\frac{1}{2}$	$\frac{3}{4}$ — $\frac{1}{2}$	8	D.P. .68	.45
1134	$\frac{3}{4}$	$\frac{1}{2}$ — $\frac{3}{4}$	10	D.P. 1.08	.70
1139	$\frac{1}{2}$	$1\frac{1}{4}$ — $1\frac{1}{4}$	11½	D.P. 1.40	.95

Billings & Spencer Wrench Sales Board No. 3—Continued

Light Service Wrenches

Number	Milled Openings Inches	Length Inches	Price	Retail
2000	$\frac{3}{8}$ — $\frac{1}{2}$	6¼	D.P. \$0.38	\$0.25
2007	$\frac{1}{2}$ — $\frac{3}{4}$	7½	D.P. .47	.30
2017	$\frac{3}{4}$ — $\frac{1}{2}$	8¼	D.P. .58	.40
2025	$\frac{1}{2}$ — $\frac{3}{4}$	9¼	D.P. .72	.48
2033	$\frac{3}{8}$ — $\frac{1}{2}$	10¾	D.P. .90	.60

Number	S.A.E. Nuts and Cap Screws Inches	Milled Openings Inches	Length Inches	Price	Retail
2001	$\frac{1}{4}$ — $\frac{5}{16}$	$\frac{3}{8}$ — 1	6¼	D.P. \$0.38	\$0.25
2013	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	8¼	D.P. .58	.40
2026	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{1}{2}$	9¼	D.P. .72	.48
2038	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	12	D.P. 1.30	.85
2044	$\frac{1}{2}$ — $\frac{3}{4}$	$1\frac{1}{2}$ — $1\frac{1}{4}$	12	D.P. 1.30	.85



Billings & Spencer Wrench Sales Board No. 4

No. 4 B. & S. Wrench Sales Board complete with 6 each of 21 sizes (126 in all) full finished wrenches as shown by list that follows:

Per Board, complete, D.P. \$82.38

Prices are also given when wrenches are wanted without board.

Wrenches on No. 4 Sales Board

Light Service Wrenches—Double Head

Number	S.A.E. Nuts and Cap Screws Inches	Milled Openings Inches	Length Inches	Price	Retail
2000	$\frac{1}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	6¼	D.P. \$0.38	\$0.25
2007	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	7½	D.P. .47	.30
2017	$\frac{1}{2}$	$\frac{3}{4}$ — $\frac{1}{2}$	8¼	D.P. .58	.40
2026	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	9¼	D.P. .72	.48
2038-Sp.	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $1\frac{1}{4}$	12	D.P. 1.30	.85

Number	S.A.E. Nuts and Cap Screws Inches	Milled Openings Inches	Length Inches	Price	Retail
2000	$\frac{1}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	6¼	D.P. \$0.38	\$0.25
2007	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	7½	D.P. .47	.30
2017	$\frac{1}{2}$	$\frac{3}{4}$ — $\frac{1}{2}$	8¼	D.P. .58	.40
2025	$\frac{3}{4}$	$\frac{1}{2}$ — $\frac{3}{4}$	9¼	D.P. .72	.48
2033	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	10¾	D.P. .90	.60

Engineer's Wrenches—15° Angle, Double Head

Number	S.A.E. Inches	Milled Openings Inches	Length Inches	Price	Retail
1104	$\frac{1}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	4½	D.P. \$0.32	\$0.22
1110	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	5	D.P. .38	.25
1111	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{1}{2}$	5	D.P. .38	.25
1120-Sp.	$\frac{3}{4}$	$\frac{1}{2}$ — $\frac{3}{4}$	6¾	D.P. .56	.38
1126	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{1}{2}$	8	D.P. .68	.45
1136-Sp.	$\frac{3}{4}$ — $\frac{1}{2}$	$1\frac{1}{4}$ — $1\frac{1}{4}$	10	D.P. 1.08	.70

Number	S.A.E. Inches	Milled Openings Inches	Length Inches	Price	Retail
1114	$\frac{1}{4}$ — $\frac{5}{16}$	$\frac{3}{8}$ — $\frac{1}{2}$	6	D.P. \$0.46	\$0.30
1119	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	6¾	D.P. .56	.38
1120	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{1}{2}$	6¾	D.P. .56	.38
1133	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{3}{8}$ — $1\frac{1}{4}$	9	D.P. .85	.58
1140	$\frac{1}{2}$ — $\frac{3}{4}$	$1\frac{1}{4}$ — $1\frac{1}{4}$	11½	D.P. 1.40	.95



BILLINGS & SPENCER'S WRENCHES—Continued

Wrench Sales Board No. 5

For T Handle Socket Wrenches

The board is designed to hang in a convenient position back of the counter, or to stand up on the floor.

It is handsomely finished with trademark at the top.

The wrenches hang in convenient lots, and they are selected as being the sizes and styles most in demand.

Board No. 5 contains 35 Socket Wrenches, comprising three wrenches each of 9 sizes, and two each of the remaining 4 sizes.

The dealer is entitled to one of these boards free on condition that he purchase the wrenches on the board as stated above. A printed card giving the number, bolt sizes, milled openings, etc. of the wrenches as placed on the board will be furnished with each board.

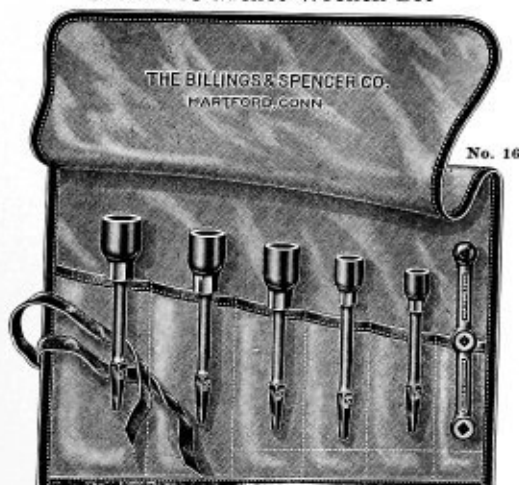


No. 5 B. & S. Socket Wrench Sales Board, complete with 35 full finished socket wrenches, each.....D.P. \$34.66
Wrenches singly at prices below.

Wrenches of No. 5 Sales Board—Socket Wrenches

No.	U.S.S. Nut Inches	Cap Screw Inches	S.A.E. Inches	Across Flats Inches	Length Inches	Dia. Head Inches	Price
723A	1/4	3/8	3/8	33/64	5 1/2	3/4	D.P. \$0.65
724A	1/4	3/8	3/8	37/64	5 3/4	3/4	D.P. .72
724B	3/8	3/4	3/4	39/64	5 3/4	3/4	D.P. .72
725A	1/2	3/4	3/4	41/64	6 1/8	1	D.P. .79
725B	3/8	3/4	3/4	45/64	6 1/8	1 1/4	D.P. .89
725C	1/2	3/4	3/4	49/64	6 1/8	1 1/2	D.P. .89
726A	3/8	3/4	3/4	51/64	7	1 1/4	D.P. .97
726B	1/2	3/4	3/4	53/64	7	1 1/4	D.P. .97
726C	3/8	3/4	3/4	57/64	7	1 1/4	D.P. 1.10
727A	1/2	3/4	3/4	63/64	7 1/2	1 1/2	D.P. 1.24
727B	3/8	3/4	3/4	1 1/64	7 7/8	1 1/2	D.P. 1.24
728A	3/4	1	1	1 5/64	8 3/8	1 3/4	D.P. 1.40
729A	3/4	1	1	1 9/32	9 1/8	1 3/4	D.P. 1.90

Bit-Brace Socket Wrench Set



Number	U. S. Std. Bolt Size Inches	Openings Inches	Length Inches 1/2	Price Finished
923A	1/4	33/64	4 1/2	D.P. \$0.65
924B	1/4	37/64	5 1/4	D.P. .72
925B	3/8	45/64	5 1/4	D.P. .89
926A	1/2	51/64	5 3/4	D.P. .97
926C	3/8	57/64	6	D.P. 1.10
Handle				D.P. .60
Bag				D.P. .60
Complete				D.P. 5.50

Tool Kit

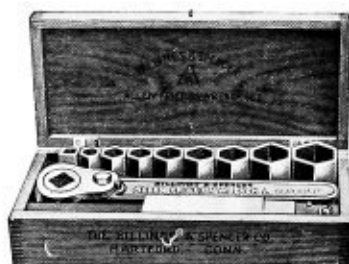


This kit is made up of tools specially adapted to use on Ford cars. They are selected from the well-known Billings & Spencer drop forged line, insuring quality and durability. The bag is made of good quality of canvas, bound edges, and leather strap. The tools are as follows:

- 1 8-inch Auto Wrench
- 1 6-inch Combination Pliers
- 1 9-inch Screw Driver
- 1 Double Head Wrench, openings 1 1/8-in. and 1 1/2-in.
- 1 Double Head Wrench, openings 1/2-in. and 3/4-in.
- 1 Double Head Spark Plug Wrench 1/2-in. and 3/8-in.
- 1 Double Head Hub Cap Wrench 1 1/8-in. and 1 1/2-in.
- 1 Socket Wrench, opening 3/8-in.
- 1 8-ounce Ball Pein Hammer
- 1 Chisel, 1 Punch, 1 Cotter Pin Tool, 1 File

Each, including bag and tools as above.....\$4.50
Each.....D.P. \$7.22

Allen Friction Wrench Set



Spark Plug Socket, Short Extension, Long Extension, Special Box; 8 Pressed Steel Sockets, Specially Heat Treated.

Consists of the following sizes: 13-32, 17-32, 19-32, 1 1/8, 23-32, 25-32, 31-32, 1 5/8-32 in. hex.

No. 9 Allen Friction Wrench Set.....\$6.00
Each.....D.P. \$8.88

Allen Friction Ford Special Set

A strictly high grade Wrench Set for Ford cars.

The Allen Friction Wrench, with no lost motion, works in places where no ratchet wrench can be used, including all crank shaft bearings.

Ford Special Set.....\$6.00
Each.....D.P. \$8.88

Same as Size No. 9 except special sockets to fit nuts of the Ford automobile.



The GIBSON COMPANY INDIANAPOLIS

BILLINGS & SPENCER'S WRENCHES—Concluded



Billings & Spencer Wrench Set

No. 2, No. 23, No. 4

Set No. 2, Full Finished

Number	S. A. E. Nuts Inches	Milled Openings Inches	Length Inches	Price	Retail
2001	$\frac{1}{4}$ — $\frac{3}{8}$	$\frac{3}{8}$ — $\frac{1}{2}$	6 $\frac{1}{4}$	D.P. \$0.38	\$0.25
2013	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	8 $\frac{1}{4}$	D.P. .58	.40
2026	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{7}{8}$	9 $\frac{1}{4}$	D.P. .72	.50
2038	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	10 $\frac{1}{4}$	D.P. 1.30	.85
2043	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	12	D.P. 1.30	.85
				D.P. 4.28	3.80
				D.P. .45	.30

Per set in cardboard box
Canvas bag, extra

Set No. 23, Full Finished

Number	S. A. E. Head and Nut Inches	Milled Openings Inches	Length Inches	Price	Retail
2000	$\frac{1}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	6 $\frac{1}{4}$	D.P. \$0.38	\$0.25
2007	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	7 $\frac{1}{8}$	D.P. .47	.30
2017	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{7}{8}$	8 $\frac{1}{4}$	D.P. .58	.38
2026	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{7}{8}$	9 $\frac{1}{4}$	D.P. .72	.48
2038-Sp.	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	12	D.P. 1.30	.85
				D.P. 3.45	2.30
				D.P. .45	.30

Per set in cardboard box
Canvas bag, extra

Set No. 4, Full Finished

Number	S. A. E. Inches	Milled Openings Inches	Length Inches	Price	Retail
2000	$\frac{1}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	6 $\frac{1}{4}$	D.P. \$0.38	\$0.25
2007	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	7 $\frac{1}{8}$	D.P. .47	.30
2017	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{7}{8}$	8 $\frac{1}{4}$	D.P. .58	.38
2025	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{7}{8}$	9 $\frac{1}{4}$	D.P. .72	.48
2033	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	10 $\frac{1}{4}$	D.P. .90	.60
				D.P. 3.05	2.00
				D.P. .45	.30

Per set in cardboard box
Canvas bag, extra

Billings & Spencer Wrench Set

Thin Pattern



Set No. 14, Full Finished

Number	S. A. E. Nuts and Cap Screws Inches	Milled Openings Inches	Length Inches	Price	Retail
1350W	$\frac{1}{4}$ — $\frac{3}{8}$	$\frac{3}{8}$ — $\frac{1}{2}$	4 $\frac{1}{2}$	D.P. \$0.38	\$0.25
1353W	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	5 $\frac{1}{2}$	D.P. .48	.30
1356W	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{7}{8}$	7	D.P. .60	.40
1359W	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	8 $\frac{1}{2}$	D.P. .80	.55
1362W	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	10 $\frac{1}{2}$	D.P. 1.15	.80
				D.P. 3.41	2.50
				D.P. .45	.30

Per set in cardboard box
Canvas bag, extra



Billings & Spencer Wrench Set

These wrenches may be used in combination—a wrench on the screw head with another on the corresponding nut.

Set No. 7, Full Finished

Number	Bolt or Screw Inches	Milled Openings Inches	Length Inches	Price	Retail
1110	$\frac{1}{4}$ — $\frac{3}{8}$	$\frac{3}{8}$ — $\frac{1}{2}$	5	D.P. \$0.38	\$0.25
1114	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	6	D.P. .46	.30
1119	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{7}{8}$	6 $\frac{3}{4}$	D.P. .56	.38
1120	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	6 $\frac{3}{4}$	D.P. .56	.38
1133	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	9	D.P. .85	.60
1140	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	11 $\frac{1}{2}$	D.P. 1.40	.95
				D.P. 4.21	2.75
				D.P. .60	.40

Per set in cardboard box
Canvas bag, extra

Billings & Spencer Wrench Set

No. 8, No. 8 $\frac{1}{2}$ —S. A. E.



Set No. 8, Full Finished

Number	S. A. E. Inches	Milled Openings Inches	Length Inches	Price	Retail
1105	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{3}{8}$ — $\frac{1}{2}$	4 $\frac{1}{2}$	D.P. \$0.32	\$0.22
1118-Sp.	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	6	D.P. .46	.30
1126	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	8	D.P. .68	.45
1132-Sp.	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	9	D.P. .85	.58
1140-Sp.	$\frac{3}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	11 $\frac{1}{2}$	D.P. 1.40	.95
				D.P. 3.71	2.50
				D.P. .45	.30

Per set in cardboard box
Canvas bag, extra

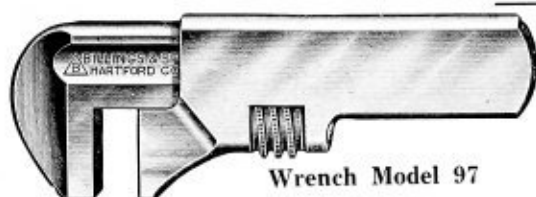
Set No. 8 $\frac{1}{2}$, Full Finished

Number	S. A. E. Inches	Milled Openings Inches	Length Inches	Price	Retail
1104	$\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	4 $\frac{1}{2}$	D.P. \$0.32	\$0.22
1111	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	5	D.P. .38	.25
1120-Sp.	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{4}$	6 $\frac{3}{4}$	D.P. .56	.38
1126	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{4}$ — $\frac{7}{8}$	8	D.P. .68	.45
1136-Sp.	$\frac{3}{4}$	$\frac{1}{2}$ — $\frac{3}{4}$	10	D.P. 1.08	.70
				D.P. 3.02	2.00
				D.P. .45	.30

Per set in cardboard box
Canvas bag, extra



BILLINGS & SPENCER'S WRENCHES—Continued


Wrench Model 97

For use on bicycles, motorcycles, automobiles, etc. B. & S. original design. Millions now in use.

Model 97 B. & S. Wrench, 4½-inch, 1½-inch capacity, weight 5½ ounces, nickel finish, each.....\$0.85
Each...D.P. \$1.33

Model GA


The jaws of this wrench are set at an angle of 25 degrees, insuring greater convenience to the user in reaching for nuts in narrow spaces.

Is drop forged steel of best quality.

Full Finished

No. 1—6-inch, 1½-inch open; retail, each.....\$1.00
Each...D.P. \$2.66
No. 2—8-inch, 1½-inch open; retail, each..... 1.25
Each...D.P. \$1.88
No. 3—10-inch, 1½-inch open; retail, each..... 1.50
Each...D.P. \$2.22

Model G

Full Finished

No. 1—6-inch, 1½-inch open; retail, each.....\$0.90
Each...D.P. \$1.44
No. 2—8-inch, 1½-inch open; retail, each..... 1.25
Each...D.P. \$1.77
No. 3—10-inch, 2½-inch open; retail, each.....1.50
Each...D.P. \$2.33
No. 4—12-inch, 2½-inch open; retail, each..... 2.00
Each...D.P. \$3.11

The Hayden Patent Combined Wire Cutter and Gas Pliers

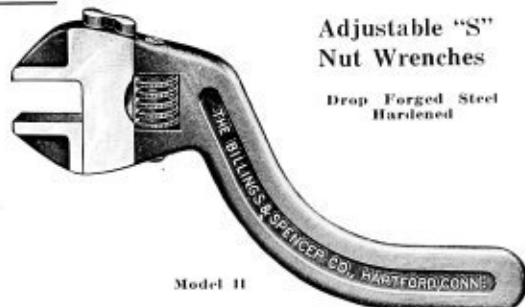
Model N


Handles and jaws drop forged of open-hearth steel and hardened. Wire cutters are interchangeable and made from best tool steel.

No. 1—6-inch; will cut ¼-inch wire; retail, each...\$1.00
Each...D.P. \$1.33
No. 2—8-inch; will cut ⅜-inch wire; retail, each... 1.25
Each...D.P. \$1.66
No. 3—10-inch; will cut ½-inch wire; retail, each... 1.65
Each...D.P. \$2.22

Cutters, per pair:

No. 1—Retail.....\$0.40 No. 3—Retail.....\$0.60
Each...D.P. \$0.66 Each...D.P. \$0.88
No. 2—Retail..... .50
Each...D.P. \$0.77


**Adjustable "S"
Nut Wrenches**

Drop Forged Steel
Hardened

Model II

No.	Size	Capacity	Weight	Price		Retail Each
				Each	Dozen	
6	6 in.	⅞ in.	8 oz.	D.P. \$1.44	D.P. \$16.00	\$3.90
7	8 in.	1 1/8 in.	1 lb. 1 oz.	D.P. 1.66	D.P. 18.00	1.10
8	10 in.	1 1/2 in.	1 lb. 11 oz.	D.P. 1.88	D.P. 20.00	1.25
9	12 in.	1 7/8 in.	2 lb. 5 oz.	D.P. 2.09	D.P. 22.22	1.40

Drop Forged Steel Heat Treated and Polished


Model F

No.	Size	Capacity	Weight	Price		Retail Each
				Each	Dozen	
0	4 in.	½ in.	1 3/4 oz.	D.P. \$1.33	D.P. \$14.44	\$0.75
1	6 in.	¾ in.	4 1/2 oz.	D.P. 1.44	D.P. 15.55	.85
2	8 in.	1 in.	9 1/2 oz.	D.P. 1.33	D.P. 19.33	1.25
3	10 in.	1 1/8 in.	1 lb.	D.P. 2.22	D.P. 22.22	1.50
4	12 in.	1 5/8 in.	1 lb. 14 oz.	D.P. 2.77	D.P. 25.33	1.75

Adjustable Spanner Wrench

Model L


Drop forged; of the best steel for the purpose, strap polished and case hardened. The adjusting jaw is easily manipulated, and, when adjustment is made, held in place by a tempered steel spring in conjunction with the serrations cut on the under side of the wrench and the teeth of the jaw.

No.	Takes Circles Inches	Diameter of Pin Inches	Length of Pin Inches	Length of Wrench Inches	Each
0	¼ to 2	7/8	½	7	\$1.00
Dozen	D.P. \$14.20				
1	2 to 4	½	½	9	1.10
Dozen	D.P. \$16.00				
2	2 to 4	5/8	½	9	1.25
Dozen	D.P. \$17.76				
3	2 to 4½	¾ x ½	½	10½	1.75
Dozen	D.P. \$26.64				

Improved Combination Pliers



No. 1 B. & S. Combination Pliers, 6-inch, full nickel finish, each.....\$1.10
Dozen...D.P. \$16.00
No. 2 B. & S. Combination Pliers, 8-inch, full nickel finish, each..... 1.50
Dozen...D.P. \$23.98
No. 3 B. & S. Combination Pliers, 10-inch, full nickel finish, each..... 1.75
Dozen...D.P. \$27.98
No. 4 B. & S. Combination Pliers, 14-inch, full nickel finish, each..... 2.50
Dozen...D.P. \$39.06

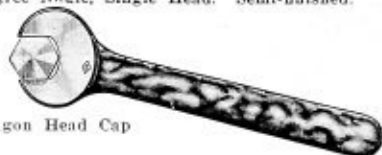


The GIBSON COMPANY INDIANAPOLIS

WILLIAMS WRENCHES

Williams Light Cap Screw Wrenches

15-Degree Angle, Single Head. Semi-finished.



For Hexagon Head Cap Screws.

Number	U. S. S. Cap Screws Inches	Milled Openings Inches	Length Inches	Price	Retail
700	$\frac{3}{8}$	$\frac{3}{8}$	3 $\frac{1}{2}$	D.P. \$0.17	\$0.12
701	$\frac{1}{4}$	$\frac{1}{4}$	4	D.P. .20	.14
701A	$\frac{1}{4}$	$\frac{1}{2}$	4	D.P. .20	.14
702	$\frac{3}{8}$	$\frac{3}{8}$	4 $\frac{1}{4}$	D.P. .24	.17
703	$\frac{1}{2}$	$\frac{3}{8}$	5 $\frac{3}{8}$	D.P. .29	.20
704	$\frac{1}{2}$	$\frac{1}{2}$	6 $\frac{1}{2}$	D.P. .35	.26

Williams Semi-Finished Wrenches

15-Degree Angle, Light Cap Screw Wrench for Hex Head Cap Screws.



For Hexagon Head Cap Screws.

Number	Hex Head Cap Screws Inches	Milled Openings Inches	Length Inches	Price	Retail
721	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	3 $\frac{1}{2}$	D.P. \$0.19	\$0.13
722	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	4	D.P. .23	.16
723	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	4	D.P. .23	.16
723A	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	4	D.P. .23	.16
725	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	4 $\frac{1}{4}$	D.P. .28	.20
725B	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	4 $\frac{1}{4}$	D.P. .28	.20
726	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{3}{8}$	5 $\frac{1}{8}$	D.P. .35	.23
727	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{3}{8}$	5 $\frac{1}{8}$	D.P. .35	.23
728	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{3}{8}$	6 $\frac{1}{8}$	D.P. .40	.28
729	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{3}{8}$	6 $\frac{1}{8}$	D.P. .40	.28
730	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	7 $\frac{1}{4}$	D.P. .50	.35
731	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	7 $\frac{3}{8}$	D.P. .50	.36

Williams Semi-Finished Engineers' Wrench

15-Degree Angle, Double Head.



For U. S. Standard.

Number	U. S. S. Nuts Inches	Milled Openings Inches	Length Inches	Price	Retail
21	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{3}{8}$ — $\frac{1}{2}$	3 $\frac{1}{4}$	D.P. \$0.10	\$0.13
22	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{3}{8}$ — $\frac{1}{2}$	4	D.P. .23	.15
23	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{1}{2}$	4	D.P. .23	.15
24	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{1}{2}$	4 $\frac{1}{4}$	D.P. .28	.20
25	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{1}{2}$	4 $\frac{1}{4}$	D.P. .28	.20
26	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{8}$	5 $\frac{1}{8}$	D.P. .35	.25
27	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{8}$	5 $\frac{1}{8}$	D.P. .35	.25
28	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{8}$	6 $\frac{1}{8}$	D.P. .40	.28
29	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{8}$	6 $\frac{1}{8}$	D.P. .40	.28
30	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{8}$	7 $\frac{1}{4}$	D.P. .50	.34
31	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{8}$	7 $\frac{3}{8}$	D.P. .50	.34
32	$\frac{1}{4}$ — $\frac{1}{2}$	$\frac{1}{2}$ — $\frac{3}{8}$	8 $\frac{1}{4}$	D.P. .60	.42
33	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{3}{8}$	8 $\frac{1}{4}$	D.P. .60	.42
34	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	9 $\frac{1}{4}$	D.P. .75	.50
35	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{3}{8}$ — $\frac{1}{2}$	9 $\frac{1}{4}$	D.P. .75	.50
36	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	11 $\frac{1}{2}$	D.P. 1.06	.72
37	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	11 $\frac{1}{2}$	D.P. 1.06	.72
38	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	13 $\frac{1}{2}$	D.P. 1.55	1.05
39	$\frac{1}{2}$ — $\frac{3}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	13 $\frac{1}{2}$	D.P. 1.55	1.05

Williams Check Nut or Thin Wrenches

15-Degree Angle, Double Head. Semi-finished.



For U. S. Standard.

Number	U. S. S. Nuts Inches	Milled Openings Inches	Length Inches	Price	Retail
623	$\frac{1}{4}$ — $\frac{1}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	4 $\frac{1}{8}$	D.P. \$0.28	\$0.20
625	$\frac{1}{4}$ — $\frac{1}{4}$	$\frac{1}{2}$ — $\frac{3}{8}$	4 $\frac{1}{8}$	D.P. .28	.20
627	$\frac{1}{4}$ — $\frac{1}{4}$	$\frac{1}{2}$ — $\frac{3}{8}$	5 $\frac{1}{8}$	D.P. .35	.24
629	$\frac{1}{4}$ — $\frac{1}{4}$	$\frac{1}{2}$ — $\frac{3}{8}$	6 $\frac{1}{8}$	D.P. .45	.30
631	$\frac{1}{4}$ — $\frac{1}{4}$	$\frac{1}{2}$ — $\frac{1}{2}$	6 $\frac{1}{8}$	D.P. .45	.30
633	$\frac{1}{4}$ — $\frac{1}{4}$	$\frac{1}{2}$ — $\frac{3}{8}$	8 $\frac{1}{8}$	D.P. .62	.45
637	$\frac{1}{4}$ — $\frac{1}{4}$	1— $\frac{1}{4}$	10 $\frac{3}{8}$	D.P. .93	.65

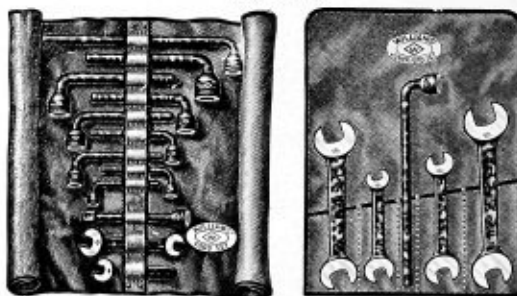
Williams Set Screw Wrenches

22 $\frac{1}{2}$ -Degree Angle, Double Head. Semi-finished.



Number	Set Screws Inches	Length Inches	Thickness Head Inches	Price	Retail
523	$\frac{3}{8}$ — $\frac{1}{4}$	3 $\frac{1}{8}$	$\frac{3}{16}$	D.P. \$0.23	\$0.15
527	$\frac{3}{8}$ — $\frac{1}{4}$	5	$\frac{3}{16}$	D.P. .32	.22
531	$\frac{3}{8}$ — $\frac{1}{4}$	6 $\frac{1}{8}$	$\frac{3}{16}$	D.P. .50	.35
535	$\frac{3}{8}$ — $\frac{1}{4}$	8 $\frac{3}{8}$	$\frac{3}{16}$	D.P. .72	.50
539	$\frac{3}{8}$ — $\frac{1}{4}$	11 $\frac{3}{8}$	$\frac{3}{16}$	D.A. 1.55	1.05

Williams "Ford" Sets of Superior Drop-Forged Wrenches



"Ford" Set "A" Semi-Finished "Ford" Set "B"

Number	Class	Milled Openings Inches	Length Inches	Price	Retail
27	Engineer's	$\frac{3}{8}$ — $\frac{1}{2}$	5 $\frac{1}{8}$	D.P. \$0.35	\$0.25
702	Cap Screw	$\frac{3}{8}$ — $\frac{1}{2}$	4 $\frac{1}{8}$	D.P. .24	.17
963D	Offset Socket	29 64	4 $\frac{1}{8}$	D.P. .40	.27
964A	Socket	33 64	5 $\frac{1}{8}$	D.P. .44	.30
*965D	Straight Socket	37 64	5 $\frac{1}{8}$	D.P. .50	.33
965D	Offset Socket	37 64	5 $\frac{1}{8}$	D.P. .50	.33
965A	"	39 64	5 $\frac{1}{8}$	D.P. .50	.33
966DS	"	41 64	11	D.P. .70	.50
*967A	"	45 64	6 $\frac{3}{8}$	D.P. .60	.42
967D	"	49 64	6 $\frac{3}{8}$	D.P. .60	.42
968A	"	51 64	7 $\frac{1}{2}$	D.P. .66	.45
969A	"	57 64	8 $\frac{3}{8}$	D.P. .78	.50
Set A, without roll				D.P. 6.22	4.25
Set A, with roll				D.P. 6.88	4.63

*Use wrench No. 967A as lever for No. 965D.

Number	Class	Milled Openings Inches	Length Inches	Price	Retail
27C	Engineer's	$\frac{3}{8}$ — $\frac{1}{2}$	5 $\frac{1}{8}$	D.P. \$0.33	\$0.23
729	Cap Screw	$\frac{3}{8}$ — $\frac{1}{2}$	4 $\frac{1}{8}$	D.P. .40	.28
33C	Engineer's	$\frac{1}{2}$ — $\frac{1}{2}$	8 $\frac{1}{8}$	D.P. .60	.42
734	Cap Screw	$\frac{1}{2}$ — $\frac{1}{2}$	9 $\frac{1}{8}$	D.P. .76	.50
966DS	Socket	41 64	11	D.P. .70	.48
Set B, without roll				D.P. 2.84	1.90
Set B, with roll				D.P. 3.33	2.35

FREE AIR SERVICE—AN INGERSOLL-RAND COMPRESSOR AN IDEAL UNIT



WILLIAMS' WRENCHES

Superior Drop-Forged Wrench Sets For Light Work Only



S. A. E. "Light Five"

"Big Six"

S. A. E. Standard Set No. 28

No.	S.A.E. Nuts Inches	Milled Openings Inches	Length Inches	Semi-Finish		Full Finish	
				Price	Retail	Price	Retail
6778	1/4 - 1/2	1/2 - 1/2	7 1/2	D.P. \$0.38	\$0.26	D.P. \$0.53	\$0.35
6798	3/8 - 3/8	3/8 - 3/8	8 1/2	D.P. .47	.32	D.P. .65	.44
681A	1/2 - 7/8	7/8 - 7/8	9 1/2	D.P. .60	.42	D.P. .80	.54
683A	3/4 - 1 1/4	1 - 1 1/4	10 1/2	D.P. .78	.53	D.P. 1.00	.68
685C	3/4 - 1 1/2	1 1/2 - 1 1/2	12	D.P. 1.11	.75	D.P. 1.45	1.00
Set 2-S, without roll				D.P. 3.33	2.25	D.P. 4.44	3.00
Tool roll, extra				D.P. .50	.35	D.P. .50	.35

Original "Extra Capacity" Set "Big Six" No. 4

No.	U.S.S. Nuts Inches	U.S.S. Cap Screws Inches	Milled Openings Inches	Length Inches	Semi-Finish		Full Finish	
					Price	Retail	Price	Retail
725	1/4	3/8	1/2 - 1/2	4 1/2	D.P. \$0.27	\$0.20	D.P. \$0.42	\$0.30
27C	3/8	3/8	3/8 - 3/8	5 1/2	D.P. .34	.25	D.P. .52	.35
28	1/2	3/4	7/8 - 7/8	6 1/2	D.P. .41	.21	D.P. .62	.44
729	3/4	1	7/8 - 7/8	6 1/2	D.P. .41	.28	D.P. .62	.44
34	3/8	3/8	7/8 - 1 1/4	9 1/2	D.P. .75	.50	D.P. 1.20	.81
736	3/4	1	1 - 1 1/4	11 1/2	D.P. 1.06	.72	D.P. 1.55	1.05
Set No. 4, without roll					D.P. 3.33	2.25	D.P. 4.88	3.35
Canvas roll, extra					D.P. .50	.35	D.P. .50	.35



"A. L. A. M."

"S. A. E."

Automobile Set No. 5

No.	S.A.E. Nuts & C. Screws Inches	Milled Openings Inches	Length Inches	Semi-Finish		Full Finish	
				Price	Retail	Price	Retail
723A	1/4 - 1/2	1/2 - 1/2	4	D.P. \$0.23	\$0.15	D.P. \$0.34	\$0.25
27C	3/8 - 3/8	3/8 - 3/8	5 1/2	D.P. .34	.25	D.P. .52	.35
731A	1/2 - 3/4	3/4 - 3/4	7 1/2	D.P. .52	.35	D.P. .75	.50
33C	3/8 - 3/4	1 - 1 1/4	8 1/2	D.P. .62	.43	D.P. .95	.65
737	3/4 - 1 1/2	1 1/2 - 1 1/2	11 1/2	D.P. 1.06	.72	D.P. 1.55	1.05
Set No. 5, without roll				D.P. 2.77	1.90	D.P. 4.10	2.80
Canvas roll, extra				D.P. .50	.35	D.P. .50	.35

Automobile Set No. 5-S

No.	S.A.E. Nuts Inches	Milled Openings Inches	Length Inches	Semi-Finish		Finish Full	
				Price	Retail	Price	Retail
725	1/4 - 1/2	1/2 - 1/2	4 1/2	D.P. \$0.27	\$0.20	D.P. \$0.42	\$0.28
727	3/8 - 3/8	3/8 - 3/8	5 1/2	D.P. .34	.25	D.P. .52	.35
731A	1/2 - 3/4	3/4 - 3/4	7 1/2	D.P. .52	.35	D.P. .75	.50
33C	3/8 - 3/4	1 - 1 1/4	8 1/2	D.P. .62	.43	D.P. .95	.65
37	3/4 - 1 1/2	1 1/2 - 1 1/2	11 1/2	D.P. 1.06	.72	D.P. 1.55	1.05
Set No. 5-S, without roll				D.P. 2.77	1.90	D.P. 4.15	2.80
Canvas bag, extra				D.P. .50	.35	D.P. .50	.35

Superior Drop-Forged Wrench Sets

For severe service about Automobiles, etc. No duplication of openings



"Duplex"

Automobile "Duplex" Nos. 8 and 9

No.	U.S.S. Nuts & C. Screws Inches	Milled Openings Inches	Length Inches	Semi-Finish		Full Finish	
				Price	Retail	Price	Retail
725	1/4	1/2 - 1/2	4 1/2	D.P. \$0.27	\$0.20	D.P. \$0.42	\$0.28
27	3/8	3/8 - 3/8	5 1/2	D.P. .27	.20	D.P. .42	.28
27C	3/8	3/8 - 3/8	5 1/2	D.P. .34	.25	D.P. .52	.35
288	1/2	3/4 - 3/4	7 1/2	D.P. .41	.28	D.P. .62	.42
731A	3/4	3/4 - 3/4	7 1/2	D.P. .52	.35	D.P. .75	.50
34	3/8	7/8 - 1 1/4	9 1/2	D.P. .75	.50	D.P. 1.20	.80
736	3/4	1 - 1 1/4	11 1/2	D.P. 1.06	.72	D.P. 1.55	1.05
Set No. 9, without roll				D.P. 3.60	2.45	D.P. 5.55	3.75
Set No. 8, without roll				D.P. 4.22	2.80	D.P. 6.44	4.35
Canvas roll, extra				D.P. .50	.35	D.P. .50	.35



Set No. 9 does not contain the Spark Plug Wrench.

Superior Drop-Forged Wrench Sets

For severe service about Automobiles, etc. No duplication of openings

"Big Ten"

"Extra Capacity" Garage Set, "Big Ten" No. 10

No.	U.S.S. Bolts & Nuts Inches	S.A.E. Bolts & Nuts Inches	Milled Openings Inches	Semi-Finish		Full Finish	
				Price	Retail	Price	Retail
721	1/4 - 1/2	1/4 - 1/2	3/4 - 3/4	D.P. \$0.20	\$0.13	D.P. \$0.28	\$0.20
23	1/4 - 1/2	1/4 - 1/2	3/4 - 1 1/2	D.P. .23	.15	D.P. .35	.25
725A	3/8 - 3/8	3/8 - 3/4	3/4 - 3/4	D.P. .28	.20	D.P. .42	.28
27	3/8 - 3/8	3/8 - 3/4	3/4 - 3/4	D.P. .35	.25	D.P. .52	.35
729	3/4 - 3/4	3/4 - 1 1/2	3/4 - 3/4	D.P. .41	.28	D.P. .62	.42
731B	3/2 - 3/2	3/2 - 3/2	3/2 - 3/2	D.P. .50	.35	D.P. .75	.50
32	3/2 - 3/2	3/2 - 3/2	3/2 - 3/2	D.P. .60	.42	D.P. .95	.60
33C	3/2 - 3/2	3/2 - 3/2	3/2 - 3/2	D.P. .60	.42	D.P. .95	.60
737	3/4 - 1 1/2	3/4 - 1 1/2	1 1/2 - 1 1/2	D.P. 1.08	.72	D.P. 1.55	1.05
38	1 1/2 - 1 1/2	1 1/2 - 1 1/2	1 1/2 - 1 1/2	D.P. 1.55	1.05	D.P. 2.00	1.45
Set No. 10 without roll				D.P. 5.77	3.90	D.P. 8.44	5.75
Canvas roll, extra				D.P. .66	.50	D.P. .66	.50

Superior Drop-Forged Wrench Sets "Thin"

For Light Work Only. No duplication of openings



"Thin Five"

S. A. E. Set "Thin Five" No. 35

No.	S.A.E. Nuts & C. Screws Inches	Milled Openings Inches	Length Inches	Semi-Finish		Full Finish	
				Price	Retail	Price	Retail
623E	1/4 - 1/2	3/8 - 1/2	4 1/2	D.P. \$0.28	\$0.20	D.P. \$0.42	\$0.30
626X	3/8 - 3/8	3/8 - 3/8	5 1/2	D.P. .35	.25	D.P. .55	.36
629E	1/2 - 1/2	3/4 - 3/4	6 1/2	D.P. .44	.30	D.P. .66	.45
632X	3/4 - 3/4	3/4 - 3/4	8 1/2	D.P. .40	.42	D.P. .88	.60
635G	3/4 - 1 1/2	1 1/2 - 1 1/2	10 1/2	D.P. .95	.63	D.P. 1.50	.80
Set No. 35, without roll				D.P. 2.66	1.80	D.P. 3.77	2.55
Canvas roll, extra				D.P. .50	.35	D.P. .50	.35



The GIBSON COMPANY INDIANAPOLIS

WRENCHES

Perfect Handle Wrenches



The Perfect Handle Adjustable "S" Wrench is far ahead of the ordinary malleable adjustable "S" wrench and the clumsy drop-forged adjustable all steel "S" wrench that looks identically like the malleable. The perfect handle is the most practical, comfortable and powerful adjustable "S" wrench ever made.

No. 641 Perfect Handle Wrench, 6-inch, each.....\$0.85
Dozen . . D.P. \$15.22

No. 641 Perfect Handle Wrench, 8-inch, each..... 1.10
Dozen . . D.P. \$18.88

No. 641 Perfect Handle Wrench, 10-inch, each..... 1.25
Dozen . . D.P. \$22.77



No. 642 Perfect Handle Wrench, 6-inch, each.....\$0.85
Dozen . . D.P. \$15.22

No. 642 Perfect Handle Wrench, 8-inch, each..... 1.10
Dozen . . D.P. \$18.88

No. 642 Perfect Handle Wrench, 10-inch, each..... 1.25
Dozen . . D.P. \$22.77

The "Perfect Handle" Screw Wrench



The drop-forged screw wrench is the strongest, most practical, most comfortable, most salably priced.

Perfect Handle Screw Wrench, 6-inch, capacity 1 1/16, each\$0.75
Dozen . . D.P. \$13.32

Perfect Handle Screw Wrench, 8-inch, capacity 1 1/4, each85
Dozen . . D.P. \$15.00

Perfect Handle Screw Wrench, 10-inch, capacity 1 1/2, each 1.00
Dozen . . D.P. \$17.76

Perfect Handle Screw Wrench, 12-inch, capacity 2 3/16, each 1.25
Dozen . . D.P. \$22.22

Perfect Handle Screw Wrench, 15-inch, capacity 2 1/2, each 2.00
Dozen . . D.P. \$35.55

Perfect Handle Screw Wrench, 18-inch, capacity 3 1/4, each 2.50
Dozen . . D.P. \$44.00

Perfect Handle Screw Wrench, 21-inch, capacity 4, each 3.00
Dozen . . D.P. \$51.11

Stillson Pipe Wrench



Length open, 6 inches, takes pipe from 1/4 to 1/2 inch, each\$0.85
Dozen . . D.P. \$15.99

Length open, 8 inches, takes pipe from 1/4 to 3/4 inch, each90
Dozen . . D.P. \$15.99

Length open, 10 inches, takes pipe from 1/4 to 1 inch, each 1.00
Dozen . . D.P. \$18.66

Length open, 14 inches, takes pipe from 1/4 to 1 1/2 inch, each 1.25
Dozen . . D.P. \$23.98

Length open, 18 inches, takes pipe from 1/4 to 2 inch, each 1.75
Dozen . . D.P. \$33.33

Bemis & Call Wrench

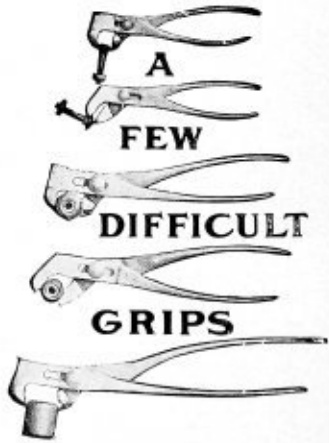


B. & C. Adjustable S Wrench, 6-inch, each.....\$0.70
Dozen . . D.P. \$11.11

B. & C. Adjustable S Wrench, 8-inch, each..... .90
Dozen . . D.P. \$14.44

B. & C. Adjustable S Wrench, 10-inch, each..... 1.20
Dozen . . D.P. \$18.66

Eagle Claw Wrench



The Eagle Claw is the handiest and best tool for all work around an automobile. It never slips on oily, slippery grease cups, and gets a firm grip on set or lag screws, no matter how round or worn the corners may be.

Designed and constructed for use in difficult places where it is impossible to use any other wrench.

Eagle Claw Wrench, 7-inch, each.....\$1.00
Dozen . . D.P. \$16.00

Eagle Claw Wrench, 10-inch, each..... 1.25
Dozen . . D.P. \$22.22



WRENCHES

Adjustable Wrenches



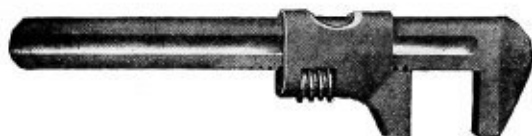
No. A3 Adjustable Wrench, 6-inch, mottled, each...\$0.20
Dozen...D.P. \$2.40

No. A3 Adjustable Wrench, 6-inch, bright nickel, each... .25
Dozen...D.P. \$3.20



No. A6 Adjustable Wrench, 6-inch, mottled, each...\$0.30
Dozen...D.P. \$4.80

No. A8 Adjustable Wrench, 8-inch, mottled, each... .35
Dozen...D.P. \$5.60



No. 18 Malleable Adjustable Wrench, 9-inch, blued, each...\$0.25
Dozen...D.P. \$3.33



No. 19 Malleable Adjustable Wrench, 9½-inch, blued, each...\$0.30
Dozen...D.P. \$4.00

Victor Adjustable Alligator Wrench



Drop forged of best tool steel.

Combines strength, simplicity and rapidity of adjustment. No springs to break. Can not get out of order. Every part visible.

The movable jaw, which is of the best steel, is interchangeable and may be replaced easily in case of wear or breakage. Length 7 inches.

No. 365 Full Nickel Plated, each...\$1.00
Dozen...D.P. \$13.32

Ronson Wrenches



Length closed, 6 inches; weight 8 ounces; material, highest quality plate steel, superbly tempered; nut drop forged. Finish, inoxidizable nickel.

Sizes—A, 2, 3-16 inch, 9-32 inch, ½ inch; B, 5-16 inch, ⅜ inch; C, 11-32 inch, 11-16 inch; D, ⅝ inch, 13-16 inch.

Each of the four members is a perfect wrench in itself and can be used separately if necessary.

Each...\$1.00
Dozen...D.P. \$17.76

Marvel Adjustable Socket Wrench



¼ ⅜ ½ ⅝ ¾ 1 1 29/32 in.
AND ALL INTERMEDIATE SIZES
Spread from ½ to 1 29/32 in.

The Marvel replaces over 32 loose sockets, has a spread of from ½ inch to 1 29/32 inch, and, what's more, it grips the nut tight. You don't have to chisel off nuts which have become slightly worn.

Each...\$3.00
Each...D.P. \$5.00

The Utility Socket Wrench Set

A New Principle With Many Advantages



7-in., 6-in. and 5-in. Long, Respectively

Has all the advantages of socket wrench sets consisting of fourteen wrenches, with none of their faults. Instant in adjustment. No screws to manipulate or parts to get out of order. Can be applied to all shapes and kinds of nuts immediately. Has many new features possessed by no other wrench.

Utility Wrench Set complete, packed in neat canvas bag...\$2.50
Each...D.P. \$3.88



Lane's Unique Wrench Set

Lane's Standard Socket Wrench Set contains one handle, 7 inches in length; two screwdriver bits; 7 sockets to fit semi-finished hexagon nuts as follows: U. S. Standards from ¼-inch to ½-inch; A. L. A. M. Standards from ⅜-inch to 1½-inch. Machine made throughout. Made of the best material obtainable. The sockets are turned from Bessemer steel and case hardened and are warranted not to break or spread. Has no equal for close work.

In leather case, each...\$3.00
Each...D.P. \$4.44



SOCKET WRENCHES

Mossberg Wrench Sets



No. 5 Mossberg Socket Wrench Set, primarily for motorcycle and bicycle use, consists of No. 321 offset handle with five thoroughly hardened and guaranteed pressed steel sockets, sizes as follows: 17-32, 19-32, $\frac{5}{8}$, 21-32 and 23-32, in enamel canvas case.

Each \$1.10
Each... D.P. \$1.82

No. 5½ Mossberg Socket Wrench Set for motorcycle or bicycle use consists of one No. 355 ratchet handle and five hex. sockets of the following sizes: 17-32, 19-32, $\frac{5}{8}$, 21-32 and 23-32, in enamel canvas case.



Each \$2.00
Each... D.P. \$3.32



No. 6-B Mossberg Socket Wrench Set is a small but very handy socket set for automobiles and motor boats; consists of No. 310 folding handle, two sizes of screw driver bits and seven hex. sockets of the following sizes: 17-32, 19-32, 21-32, 23-32, 13-16, 29-32 and 1 3-32 and one special

spark plug socket 29/32x4 inches, packed in leather case.
Each \$2.20
Each... D.P. \$3.66

No. 7 Mossberg Socket Wrench Set has fifteen sockets and two handles, as follows: Offset socket wrench handle No. 320, ten-inch; take-down "T" socket wrench handle No. 340, ten-inch; one 29/32 hexagon spark plug socket four inches long, and hex sockets as follows: 13-32, 15-32, 17-32, 19-32, $\frac{5}{8}$, 21-32, 23-32, 25-32, 13-16, 27-32, 29-32, 1-inch, 11-32, 13-32, packed in wood box.
Each \$3.00
Each... D.P. \$5.40



Mossberg Wrench Sets



No. 11 Mossberg Socket Wrench Set for all-around motor work; includes a No. 350 ratchet handle and extension tube No. 351 $9\frac{1}{2}$ inches long, one 29-32 hexagon spark plug socket and the following hex. sockets: 13-32, 15-32, 17-32, 19-32, $\frac{5}{8}$, 21-32, 25-32, 13-16, 17-32, 29-32, 1, 11-32

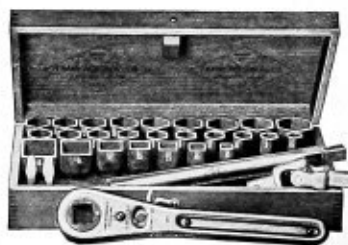
13-32, in wood box.
Each \$4.50
Each... D.P. \$7.50

No. 16 Mossberg Universal Small Car Wrench Set; has one No. 350 handle, one tubular extension No. 351, one universal joint No. 336, one screw driver bit, one spark plug socket 29-32, and hex. sockets as follows: 17-32, 19-32, 21-32, 23-32, 25-32, 27-32, 29-32, 31-32, 19-32, also square sockets 13-32, 15-32, 17-32, 21-32, packed in black fiber case.



Each \$6.00
Each... D.P. \$10.60

No. 9 Mossberg Socket Wrench Set; an ideal set for factory work; has a No. 350 ratchet handle, extension bar No. 351, universal joint No. 336, screw driver bits and hex. sockets as follows:



15-32, $\frac{1}{2}$, 17-32, 19-32, $\frac{5}{8}$, 21-32, 11-16, 23-32, 25-32, 13-16, 27-32, $\frac{3}{4}$,

29-32, 31-32, 1, 11-32, 13-32, 15-32, 19-32, also square sockets 13-32, 17-32, 19-32, 21-32, 25-32, 11-32, 15-32, packed in wooden box.

Each \$7.00
Each... D.P. \$11.66

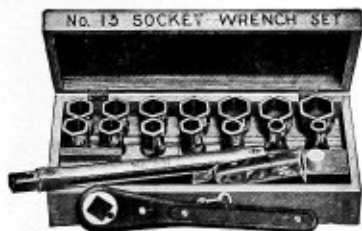
No. 10 Mossberg Socket Wrench Set; an efficient set for repair and garage work; has No. 350 ratchet handle, extension bar No. 351, universal joint No. 336, two screw driver bits, two spark plug sockets 29-32 and 15-32, fitting standard plugs, and the following hex. sockets: 15-32, $\frac{1}{2}$, 17-32, 19-32, $\frac{5}{8}$, 21-32, 11-16, 23-32, 25-32, 13-16, 27-32, $\frac{3}{4}$, 29-32, 31-32, 11-32, 13-32, 15-32, 19-32, packed in wooden box.
Each \$8.00
Each... D.P. \$13.32





SOCKET WRENCHES—Continued

Mossberg Wrench Set



No. 13 Mossberg Socket Wrench Set contains fifteen sockets and spark plug wrench, No. 355 Ratchet Handle and Extension Bar. Sockets of following sizes:

$\frac{3}{8}$, $1\frac{1}{2}$, $1\frac{3}{8}$; will fit bolts and nuts from $\frac{1}{4}$ to $\frac{3}{4}$ inch.

In hardwood cabinet, each.....\$3.50

Each..D.P. \$5.82

No. 19 Mossberg Heavy Duty Set is an assortment of sockets and handles adapted for heavy and large construction work. Set contains nine sizes of sockets, one No.

357 reversible ratchet handle, 18 inches long; one No. 324 offset handle, one No. 348 extension tube, one No. 337 universal joint, one No. 338 connection bushing; socket sizes to fit bolts 1 to $1\frac{1}{2}$ inches.

Complete in hardwood case.....\$13.00

Each..D.P. \$21.66



No. 15A Mossberg Socket Wrench Set is for exclusive use on Ford cars and completely covers all adjustments that are to be found on these machines. In wood case containing

Mossberg ratchet socket wrench No. 350, tubular extension bar, universal joint, screw driver bit, spark plug socket, nine regular, mottled, thoroughly hardened pressed steel sockets, fitting standard sizes of screws, nuts and bolts; one special 19/32 oval socket for three crank shaft bearing bolts.

No. 15A Mossberg Socket Wrench Set, packed in wood case, each.....\$5.00

Each..D.P. \$8.33

No. 30 Mossberg Socket Set for Ford cars contains all sizes of sockets needed to fit all Ford bolts and nuts, together with No. 355 Ratchet Handle, extension tube, universal joint and screwdriver bit.

Packed in fiber case, per set.....\$4.00

Each..D.P. \$6.66



Mossberg Wrench Set



No. 14 Mossberg Socket Wrench Set is the largest and most complete socket wrench set ever offered to the trade. Has No. 350 handle and No. 340 take-down handle, No. 320 offset wrench, No. 100 nickel plier and Gripsall pipe wrench No. 470, No. 1 general service double end wrench set with ten different openings and universal joints, three special spark plug sockets, three screw driver bits and cotter pin extractors and hex. sockets as follows: 5-16, $\frac{3}{8}$, 13-32, 7-16, 15-32, $\frac{1}{2}$, 17-32, 19-32, $\frac{5}{8}$, 21-32, 11-16, 23-32, 25-32, 13-16, 27-32, $\frac{3}{4}$, 29-32, 31-32, 1, 11-32, 13-32, 15-32, 17-32, 19-32. Also square sockets as follows: 13-32, 15-32, 17-32, 19-32, 21-32, 23-32, 25-32, 29-32, 11-32, 15-32, 19-32, in wooden box.

Each.....\$12.00

Each..D.P. \$20.00

Large Auto Cle Socket Wrench Set No. 1



The dean of all socket wrenches—Auto Cle is offered for the help and assistance of automobile mechanics, machinists and car owners as most sensible. There are no inaccessible adjustments if you have Auto Cle. Consists of 31 Mossberg guaranteed sockets (steel), hex. 5-16, 11-32, $\frac{3}{8}$, 13-32, 7-16, 15-32, $\frac{1}{2}$, 17-32, 9-16, 19-32, $\frac{5}{8}$, 21-32, 11-16, 23-32, $\frac{3}{4}$, 25-32, 13-16, 27-32, $\frac{3}{4}$, 29-32, 15-16, 31-32, 1, 11-32, 13-32, 15-32, 19-32. Square 13-32, 17-32, 21-32. Spark plug socket 29-32x4 inches. "Auto Cle" take-down, reversible, ratchet handle (nickel plated). Long extension bar ($9\frac{1}{2}$ inches). Short extension connection bar (13 $\frac{1}{2}$ inches). Universal joint (perscrew driver bits).

Large Auto Cle Socket Wrench Set.....\$10.00

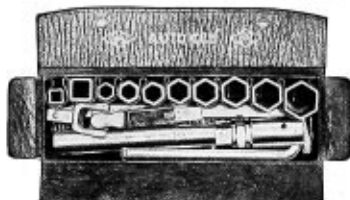
Each..D.P. \$16.66

For its size and price the finest arrangement of socket wrenches made; this Small Auto Cle Set is guaranteed completely. In flexible leather case containing: One take-down reversible ratchet handle, nickel plated; one swivel or universal joint, which permits using the wrench at any angle; one $9\frac{1}{2}$ -inch extension bar; one 13 $\frac{1}{2}$ -inch extension bar; two sizes of screw driver bits; twelve guaranteed steel sockets; hex 5-16, 11-32, 13-32, 15-32, 17-32, 19-32, 21-32, 23-32, 13-16, 29-32, 1 3-32; square 13-32, 17-32, 21-32; spark plug socket 29-32, 4 inches long.

No. 2 Small Auto Cle Set, each.....\$7.50

Each..D.P. \$12.48

Small Auto Cle Set No. 2





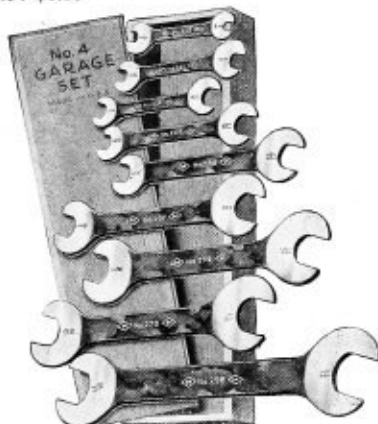
SOCKET WRENCHES—Concluded

Mossberg Socket Brace



No. 360 Mossberg Brace Wrench will fit all small series Mossberg sockets and makes an ideal handle for rapid work. Ball friction holds the socket firmly in place.

Price, each \$0.40
Each...D.P. \$0.55



No. 4 Mossberg Garage Set is intended for the repairman and mechanic. Each wrench is made with one end to fit U.S.S. bolt and the other end to fit S.A.E. cap screw of same size. U.S.S. bolt sizes, $\frac{1}{4}$ to $\frac{3}{4}$ inch. Nine full finished wrenches in hardwood box, per set

set \$4.30
Per set...D.P. \$4.44



No. 300 Mossberg Socket Cabinet is a nicely finished chest containing a complete assortment of the best sellers only. No. 300 assortment includes:

- 300 assorted pressed steel sockets;
- 15 assorted spark plug sockets;
- 4 No. 350 reverse ratchet handles;
- 4 No. 355 ratchet handles;
- 4 No. 322 double and offset handles;
- 4 No. 340 takedown T handles;
- 4 No. 336 universal joints;
- 4 No. 351 extension tubes;
- 2 No. 370 B brace extensions;
- 4 canvas tool rolls, circulars, etc.

Mossberg No. 300 Chest complete.....\$72.00
Each...D.P. \$120.00

Mossberg Pressed Steel Sockets



Mossberg Hexagon Sockets, all sizes, each.....\$0.20
Mossberg Square Sockets, all sizes, each......20
Dozen...D.P. \$3.32

No. 322 Double End Offset Wrench Handle. Is very cleverly arranged so that sockets shall firmly stay put until you desire to remove them. A ball spring friction does the trick. Ten inches long, finest steel and thoroughly hardened.

Each \$0.25
Each...D.P. \$0.40

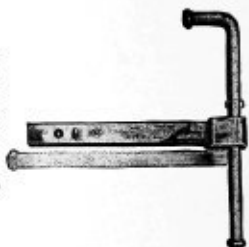


No. 320 Mossberg Socket Handle is the simplest and least expensive handle for sockets manufactured. Sockets are held in place by ball friction.

Each \$0.20
Each...D.P. \$0.33

No. 310 Mossberg Folding Socket Wrench Handle makes a convenient wrench for automobile and other light work. The upright bar is $5\frac{1}{2}$ inches long and the handle 6 inches.

Each \$0.50
Each...D.P. \$0.84



No. 350 Mossberg Ratchet Socket Wrench Handle simplifies adjustments to a point that impresses the user with its cleverness.

Each \$2.00
Each...D.P. \$3.52

No. 355 Mossberg Ratchet Socket Handle offers a fine but inexpensive ratchet socket handle for use with all standard sockets. The socket shank fits square opening and is firmly held by tension spring. This tool is reversible by simply turning it over.

Each \$1.00
Each...D.P. \$1.66



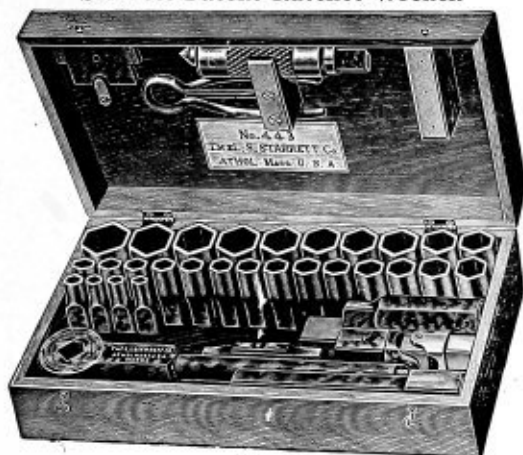
No. 351. The long tubular extension bar gives increased opportunities to use Mossberg Ratchet Handle No. 350, and is used with screw driver bits, universal joint and all sockets. This bar is $9\frac{1}{2}$ inches long.

Each \$0.50
Each...D.P. \$0.84



STARRETT TOOLS

Starrett Patent Ratchet Wrench



No. 443

This wrench is made from drop forged and other steel—all finished in a workmanlike manner, case hardened and strong where strength is needed, yet light and convenient to handle. The ratchet can be instantly reversed by simply rotating between thumb and finger the stem end of the dog in the end of the handle half a turn. Hexagon drawn steel sockets varying by 32ds from 5/16 in. to 1 1/4 in. have duplicate shanks to fit the square opening through the ratchet head, also the end of a square extension piece which fits the ratchet where they are frictionally held.

No. 443 A, price complete.....\$15.00
Each..D.P. \$30.00

Pocket Steel Tapes

No. 500



These tapes are 1/4 inch wide, in well-finished nickel plated cases with rounded edges. Spring wind with center stop. Graduated in inches and sixteenths of an inch.

	Diameter Inches	Each
No. 500 Steel Tape, 60-inch.....	1 1/8	\$0.75
Each..D.P. \$1.44		
No. 500 Steel Tape, 72-inch.....	1 11/16	.80
Each..D.P. \$1.54		
No. 500 Steel Tape, 96-inch.....	1 13/16	1.15
Each..D.P. \$2.10		

Flexible Rules

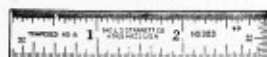
These are very thin spring tempered rules, nicely graduated on one side only. Those from 1 in. to 12 in. are 1/8 in. wide, and will easily conform to a 2 in. circle.



No. 320 Flexible No. 10 graduations (32nds and 64ths), 6-inch, each.....\$0.65
Each..D.P. \$1.22

Spring-Tempered Rules

With Graduated End



No. 303 has No. 4 graduations and is graduated in 32ds of an inch on opposite sides of one end.

No. 303, 6-inch, each.....\$0.65
Each..D.P. \$1.22
No. 303, 12-inch, each.....\$1.25
Each..D.P. \$2.33

Improved Hook Rules

Very convenient in taking measurements from round corners, through hubs of pulleys, setting inside calipers, etc. The 6-inch may be carried in the pocket. The hook can be quickly removed by turning eccentric stud one-half around.



No. 419 Improved Hook Rules, 6-inch, each.....\$1.00
Each..D.P. \$1.88

No. 419 Improved Hook Rules, 12-inch, each.....1.75
Each..D.P. \$3.32

Narrow Hook Rules



These rules are designed for use in taking measurements through small holes where our regular hook rules cannot be used. They can also be used for setting inside calipers, etc. Measurements through holes as small as 1/8 inch can be obtained. The rules are graduated one side in 32ds and the other in 64ths of an inch.

No. 422 Narrow Hook Rules, 6-inch, each.....\$0.90
Each..D.P. \$1.66

No. 422 Narrow Hook Rules, 12-inch, each.....1.50
Each..D.P. \$2.75

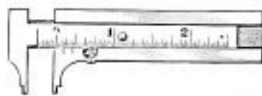
Pocket Slide Calipers

No. 425

Graduated in 32ds and 64ths. The improved clamping device is a valuable feature.



No. 425 Pocket Slide Calipers, 5-in., ea. \$3.00
Each..D.P. \$5.77



Thickness Gauge

Nos. 172A and 172B

Has leaves, viz.: .002, .003, .004, .006, .008, .010, .012, .015. The leaves are tempered, and have the thickness marked upon them.

No. 172-B. Case 4 1/2 in. long by 1/2 in. wide; leaves 4 1/2 in. long by 1/2 in. wide; each.....\$1.50
Each..D.P. \$3.00

No. 172-A. Case 3 1/2 in. long by 1/2 in. wide; leaves 3 1/2 in. long by 1/2 in. wide. Has same leaves as 172-B and .0015 in addition, each.....1.00
Each..D.P. \$1.88

Center Gauges

For use in grinding and setting screw cutting tools.



No. 390. Not tempered, graduated one corner, each in 32ds, 24ths, 20ths and 14ths; each.....\$0.25
Each..D.P. \$0.47

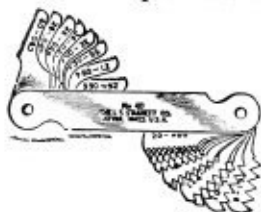
No. 391. Spring Tempered, each......35
Each..D.P. \$0.67



STARRETT TOOLS

Improved Screw Pitch Gauge

No. 40



The gauge has twenty-two pitches, viz: 9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40.

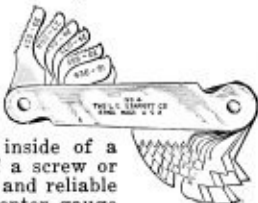
This gauge can be used inside a nut as well as on the outside of a screw or bolt.

No. 40 Screw Pitch Gauge, each.....\$1.00
Each...D.P. \$1.89

Screw Pitch Gauge

No. 4

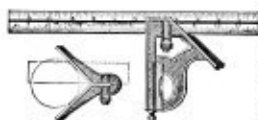
Has the following pitches: 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30. The teeth are sharp and clean cut. Like our No. 40 it can be used inside of a nut as well as on outside of a screw or bolt. It is also a convenient and reliable tool to use as a 60-degree center gauge and to test the grinding of either an inside or outside threading tool.



No. 4 Screw Pitch Gauge, each.....\$1.25
Each...D.P. \$2.44

Starrett Patent Combination Square

No. 11 With Hardened Blade



Every tool warranted accurate. With the adjustable scale this forms one of the most convenient and useful tools ever devised for mechanic's use. It is a complete substitute for a whole set of common try squares, and is one of the best gauges made for transferring exact measurements or laying out work. It is also convenient for a depth gauge, or to square in a mortise. For a miter it is perfect, while with the auxiliary center head it forms a centering square, both inside and outside, which for convenience and accuracy has no equal. The blades are hardened and graduated with heavy figures, reading both ways.

No. 11 Combination Square, 6-inch, with center head, each.....\$1.50
Each...D.P. \$2.75

No. 11 Combination Square, 12-inch, with center head, each.....\$2.00
Each...D.P. \$3.77

Starrett Micrometer

No. 3—1 inch

Starrett Micrometer No. 3, 1-inch, polished steel, for measurement by thousandths up to one inch, with lock nut and ratchet stop; length 4½ inches.

No. 3 Starrett Micrometer, 1-inch, each.....\$6.50
Each...D.P. \$12.77



Starrett Micrometer

No. 2—2 inch

Polished steel, for measurement by thousandths from one inch to two inches; with lock nut, ratchet stop and one-inch test gauge; length, 5½ inches.

No. 2 Starrett Micrometer, 2-inch, each.....\$7.00
Each...D.P. \$13.88

High Speed Indicator

No. 104



This indicator may be run at highest speed required without heating, and this on account of our frictionless bearing against which the inner end of the spindle revolves (a feature patented by us).

The working parts of this instrument are encased, and the dial plate has two rows of figures, reading right or left, as the shaft may run.

No. 104 Speed Indicator, each.....\$1.00
Each...D.P. \$1.88

Registering Speed Indicator

No. 107

This instrument was devised to automatically register hundreds as well as units and tens, and thus relieve the mind from keeping tally; also to furnish a better registering indicator at a more reasonable cost than has been on the market heretofore. The instrument will register 5,000 revolutions. The large dial is graduated into one hundred lines, each one representing a revolution of the spindle. The small dial has fifty lines cut upon its face, each representing one hundred revolutions of the spindle (or one complete turn of the large dial). Nickel plated.

No. 107 Speed Indicator, each.....\$3.00
Each...D.P. \$5.77



English Standard Wire Gauge

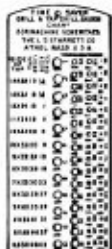
No. 189



No. 189 Wire Gauge, takes Nos. 6 to 36, each...\$2.00
Each...D.P. \$3.77

Time Saver Drill, Tap and Steel Wire Gauge

No. 185



By the use of this gauge one is enabled to select at once the right sized drill to suit machine screw tap most commonly used, leaving just stock enough for the tap to cut as near a full thread as is practicable for one tap without breaking it, thus saving much time and uncertainty of result attending the former crude ways of making a selection.

No. 185 Wire Gauge, each.....\$2.00
Each...D.P. \$3.77



STARRETT TOOLS—Continued

Outside Thread Calipers

No. 179

These calipers are designed for measuring the diameter at bottom of threads on the outside of screws.

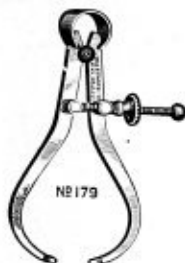
Sent with solid nut unless otherwise ordered.

No. 179 Outside Thread Calipers, 4-inch, with solid nut, each.....\$0.75
Each...D.P. \$1.44

No. 179 Outside Thread Calipers, 6-inch, with solid nut, each..... .85
Each...D.P. \$1.54

No. 179 Outside Thread Calipers, 4-inch, with spring nut, each.... .90
Each...D.P. \$1.66

No. 179 Outside Thread Calipers, 6-inch, with spring nut, each.... 1.00
Each...D.P. \$1.88



Yankee Outside and Inside Calipers



The Yankee Calipers and Dividers are manufactured under the Fay patents, but are not quite so heavy as the Fay and cost less. They are much liked, and on account of price are preferred by many to the higher priced tools.

All sizes are supplied with either solid or quick adjusting nut.

No. 73 represents a new Yankee Inside Transfer Caliper with either spring or solid nut. The bow is stiff, making the caliper reliable. After calipering inside of chambered cavity by springing in the legs they may be withdrawn, and as they spring back will show the exact size calipered.

No. 79 Yankee Outside Calipers, 3-inch, with solid nut....\$0.70
Each...D.P. \$1.22

No. 79 Yankee Outside Calipers, 6-inch, with solid nut.... .85
Each...D.P. \$1.54

No. 79 Yankee Outside Calipers, 3-inch, with spring nut... .85
Each...D.P. \$1.54

No. 79 Yankee Outside Calipers, 6-inch, with spring nut.. 1.00
Each...D.P. \$1.76

No. 73 Yankee Inside Calipers, 3-inch, with solid nut.... .70
Each...D.P. \$1.32

No. 73 Yankee Inside Calipers, 6-inch, with solid nut.... .85
Each...D.P. \$1.66

No. 73 Yankee Inside Calipers, 3-inch, with spring nut... .85
Each...D.P. \$1.66

No. 73 Yankee Inside Calipers, 6-inch, with spring nut... 1.00
Each...D.P. \$1.88

Improved Firm Joint Calipers

Nos. 26 and 27



The improvements in these calipers consists in the construction of the joint, which is so made as to be drawn together by means of a screw. The main stud is squared and fitted to one leg, thus preventing the stud from turning when loosening and tightening, and insures a smooth and uniform friction of more or less tension to suit the user.

The quality of these calipers is incomparably superior to that of any old style.

No. 26 Firm Joint Calipers, 6-inch, each.....\$0.65
Each...D.P. \$1.22

No. 26 Firm Joint Calipers, 8-inch, each..... .80
Each...D.P. \$1.54

No. 27 Firm Joint Calipers, 6-inch, each..... .65
Each...D.P. \$1.22

No. 27 Firm Joint Calipers, 8-inch, each..... .80
Each...D.P. \$1.54

Yankee Thread Calipers



No. 80 Yankee Thread Calipers, 4-inch, with solid nut, each.....\$0.90
Each...D.P. \$1.66

No. 80 Yankee Thread Calipers, 4-inch, with spring nut, each.... 1.00
Each...D.P. \$1.88

Cut Nipper

No. 199

For bicycle spokes, etc.

This nipper combines great power with rigidity. Wire can be cut at either extreme end of the jaws.

The cutting jaws conform to the inside of a bicycle rim and will cut off the spokes just as close as required.

All our nippers are tested before leaving the factory. All parts are interchangeable, so that in case a jaw breaks a new one can be obtained.

In ordering extra jaws, specify as per cut which jaw is wanted.

No. 199 Cut Nippers, 5-inch, each.....\$2.25
Each...D.P. \$4.06



Adjustable Jaw Cut Nipper

No. 1



The jaws are detachable, so that they can be removed, ground, and adjusted when they have become worn. Each jaw can be ground away to the extent of $\frac{1}{4}$ -inch, remaining as good as new for practical use; and when used up, if ever, new jaws can be procured.

No. 1 Adjustable Jaw Cut Nippers, 5 $\frac{1}{2}$ -inch, each\$2.50
Each...D.P. \$5.00



STARRETT TOOLS—Continued

Nickel Plated Pocket Level



No. 135

Nickel Plated Pocket Level, each.....\$0.50
Each..D.P. \$0.89

Machinist's Center Punch



No. 117

Made to supply the demand for a better article than has heretofore been on the market. Made of fine steel, neatly shaped, with both ends tempered and points nicely ground.

Length of each size, 4 inches. Diameter, A 5/64 inch, B 3/32 inch, C 9/64 inch, D 5/32 inch.

A larger size, E, is made for heavy work; length 5 inches, diameter 3/4 inch, diameter of knurled part 1/2 inch.

No. 117 Machinist's Center Punch, any size, each.....\$0.20
Each..D.P. \$0.30

Nail Set



No. 116

Made of fine grade of steel, both ends hardened, centers nicely knurled, tips concave, tops oval, and the size just right.

Length of each size 4 inches. Diameter at tip, A 1/16 inch, B 3/32 inch, C 1/8 inch, D 5/32 inch.

No. 116 Nail Set, any size, each.....\$0.10
Each..D.P. \$0.18

Automatic Adjustable Stroke Center Punch



No. 18A

This center punch (patent applied for) is provided with knurled adjustable screw cap, which, working in connection with a spring, regulates the stroke. For work requiring a heavy mark, turn cap down; for work requiring a light mark, turn it up. To use it no hammer is needed. The punch being placed in an upright position over the working line, a downward pressure releases the striking block and makes the impression without danger of slipping, as is liable when a hammer is used.

No. 18A Automatic Adjustable Stroke Center Punch, each.....\$2.00
Each..D.P. \$4.00

Pocket Screw Driver



No. 553

This tool is made from steel tubing, knurled and nickel plated. The butt of the blade fits a solid lock in the tube, preventing it from turning, and is held from coming out by a slight turn of the chuck.

To carry in pocket, reverse the blade, inserting it in the handle, giving a slight turn of the chuck to keep it there. It takes no more room in the pocket than a penknife.

The screw driver blades are properly tempered.

No. 553 A Pocket Screw Driver, handle 3/4 inch diameter, blade 1 3/4 inches long, weight 1/2 oz., each.....\$0.25
Each..D.P. \$0.49

No. 553 B Pocket Screw Driver, handle 5/8 inch diameter, blade 3 inches long, weight 1 1/2 oz., each......35
Each..D.P. \$0.67

Electrician's Pocket Screw Driver

No. 560



The handle is covered with hard rubber for insulation from electrical currents and is nicely ribbed so as to insure a firm grip when using the tool. It has four blades of different widths, any of which may quickly be taken from the telescope handle and inserted in the end, where it is automatically locked and firmly held for use.

The widths of the blades are 3/32 inch, 5/32 inch, 1/4 inch and 3/8 inch.

No. 560 Pocket Screw Driver, each.....\$1.50
Each..D.P. \$2.88

Starrett Hack Saws

No. 103. With Common Teeth, 18 to the inch, for General Use in Hand Frames.

The 8-inch saws are 7/16 inch wide, .022 inch thick; the 10 and 12-inch are 1/2 inch wide, .025 inch thick.

Length	8-in.	10-in.	12-in.
Per dozen	\$0.80	\$1.00	\$1.20
Dozen..D.P.	\$1.32	\$1.67	\$2.00

No. 102. With Fine Teeth, 24 to the inch, for Use in Hand Frames, on Tubing, etc.

For sawing tubing, brass, copper and sheet metal. The 8-inch are 7/16 inch wide, .022 inch thick.

Length	8-in.	10-in.	12-in.
Per dozen	\$0.80	\$1.00	\$1.20
Dozen..D.P.	\$1.32	\$1.67	\$2.00

No. 253. With Extra Fine Teeth, 32 to the inch, for Use in Hand Frames, on Thin Metals, etc.

For sawing thin sheet metal and tubing. The 8-inch are 7/16 inch wide, .022 inch thick.

Length	8-in.	10-in.	12-in.
Per dozen	\$0.80	\$1.00	\$1.20
Dozen..D.P.	\$1.32	\$1.67	\$2.00

No. 252. Flexible Back with Fine Teeth, 24 to the inch, for Use in Hand Frames, on Tubing, etc.

For sawing tubing, brass, copper and sheet metal. The 8-inch are 7/16 inch wide, .022 inch thick.

Length	8-in.	10-in.	12-in.
Per dozen	\$0.80	\$1.00	\$1.20
Dozen..D.P.	\$1.32	\$1.67	\$2.00

No. 258. Flexible Back with Extra Fine Teeth, 32 to the inch, for Use in Hand Frames, on Thin Metal, etc.

For sawing thin sheet metal and tubing. The 8-inch are 7/16 inch wide, .022 inch thick.

Length	8-in.	10-in.	12-in.
Per dozen	\$0.80	\$1.00	\$1.20
Dozen..D.P.	\$1.32	\$1.67	\$2.00

No. 112. With Common Teeth, 18 to the inch, for General Use in Power Machines or Hand Frames.

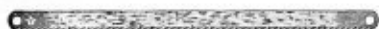
The No. 112 saws are 3/4 inch wide, .030 inch thick. Experience has taught us that these blades are of the correct width and thickness for general use either in power machines or hand frames.

Length	10-in.	12-in.
Per dozen	\$1.00	\$1.25
Dozen..D.P.	\$1.67	\$2.11



HACK SAWS AND TOOL KITS

Star Hack Saw Blades



Tempered to the utmost without injuring the toughness and toughened to the utmost possible without injuring the temper. Perfectly toothed with patent set; scientifically designed and absolutely correct as to width, thickness and number of teeth to the inch. Made with 14 and 24 teeth to the inch. Blades with 14 teeth to the inch are adapted to all kinds of hack saw work and materials except thin stock and tubing with thin walls, for which blades with 24 teeth should be used. Blades with 14 teeth to the inch are supplied unless 24 teeth or "fine" is specified.

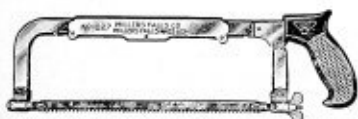
Star Hack Saw Blades, 8-inch; per dozen.....\$0.75
Per Dozen..D.P. \$1.11

Star Hack Saw Blades, 10-inch; per dozen..... .85
Per Dozen..D.P. \$1.32

Star Hack Saw Blades, 12-inch; per dozen..... 1.00
Per Dozen..D.P. \$1.54

Star Power Hack Saw Blades, 12-inch; per dozen.. 1.25
Per Dozen..D.P. \$2.44

Star Hack Saw Frames



No. 1027 Star Hack Saw Frame. Pistol grip; black composition handle; polished and nickeled steel stock, $\frac{3}{8}$ x $1\frac{1}{2}$ inch. Compact, stiff frame, with extra strength in the middle of the back where there is the greatest strain. Handle a perfect fit for any size of hand, secured to the frame by a steel rib extending nearly the full length of the handle, and shaped so as to make the tool correctly balanced. Blades strained by thumb nut and screw stud, placed beneath the handle, so as to allow maximum stroke; blades may be faced in four directions. Extensible for blades from 8 to 12 inches. Depth under back, $3\frac{1}{4}$ inches.

Each\$1.50
Each..D.P. \$2.22

Starrett Hack Saw Frame

This solid steel frame is very stiff, the stock in same being wider than commonly used, and it cannot be cramped by straining the blade. The saws may be set to cut in either of four directions and tightened by simply turning the handle. It is well made and in every way just right. Polished and nickel plated.



No. 141—12-inch, with one blade, each.....D.P. \$1.06

Hack Saw Frame



This is, we believe, a better frame for the price than any other make. The stock is wider and stiffer than commonly used and cannot be cramped when saws are strained up, and will not tremble when used. It is well made with our improved adjustable back and will take in 8, 9, 10, 11 and 12-inch saws, which may be set to cut in either one of four directions, and tightened by simply turning the handle. Polished and nickel plated.

No. 146, with one blade, each.....D.P. \$2.44

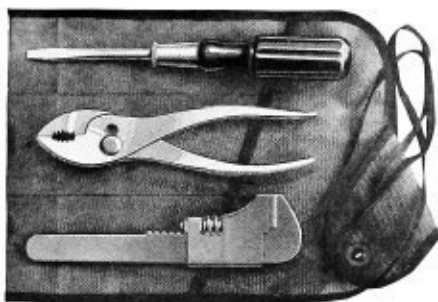
Starrett Patent Hack Saw Frames

Spring plungers overlap the ends of the saw, automatically holding it to its home. By slightly pushing them back the saw may be instantly removed, thus furnishing the most convenient way of attaching or detaching the saw ever devised. An improved nut within the handle, turning with it, gives the desired tension to the saw, which may be quickly and conveniently set at any required angle. The adjustable or extension back frames have improved spring pawls which securely hold the frames to receive saws of various lengths. The frames are neither too light nor too heavy—just right—are finely finished and nickel plated. In appearance, workmanship and utility, these tools are not approached by any other hack saw frames made.



No. 140, with one blade, each.....D.P. \$2.22

No. 2 Handy Tool Kit



No. 2 Handy Three-Piece Set. Just the tools most needed and which you want to keep within easy reach in the car. Set consists of: 1 4-inch screwdriver, 1 6-inch adjustable wrench, 1 6-inch pair pliers. Tools are highest quality, service tools and are put up in handy cloth case.

Per Set\$1.75
Per Set..D.P. \$2.44

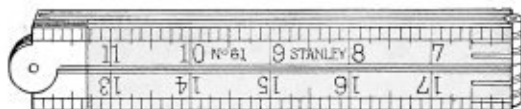


RULES AND BAGS

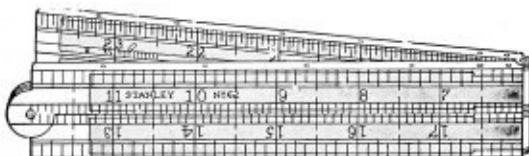
Stanley Rules



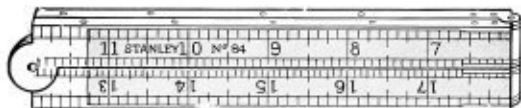
No. 68 Two feet, four-fold, round joint, middle plates, 8ths and 16ths, 1 inch wide, each.....\$0.25
Dozen...D.P. \$2.67



No. 61 Two feet, four-fold, square joint, middle plates, 8ths and 16ths, 1 inch wide, each.....\$0.30
Dozen...D.P. \$3.47



No. 62 Two feet, four-fold, square joint, full bound, 8ths, 10ths, 12ths, 16ths, and drafting scales, 1 inch wide, each.\$0.65
Dozen...D.P. \$9.33

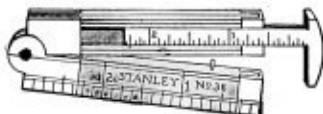


No. 81 Two feet, four-fold, square joint, half-bound, 8ths, 10ths, 12ths, 16ths and drafting scales, 1 inch wide, each.\$0.50
Dozen...D.P. \$8.00



No. 69 One foot, four-fold, round joint, middle plates, 8ths and 16ths, 5/8 inch wide, each.....\$0.15
Dozen...D.P. \$2.22

No. 36 Square joint, two-fold, 6-inch, 8ths, 10ths, 12ths and 16ths, with caliper, price each.....\$0.40
Dozen...D.P. \$5.33



No. 32 Arch Joints, edge plates, four-fold, 12-inch, 8ths, 10ths, 12ths and 16ths, with caliper, price each.....\$0.60
Dozen...D.P. \$8.00

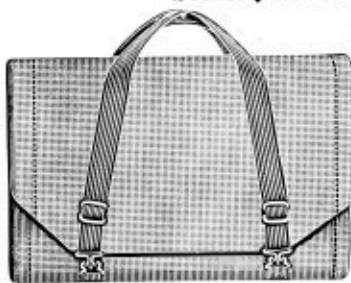


Mechanic's Tool Bag



A very strong and well-made bag, with lock and key. Just the thing for the auto repair man.
Each.....\$2.50
Each...D.P. \$3.89

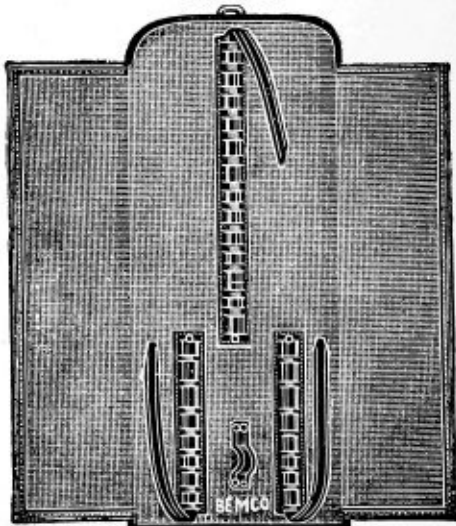
Security Tool Bag



The Security Tool Bag is positively the most convenient tool bag ever made. When the bag is opened all the tools come into plain sight so you can pick up just the tool you want to use. When it is closed there is no possible chance for the tools to get out of it. Instantly accessible. Instantly put away. It is made of heavy cotton duck fabric and will last a lifetime.

Each.....\$1.25
Each...D.P. \$2.09

Tool Roll



No. 30-A Tool Roll, holds 30 tools, each.....\$2.10
Each...D.P. \$2.56
No. 24-A Tool Roll, holds 24 tools, each.....1.65
Each...D.P. \$2.22
No. 12-A Tool Roll, holds 12 tools, each.....1.25
Each...D.P. \$1.56



PUNCHES, CHISELS AND PLIERS

Solid Punches



No. 201 Solid Punches; these punches are made of high quality Octagon Tool Steel; blue finish, very attractive; length six inches; sizes as shown below; each.....\$0.20
Dozen...D.P. \$2.67



No. 24 Octagon Prick Punches; these punches are made of high quality Octagon Tool Steel; blue finish, very attractive; 4½ inches long, ¼-inch stock, each.....\$0.15
Dozen...D.P. \$2.22



No. 23 Octagon Center Punches; these punches are made of high quality Octagon Tool Steel; blue finish, very attractive; size ¾-inch, each.....\$0.15
Dozen...D.P. \$2.22



No. 330 Cold Chisels; made of highest grade hammered crucible steel. These chisels are sold by face size.

¼x5-inch, made from ¼-inch stock, each.....\$0.20
Dozen...D.P. \$2.22
5/16x5-inch, made from 5/16-inch stock, each......20
Dozen...D.P. \$2.44
¾x5-inch, made from ¾-inch stock, each......25
Dozen...D.P. \$2.75
½x6-inch, made from 7/16-inch stock, each......30
Dozen...D.P. \$3.32
¾x6½-inch, made from ½-inch stock, each......35
Dozen...D.P. \$4.10



No. 331 Round Nose Chisels; made of highest grade hammered crucible steel.

5/16x5-inch, each.....\$0.20
Dozen...D.P. \$2.22
¾x5-inch, each......20
Dozen...D.P. \$2.67
½x5½-inch, each......25
Dozen...D.P. \$3.55
¾x6¼-inch, each......30
Dozen...D.P. \$4.22



No. 332 Diamond Point Chisels; made of the highest grade hammered crucible steel.

5/16x5-inch, each.....\$0.20
Dozen...D.P. \$2.22
¾x5-inch, each......20
Dozen...D.P. \$2.75
½x5½-inch, each......25
Dozen...D.P. \$3.55
¾x6¼-inch, each......30
Dozen...D.P. \$4.06



No. 335 Cape Chisels; made of highest grade hammered crucible steel.

5/16x5-inch, each.....\$0.20
Dozen...D.P. \$2.75
¾x5-inch, each......20
Dozen...D.P. \$3.22
½x6-inch, each......25
Dozen...D.P. \$4.22
¾x6½-inch, each......30
Dozen...D.P. \$5.00

Revolving Punch



No. 18 Revolving 4 Tube Spring Punch, forged steel, high grade in quality and finish, knurled handles, each.....\$1.00
Dozen...D.P. \$11.44

Wiss Tinner's Steel Snips



Tinner's Snips, 2-inch cut, each.....\$1.50
Dozen...D.P. \$20.00
Tinner's Snips, 3-inch cut, each......2.00
Dozen...D.P. \$29.35

The Necessity Tire Chain Repair Tool



End of jaws (as shown in cut) shows position of hooks when opening; inside of jaws close to handle, for closing position.

With the Necessity Tire Chain Repair Tool a repair can be made in a few seconds. A broken cross chain removed and a new one inserted in less than one minute, while the chain is on the wheel, and without deflating the tire or rolling the hands. This tool is so constructed that an enormous pressure is brought to bear on the chain links with very little effort.

Each.....\$1.50
Each...D.P. \$2.22

Weed Pliers



Weed Pliers for opening and closing the circular hooks on Weed Cross Chains. They do the work with ease in a few seconds without removing the Chain from the tire.

Each.....\$0.50
Each...D.P. \$0.84



MILLERS FALLS TOOLS

No. 772 Brace



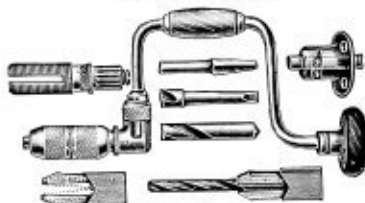
10-Inch Sweep

Polished and nickeled steel; cocobolo wood.
Ball-bearing head and chuck shell.
Sweep handle with inserted brass rings.
Patent cup washer (F) and screw (E) to hold chuck to sweep without working loose.

Forged steel jaws, holding positively and securely, and centering with reasonable accuracy round shanks from $\frac{1}{8}$ to $\frac{1}{2}$ inch in diameter, No. 1 Morse taper and all sizes of bit stock and expansion bit shanks.

No. 772 Brace, each \$3.75
Each... D.P. \$5.55

No. 730 Brace



14-Inch Sweep

Polished and nickeled steel; cocobolo wood.
Ball-bearing head.
Sweep handle with inserted steel rings.
Patent cup washer (F) and screw (E) to hold chuck to sweep without working loose.

Forged steel jaws, holding positively and securely, and centering with reasonable accuracy round shanks from $\frac{1}{8}$ to $\frac{1}{2}$ inch in diameter, No. 1 Morse taper and all sizes of bit stock and expansion bit shanks.

No. 730 Brace, each \$3.75
Each... D.P. \$5.55

No. 32 Brace



10-Inch Sweep

Polished and nickeled steel; cocobolo wood.
Ball-bearing head.
Sweep handle with inserted steel rings.
Patent cup washer (F) and screw (E) to hold chuck to sweep without working loose.

Forged steel alligator jaws holding bit stock and many sizes of round and irregular shanks.

No. 32 Brace, each \$3.00
Each... D.P. \$4.44

No. 1322 Brace



10-Inch Sweep

Polished and nickeled steel; ebonyized heads and handles; steel clad head.

Forged steel alligator jaws.
Brass rings inserted in sweep handle.
Friction washer beneath the quill in head.

No. 1322 Brace, each \$2.25
Each... D.P. \$3.22

No. 422 Brace



10-Inch Sweep

Nickeled; stained hardwood heads and handles.
Steel sweeps and jaw sockets. Alligator jaws of malleable iron; open ratchet.

No. 422 Brace, each \$1.75
Each... D.P. \$2.44

No. 162 Brace



10-Inch Sweep

Metal parts polished; stained hardwood.
Steel sweeps and jaw sockets.
Malleable alligator jaws. Ring ratchet.

No. 162 Brace, each \$1.25
Each... D.P. \$1.76

No. 222A Brace



10-Inch Sweep

Polished and nickeled steel; stained hardwood; steel clad head.

Brass rings inserted in sweep handle.
Forged steel alligator jaws.

No. 222A Brace, each \$1.60
Each... D.P. \$2.30

Automatic Star Pocket Borer

No. 8

Handsomely knurled and nickeled steel.

May be compressed into convenient size for the pocket.

Magazine handle, containing 8 drill points, ranging from $\frac{1}{16}$ to $\frac{11}{64}$ inch in diameter, and a screw driver bit.

Device for releasing a bit from handle without disturbing the others.

Screw driver bit to be used when tool is compressed.

Chuck with positive grip.

Length, extended, $7\frac{1}{4}$ inches; compressed, $4\frac{1}{8}$ inches.

No. 8 Star Pocket Borer, each \$2.25
Each... D.P. \$3.32





MILLERS FALLS TOOLS—Continued

No. 04 Hand Drill



Black enameled, cast iron frame and gears.
Steel spindle.
Nickel-chuck.

Drills range from 1/16 to 11/64 inch in diameter, are for boring in wood and soft metal and are put up in a wooden box. Length, 8 inches.

No. 04 Hand Drill, each\$1.50
Each..D.P. \$1.06



No. 03 Hand Drill

Stained hardwood; solid steel frame.
Bright metal parts nicked.
Detachable hollow end handle with receptacle for twist drills.

Detachable side, grip handle.
Cut gears, with idler gear to equalize bearings.
Three-jawed chuck holding round shanks from 0 to 3/16 inch in diameter. Length, 11 inches.

No. 03 Hand Drill, each\$2.25
Each..D.P. \$3.22

No. 3 Hand Drill



The same as No. 03, except that it does not have the small idler gear.

No. 3 Hand Drill, each\$2.00
Each..D.P. \$2.88



No. 5 Hand Drill

Cocobolo wood; malleable iron frame; bright metal parts nicked.

Hollow end handle with screw cap, containing 8 wood boring points, ranging in size from 1/16 to 11/64 inch in diameter.

Removable side, grip handle.
Cut gears; large gear with wide rim, idler gear to equalize bearings. Ball thrust bearing.

Three-jawed chuck holding, and centering accurately, round shank drills from 0 to 3/16 inch in diameter.
Length, 12 1/2 inches.

No. 5 Hand Drill, each\$2.50
Each..D.P. \$3.55

No. 98 Hand Drill



Stained hardwood handles; malleable iron frame; bright metal parts nicked.

Hollow end handle for holding twist drills.
Removable side grip handle.
Instantly changeable speed, 1 1/2 to 1 and 4 to 1, operated by shifting knurled ring B.

Cut gears, with adjustable friction roll to equalize bearings.
Ball thrust bearing.

Chuck of Star pattern with three jaws opening with springs, which are protected from injury and will not get out of order, and closing evenly on, and centering accurately, round shanks from 0 to 3/8 inch in diameter.

Length, without handle, 10 inches; with handle, 15 1/2 inches.

No. 98 Hand Drill, each\$4.00
Each..D.P. \$5.88

No. 980 Hand Drill



The same as drill No. 98, except for the hollow end handle, which is of shapely design with mushroom head.

Length without handle, 10 inches; with handle, 15 1/2 inches.

No. 980 Hand Drill, each\$4.00
Each..D.P. \$5.88

No. 1980 Hand Drill



The same as No. 980, except that it is provided with a simple and effective ratchet.

No. 1980 Hand Drill, each\$5.00
Each..D.P. \$7.11

No. 717 Chain Drill

Yoke and nuts japanned; socket and bit shank nicked.

Automatic self-regulating feed, or may be fed by hand.

Four feet of stout chain.

Length of main spindle, 8 1/2 inches.

Weight, 3 1/2 pounds.

No. 717 Chain Drill, each\$2.50
Each..D.P. \$3.66



No. 718 Chain Drill

Same as Chain Drill No. 717 except that master chuck is added for holding round shanks from 1/8 to 1/2 inch in diameter, bit stock, and No. 1 Morse taper shanks.

Length with chuck inserted, 11 1/2 inches.
Weight, 4 1/2 pounds.

No. 718 Chain Drill, each\$3.60
Each..D.P. \$5.33



No. 719 Chain Drill

Same as Chain Drill No. 717 excepting that Star chuck is provided for holding round shanks from 0 to 1/2 inch in diameter.

Jaws are operated by springs that are protected from injury and will not get out of order.

Length with chuck inserted, 11 1/4 inches.
Weight, 4 1/2 pounds.

No. 719 Chain Drill, each\$5.00
Each..D.P. \$7.11





MILLERS FALLS TOOLS—Continued

Breast Drills



No. 100

Malleable iron black frame; chuck and crank nicked. Breast plate adjustable to different positions and made to fit the hand; when grasped with middle finger through hole provided for it the tool can be held easily and steadied in awkward and out-of-the-way places when the breast plate must be held in the hand. Auxiliary Breast Plate, as shown in illustration. To add ease and comfort or for use in doing heavy work. Instantly changeable speed from even to 3 to 1. Cut gears; small gears of steel. Ball thrust bearing. Chuck is of the Star pattern with three jaws holding round shanks from 0 to $\frac{1}{2}$ inch in diameter. Jaws are operated with springs that are protected from injury and will not get out of order. Weight, each, 7 pounds. Length, 18 inches.

No. 100 Breast Drill, each\$5.00
Each..D.P. \$7.22



No. 99

No. 99 the same as No. 100, except that chuck is of the master pattern, holding and centering with reasonable accuracy, round shanks from $\frac{1}{2}$ to $\frac{3}{4}$ inch in diameter, No. 1 Morse taper and all sizes of bit stock shanks. No. 99 Breast Drill, each.....\$4.25
Each..D.P. \$6.33



No. 2200 Ratchet

Malleable iron black frame; no nicked parts. Instantly changeable speed from $1\frac{1}{2}$ to 1 and 4 to 1. Cut gears; small gears of steel. Auxiliary side handle. Chuck of star pattern with three jaws operated by springs that are protected from injury and will not get out of order. Holds round shanks from 0 to $\frac{1}{4}$ inch in diameter. Provided with a simple and effective ratchet. Weight, each, 6 pounds. Length, 17 $\frac{1}{2}$ inches. No. 2200 Ratchet Breast Drill, each.....\$5.75
Each..D.P. \$8.22



No. 19

No. 19. Black enameled cast iron frame and breast plate; rolled steel main stock; adjustable crank with radius of 4 to 7 inches; cut gears; ball thrust bearing; changeable speed from even to 3 to 1; speed changed instantly and without removing bit from the work. Barber improved chuck with alligator jaws holding bit stock and many sizes of round shanks. Length, 18 inches. Weight, each, 6 pounds. No. 19 Breast Drill, each.....\$2.75
Each..D.P. \$4.11

Breast Drills



No. 212

Malleable iron frame; chuck polished. Breast plate adjustable to different positions and removable; cut gears; small gears of steel; ratio $3\frac{1}{2}$ to 1; diameter of large gear, 4 inches; radius of crank, 4 inches. Hardened steel washer as thrust bearing. Star chuck with large jaws, holding and centering accurately round shanks from 0 to $\frac{3}{8}$ inch in diameter. The jaws in this chuck are operated by springs that are protected from injury and will not get out of order. Length, 14 $\frac{1}{2}$ inches; weight, each, 4 pounds.

No. 212 Breast Drill, each.....\$2.85
Each..D.P. \$4.22

Bench Drill Press



No. 210

Strong cast iron standard. Hand feed. Instantly changeable speed, $1\frac{1}{2}$ to 1 and 4 to 1. Adjustable crank, extensible from 3 to 6 inches in radius. Table with swivel arm; may be raised within range of 2 inches. Wrench to fit all nuts on the tool. Chuck of star pattern, holding round shanks from 0 to $\frac{1}{2}$ inch, and jaws operated by springs that are protected from injury and will not get out of order. Height over all, 24 in. Maximum distance from chuck to table, 9 in. Weight, boxed, 27 $\frac{1}{2}$ lbs.; net, 22 lbs. Packed one in a wooden box.

No. 210 Bench Drill Press, each.....\$9.50
Each..D.P. \$13.88

Bench Drill Press

Automatic feed with two grades of positive feed or may be fed by hand. Instantaneous change of speed; speeded even and $3\frac{1}{2}$ to 1. Chuck of Star pattern holds round shanks from 0 to $\frac{1}{2}$ inch in diameter. Adjustable crank with radius from 3 to 6 $\frac{1}{2}$ inches. Ball thrust bearings. Table slotted to receive vise clamps or posts to hold work in place. Distance from standard to drilling point, 3 $\frac{1}{2}$ inches. Height above bench, 22 inches; over all, 28 inches. Weight, gross, 50 pounds; net, 30 pounds. Packed one in a wooden box.



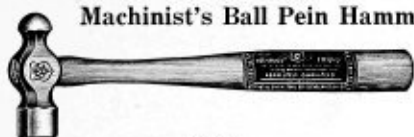
No. 216

No. 216 Bench Drill Press, each\$18.00
Each..D.P. \$27.22



HAMMERS, MOTOR WASHERS AND ENGINE CLEANERS

Machinist's Ball Pein Hammer



	Each		Each
4-oz. B.P. Hammer..	\$0.50	12-oz. B.P. Hammer	\$0.50
Dozen.. D.P.	\$8.33	Dozen.. D.P.	\$8.33
6-oz. B.P. Hammer..	.50	16-oz. B.P. Hammer	.55
Dozen.. D.P.	\$8.33	Dozen.. D.P.	\$8.88
8-oz. B.P. Hammer..	.50	24-oz. B.P. Hammer	.60
Dozen.. D.P.	\$8.33	Dozen.. D.P.	\$10.66

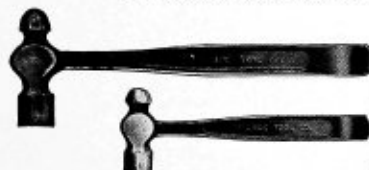
Machinist's Ball Pein Hammer

Semi-Finished



10-ounce B. P. Hammer, semi-finished, each.....	\$0.40
Dozen.. D.P.	\$6.66
12-ounce B. P. Hammer, semi-finished, each.....	.40
Dozen.. D.P.	\$6.66
16-ounce B. P. Hammer, semi-finished, each.....	.40
Dozen.. D.P.	\$6.66

All Steel Ball Pein Hammer



Drop forged in one piece. Can be used instead of regular ball pein hammer to better advantage. Suggested particularly for motorcycle and automobile repair

Vichek Brand

work, on account of having tire iron handle.

A practical tool for all mechanics.

4-ounce All Steel Ball Pein Hammer, each.....	\$0.50
Dozen.. D.P.	\$8.33
10-ounce All Steel Ball Pein Hammer, each.....	.60
Dozen.. D.P.	\$10.66

Perfect Handle Hammer



Made of drop forgings, one piece of steel; is 10 inches long, with 3/4-inch head, and weighs 19 ounces.

Price, each.....\$0.85
Dozen.. D.P. \$17.76

Riveting Hammer



TINNERS RIVETING HAMMER.

No. 1 Tinner's Riveting Hammer, 1/4 pound	\$0.50
Dozen.. D.P.	\$8.88
No. 2 Tinner's Riveting Hammer, 1/4 pound, each....	.55
Dozen.. D.P.	\$9.44
No. 3 Tinner's Riveting Hammer, 1 pound, each....	.60
Dozen.. D.P.	\$10.22

Engineer's Hammer



PLOW OR ENGINEER'S HAMMER

No. 0 Engineer's Single Face Hammer, 1 pound 2 ounces, each.....	\$1.00
Dozen.. D.P.	\$12.21
No. 1 Engineer's Single Face Hammer, 1 pound 10 ounce, each.....	1.10
Dozen.. D.P.	\$13.32
No. 2 Engineer's Single Face Hammer, 2 pound, each.....	1.15
Dozen.. D.P.	\$14.66
No. 3 Engineer's Single Face Hammer, 2 pound 8 ounce, each.....	1.25
Dozen.. D.P.	\$15.96

Turner Motor Washer

This device is indispensable to the auto owner or the garage repair man. By using it all grease, grime and dirt can be instantly removed from all otherwise inaccessible parts of the motor and other mechanism. No grease or oil cup should ever be removed and opened for filling without first being cleaned with this washer. Its use before making repairs or changes in the motor will insure clean hands and clothing.



The high air pressure forcing the gasoline will quickly remove every particle of dirt and grease, and uses a minimum amount of gasoline, one quart being sufficient for cleaning the dirtiest motor. Once used, you would never go back to the old way of wiping with a cloth or piece of waste. Not only can it be used for cleaning motors, but in the factory for washing the gummed oil and dirt from all parts of the machinery which can not be reached in any other way.

Each.....\$4.00
Each...D.P. \$6.66

Romort Engine Cleaner



The Romort Engine Cleaner is a

guaranteed device that has no equal for the cleaning of dirt and grease from the machinery of automobiles and motorcycles. Constructed on scientific lines—the air does not enter the tank, but passes right through the air tube, picking up the fluid at the extreme end of the cleaner, thereby eliminating all danger of explosion, this being absolutely impossible. With the long spout the operator reaches every nook and corner of the machinery. Fluid capacity two quarts (common coal oil is the best). This quantity is sufficient to clean the largest engine. Air may be supplied from any system that produces from 20 to 200 pounds pressure. We highly recommend power tire pumps attached to autos, garage storage air systems, etc. When attached to air supply, fluid is forced out in a heavy spray, requiring not over five minutes to thoroughly clean the machinery. Size of cleaner 20 1/2 inches long by 4 inches diameter. Weight 2 pounds.

Each.....\$3.00
Each.. D.P. \$5.00



The GIBSON COMPANY INDIANAPOLIS

FILES



Size	6	8	10	12
Flat Bastard Files, dozen	\$4.30	\$5.30	\$7.00	\$9.70
Dozen .. D.P.	\$2.77	\$3.55	\$4.44	\$6.22



Size	6	8	10	12	14
Mill Bastard Files, dozen	\$3.50	\$4.30	\$5.60	\$7.50	\$10.70
Dozen .. D.P.	\$2.22	\$2.77	\$3.66	\$5.33	\$6.88



Size	6	8	10	12	14
Half Round Bastard Files, dozen	\$6.10	\$7.50	\$9.10	\$11.80	\$15.50
Dozen .. D.P.	\$4.00	\$5.33	\$5.88	\$7.77	\$10.00



Size	4	6	8	10	12
Round Bastard Files, dozen	\$3.00	\$3.50	\$4.30	\$5.60	\$7.50
Dozen .. D.P.	\$2.00	\$2.22	\$2.77	\$3.66	\$5.00



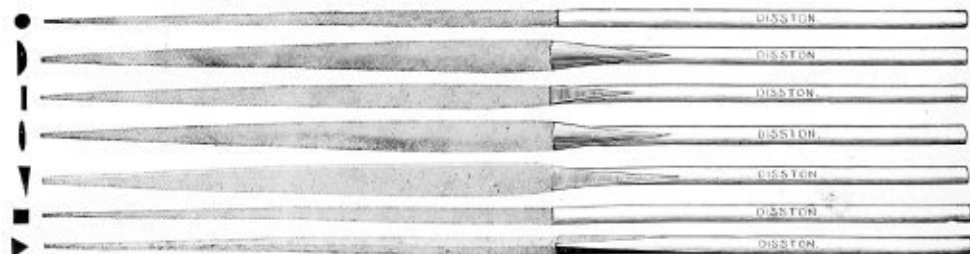
Size	3½	4	4½	5	5½	6
Slim Taper Files, dozen	\$2.10	\$2.20	\$2.30	\$2.50	\$2.90	\$3.10
Dozen .. D.P.	\$1.44	\$1.54	\$1.76	\$1.88	\$2.00	\$2.22



Size	4	5	6
Warding Files, dozen	\$4.00	\$4.50	\$4.90
Dozen .. D.P.	\$2.66	\$3.00	\$3.55



Magneto Files, 3½-inch, for platinum points on coils and magnetos, dozen	\$2.35
Dozen .. D.P.	\$3.00



Set of twelve needle files of the following varieties:
 Round, half round, flat, oval, knife, square, 3-square, equaling, slitting joint, barrette, marking with round handle.

Price per set	\$2.00
Per set .. D.P.	\$2.67



VICES AND COMBINATION FORGE, ANVIL AND VISE

Rock Island Diamond Stationary Vise



This is our standard stationary base vise. It has all the qualities of design, strength and material of the Diamond swivel base vise.

These vises are heavy and the material is well distributed. All vital points are reinforced.

Material: Casting, our special alloy; screw, cold rolled steel; handle, cold rolled steel; jaws, crucible cast tool steel, carefully hardened; nut, malleable iron.

No.	Width Jaw, Inches	Opens, Inches	Weight, Pounds	Each
90	2½	2½	17	\$5.00
Each..D.P.				\$7.22
91	3	4	22	6.00
Each..D.P.				\$8.55
92	3½	5	28	7.00
Each..D.P.				\$10.00
93	4	6	42	8.50
Each..D.P.				\$12.22
94	4½	6½	54	10.00
Each..D.P.				\$14.44
95	5	7½	75	13.00
Each..D.P.				\$18.88

Rock Island Diamond Swivel Vise

This is our standard swivel vise, and we believe we have the best design on the market. Notice the lines of this vise.

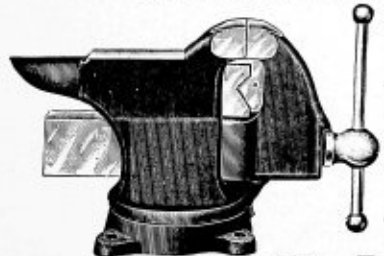
These vises are heavy and the material is well distributed. All vital points are reinforced. Our Diamond vises are practically unbreakable. We guarantee to replace any that do break.

This vise can be turned in any position on an axis parallel with the floor and is locked by a clamping bolt, which works in a channel.



No.	Width Jaw, Inches	Opens, Inches	Weight, Pounds	Each
70	2½	2½	20	\$5.50
Each..D.P.				\$8.33
71	3	4	28	7.50
Each..D.P.				\$11.11
72	3½	5	38	8.75
Each..D.P.				\$12.77
73	4	6	54	10.50
Each..D.P.				\$15.00
74	4½	6½	65	12.00
Each..D.P.				\$17.22
75	5	7½	90	16.00
Each..D.P.				\$22.77

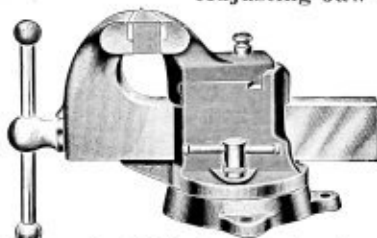
Rock Island Auto Vise



A combination pipe vise and anvil. This vise is especially adapted for automobile repair work. There is nothing on the market so suitable for all kinds of repair work. This vise is very heavy. It is made of same material as our other well-known types.

No.	Width Jaw, Inches	Capacity Pipe, Inches	Weight, Pounds	Each
241	3½	½ to 2	80	\$16.00
Each..D.P.				\$25.55

Rock Island Diamond Swivel Vise With Self-Adjusting Jaw



Our standard swivel vise with self-adjusting jaw. This vise can be turned in any position on an axis parallel with the floor, and is locked by a clamping bolt which works in a channel.

The back jaw of this vise is self-adjusting, and when in use conforms automatically to any angle and makes firm the object held. The self-adjusting jaw feature is of such a design that it is absolutely as strong and durable as a solid jaw. Other manufacturers do not use this design because it costs more to build.

No.	Width Jaw, Inches	Opens, Inches	Weight, Pounds	Each
50	3½	5	37	\$12.00
Each..D.P.				\$18.06
51	4	6½	53	15.00
Each..D.P.				\$22.22
52	4½	7	70	18.00
Each..D.P.				\$26.06
53	5	7½	95	22.50
Each..D.P.				\$33.88
54	5½	8½	125	30.00
Each..D.P.				\$46.06
55	6	11	158	35.00
Each..D.P.				\$57.77
56	7	12	220	40.00
Each..D.P.				\$75.00

Rock Island Combination Forge, Anvil, Vise, Drill, Etc.

The machine is 52 inches high and 48 inches long.

Weights about 150 pounds.

This tool is indispensable to the farmer, contractor and others who have implements, automobiles or machinery of any kind to repair. There is no other combination tool manufactured so suitable for repairing of all kinds.

The construction of the tool is very simple, there being no complicated mechanism to break or get out of order.

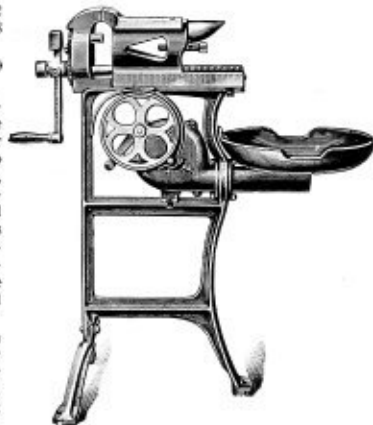
Forge—Pan is oval shape, 12x15 inches and stands 27 inches from floor.

Fan—Is 7 inches in diameter, is driven by an accurately cut gear and pinion. Will produce sufficient blast with very little exertion.

Anvil—Is 3½ inches wide by 12 inches long. Is solid semi-steel. A hardy is furnished.

Vise—Jaws are 3½ inches wide and open 11 inches. We use crucible tool steel in the jaws. Pipe jaws will take pipe up to 2 inches diameter.

Drill Chuck—Takes ½-inch round shank drill. Distance from chuck to feed table 8 inches. Chucks are cold rolled steel.



Each	\$25.00
Each..D.P.	\$35.55



The GIBSON COMPANY INDIANAPOLIS

GRADERS, BOLT CUTTERS AND DIFFERENTIAL BLOCKS

Niagara Grinder No. 3



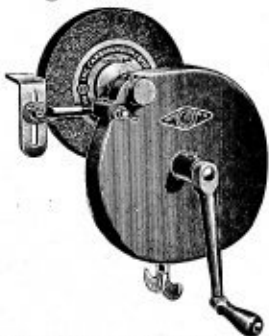
Carborundum Niagara Grinder No. 3 is fitted with an adjustable tool-grinding guide, and a medium grit Carborundum wheel, 6 inches in diameter, 1 inch thick.

Weight, packed, 10 pounds.

No. 3 Niagara Grinder, complete, each.....\$5.00

Each..D.P. \$8.33

Niagara Grinder No. 4



Carborundum Niagara Grinder No. 4 is fitted with an adjustable tool-grinding guide and a Carborundum wheel 7½ inches in diameter, 1½ inches thick.

Weight, packed, 26 pounds.

No. 4 Niagara Grinder, complete, each.....\$8.00

Each..D.P. \$12.44

Niagara Grinder Foot Power Attachment No. 21

This foot power attachment can be fitted to either No. 3 or No. 4 Niagara Grinder. The attachment is simple and powerful. It is made of malleable iron and is strong and durable. It is readily adjusted to several heights. The illustration shows attachment fitted to No. 4 Grinder.

No. 21 Niagara Foot Power Attachment, each.....\$1.50

Each..D.P. \$2.49



"Handy" Bolt and Wire Cutters



Side Cutting

No. 60 Wire Cutter cuts ¼-inch wire, weight 9 ounces, length 6 inches, each.....\$1.00

Each..D.P. \$1.06

No. 70 Wire Cutter cuts 5/32-inch wire, weight 11 ounces, length 8 inches, each.....1.15

Each..D.P. \$1.76

No. 80 Wire Cutter cuts 3/16-inch wire, weight 14 ounces, length 10 inches, each.....1.25

Each..D.P. \$2.00

These three numbers are packed ½ dozen in a box. These cutters are indispensable in every shop and garage.



Side Cutting

No. 00 Wire Cutter cuts ¼-inch wire, weight 2 pounds, length 12 inches, each.....\$1.40

Each..D.P. \$2.22

No. 40 Wire Cutter cuts 5/16-inch wire, weight 2½ pounds, length 15 inches, each.....1.90

Each..D.P. \$3.11

No. 50 Bolt Cutter cuts 5/16-inch bolts, weight 3½ pounds, length 18 inches, each.....2.25

Each..D.P. \$5.00

New Easy Bolt Clippers



No. 0 New Easy Bolt Clippers, length 18 inches, weight 3 pounds, for 5/16-inch bolts, each.....\$3.75

Each..D.P. \$4.17

No. 1 New Easy Bolt Clippers, length 24 inches, weight 4½ pounds, for ¾-inch bolts, each.....5.00

Each..D.P. \$5.55

No. 2 New Easy Bolt Clippers, length 30 inches, weight 7½ pounds, for 1-inch bolts, each.....7.00

Each..D.P. \$7.77

No. 3 New Easy Bolt Clippers, length 36 inches, weight 11½ pounds, for 1½-inch bolts, each.....9.00

Each..D.P. \$10.00

Yale Differential Block

Made by Yale & Towne

These blocks handle heavy loads readily and are sold at the lowest prices possible for reliable blocks.

Yale & Towne Chain Hoisting Block,
½ ton capacity, 6-foot hoist, each..\$18.00

Each..D.P. \$24.00

Yale & Towne Chain Hoisting Block,
½ ton capacity, 7-foot hoist, each..21.00

Each..D.P. \$28.00

Yale & Towne Chain Hoisting Block,
1 ton capacity, 8-foot hoist, each..28.00

Each..D.P. \$37.33

Yale & Towne Chain Hoisting Block,
1½ ton capacity, 8½-foot hoist, each 36.00

Each..D.P. \$48.00



Every block tested to a 50 per cent. overload.



SCREW PLATES



No. 1460

Five Cutting Sizes in Hardwood Case. Plug taps, dies and guides 2-3/16 inch. Outside diameter, stock 18 inches long, No. 1802; adjustable tap wrench, 11 1/2 inches long, No. 5.

No. 1460 S. A. E. (formerly A. L. A. M.), 5 sizes: 1-28, 5/16-24, 3/4-24, 7/16-20, 1-20, per set.....\$10.75
Per set..D.P. \$15.55

No. 1460 U. S. S., 5 sizes: 1-20, 5/16-18, 3/4-16, 7/16-14, 1-13, per set.....10.75
Per set..D.P. \$15.55

No. 1464

Seven Cutting Sizes in Hardwood Case. Plug taps, dies and guides 2-3/16 inches. Outside diameter, stock 22 inches long, No. 1803; adjustable tap wrench, 15 inches long, No. 6.

No. 1464 S. A. E. (formerly A. L. A. M.), 7 sizes: 1-28, 5/16-24, 3/4-24, 7/16-20, 1-20, 2-18, 2-16, per set.....\$14.00
Per set..D.P. \$21.66

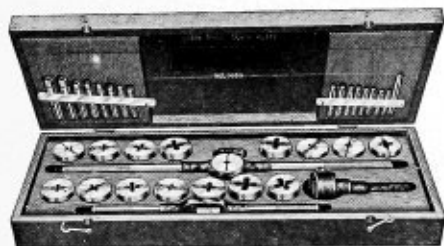
No. 1464 U. S. S., 7 sizes: 1-20, 5/16-18, 2-18, 7/16-14, 1-13, 2-11, 2-10, per set.....\$14.00
Per set..D.P. \$21.66

No. 1462

Eleven Cutting Sizes in Hardwood Case, shown in illustration above. Plug taps, dies and guides 2-3/16 inches. Outside diameter, stock 22 inches long, No. 1803; two adjustable tap wrenches, 11 1/2 inches long, No. 5; 19 1/2 inches long, No. 7.

No. 1462 S. A. E. (formerly A. L. A. M.), 11 sizes: 1-28, 5/16-24, 3/4-24, 7/16-20, 3-20, 9/16-18, 2-18, 11/16-16, 2-16, 2-14, 1-14, per set.....\$27.00
Per set..D.P. \$40.00

No. 1462 U. S. S., 11 sizes: 1-20, 5/16-18, 3-16, 7/16-14, 3-13, 9/16-12, 2-11, 11/16-11, 2-10, 2-9, 1-8, per set.....\$27.00
Per set..D.P. \$40.00



No. 1468

No. 1468 contains five sizes of taps and dies in both S. A. E. and U. S. S. make, cutting sizes as follows:

1-5/16-7/16-1 S. A. E.
1-5/16-1-7/16-1 U. S. S.

Also No. 1 5-tap wrench, 1 stock dieholder 18 inches long, 1 bit brace dieholder, places for 1 tap die, 7 guide, 2-3/16 inches diameter.

Price.....\$17.00
Each..D.P. \$28.33

No. 1469

No. 1469 contains eight sizes of taps and dies in both S. A. E. and U. S. S., making sixteen cutting sizes:

1-5/16-7/16, 1-3/16, 1-1/2 S. A. E.
1-5/16-7/16, 1-3/16, 1-1/2 U. S. S.

Price.....\$23.50
Each..D.P. \$38.88



No. 1475

With S. A. E. (formerly A. L. A. M.) Standard Taps and Round Adjustable Dies.

No. 1475, 5 sizes, 1-28, 5/16-24, 3/4-24, 7/16-20, 1-20. Contained in leather roll as illustrated above. Plugs, taps, round button dies, 1 inch outside diameter; stock, No. 1852 9 inches long; adjustable tap wrench, "T" style.

Above set furnished in hardwood case at same price.

Price.....\$10.00
Price..D.P. \$14.44



Style O Screw Plates

1/2-inch diameter adjustable dies; U. S. S. form thread.

Contents:

Plug Taps; Dies and Guides 1/2 inch outside diameter; Stock, No. 1800 (6 inches long) and "T" Style Tap Wrench.

Machine Screws

No. 151. 5 sizes: 4-36, 6-32, 8-32, 10-24, 12-24, per set....\$5.50
Per set..D.P. \$8.33.

No. 153. 7 sizes: 4-36, 6-32, 8-32, 10-24, 12-24, 14-24, 16-18, per set.....7.00
Per set..D.P. \$10.55

Fractional Sizes

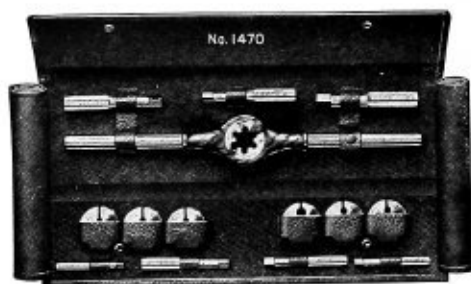
No. 150. 5 sizes: 1-40, 5/32-36, 3/16-30, 7/32-28, 1-20, per set.....\$5.50
Per set..D.P. \$8.33

No. 152. 7 sizes: 7/64-50, 1-40, 9/64-40, 5/32-36, 3/16-30, 7/32-28, 1-20, per set.....7.00
Per set..D.P. \$10.55

No. 154. 10 sizes: 1/16-64, 5/64-64, 3/32-50, 7/64-50, 1-40, 9/64-40, 5/32-36, 3/16-30, 7/32-28, 1-20, per set.....9.75
Per set..D.P. \$15.00



SCREW PLATES—Continued



No. 1470

Seven sizes in leather roll as shown.

No. 1470 S. A. E. (formerly A. L. A. M.), 7 sizes, $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{8}$ -24, $\frac{7}{16}$ -20, $\frac{1}{2}$ -20, $\frac{5}{8}$ -18, $\frac{3}{4}$ -18; price. \$13.50
Per Set. .D.P. \$18.18

No. 1470 U. S. S., 7 sizes, $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -13, $\frac{5}{8}$ -12, $\frac{3}{4}$ -11; price. 13.50
Per Set. .D.P. \$18.88



No. 1480

Seven sizes in hardwood case.

No. 1480 S. A. E. (formerly A. L. A. M.), 7 sizes. Plug taps; round button dies, $1\frac{1}{2}$ inches diameter; die stock 14 inches long, No. 1853.

Tap and die sizes: $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{8}$ -24, $\frac{7}{16}$ -20, $\frac{1}{2}$ -20, $\frac{5}{8}$ -18, $\frac{3}{4}$ -18; price. \$13.50
Per Set. .D.P. \$18.88

No. 1480 U. S. S., 7 sizes. Plug taps; round button dies, $1\frac{1}{2}$ inches diameter; die stock 14 inches long, No. 1853.

Tap and die sizes: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -13, $\frac{5}{8}$ -12, $\frac{3}{4}$ -11; price. \$13.50
Per Set. .D.P. \$18.88

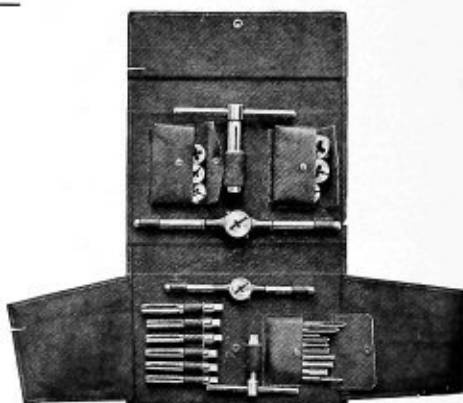


No. C300—S. A. E.

A handy and compact set put up in a compact case covered with imitation leather.

C-300. Five sizes: $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{8}$ -24, $\frac{7}{16}$ -20, $\frac{1}{2}$ -20, S.

A. E.; price. \$6.50
D.P. \$11.11



No. 2500—For Ford Cars

GOATSKIN LEATHER, CANVAS LINED

Contents:

Sizes: 6-32, 10-24, 10-32, 12-24, 14-24, $\frac{3}{8}$ -32, $\frac{1}{2}$ -20, 5/16-18, 5/16-24, $\frac{3}{8}$ -16, $\frac{3}{8}$ -24, $\frac{11}{16}$ -16, $\frac{7}{8}$ -14, $\frac{1}{2}$ -20, and $\frac{1}{2}$ pipe.

Plug taps; round dies, $1\frac{1}{2}$ -inch outside diameter for sizes $\frac{1}{8}$ -inch and smaller, and 1-inch for sizes $\frac{3}{8}$ -inch and larger; 2 stocks 6 $\frac{1}{2}$ inches long and 9 inches long; 2 adjustable tap wrenches, "T" style.

Contained in leather roll as illustrated.

Above set furnished in hardwood case at same price.

Price\$18.50
D.P. \$26.66



No. 2501—For Ford Cars

This assortment of taps, dies and reamers has been selected to meet the demand from garages and repair shops, and is based on their experience in handling repairs on Ford cars.

Screw cutting sizes: $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{8}$ -24, $\frac{11}{16}$ -16, $\frac{7}{8}$ -14, $\frac{1}{2}$ -20, $\frac{1}{2}$ -20.

Plug taps and round adjustable dies.

Spiral fluted reamers—

2-in-1 for spindle body and spindle arm bushing,

1 for piston pin bushing.

Stock for round adjustable dies.

"T" tap wrench (adjustable).

Weight, 4 $\frac{1}{2}$ pounds.

Price\$14.50
D.P. \$20.00



WRENCHES AND STOCKS

Adjustable Tap Wrenches



Lightning Adjustable Tap Wrenches will hold both hand and pipe taps.

Adjustment is obtained through a right- and left-hand screw by revolving one of the handles.

The jaws are made of fine tool steel, are rigidly held in place, and give a tight, strong grip.

Sizes No. 7 and smaller are made from drop forgings. The larger sizes have malleable iron bodies.

The bodies of all wrenches (except No. 24) have a neat mottle finish.

No.	Hand	Machine Screw	Pipe	Full Length Inches	Price D.P.	Retail Each
00	to $\frac{1}{2}$	0 to 13	.....	5 $\frac{1}{2}$	\$2.77	\$2.00
0	$\frac{1}{4}$ to $\frac{3}{4}$	0 to 18	.....	7 $\frac{1}{2}$	3.33	2.25
4	$\frac{1}{2}$ to $\frac{3}{4}$	0 to 24	.....	9	3.88	2.50
5	$\frac{3}{8}$ to $\frac{1}{2}$	8 to 28	$\frac{1}{4}$ to $\frac{1}{4}$	11 $\frac{1}{2}$	4.44	3.00
6	$\frac{3}{8}$ to $\frac{3}{4}$	8 to 30	$\frac{1}{4}$ to $\frac{3}{4}$	15	5.55	3.50
7	$\frac{3}{8}$ to 1	15 to 30	$\frac{1}{4}$ to $\frac{3}{4}$	19 $\frac{1}{2}$	7.77	5.00
7 $\frac{1}{2}$	$\frac{3}{8}$ to $1\frac{1}{4}$	22 to 30	$\frac{3}{4}$ to 1	31	14.44	9.00
8	$\frac{3}{8}$ to $1\frac{3}{4}$	.....	$\frac{3}{4}$ to $1\frac{3}{4}$	40 $\frac{1}{2}$	17.77	12.00

Adjustable Tap Wrenches



Made of finest steel carefully hardened

No.	Range	Price Each	Price Each
329	0-18 Machine Screw Sizes...	D.P. \$1.11	\$0.75
	0- $\frac{3}{4}$ Fractional Sizes.....		
333	14-30 Machine Screw Sizes...	D.P. \$2.22	\$1.50
	$\frac{1}{8}$ to $\frac{1}{2}$ Fractional Sizes.....		

Nut Wrenches for Bit Brace

No. 602



Mottled Finish

These wrenches are very handy around the shop and may be used in ordinary brace.

No.	Dia. Across Flat Inches	Price		
		D.P.	Retail	
1	$\frac{1}{8}$	\$0.44	\$0.35	Set of 5 Wrenches Nos. 2, 3, 6, 7, 9 Per Set D.P. \$2.22 \$1.50
2	$\frac{3}{8}$	.44	.35
3	$\frac{1}{2}$	.44	.35
4	$\frac{3}{4}$	.55	.40
5	$\frac{7}{8}$	.55	.40
6	$\frac{1}{2}$.55	.40	Complete set 9 Wrenches, Per Set D.P. \$4.00 \$2.75
7	$\frac{1}{2}$	.66	.50
8	1	.66	.50	
9	1 $\frac{1}{2}$	.66	.50

Stocks Fitting Round Adjustable Dies



Number	Dia. of Die Inches	Length Over All, Inches	Price	
			Each	Retail
1852	1	9	D.P. \$1.22	\$0.75
1853	1 $\frac{1}{2}$	14	D.P. 2.11	1.25
1857	2	18	D.P. 2.44	1.50

Single Stocks for Screw Plates



Elastic stock used in Lightning and Green River Screw Plate

Number	Dia. of Die Inches	Length Over All, Inches	Price	
			Each	Retail
1802	2 $\frac{1}{8}$	18	D.P. \$3.77	\$2.25
1803	2 $\frac{1}{4}$	22	D.P. 4.11	2.50



The GIBSON COMPANY INDIANAPOLIS

TAPS AND DRILL AND TAP SETS

Hand Taps (Smaller Than 1/4 Inch)



No. 300

A set consists of three taps, one each, taper, plug and bottoming.

United States Standard form of thread recommended and furnished unless otherwise ordered.

Sizes: 1/8-64, 5/64-64, 3/32-50, 7/64-50, 1/4-40, 9/64-40, 5/32-36, 11/32-36, 3/16-30, 13/64-30, 1/2-28, 15/64-25.

Price, each \$0.20

Each..D.P. \$0.22

Per set50

Per set..D.P. \$0.66

Taper Pipe Taps



No. 320

Taper of taps is 3/4-inch per foot diameter (Briggs standard). All right-hand threads, machine relieved. Sizes given are iron pipe sizes and each size will cut threads for that size pipe.

Size	Price		Size	Price	
	D.P.	Retail		D.P.	Retail
1/4-27	\$0.55	\$0.50	1 - 11 1/2	\$1.66	\$1.50
1/2-18	.66	.60	1 1/2-11 1/2	2.00	1.75
3/8-18	.77	.75	1 3/4-11 1/2	2.77	2.25
1/2-14	1.00	.90	2 - 11 1/2	3.03	2.50
3/4-14	1.33	1.25			

Spark Plug Taps



1/8-18 S. A. E., each.....D.P. \$1.66 Each \$1.00

18 M.M., metric, each.....D.P. 1.33 Each 1.00

1/4-14 pipeD.P. 1.00 Each 1.00

Per set of three.....D.P. 3.33 Per set 2.50

Hand Taps—Machine Relieved

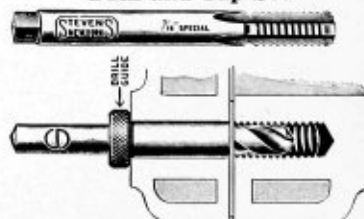


A set consists of one taper, one plug, and bottoming tap.

In ordering state the style of tap desired and whether U. S. S. or S. A. E.

Size S.A.E. Inches	Size U.S.S. Inches	Price per Set		Price Each	
		D.P.	Retail	D.P.	Retail
1/4-28	1/4-20	\$1.33	\$1.00	\$0.44	\$0.36
1/4-24	1/4-18	1.67	1.15	.55	.40
1/2-24	1/2-16	1.88	1.40	.66	.50
1/2-20	1/2-14	2.11	1.75	.77	.60
1/2-20	1/2-12	2.44	1.90	.88	.65
1/2-18	1/2-12	2.55	2.00	1.00	.70
1/2-18	1/2-11	2.88	2.15	1.11	.75
3/4-16	3/4-11	3.33	2.50	1.22	.85
3/4-16	3/4-10	3.66	2.65	1.33	.90
1 - 14	1 - 9	5.00	3.25	1.77	1.10
1 - 14	1 - 8	6.11	4.00	2.11	1.35
1 1/2-12	1 1/2-7	6.88	4.50	2.44	1.65
1 3/4-12	1 3/4-7	8.00	5.00	2.88	1.70
1 3/4-12	1 3/4-6	9.44	6.00	3.33	2.10
1 1/2-12	1 1/2-6	11.11	7.00	3.88	2.40

Drill and Tap Set



No. 1 Drill and Tap Set for Fords

For removing broken cylinder head bolts. The drill and tap set is provided with a guide to insure drilling the proper depth. The handiest set for the repairman for getting the broken end of cylinder bolts out and making a clean thread for a new bolt.

Per set \$1.00

Per set..D.P. \$1.55



DIES AND GUIDES

Round Adjustable Dies

1" Outside Diameter. $\frac{3}{8}$ " Thick

No. 371



Fractional Sizes

U. S. Form thread furnished in both U. S. S. and S. A. E.

U.S.S.	S.A.E.	U.S.S.	S.A.E.
$\frac{1}{8}$ -30	$\frac{1}{8}$ -32	$\frac{3}{8}$ -16	$\frac{3}{8}$ -24
$\frac{1}{4}$ -20	$\frac{1}{4}$ -28	$\frac{1}{2}$ -14	$\frac{1}{2}$ -20
$\frac{3}{8}$ -18	$\frac{3}{8}$ -24	$\frac{5}{8}$ -13	$\frac{5}{8}$ -20

All sizes, each..D.P. \$1.11 Price each..\$0.75

1 1/2" Outside Diameter. 1" Thick

No. 372



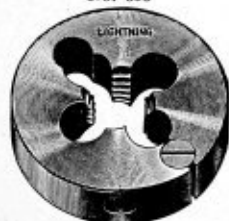
U. S. Form thread furnished in both U. S. S. and S. A. E.

U.S.S.	S.A.E.	U.S.S.	S.A.E.
$\frac{1}{4}$ -20	$\frac{1}{4}$ -28	$\frac{1}{2}$ -13	$\frac{1}{2}$ -20
$\frac{3}{8}$ -18	$\frac{3}{8}$ -24	$\frac{5}{8}$ -12	$\frac{5}{8}$ -18
$\frac{7}{8}$ -16	$\frac{7}{8}$ -24	$\frac{1}{1}$ -12	$\frac{1}{1}$ -18
$\frac{1}{1}$ -14	$\frac{1}{1}$ -20	$\frac{1}{1}$ -11	$\frac{1}{1}$ -18

All sizes, each..D.P. \$1.66 Price each..\$1.00

2" Outside Diameter. $\frac{3}{8}$ " Thick

No. 395



U. S. Form thread furnished in both U. S. S. and S. A. E.

U.S.S.	S.A.E.	U.S.S.	S.A.E.
$\frac{1}{4}$ -20	$\frac{1}{4}$ -28	$\frac{1}{2}$ -14	$\frac{1}{2}$ -20
$\frac{3}{8}$ -18	$\frac{3}{8}$ -24	$\frac{5}{8}$ -13	$\frac{5}{8}$ -20

Above sizes, each..D.P. \$2.00 Price each..\$1.25

U.S.S.	S.A.E.	U.S.S.	S.A.E.
$\frac{1}{8}$ -12	$\frac{1}{8}$ -18	$\frac{3}{8}$ -10	$\frac{3}{8}$ -16
$\frac{1}{4}$ -11	$\frac{1}{4}$ -18		

Above sizes, each..D.P. \$2.77 Price each..\$1.75

Adjustable Dies and Guides

Bolt Sizes



Die and Guide complete



Sectional view showing Hinge Screw at right and Taper Head Screw at left

$\frac{2}{32}$ Diameter United States Form Threads

U. S. Inches	S. A. E. Inches	Price Each	Price Each Retail
$\frac{1}{8}$ -30	$\frac{1}{8}$ -32	D.P. \$3.33	\$2.00
$\frac{1}{4}$ -20	$\frac{1}{4}$ -28	D.P. 3.33	2.00
$\frac{3}{8}$ -18	$\frac{3}{8}$ -24	D.P. 3.33	2.00
$\frac{1}{2}$ -16	$\frac{1}{2}$ -24	D.P. 3.88	2.50
$\frac{3}{4}$ -14	$\frac{3}{4}$ -20	D.P. 3.88	2.50
$\frac{1}{1}$ -13	$\frac{1}{1}$ -20	D.P. 3.88	2.50
$\frac{1}{1}$ -12	$\frac{1}{1}$ -18	D.P. 4.11	2.50
$\frac{1}{1}$ -11	$\frac{1}{1}$ -18	D.P. 4.44	2.75
$\frac{1}{1}$ -11	$\frac{1}{1}$ -16	D.P. 4.77	3.00
$\frac{1}{1}$ -10	$\frac{1}{1}$ -16	D.P. 5.00	3.00
$\frac{1}{1}$ -10		D.P. 5.55	3.50
$\frac{1}{1}$ -9	$\frac{1}{1}$ -14	D.P. 6.11	3.75
$\frac{1}{1}$ -9		D.P. 6.66	4.00
1 - 8	1 - 14	D.P. 7.22	4.50

Solid Hexagon Dies

No. 377



These dies are used principally for repair work, and for dressing over bruised or rusty threads, and will go into any space that hexagon nuts will go into.

They can be used in bit-brace sockets, ratchet or monkey-wrenches, and will be found convenient in many ways.

They are accurate, durable, and will give satisfactory service.

United States standard threads recommended and furnished unless otherwise ordered.

Size S. A. E. Inches	Size U. S. S. Inches	Size of Die		Price Each	Price Each
		Across Flats Inches	Thickness Inches		
$\frac{1}{4}$ -28	$\frac{1}{4}$ -20	$\frac{1}{8}$	$\frac{1}{8}$	D.P. \$0.66	\$0.50
$\frac{3}{8}$ -24	$\frac{3}{8}$ -18	$\frac{1}{8}$	$\frac{1}{8}$	D.P. .88	.60
$\frac{1}{2}$ -20	$\frac{1}{2}$ -16	$\frac{1}{8}$	$\frac{1}{8}$	D.P. 1.11	.75
$\frac{3}{4}$ -18	$\frac{3}{4}$ -14	$\frac{1}{8}$	$\frac{1}{8}$	D.P. 1.33	.85
$\frac{1}{1}$ -16	$\frac{1}{1}$ -13	$\frac{1}{8}$	$\frac{1}{8}$	D.P. 1.55	1.00
$\frac{1}{1}$ -18	$\frac{1}{1}$ -12	$\frac{1}{8}$	$\frac{1}{8}$	D.P. 1.77	1.15
$\frac{1}{1}$ -18	$\frac{1}{1}$ -11	$\frac{1}{8}$	$\frac{1}{8}$	D.P. 2.00	1.25
$\frac{1}{1}$ -16	$\frac{1}{1}$ -11	$\frac{1}{8}$	$\frac{1}{8}$	D.P. 2.11	1.35
$\frac{1}{1}$ -16	$\frac{1}{1}$ -10	$\frac{1}{8}$	$\frac{1}{8}$	D.P. 2.22	1.50
$\frac{1}{1}$ -14	$\frac{1}{1}$ -9	$\frac{1}{8}$	$\frac{1}{8}$	D.P. 2.33	1.75
1 - 14	1 - 8	$\frac{1}{8}$	1	D.P. 2.66	2.00



The GIBSON COMPANY INDIANAPOLIS

REAMERS

Spiral Fluted Taper-Pin Reamers



No. 404

Size No.	Diam. at Small End Inches	Length of Flute Inches	Total Length Inches	Price Each D.P.	Price Each Retail
0	0.135	1 1/8	2 1/2	\$1.34	\$1.00
1	0.146	1 1/4	2 3/4	1.34	1.00
2	0.162	1 1/2	3 1/2	1.67	1.25
3	0.183	2 1/8	3 3/8	2.00	1.50
4	0.208	2 3/8	3 3/4	2.33	1.75
5	0.240	2 7/8	4 1/4	2.67	2.00
6	0.279	3 1/8	5 1/8	3.00	2.25
7	0.331	4 1/4	6 1/4	3.33	2.50
8	0.398	5 1/4	7 1/4	4.00	3.00
9	0.482	6 1/8	8 3/4	4.67	3.50
10	0.581	7	9 1/2	5.33	4.00

Diameter is taken at small end.

Each reamer made to overlap about 1/2 inch the size smaller. Special or larger sizes made to order.

Patent Spiral Fluted Taper Reamers



Taper 1/4" to foot. No. 440

These reamers will be furnished in 1/4-inch taper on special order.

Spiral flutes insure smooth, even cuts and prevent the reamer drawing in to the work.

All are accurately ground and true to size. Sizes given are for the size of finished hole.

Size Inches	Full Length Inches	Length of Flute Inches	Price	
			D.P.	Each Retail
1/4	4 1/4	2 1/2	\$1.33	\$0.80
3/8	4 1/2	2 3/8	1.44	.85
1/2	4 3/4	2 3/4	1.55	.95
5/8	5	2 3/4	1.77	1.10
3/4	5 1/4	3 1/8	2.11	1.25
7/8	5 1/2	3 1/4	2.43	1.40
1	5 3/4	3 1/4	2.66	1.60
1 1/4	6	3 3/8	3.11	1.85
1 1/2	6 1/4	3 1/2	3.55	2.10
1 3/4	6 1/2	3 3/8	4.11	2.45
1 7/8	6 3/4	3 1/2	4.66	2.80
2	7	3 3/8	5.33	3.15
2 1/4	7 1/4	4	5.77	3.50

Taper Pipe Reamer



No. 480

Taper is 1/4-inch per foot and is the same taper as our standard taper pipe taps.

Sizes given are for same size iron pipe.

Pipe Size Inches	Price		Pipe Size Inches	Price	
	D.P.	Retail		D.P.	Retail
1/8	\$0.55	\$0.50	1	\$1.66	\$1.50
1/4	.65	.60	1 1/4	2.00	1.75
3/8	.77	.75	1 1/2	2.77	2.25
1/2	1.00	.90	2	3.33	2.80
3/4	1.33	1.25			

Spiral Fluted Taper-Pin Reamers

In Sets. Taper. 1/4" Per Foot



Set for Automobile Kits in Handsome Leather Case

These reamers are very useful for quick repair work and breakdowns on the road. Jammed and worn pin holes can be reamed smooth or to take next size larger pin.

In handsome and substantial leather case, size closed 5 inches by 2 inches; weight 4 ounces.

Set No. 1423 Six sizes Spiral Fluted Taper-Pin Reamers, Nos. 0, 1, 2, 3, 4 and 5, price complete, in genuine leather case.....\$7.00
Each..D.P. \$10.00



No. 1420 Taper-Pin Reamer Set, same as No. 1423, only put up in wooden case, each.....\$7.00
Each..D.P. \$10.00



1421 11 Sizes, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, in hard-wood case, each.....\$18.00
Each..D.P. \$28.88



REAMERS

Solid Spiral Fluted Reamers



No. 400

Size Inches	Total Length Inches	Length of Flute Inches	Price Each	Price Each Retail
1/4	3	1 1/2	D.P. \$1.66	\$1.00
3/8	3 1/2	1 5/8	D.P. 1.88	1.10
1/2	3 3/4	1 3/4	D.P. 2.00	1.20
5/8	3 3/4	1 7/8	D.P. 2.22	1.30
3/4	4	2	D.P. 2.33	1.40
7/8	4 1/4	2 1/8	D.P. 2.44	1.45
1	4 1/2	2 1/4	D.P. 2.55	1.50
1 1/8	4 1/2	2 1/8	D.P. 2.55	1.55
1 1/4	5	2 3/8	D.P. 2.66	1.60
1 1/2	5 1/2	2 3/4	D.P. 2.66	1.65
1 3/4	5 1/2	2 3/4	D.P. 2.88	1.75
2	5 3/4	2 3/4	D.P. 3.11	1.85
2 1/4	6	3	D.P. 3.22	1.90
2 1/2	6 1/4	3 1/8	D.P. 3.22	1.95
2 3/4	6 1/2	3 1/4	D.P. 3.33	2.00
3	6 3/4	3 1/2	D.P. 3.55	2.10
3 1/4	7	3 1/2	D.P. 3.66	2.20
3 1/2	7 1/4	3 3/4	D.P. 3.77	2.30
3 3/4	7 1/2	3 3/4	D.P. 4.00	2.40
4	8	4 1/4	D.P. 4.11	2.50
4 1/4	8 1/8	4 1/4	D.P. 4.33	2.50
4 1/2	8 1/4	4 1/2	D.P. 4.44	2.70
4 3/4	9	4 3/4	D.P. 4.66	2.80
5	9 1/4	4 3/4	D.P. 4.88	2.95
5 1/4	9 1/2	4 3/4	D.P. 5.11	3.10
5 1/2	10 1/4	5	D.P. 5.33	3.25
5 3/4	10 1/2	5 1/8	D.P. 5.55	3.40
6	10 3/4	5 1/4	D.P. 6.00	3.55
6 1/4	10 3/4	5 1/4	D.P. 6.22	3.70
6 1/2	11 1/4	5 3/8	D.P. 6.44	3.85
6 3/4	11 1/2	5 3/8	D.P. 6.66	4.00
7	11 3/4	5 3/8	D.P. 6.88	4.15
7 1/4	11 3/4	5 3/8	D.P. 7.11	4.30
7 1/2	12	5 3/4	D.P. 7.33	4.45
7 3/4	12 1/4	5 3/4	D.P. 7.77	4.60
8	12 1/4	6	D.P. 8.00	4.75
8 1/4	12 1/2	6 1/8	D.P. 8.22	4.90
8 1/2	12 1/2	6 1/4	D.P. 8.44	5.05
8 3/4	12 3/4	6 1/4	D.P. 8.66	5.20
9	12 3/4	6 1/2	D.P. 8.88	5.40
9 1/4	12 3/4	6 1/2	D.P. 9.33	5.60
9 1/2	12 3/4	6 1/2	D.P. 9.66	5.80
9 3/4	12 3/4	6 1/2	D.P. 10.00	6.00
10	13	6 1/2	D.P. 10.33	6.20
10 1/4	13 1/4	6 1/2	D.P. 10.66	6.40
10 1/2	13 1/4	6 1/2	D.P. 11.11	6.60
10 3/4	13 1/4	6 1/2	D.P. 11.33	6.80
11	13 1/2	6 1/2	D.P. 11.66	7.00

Expansion Reamers No. 125 Expansion Reamer



(Eccentric Flutes)

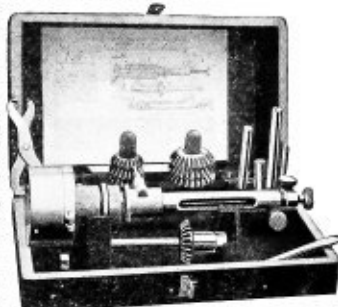
Diam. Inches	Length of Flute Inches	Length Over All Inches	Each D.P.	Diam. Inches	Length of Flute Inches	Length Over All Inches	Each D.P.
1/4	2	3 1/4	4.44	3/8	4 1/2	8 1/2	\$9.64
3/8	2 1/4	3 3/4	4.53	1	4 3/4	8 3/4	10.00
1/2	2 1/2	4	4.60	1 1/8	5	8 3/4	10.37
5/8	2 3/4	4 1/4	4.67	1 1/4	5 1/8	9	10.75
3/4	2 3/4	4 1/4	4.75	1 1/2	5 1/4	9 1/8	11.10
7/8	2 3/4	4 3/4	4.82	1 3/8	5 1/2	9 1/8	11.48
1	2 3/4	4 3/4	4.89	1 3/4	5 3/8	9 1/8	11.86
1 1/8	2 3/4	4 3/4	4.95	1 3/4	5 3/8	9 1/8	12.30
1 1/4	2 3/4	4 3/4	5.04	1 3/8	5 3/4	9 1/8	12.75
1 1/2	2 3/4	5	5.20	1 3/4	5 3/4	9 1/8	13.19
1 3/4	2 3/4	5 1/8	5.42	1 3/4	5 3/4	10	13.61
2	2 3/4	5 1/4	5.64	1 3/4	5 3/4	10 1/8	14.06
2 1/4	2 3/4	5 1/2	5.93	1 3/8	5 3/4	10 1/8	14.81
2 1/2	2 3/4	5 3/4	6.22	1 3/8	5 3/4	10 1/8	15.54
2 3/4	2 3/4	6 1/4	6.53	1 3/4	5 3/4	10 1/8	16.30
3	2 3/4	6 1/2	6.82	1 3/4	5 3/4	10 1/8	17.03
3 1/4	2 3/4	6 3/4	7.11	1 3/8	6	10 1/8	17.76
3 1/2	2 3/4	6 3/4	7.42	1 3/8	6	10 1/8	18.52
3 3/4	2 3/4	6 3/4	7.73	1 3/8	6 1/4	11 1/8	19.25
4	2 3/4	7 1/4	8.15	1 3/8	6 1/4	11 1/8	19.98
4 1/4	2 3/4	7 1/2	8.57	1 3/8	6 1/4	11 1/8	20.74
4 1/2	2 3/4	7 1/2	8.88	1 3/4	6 1/2	11 1/2	21.47
4 3/4	2 3/4	8 1/4	9.26				

The Crone Valve Reamer Set

A complete set of valve seat reamers, pilots, valve stem refacing tools, etc., of strictly first quality, contained in a substantial hardwood box. Will meet the requirements of the garage, giving service to various makes of cars. There are many low-priced sets on the market, but in valve tools only the best material and workmanship will meet the hard service required, so we have selected this set from among many for quality alone.

Only the best material used and great care used in making and testing to insure accuracy, does the work quickly and accurately, perfect valve seats insured in a few minutes.

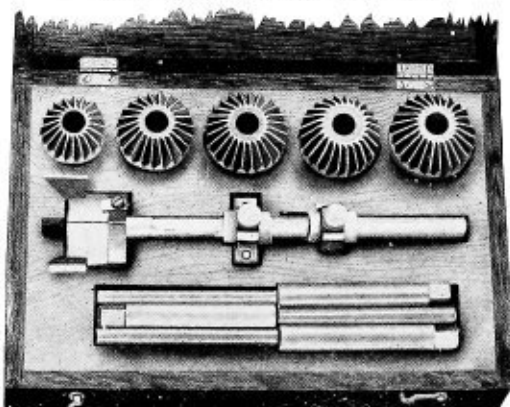
Price Complete, D.P. \$30.00



Extra Parts Furnished

Item	D.P.	Retail	Item	D.P.	Retail
Valve Dresser Head (complete)	\$26.00	\$16.00	1 1/2-inch Reseater	\$2.33	\$1.40
Oak Case	2.22	1.35	1 1/4-inch Reseater	2.44	1.50
Spanner Wrench	.24	.15	2-inch Reseater	2.77	1.70
Brace Bit	.24	.15	2 1/2-inch Reseater	3.00	1.80
Follower	.40	.25	2 1/2-inch Reseater	3.11	1.90
Carrier	2.11	1.25	5/16, 3/8, 7/16, 1/2 Pilot, each	.73	.45
1 1/2-inch Reseater	2.22	1.30			

Sioux Standard Valve Tools



Set is packed in a substantial hardwood case.

Price Set, D.P. \$26.00

Noonan Valve Seating Tool

Noonan's Valve Seating Tools are made from the finest grade of high speed steel and are guaranteed for one year from defects in material and workmanship.

Noonan Valve Seating Tools for all other cars, guide and handle (without cutter), each D.P. \$1.67

Cutters as follows:

Inches	Each D.P.	Retail
1 1/2	Each D.P. \$2.78	
1 1/4	Each D.P. 2.89	
1 1/2	Each D.P. 3.00	
1 1/4	Each D.P. 3.10	
1 1/2	Each D.P. 3.22	
1 1/4	Each D.P. 3.33	
1 1/2	Each D.P. 3.44	
1 1/4	Each D.P. 3.55	
2	Each D.P. 3.66	
2 1/4	Each D.P. 3.77	
2 1/2	Each D.P. 3.88	
2 3/4	Each D.P. 4.00	
2 1/2	Each D.P. 4.10	
2 3/4	Each D.P. 4.22	
2 1/2	Each D.P. 4.33	
2 3/4	Each D.P. 4.44	
2 1/2	Each D.P. 4.55	





The GIBSON COMPANY INDIANAPOLIS

DRILLS AND DRILL SET

Stubs Steel Wire Gauge Drills



With Straight Shanks
List No. 98

With Grooved Shanks
List No. 99 (1 to 42 only)

Wire Gauge No.	Diameter Inches	Length Over All Inches	Price Per Dozen
1	.2280	4	D.P. \$2.35
2	.2210	3 1/8	D.P. 2.35
3	.2130	3 1/8	D.P. 2.35
4	.2090	3 1/8	D.P. 2.35
5	.2055	3 1/8	D.P. 2.35
6	.2040	3 1/8	D.P. 2.25
7	.2010	3 1/8	D.P. 2.25
8	.1990	3 1/8	D.P. 2.25
9	.1960	3 1/8	D.P. 2.25
10	.1935	3 1/8	D.P. 2.25
11	.1910	3 1/8	D.P. 2.10
12	.1890	3 1/8	D.P. 2.10
13	.1850	3 1/8	D.P. 2.10
14	.1820	3 1/8	D.P. 2.10
15	.1800	3 1/8	D.P. 2.10
16	.1770	3 1/8	D.P. 1.95
17	.1730	3 1/8	D.P. 1.95
18	.1695	3 1/8	D.P. 1.95
19	.1660	3 1/8	D.P. 1.95
20	.1610	3 1/8	D.P. 1.95
21	.1590	3 1/8	D.P. 1.75
22	.1570	3 1/8	D.P. 1.75
23	.1540	3 1/8	D.P. 1.75
24	.1520	3 1/8	D.P. 1.75
25	.1495	3	D.P. 1.75
26	.1470	2 3/8	D.P. 1.55
27	.1440	2 3/8	D.P. 1.55
28	.1405	2 3/8	D.P. 1.55
29	.1360	2 3/8	D.P. 1.55
30	.1285	2 3/8	D.P. 1.55
31	.1200	2 3/8	D.P. 1.40
32	.1160	2 3/8	D.P. 1.40
33	.1130	2 3/8	D.P. 1.40
34	.1110	2 3/8	D.P. 1.40
35	.1100	2 3/8	D.P. 1.40
36	.1065	2 3/8	D.P. 1.25
37	.1040	2 3/8	D.P. 1.25
38	.1015	2 3/8	D.P. 1.25
39	.0995	2 3/8	D.P. 1.25
40	.0980	2 3/8	D.P. 1.25
41	.0960	2 3/8	D.P. 1.10
42	.0935	2 3/8	D.P. 1.10
43	.0890	2 3/8	D.P. 1.10
44	.0860	2 3/8	D.P. 1.10
45	.0820	2 3/8	D.P. 1.10
46	.0810	2 3/8	D.P. .95
47	.0785	2 3/8	D.P. .95
48	.0760	2 3/8	D.P. .95
49	.0730	2	D.P. .95
50	.0700	1 3/8	D.P. .95
51	.0670	1 3/8	D.P. .95
52	.0635	1 3/8	D.P. .95
53	.0595	1 3/8	D.P. .95
54	.0550	1 3/8	D.P. .95
55	.0520	1 3/8	D.P. .95
56	.0465	1 3/8	D.P. .95
57	.0430	1 3/8	D.P. .95
58	.0420	1 3/8	D.P. .95
59	.0410	1 3/8	D.P. .95
60	.0400	1 3/8	D.P. .95

Straight Shank Twist Drill



Short Set
List No. 94

Diameter Inches	Length Over All Inches	Carbon Steel Price Per Doz.
1/16	2 1/2	D.P. \$1.00
5/64	2 3/8	D.P. 1.10
3/32	2 1/2	D.P. 1.20
7/64	2 3/8	D.P. 1.30
1/8	3	D.P. 1.45
9/64	3 1/8	D.P. 1.60
5/32	3 1/8	D.P. 1.80
11/64	3 3/8	D.P. 2.00
3/16	3 3/8	D.P. 2.20
13/64	3 3/8	D.P. 2.40
7/32	3 3/8	D.P. 2.65
15/64	3 3/8	D.P. 2.90
1/4	4	D.P. 3.15
17/64	4 1/8	D.P. 3.40
9/32	4 1/8	D.P. 3.65
19/64	4 1/8	D.P. 3.90
5/16	4 1/8	D.P. 4.20
21/64	4 1/8	D.P. 4.50
11/32	4 1/8	D.P. 4.80
23/64	4 1/8	D.P. 5.10
3/8	5	D.P. 5.40
25/64	5 1/8	D.P. 5.70
13/32	5 1/8	D.P. 6.00
27/64	5 1/8	D.P. 6.40
7/16	5 1/8	D.P. 6.80
29/64	5 1/8	D.P. 7.20
15/32	5 1/8	D.P. 7.50
31/64	5 1/8	D.P. 7.75
1/2	6	D.P. 8.00

Drill Set



List No. 5

Here's a mighty attractive, practical Drill Stand, designed in the form of our trade-mark. It contains a full set of Jobber's Straight Shank Drills, from 1/8 in. to 1/2 in. in "sixty-fourths." The stand is divided so that the thirty-second size drills occupy one-half, and the sixty-fourth sizes the opposite half. Each drill is placed in a hole properly marked, facilitating quick and proper selection.

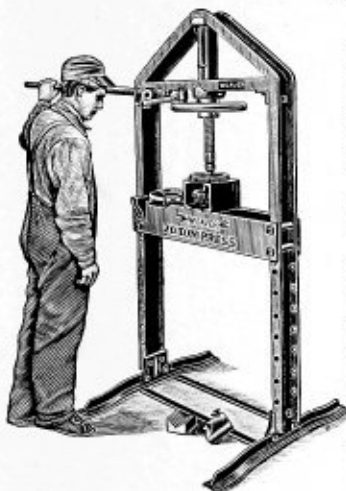
Prices

Stand and Drills, complete.....D.P. \$13.66
Stands only.....D.P. \$2.77



GARAGE PRESSES

Weaver Garage Press

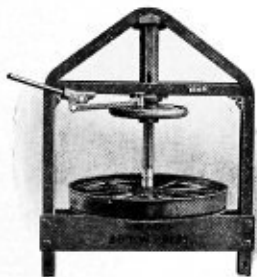


For many years the garage and repairman have been seeking a press which could be used in various ways for handling certain work that has involved much labor and difficulty.

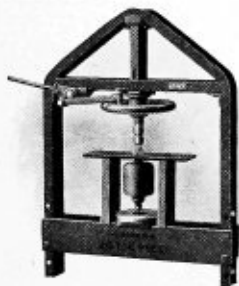
The Weaver Garage Press is the solution of these troubles. It is an asset to any repair shop. It would mean much to every garage to have one of these presses as a part of its equipment. It places them in position to handle work of the

heaviest nature and in a truly mechanical manner.

It will save hours every day replacing a sledge hammer and block. It will gain a garage prestige as the work performed is more scientific and satisfactory than can be performed in an old and antiquated manner.



The unusual width of this Press enables it to accept the largest automobile wheels intact for pressing out bearings, bands, etc.



Delicate operations can be performed with absolute safety. The above suggests the manner of securing a snug support for delicate parts under pressure.

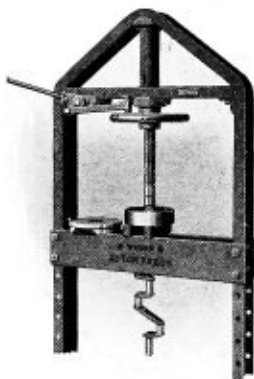
Construction and Operation

The wide bearing is a great advantage in straightening shafts, axles, etc.

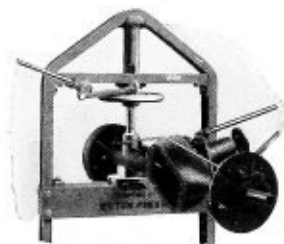
The frame is of one piece of heavy channel steel; the hand wheel is 15 inches in diameter, and the weight of wheel and screw is carried upon ball bearings. The hand lever has a leverage of over 1,500 to 1. The thrust of the screw is directed against heavy bronze thrust bearings. The screw is 2 inches in diameter, with 3-pitch Acme thread and has a range of movement of 12 inches. The screw does not revolve.



The bolster which carries the plate can be set at any desired height with extreme adjustment of 48 inches. The width between frame uprights is 32 inches. Floor space, 36x36 inches; weight, 425 pounds.



Crank shafts and similar bulky pieces can be very easily handled by reason of the divided bolster, as illustrated above.



The vise block attachment provides a means of holding ponderous awkward work in convenient position for working. Will also hold work against a twisting strain, etc.

EachD.P. \$106.60



TOOL KITS

Forty-Piece Mechanician Kit

A most complete assortment of highest quality tools, every one practical and indispensable, everything necessary for making all repairs on the road or in the garage.

Consists of the Following Tools:

- No. 23 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 25 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 27 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 29 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 31 Semi-finished 15-degree Angle Drop Forged Wrench.
- 10-inch Wood Handle Pipe Wrench.
- 9-inch Ebony Automobile Monkey Wrench.
- 5-inch Nickel Plated Bicycle Wrench.
- 3/8-inch Spark Plug Socket Wrench, japanned.
- 6-inch Nickel Plated Adjustable Combination Pliers.
- 3-inch Electrician's Round Shank Screw Driver.

5-inch Electrician's Square Shank Screw Driver.

9-inch Machinist's All-steel Screw Driver.

8-inch Square File with Handle.

3/8-inch Solid Punch, half-polished, 1/4-inch point.

5/16-inch Solid Punch, half-polished, 3/32-inch point.

3/8-inch Drift Punch, half-polished, 1/8-inch point.

3/8-inch Center Punch, half-polished.

1/2-inch Cape Chisel, half-polished.

3/8-inch Cotter Pin Extractor, full-polished.

No. 1 Machinist's Bearing Scraper.

10-ounce Machinist's Ball Pein Hammer.

6-inch Side-cutting Pliers.

5-inch Offset Drop Forged Screw Driver.

3 Sheets Emery Cloth. 8-inch Round File with handle.

Soldering Iron with handle. Box Solder Paste.

Bundle 15 Copper Wire. Bundle 20 Copper Wire.

8-inch Hack Saw and Frame.

4-inch Flat File with handle.

1/2-inch Cold Chisel, half-polished.

3/8-inch Cold Chisel, half-polished. Bundle Wire Solder.

Soldering Torch. Spark Plug Brush.

8-inch Flat File with handle. Box Assorted Cotter Pins.

2 1/2-inch Carriagemaker's Clamp.

40-piece Mechanician's Tool Kit, high grade tools in water-proof case, each.....\$15.00

Each...D.P. \$24.00

Thirty-four-Piece Chauffeur Kit

Designed to meet the demand for a medium-priced outfit. A choice assortment of practical tools, high grade and warranted perfect in quality and design. At the price this kit can not be excelled.

Consists of the Following Tools:

No. 23 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 25 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 27 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 29 Semi-finished 15-degree Angle Drop Forged Wrench.

10-inch Wood Handle Pipe Wrench.

9-inch Ebony Automobile Monkey Wrench.

5-inch Nickel Plated Bicycle Wrench.

6-inch Adjustable Combination Pliers, Ebony.

3-inch Electrician's Round Shank Screw Driver.

5-inch Electrician's Square Shank Screw Driver.

5-inch Offset Drop Forged Screw Driver.

9-inch Machinist's All-steel Screw Driver.

5/16-inch Solid Punch, half-polished, 1/4-inch point.

3/8-inch Solid Punch, half-polished, 3/32-inch point.

3/8-inch Drift Punch, half-polished, 1/8-inch point.

3/8-inch Center Punch, half-polished.

3/8-inch Cotter Pin Extractor, full-polished.

No. 1 Machinist's Bearing Scraper.

10-ounce Machinist's Ball Pein Hammer.

6-inch Side-cutting Pliers. Soldering Copper with handle.

4-inch Flat File with handle. Bundle Wire Solder.

8-inch Flat File with handle. Bundle 15 Copper Wire.

7-inch Round File with handle. Bundle 20 Copper Wire.

8-inch Square File with handle. Box Assorted Cotter Pins.

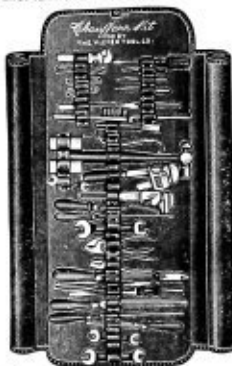
1/2-inch Cape Chisel, half-polished. Box Solder Paste.

3/8-inch Cold Chisel, half-polished. Spark Plug Brush.

3/8-inch Cold Chisel, half-polished.

34-piece Chauffeur Tool Kit, high grade tools in water-proof case, each.....\$12.00

Each...D.P. \$19.00



Thirty-Piece Motorist Kit

An excellent Kit, containing all tools necessary for making ordinary repairs. All tools of the highest grade and fully warranted. Case is heavy water-proof canvas with harness leather retaining straps. We recommend this kit to the automobile owners.

Consists of the Following Tools:

No. 23 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 25 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 27 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 31 Semi-finished 15-degree Angle Drop Forged Wrench.

10-inch Wood Handle Pipe Wrench.

9-inch Ebony Automobile Monkey Wrench.

Double Jaw "Ready Grip" Wrench, polished.

3-inch Electrician's Round Shank Screw Driver.

5-inch Electrician's Round Shank Screw Driver.

9-inch Machinist's All-steel Screw Driver.

5-inch Offset Drop Forged Screw Driver.

6-inch Ebony Adjustable Combination Pliers.

3/8-inch Solid Punch, half-polished, 1/4-inch point.

3/8-inch Center Punch, half-polished.

3/8-inch Cold Chisel, half-polished.

1/2-inch Cold Chisel, half-polished.

1/2-inch Cape Chisel, half-polished.

5/16-inch Cotter Pin Extractor.

No. 1 Machinist's Bearing Scraper.

10-ounce Machinist's Ball Pein Hammer.

File Handle.

8-inch Flat File.

6-inch Side-cutting Pliers.

Spark Plug Socket Wrench.

Box Assorted Cotter Pins.

8-inch Round File.

6-inch Three Corner File.

5-inch Black Bicycle Wrench.

Bundle 15 Copper Wire.

Bundle 20 Copper Wire.

30-piece Motorist Tool Kit, high grade tools in water-proof case, each.....\$9.00

Each...D.P. \$14.44

Twenty-Piece Commercial Kit

Made up of tools particularly adapted to use on a truck. All large, heavy tools selected for strength and extra quality. This set is used extensively by shop men in all vocations.

Consists of the Following Tools:

No. 23 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 27 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 31 Semi-finished 15-degree Angle Drop Forged Wrench.

No. 34 Semi-finished 15-degree Angle Drop Forged Wrench.

10-inch Wood Handle Pipe Wrench.

11-inch Mottled Automobile Monkey Wrench, with tire iron handle.

3-inch Electrician's Round Shank Screw Driver.

6-inch Electrician's Square Shank Screw Driver.

6-inch Offset Drop Forged Screw Driver.

9-inch Machinist's All-steel Screw Driver.

7-inch Flat File.

7-inch Round File.

File Handle.

8-inch Mottled Adjustable Combination Pliers.

3/8-inch Solid Punch, half-polished, 1/4-inch point.

3/8-inch Cold Chisel, natural finish.

1/2-inch Cape Chisel, natural finish.

3/8-inch Cotter Pin Extractor, black.

1-pound Machinist's Ball Pein Hammer.

Box Assorted Cotter Pins.

20-piece Commercial Tool Kit, high grade tools in case, each.....\$8.00

Each...D.P. \$12.77





TOOL KITS—Continued

Thirty-Piece Garage Kit

A Mechanic's Kit—containing an assortment of necessary tools for general repair work.

The case is of heavy brown duck and has adjustable webbing retainers in straps.

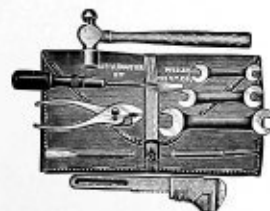
Consists of the Following Tools:

- No. 25 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 725 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 27 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 731A Semi-finished 15-degree Angle Drop Forged Wrench.
- 9-inch Ebony Auto Wrench.
- 5-inch Nickel Plated Bicycle Wrench.
- 3/8-inch Spark Plug Wrench.
- 4-inch Nickel Plated Pliers.
- 6-inch Ebony Adjustable Combination Pliers.
- 5-inch Square Shank Screw Driver.
- 6-inch Flat File.
- 8-inch Round File.
- 8-inch Half Round File.

- 3/8-inch Center Punch, half-polished.
- 5/16-inch Solid Punch, 3/32-inch point, half-polished.
- 3/8-inch Solid Punch, 1/2-inch point, half-polished.
- 3/8-inch Drift Punch, 3/8-inch point, half-polished.
- 3/8-inch Cold Chisel, half-polished.
- 7/16-inch Cold Chisel, half-polished.
- 3/8-inch Cape Chisel, half-polished.
- 3/8-inch Cape Chisel, half-polished.
- 5/16-inch Black Cotter Pin Extractor.
- 5-inch Offset Screw Driver.
- Sheet Emery Cloth.
- Bundle No. 15 Copper Wire.
- No. 1 Bearing Scraper.
- 10-ounce Machinist's Ball Pein Hammer.
- Spark Plug Brush.

30-Piece Garage Tool Kit, high grade tools in case, each...\$8.50
Each...D.P. \$13.85

Nine-Piece Little Roadster Kit



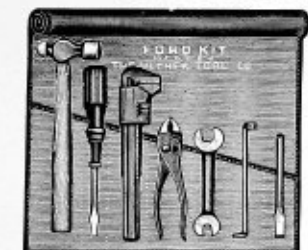
We maintain the same high quality of tools in this kit as in those preceding.

Consists of the Following Tools:

- No. 23 Unfinished 15-degree Angle Drop Forged Wrench.
- No. 25 Unfinished 15-degree Angle Drop Forged Wrench.
- No. 29 Unfinished 15-degree Angle Drop Forged Wrench.
- 9-inch Black Automobile Wrench.
- 4-inch Electrician's Round Shank Screw Driver.
- 3/8-inch Solid Punch, half-polished, 3/8-inch point.
- 3/8-inch Cold Chisel, natural finish.
- 6-inch Black Adjustable Combination Pliers.
- 8-ounce Machinist's Ball Pein Hammer.

9-Piece Little Roadster Tool Kit, each...\$2.50
Each...D.P. \$4.11

Seven-Piece Ford Tool Kit



This set contains all of the tools originally sent out with a Ford car and some additional tools that are very convenient to have.

Consists of the Following Tools:

- No. 27 Semi-finished 15-degree Angle Drop Forged Wrench.
- 9-inch Black Automobile Wrench.
- 3-inch Electrician's Round Shank Screw Driver.
- 6-inch Black Adjustable Combination Pliers.
- 3/8-inch Cold Chisel, natural finish.
- 5-inch Offset Screw Driver.
- 8-ounce Ball Pein Hammer.

7-Piece Ford Tool Kit, each...\$2.00
Each...D.P. \$3.32

Twenty-Piece Tourist Kit

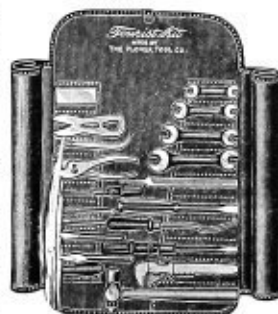
This assortment is used by the majority of the medium priced car manufacturers and contains an assortment that appeals to the prospective buyer who will do most of his own repair work.

All high grade tools.

Consists of the Following Tools:

- No. 23 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 25 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 27 Semi-finished 15-degree Angle Drop Forged Wrench.
- No. 29 Semi-finished 15-degree Angle Drop Forged Wrench.
- Single Jaw Wrench, half-polished.
- 9-inch Ebony Automobile Wrench.
- 3-inch Electrician's Round Shank Screw Driver.
- 5-inch Electrician's Square Shank Screw Driver.
- 9-inch Machinist's All-steel Screw Driver.
- 7-inch Flat File.
- 6-inch Ebony Adjustable Combination Pliers.
- 3/8-inch Solid Punch, half-polished, 3/8-inch point.
- 3/8-inch Center Punch, half-polished.
- 3/8-inch Cold Chisel, half-polished.
- 3/8-inch Cape Chisel, half-polished.
- 5/16-inch Cotter Pin Extractor, Black.
- 10-ounce Machinist's Ball Pein Hammer.
- No. 1 Machinist's Bearing Scraper.
- Box Assorted Cotter Pins.
- File Handle.

20-Piece Tourist Tool Kit, high grade tools in case, each...\$6.00
Each...D.P. \$10.00



Handy Kit



All tools in this kit are correctly finished and are fully warranted.

Contents—1 Victor Universal Combination Pliers, 1 Victor Adjustable Alligator Wrench, 1 Diamond Point Chisel, 2 Cold Chisels, 2 Cape Chisels, 1 Oval Face Chisel, 2 Center Punches, 2 Solid Punches, 1 Cotter Pin Extractor, 1 Three-Square Scraper.

Handy Tool Kit, each...\$4.00
Each...D.P. \$6.66

Kit No. 77

All tools in this kit have a beautiful blue finish and are warranted in every respect.

Contents

- 1 Three-Square Scraper.
- 1 Cotter Pin Extractor.
- 1 Diamond Point Chisel.
- 1 Cape Chisel.
- 1 Oval Face Chisel.
- 2 Solid Round Punches.
- 2 Cold Chisels.
- 1 Center Punch.

No. 77 Tool Kit, each...\$2.00
Each...D.P. \$3.33





The GIBSON COMPANY INDIANAPOLIS

AIR COMPRESSORS FOR GARAGE SERVICE

The Model Garage, irrespective of size, finds many applications for compressed air, from both a standpoint of economy and greater convenience, as well as forming one of the necessities which either recommend or disapprove of the garage to the automobile owner. Among the numerous applications may be mentioned the following: Inflating tires; cleaning tops and bodies; operating small pneumatic tools, such as air hoists, riveting and chipping hammers, drills, etc.

In this "day of service," nothing is so important as the dispensing of "FREE AIR." It brings trade to your front door, and will return your initial investment in a short time.

We have sold Compressor equipment for hundreds of garages, and in offering the Ingersoll-Rand line, believe we have found the best manufactured for the purpose. They are built along the most up-to-date engineering lines, by the oldest Compressor manufacturer in America, a concern that has built compressors with capacities as high as 1,000,000 cubic feet per hour and for every conceivable service. We have had experience with numerous other compressors, and investigated all other makes before adopting this line, and offer it to our trade as the most efficient and economical manufactured.

If you desire motor-driven equipment, write our Engineering Department, giving us the size of your place, the number of cars you handle and the nature of power used, whether electric or belt drive. If electric, specify whether Alternating or Direct Current. If Alternating, give the voltage, number of phases, number of cycles (frequency), and if Direct Current, voltage only. We will be glad to prepare an estimate of cost and installation.

We have an equipment for every size garage, belt or motor driven, water or air cooled, stationary or portable.

The illustrations show the IMPERIAL TYPE XII Compressor in section. The general sturdiness of the design is seen at a glance; they are durably constructed, self-oiling and wholly enclosed. The method of lubrication is plentiful and thorough. All bearings are adjustable. Capacities range from 3 to 100 cubic feet per minute.

Unlike the majority of compressors offered for this service, the "Imperial" is built with a view to economical operation.

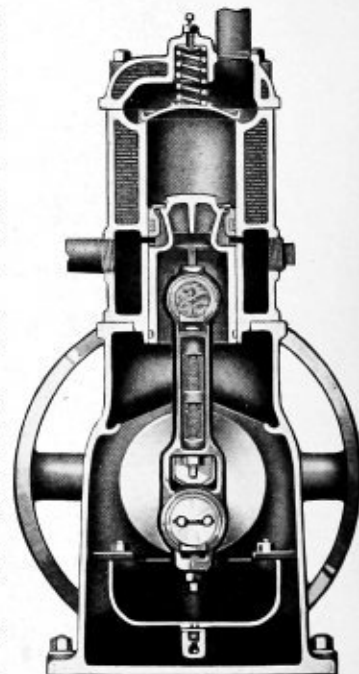
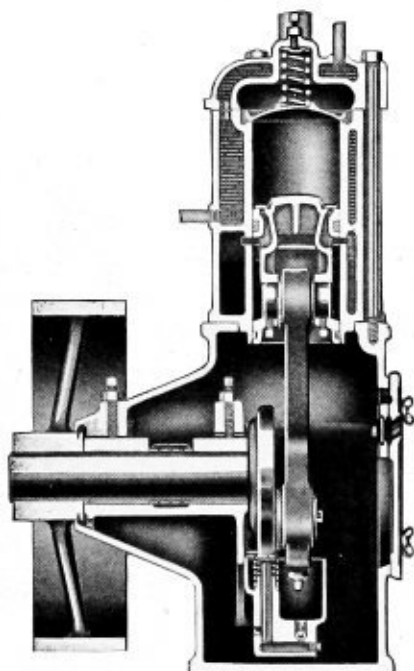
The suction stroke completely fills the cylinder without waste of power (note the very large valve in the piston head). On the discharge stroke every ounce of air is instantly expelled, as the discharge valve has the same diameter as the cylinder, and is not (like most other compressors) fitted with small poppet valves which restrict the passage of air, set up friction, create losses and consume power.

Air Receiver Storage Tanks and Compressor Fittings

The installation of your Compressor plant is incomplete unless you have a satisfactory receiver or storage tank. This is essential, as it cuts down your power expense and gives you a ready supply at instant command. Best results are obtained when large capacity receivers are used, as with a proper sized receiver it is only necessary for you to operate your compressor a few times each day (depending on the demand for air).

We carry a complete line of Electrically Welded Seamless Tanks, made of the very best Open Hearth Basic Steel Plates. They are built to stand extremely high pressures, are thoroughly tested and guaranteed by us to be air tight.

In addition to the tank, certain fittings and accessories, such as gauges, hose, air valves, safety valves, air chucks, etc., are required. We refer you to our lists of these articles, which cover the best in the market.





AIR COMPRESSORS FOR GARAGE SERVICE

Imperial Type XII

Size 2x2½



This is the smallest of the Imperial line and is recommended for intermittent service and for pressures up to and including 150. It will serve a garage housing from 15 to 20 cars. Is furnished in the Air Cooled Type only.

We recommend for this compressor, air receiver 16x48—42-gallon capacity. Piston displacement, 3.2 cu. ft. free air per minute.

Speed.....400 to 700 R.P.M.
Horse Power required.....One
Belt Wheel...10-in. diam. by 2½-in. face

Length over all.....14¾-in.
Width.....10-in.
Height.....20-in.

Weight.....95 lbs. net
Shipping weight.....150 lbs.
Price with tight pulley only.....D.P. \$66.90
Price with tight and loose pulleys.....D.P. 75.50

Imperial Type XII

Size 2½x3

Air Cooled Type

This size has larger capacity than the 2x2½-in., and is recommended for pressures up to 175 lbs., and is adaptable for garages handling from 20 to 30 cars.

Can be furnished either air cooled, water circulating cooling, or reservoir cooling systems.

We recommend for this compressor, air receiver 18x60—66-gallon capacity. Piston displacement, 6 cu. ft. free air per minute.

Horse Power required.....1½
Belt Wheel...12-in. diam. by 3-in. face
Speed.....400 to 700 R.P.M.
Length.....17-in.

Width.....12-in.
Height.....22¾-in.
Weight.....160 lbs. net
Shipping weight.....220 lbs.

Price with tight pulley only (air cooled).....D.P. \$91.00
Price with tight and loose pulleys (air cooled).....D.P. 102.00



Imperial Type XII

Size 2½x3

Hopper Cooled Type

This compressor is exactly like the 2½x3-in. shown above, except that the method of cooling is different. The cylinder is jacketed, which, in conjunction with a reservoir head, to which communication is had by ports, forms a very efficient thermo-syphon system. Under average temperature conditions one filling of the reservoir will permit continuous running of the compressor for a full day. We recommend this type of cooling.

We recommend for this compressor, air receiver 18x60—66-gallon capacity. Piston displacement, 6 cu. ft. free air per minute.

Speed.....400 to 700 R.P.M.
Horse Power required.....1½
Belt Wheel...12-in. diam. by 3-in. face

Length.....17-in.
Width.....12-in.
Height.....22-in.
Shipping weight.....245 lbs.

Reservoir Type—

Price with tight pulley.....D.P. \$100.00
Price with tight and loose pulleys.....D.P. 110.00

Water Circulating Type (Tank System)—
Prices same as Hopper Cooled Type.

Imperial Type XII

Size 3½x4



Water Circulating Type (Tank System)

This size compressor is for the garage housing up to 75 cars. It is of very rugged construction and large capacity. It will handle pressures up to 200 lbs., running intermittently and will take care of 150 lbs. operating constantly.

We recommend for this compressor, air receiver 18x72—80-gallon capacity. Piston displacement, 12.2 cu. ft. free air per minute.

Speed.....350 to 550 R.P.M.
Horse Power required.....3
Belt Wheel...16-in. diam. by 4-in. face
Length.....19¾
Width.....16-in.
Height.....29-in.
Weight.....net 275 lbs.
Shipping weight.....315 lbs.

Price with tight pulley only.....D.P. \$166.50
Price with tight and loose pulleys.....D.P. 180.00

Imperial Type XII

Size 3½x4

Hopper Cooled Type

This machine is a duplicate of that shown above differing only in that it has the reservoir thermo-syphon cooling system and shows the tight and loose pulley arrangement. Where a compressor is to be operated from a line shaft, tight and loose pulleys make the ideal drive, making it easy to shut down without the use of a clutch on the line shaft.

We recommend for this compressor, air receiver 18x72—80-gallon capacity. Piston displacement, 12.2 cu. ft. air per minute.

Speed.....350 to 550 R.P.M.
Horse Power required.....3
Belt Wheels...16-in. diam. by 4-in. face
Length.....25-in.
Width.....16-in.
Height.....35-in.
Shipping weight.....400 lbs.

Price with tight pulley only.....D.P. \$166.50
Price with tight and loose pulleys.....D.P. 180.00



Imperial Type XII

Size 4½x5



Length.....17-in.
Width.....12-in.
Height.....22-in.
Shipping weight.....245 lbs.

Reservoir Type—

Price with tight pulley.....D.P. \$100.00
Price with tight and loose pulleys.....D.P. 110.00

Water Circulating Type (Tank System)—
Prices same as Hopper Cooled Type.



Water Circulating Type (tank system). This compressor is the largest of this type, and is built for those garages handling 100 cars or more. Its capacity is so large that it will meet the largest demands for equipment of this class. It is of exceptionally heavy construction and will operate continuously at 200 pounds pressure.

We recommend for this compressor, air receiver 24x60—120-gallon capacity. Piston displacement, 23 cu. ft. free air per minute.

Speed.....325 to 500 R.P.M.
Horse Power required.....5
Belt Wheels, 20-in. diam. by 5-in. face.
Length.....22-in.
Width.....20-in.
Height.....37½-in.
Shipping weight.....330 lbs.

Price—
Either Hopper Cooled Type or Water Circulating Type (tank system).

With tight pulley only.....D.P. \$244.00
With tight and loose pulleys.....D.P. 266.00



The GIBSON COMPANY INDIANAPOLIS

MOTOR DRIVEN AIR COMPRESSORS FOR GARAGE SERVICE

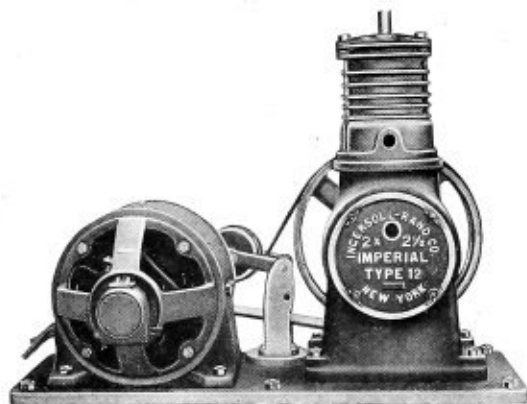
The Compressor outfits shown below represent the most simple, compact and efficient electrically driven units on the market.

They are practically noiseless in operation and supply the maximum demand both from a standpoint of capacity, quality and inexpensiveness of operation.

The Compressors are the same as those described under the heading of "Imperial Type XII."

The driving end is a General Electric motor of the most approved design, combining highest efficiency with economical operation. These motors are either direct or alternating current, direct connected to the Compressor by an "Imperial" short belt drive attachment, and the whole mounted on a suitable sub-base as shown, all ready for work after bolting to the foundation and plugging into the lighting circuit.

When ordering state kind of current used, whether direct or alternating. If direct give the voltage. If alternating, specify voltage, number of phases, number of cycles (frequency).



Air Cooled Type

Imperial Type XII

MOTOR DRIVEN AIR COMPRESSOR MOUNTED ON SUB-BASE

Size 2 x 2½-in.

This is a standard 2 x 2½-inch Compressor direct connected to a 1-H.P. motor. The capacity of the Compressor is given on the preceding page.

This size is furnished in Air Cooled only.

With Single Phase Motor.....D.P. \$238.70
With Two or Three Phase Motor....D.P. 189.20
With Direct Current Motor.....D.P. 209.00

Size 2½ x 3-in.

Can be furnished in air cooled, hopper cooled or water circulating type (tank system). Is equipped with 1½-H.P. motor.

Air Cooled—

With Single Phase Motor.....D.P. \$323.40
With Two or Three Phase Motor....D.P. 238.70
With Direct Current Motor.....D.P. 271.70

Hopper or Water Circulating Cooling—

With Single Phase Motor.....D.P. 331.10
With Two or Three Phase Motor....D.P. 246.40
With Direct Current Motor.....D.P. 279.40

Imperial Type XII

MOTOR DRIVEN AIR COMPRESSOR MOUNTED ON SUB-BASE

Size 3½ x 4-in.

Can be furnished in hopper cooled or water circulating types only. Is equipped with a 3-H.P. motor.

With Single Phase Motor.....D.P. \$475.20
With Two or Three Phase Motor.....D.P. 353.10
With Direct Current Motor.....D.P. 440.00

These prices apply to either hopper or water circulating (tank system) types.

Size 4½ x 5-in.

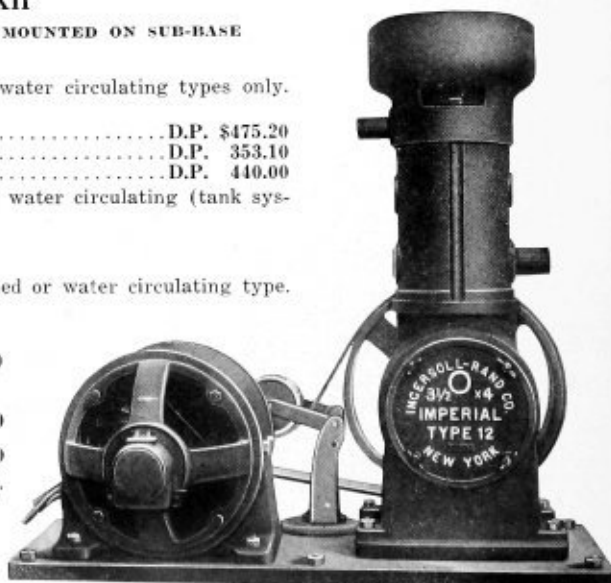
Can be furnished in either hopper cooled or water circulating type. Is equipped with a 5-H.P. motor.

With Single Phase MotorD.P. \$618.20

With Two or Three Phase
MotorD.P. 451.00

With Direct Current MotorD.P. 577.50

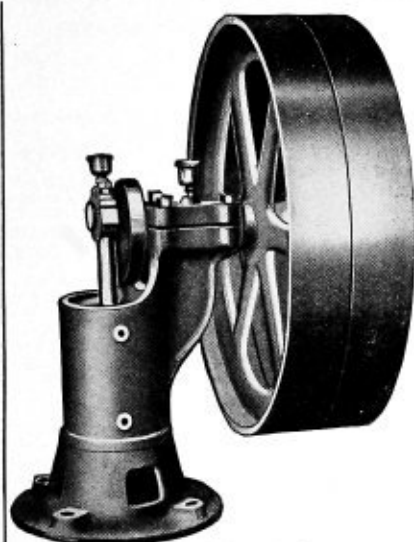
These prices apply to either hopper cooled or water circulating type.



Hopper Cooled Type



AIR COMPRESSORS FOR GARAGE SERVICE—Continued



Single Cylinder Water Jacket Type
With Flywheel and Loose Pulley

Jacobson Garage Compressors

SPECIFICATIONS:

Cylinder size.....	3-in. bore, 4-in. stroke
Normal speed.....	200 R.P.M.
Capacity free air per minute.....	3½ cu. ft.
Compresses at any pressure up to.....	200 lbs. per sq. in.
Diameter and face of fly wheel for belt.....	24-in. x 3-in.
Diameter and face of loose pulley for shifted belt.....	24-in. x 3-in.
Power required operating at 100 pound pressure.....	¾ H. P.
Power required operating at 200 pound pressure.....	1½ H. P.
Size of water pipe connections.....	¾-in.
Size of air delivery pipe.....	¾-in.
Each.....	D.P. \$76.00
If furnished with Fly Wheel only, each.....	D.P. 63.50

We carry a full line of Jacobson Single and Double Cylinder Compressors. Prices on request.

The Gardner Midget

The "MIDGET" Compressor meets the needs of a private garage, dental office, motor boat, and other places where small volumes of air are required. It is a simple, practical and durable compressor, with few parts, and so constructed that any person can, with the aid of a wrench furnished with the machine, dismantle and reassemble it within a very few minutes.

The lubrication is by the oil splash system and is perfect. Every interior working part is thoroughly drenched with oil, but provision is made for keeping the oil from going over with the air. This makes it possible to pump direct into automobile tires, eliminating an air receiver.

The "MIDGET" takes up little space, operates without noise and is of attractive appearance in a neat aluminum finish. The capacity is 1.25 cubic feet of free air at 600 revolutions, but it may be speeded to 800 revolutions with a corresponding increase in capacity. It is good for 125 pounds continuous working pressure and weighs 30 pounds.

With tight pulley, each.....\$16.60
Each...D.P. \$27.77



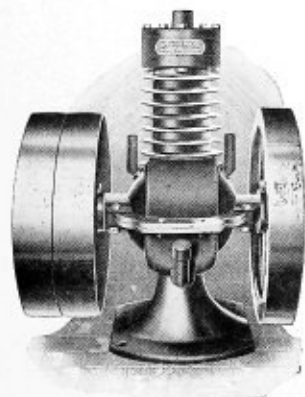
Au-To Air Compressor

Specifications No. 0 Au-to Air Compressor

Cylinder.....	3-inch bore
Piston stroke.....	4 inches
Fly wheels.....	14 inches diameter
Pulleys.....	13 inches diameter, 2-inch crown face
Height from floor to top.....	21 inches
Floor space.....	14x18 inches

Assembled at the factory and delivered set up ready to put the belt on and make pipe connections.

Each.....D.P. \$61.00





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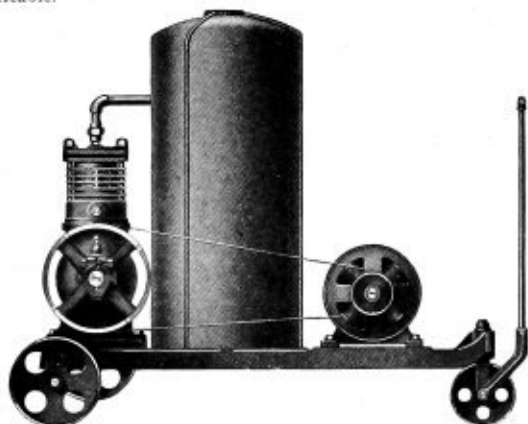
PORTABLE AIR COMPRESSORS AND AIR STORAGE TANKS

Imperial Type XII

Portable Air Compressors for Garage Service

With this type of compressor you are able to take the air just where it is wanted, without the attendant expense of piping.

The portability of this unit, and its compactness, recommends its use to garages where a stationary plant is impracticable.



Portable Type

The majority of portable air compressors have heretofore been limited in air capacity. The one illustrated has been designed to meet the needs of the largest or smallest garage.

The tank is of 40 gallons capacity and is built to handle pressures up to 250 pounds. It is firmly fixed to the truck by means of a specially designed housing—no matter how much this portable is handled, the tank can not be loosened.

The truck frame is a drop forging, very rugged. The wheels operate on ball bearings, making transportation very easy.

The Compressor is a standard 2½ x 3 Type XII Air Cooled Imperial, belted to a high grade electric motor, either direct or alternating current, in any voltage, 110, 220, 440 or 550.

This Portable is fitted with safety valve, sufficient electric cord and plug for electrical connection, pressure gauge and air hose, with automatic chuck.

We recommend this Portable Compressor to the garage needing a strong high class compressing plant of sufficient capacity for handling a large number of cars.

Price, including equipment described above:

With Single Phase A. C. Motor (any voltage),
D.P. \$467.00

With Two or Three Phase A. C. Motor (any voltage), D.P. 378.00

With Direct Current Motor (any voltage), D.P. 389.00

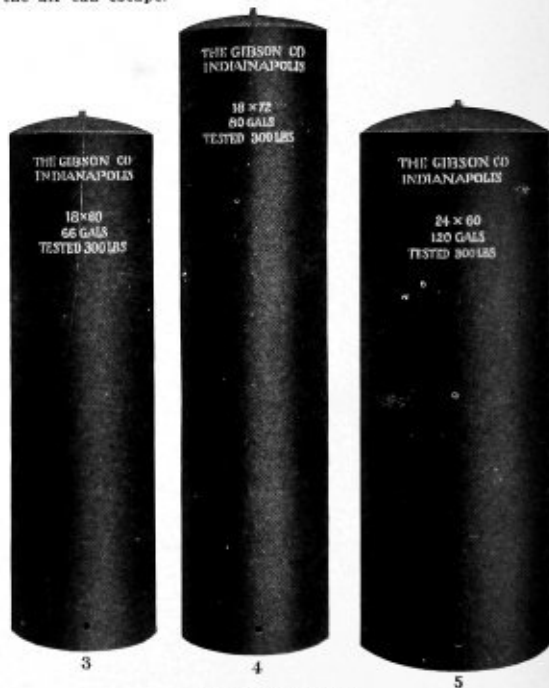
High Pressure Air Storage Tanks for Compressor Service

Electrically Welded

One of the chief and most important elements in connection with the stationary compressor plant is a suitable and strong air receiver or tank. We carry a complete line of Air Storage Tanks for the purpose of storing the reserve air. These tanks are without exception the very highest grade in material, design and workmanship. They have been built for this particular purpose and every care has been exercised to obtain a receiver that would be entirely safe at extremely high pressures. They are made of the very best uniform basic open hearth steel plate, all seams welded, making the tank virtually one piece of metal. Our tanks eliminate the possibility of any leaks as the special process of electric welding imparts the full strength of the material at the welded joint. In other words, the welded tank is greatly superior to and stronger than a riveted tank of twice the thickness. There are no rivet holes through which the air can escape.



material at the welded joint. In other words, the welded tank is greatly superior to and stronger than a riveted tank of twice the thickness. There are no rivet holes through which the air can escape.



Prices of Tanks

No. 1.....	14 x 30	20 gallons	D. P. \$18.33
No. 2.....	16 x 48	42 gallons	D. P. 31.11
No. 3.....	18 x 60	66 gallons	D. P. 60.00
No. 4.....	18 x 72	80 gallons	D. P. 66.66
No. 5.....	24 x 60	120 gallons	D. P. 100.00

The above Tanks are all black finish; they are painted with water-proof asphaltum paint. If galvanized tanks are desired add 20 per cent. to the net dealer's prices on any of the sizes shown.

We can furnish tanks in any size and of any capacity built for every pressure.



ACCESSORIES FOR AIR COMPRESSING PLANTS

There are certain fittings necessary when a compressor plant is installed. These consist of valves, gauges, etc. We carry a complete line of these fittings, all manufactured expressly for air service. They are made of the very best bronze, with seats ground true. The gauges are calibrated and accurate. The safety or pop valves will relieve at any determined pressure.

Those articles absolutely necessary in fitting up a compressing plant are:

- 1 Air Pressure Gauge, for determining pressure in tank.
- 2 Needle Valves, one between compressor and tank, and one at tank outlet.
- 1 Needle Valve with swivel hose coupling, for attaching hose at line outlet.
- 1 Pop Safety Valve, to be placed on tank as a matter of safety and to prevent accumulation of pressure.
- 1 Check Valve, to be placed between the compressor and tank. This relieves the compressor when idle and prevents leakage from tank at the same time.

Hose, Air Chucks and Hose Clamps.

We also suggest, if the Compressor is to be electrically driven, one of the special Electric Compressor Controllers shown on another page.

Air Pressure Gauge



This is a thoroughly dependable tested gauge with an iron case, and a guaranteed hand calibrated movement, especially designed for garage service. It has a 2½-inch face, and a ½-inch male pipe thread.

EachD.P. \$2.75

Tank Safety Valve

No. 656 Safety Valves are well made in every respect, are heavy, durable and positive in operation; can be set to blow off at any desired pressure up to 175 pounds. Each.....D.P. \$6.22



Check Valves, Vertical



No. 418 Lunkenheimer Vertical Ball Check Valve meets fully the requirements of users of valves of this type. They are reliable and strong and the check balls are perfectly true, will at all times properly seat and a light valve is insured.

Threaded for ½-inch pipe. EachD.P. \$1.66

No. 418 Check Valve, threaded for ¾-inch pipe, eachD.P. 1.88

No. 418 Check Valve, threaded for 1-inch pipe, eachD.P. 2.66

Bronze Needle Valve

No. 83

This is a heavily constructed, quick-seating brass valve with a ¾-inch or 1-inch female thread on both ends for the pipe line, and one should be placed in the pipe line close to the tank, both on the inlet and the outlet pipe, for use in case of emergency. These valves are made for high air pressures and are guaranteed to do the work just the way you want it done. It pays to conserve your air supply, and these valves will do it.



EachD.P. \$2.75

Bronze Needle Valve with Hose Coupling

No. 82



This is a heavy brass, quick-seating needle valve with a ¾-inch or 1-inch male thread on one end to screw into the pipe line terminal on one end, and a swivel hose coupling for the hose line on the other end, and will improve any garage air line. Made especially for garage service and guaranteed right.

EachD.P. \$3.33



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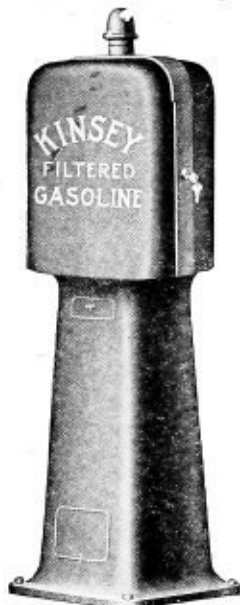
GASOLINE PUMPS AND SYSTEMS

The selection of the gasoline storage system for the garage is of the utmost importance and should not be passed over lightly. The laws governing the method of handling gasoline have become more strict each succeeding year, until now practically every locality is governed by the requirements of the National Board of Fire Underwriters and all apparatus must be of approved design.

Our years of experience have enabled us to wisely select such equipment, and in offering this line of Kinsey Pumps and Tanks, we believe we have the best from all points of excellence. As shown in the illustrations, the Kinsey Pump is extremely simple in construction, with very few wearing parts. The cross head construction has many points of advantage over the old style rack and pinion type, notably the lack of excessive wear and rattle in the gears.

The discharge register and meter are directly connected to the cross head and operate accurately to the slightest movement, which means a registering of every bit of gasoline. These exclusive features are embodied in all Kinsey Pumps and all are of the same simple and rugged construction, insuring years of satisfactory service. The C300 Pump is the standard curb pump and is equipped with a 100,000 gallon season meter and discharge register. The C300E is the same pump, but furnished with electric light and standard. The No. 50 is intended for inside use only, but may be locked to prevent tampering with, the same as the curb pumps. One revolution of the handle in either direction discharges one quart, or four turns to a gallon. Discharge register indicates gallons and fractions thereof up to twenty gallons and repeats. 100,000 gallon season meter registers continuously and is optional, deduction in price made as given below when not wanted.

C-300 Curb Pump



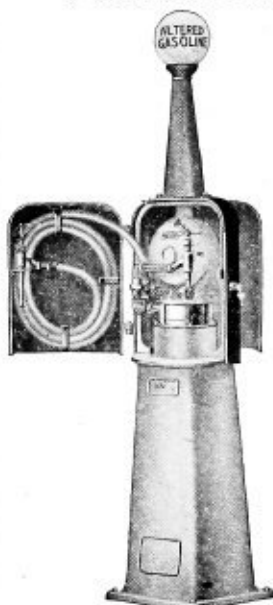
C-300 Curb Pump

Outlet	Cap.	Cap.	Size	Price
Bbls.	Gals.			
30314	3	170	37½x42 D.P.	\$389.50
30414	4	220	37½x48 D.P.	411.00
30614	6	345	37½x75 D.P.	455.00
30814	8	455	37½x98 D.P.	500.00
30014	10	570	37½x122 D.P.	545.00

C-300 Pump only D.P. \$267.00
Deduct for 100,000 gallon meter if not wanted, D.P. \$53.00

Equipment includes:
C-300 Kinsey Pump,
100,000 Gallon Meter,
Discharge Register,
Two-Way Discharge,
Two Nozzles,
Hose with connections,
Three Filters,
Double Horizontal Check Valve,
Sidewalk Valve Cover,
Tank as selected,
Ball Joint Union,
Fill pipe with lock and cover,
Suction pipe and fittings,
Gauge Stick, Lag Screws, Pump
Wrench, Litharge, Glycerin for pipe
connections.

C-300E Curb Pump



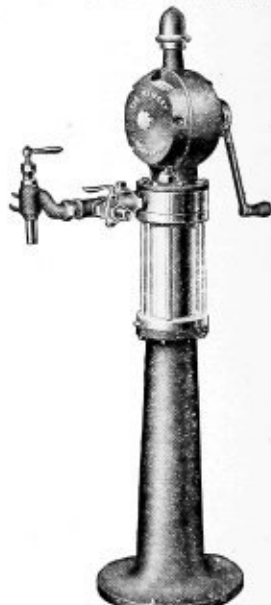
C-300E Curb Pump

Outlet	Cap.	Cap.	Size	Price
Bbls.	Gals.			
30314E	3	170	37½x42 D.P.	\$512.00
30414E	4	220	37½x48 D.P.	533.00
30614E	6	345	37½x75 D.P.	578.00
30814E	8	455	37½x98 D.P.	622.00
30014E	10	570	37½x122 D.P.	666.00

C-300E Pump only D.P. \$389.00
Deduct for 100,000 gallon meter if not wanted, D.P. \$53.00
Deduct for electric light if not wanted, D.P. \$40.00

Equipment includes:
C-300E Kinsey Pump,
Electric Light and fittings,
100,000 Gallon Meter,
Discharge Register,
Overhead Drain with auto valve,
Two Nozzles,
Two-Way Discharge,
Hose with connections,
Three Filters,
Double Horizontal Check Valve,
Sidewalk Valve Cover,
Tank as selected,
Ball Joint Union,
Fill Pipe with lock, cover, suction pipe
and fittings.

No. 50 Inside Pump



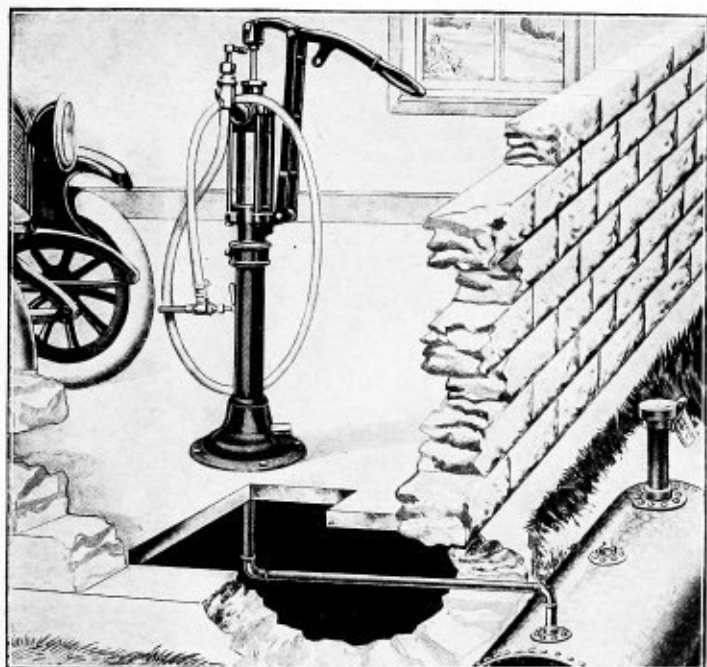
No. 50 Inside Pump

Outlet	Cap.	Cap.	Size	Price
Bbls.	Gals.			
50214	2	122	30 x42 D.P.	\$325.00
50314	3	170	37½x42 D.P.	347.00
50414	4	220	37½x48 D.P.	369.00
50614	6	345	37½x75 D.P.	414.00
50814	8	455	37½x98 D.P.	458.00
50014	10	570	37½x122 D.P.	502.00

No. 50 Pump only D.P. \$208.75
Deduct for 100,000 gallon meter if not wanted, D.P. \$53.00

Equipment includes:
No. 50 Kinsey Pump,
Discharge Register,
100,000 Gallon Meter,
Two-Way Discharge with Model A
Hose Nozzle,
Three filters,
Tank as selected,
Fill pipe with lock and cover,
Double Horizontal Check Valve,
Suction line for tank,
Ball Joint Union,
Pump Wrench,
Drip Pan,
Lag Screw,
Litharge and Glycerin for making pipe
connections.

GASOLINE STORAGE SYSTEMS



"SAFETY FIRST" is in no place more applicable than in the handling of gasoline. Any container holding gasoline which is left above ground is subject to constant evaporation and is a menace to public life and property.

Fire insurance underwriters do not permit storage of gasoline, except in very small quantities, in anything but underground tanks.

The line of pumps here offered are "Safe and Sane" and fill the need for small systems, such as are required for private garages and public garages where the demand is not sufficient to justify the installation of the larger sets.

The construction of these pumps is high grade in every particular, all parts coming in contact with the gasoline being brass. Located in the base of the pump is an all-brass trip valve, ground onto a brass seat, which is operated to drain the pump after using.

Complete outfits may be made up by choosing the pump and tank desired and adding the filler pipe. One inch galvanized pipe should be used between tank and pump and is not furnished by us.

DESCRIPTION AND PRICES

Fig.	No.	Diameter Cylinder Inches	Stroke Inches	Per Stroke	Suction Pipe Inches	Price	Retail Price
2422	2	2½	6	1 Pt.	1	D.P. \$12.22	\$7.00
2422U	2	2½	6	1 Pt.	1	D.P. 14.44	8.50
386	2	2½	5	1 Pt.	1	D.P. 19.42	11.50
386U	2	2½	5	1 Pt.	1	D.P. 22.22	13.00
386	6	3½	5	1 Qt.	1	D.P. 24.50	15.00
386U	6	3½	5	1 Qt.	1	D.P. 27.80	17.00
2-inch Filler Cap and Strainer						D.P. 7.80	5.00

Use 1-inch galvanized pipe for suction line.

We do not furnish suction pipe or install systems.

U All pumps so marked are approved by the National Board of Fire Underwriters and has Inspectors' brass label attached.

GALVANIZED WELDED TANKS

Size	Capacity	Shell	Price	Retail
24x30	1 Bbl.	No. 16 Gauge	D.P. \$21.11	\$12.00
30x40	2 Bbls.	No. 14 Gauge	D.P. 35.55	21.00
36x40	3 Bbls.	No. 14 Gauge	D.P. 50.00	30.00
36x54	4 Bbls.	No. 14 Gauge	D.P. 62.22	35.00
36x66	5 Bbls.	No. 14 Gauge	D.P. 77.77	50.00
42x92	10 Bbls.	No. 12 Gauge	D.P. 144.44	85.00

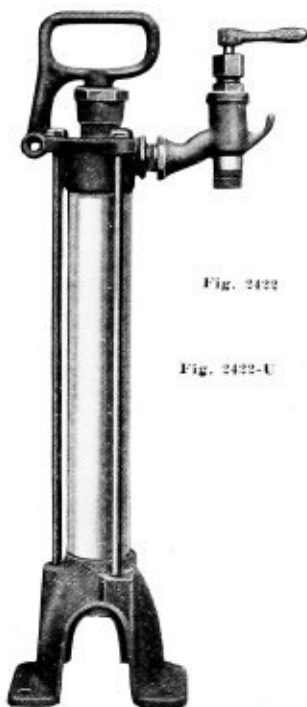


Fig. 2422

Fig. 2422-U

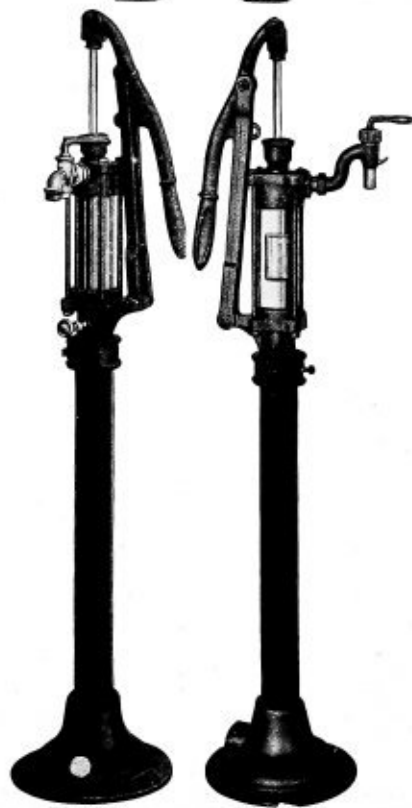


Fig. 386

Fig. 386-U

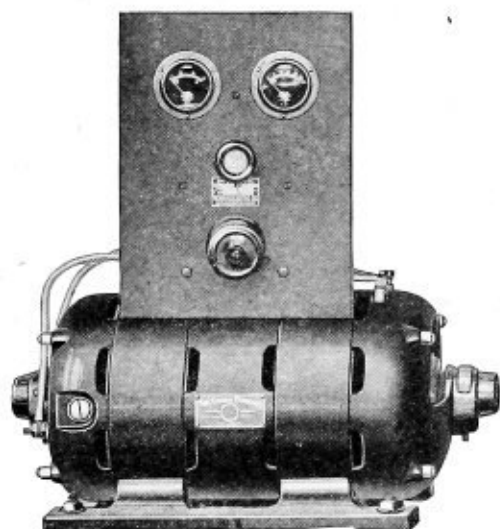


The GIBSON COMPANY INDIANAPOLIS

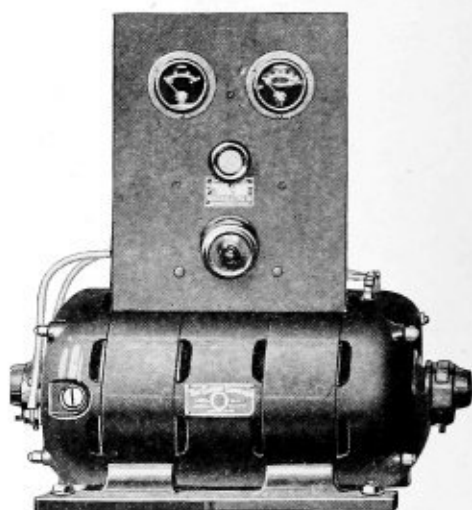
MOTOR GENERATOR SETS

For Charging Lighting and Starting Storage Batteries

(Built by General Electric Company)



750 Watt Motor Generator Set
72 Volts 10½ Amperes
Will Charge 12-6 Volt (3 Cell) Storage Batteries



500 Watt Motor Generator Set
48 Volts 10½ Amperes
Will Charge 8-6 Volt (3 Cell) Storage Batteries

Seventy per cent. of all cars costing \$600.00 or more built in 1914, 95 per cent. built in 1915, and about all those manufactured in 1916, are equipped with Electric Lighting and Starting Systems. A number of earlier models have been fitted with these systems, some having lighting equipment only, while others have installed storage batteries without the addition of an electric generator. In every case, whether a recent or old model, a storage battery forms a part of the system. This "over-night" popularity and growth of the use of storage batteries has confronted the garage and repairman with the problem of finding a successful, economical and efficient means of recharging the storage batteries brought to his door. Many methods have been resorted to, including rectifiers, city current with certain forms of resistance, vibrating battery charging machines, etc.; all these appliances and forms of charging have proven expensive, the initial cost of the current being greater than the payment received for the work.

Here at last is the solution. This is a Motor Generator Set built by the largest manufacturer of electrical equipment in the world—a concern more familiar with the requirements of electrical apparatus and with better facilities for its production than any other builder of like equipment.

This Motor Generator Set consists of a small single phase alternating current motor on the same shaft and in the same housing with a small direct current generator, which produces current at the rate necessary to charge the storage batteries. Fixed to and a part of the set is a complete switchboard, having an ammeter, voltmeter, rheostat, and switches for reading and controlling the current flow from the generator.

In setting up this plant all that is necessary is to connect with a convenient lamp socket, with a plug provided for that purpose, then attach to your batteries, get the proper ampere and voltage reading, turn on your current and the battery or batteries commence charging.

This is one of the greatest money-making devices ever offered the garage and repairman. Every storage battery requires recharging occasionally, and this work is sure to come to your door. The usual charge for building up a battery is from \$1.00 to \$1.50; with this machine the usual cost is between 20 and 40 cents for a three-cell six-volt battery, where the current rate is less than eight cents per kilowatt hour.

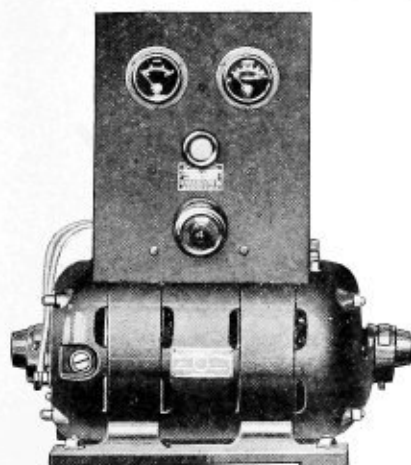
Be the First in Your Town to Install One of These Units and Control the Battery Charging Business

Read Carefully the Two Following Pages. Get Our Proposition on the U.S.L. Storage Batteries.

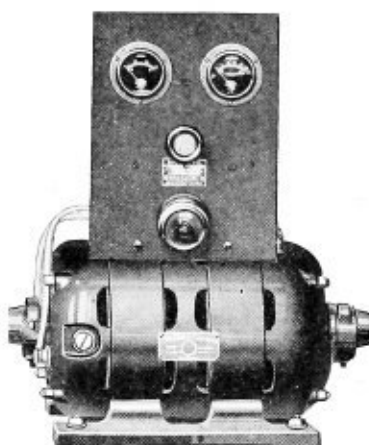
MOTOR GENERATOR SETS—Continued

For Charging Lighting and Starting Storage Batteries

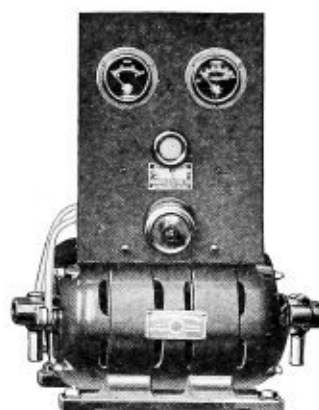
(Built by General Electric Company)



375 Watt Motor Generator Set
36 Volts10½ Amperes
Will Charge 6-6 Volt (3 Cell) Storage
Batteries



350 Watt Motor Generator Set
24 Volts10½ Amperes
Will Charge 4-6 Volt (3 Cell) Storage
Batteries



175 Watt Motor Generator Set
24 Volts7½ Amperes
Will Charge 4-6 Volt (3 Cell)
Storage Batteries (at slow rate)

During the 1915 season we sold upward of 1,000 of these General Electric Company Battery Charging Motor-Generator Sets. They are used in garages all over the world. Designed and built by specialists in the electrical apparatus field, this set has features not found in any other set on the market. The switchboard is an integral part of the set—there are no unsightly wires exposed to chafing or breakage. The switchboard panel has Voltmeter, Ammeter, Field Rheostat, and six-point compound switch. This switch cuts out motor and generator simultaneously. All instruments and the equipment itself is fully protected by fuses. With this set there is practically no wiring necessary, except to bring the city current to the switchboard and take two lines to the batteries.

The commutator, which is the life of every generator, is of very liberal proportions—larger, in fact, than is found on any other generator of equal size on the market. The brush holders are of the self-adjusting type, and are of excellent construction.

This Motor-Generator Set is built with the same care and adjustment as is employed in the construction of the finest generators and motors. Every part is perfectly balanced, and the entire unit is thoroughly tested under actual operating conditions before shipment is made from the factory.

Most all the motor-generators offered heretofore for battery charging purposes have been makeshifts—a combination of a separate motor and a separate generator on an improvised base. The one illustrated here is not of that kind. It is a specially designed unit, made for this particular purpose, and is the result of many years' experimenting in the electrical and storage battery field.

The bearings are of the self-oiling type, and as the machine is a self-contained unit, it will, with ordinary care, last a lifetime without repairs, other than the occasional renewal of the brushes. In fact, your only expense is the first cost—after that, your profits are constant.

This Motor-Generator Set is built in five sizes—one for every demand and every dealer. Consult the row at the top of this and the preceding page, where the various capacities are shown. Prices and further information will be found on the following page.

The General Electric Company has rated these sets very conservatively, and have not, like all other manufacturers, placed their rating at the extreme capacity of the unit. The sets we offer can be moderately overloaded without danger to the apparatus.

We also furnish small generators of the same type as the generating end of these sets; these are for belt-driven purposes. Very often electric current is unavailable, in which event the M. C. Generators can be used with very good results driven by belt from a lineshaft or by a gas or gasoline engine.

A book of instructions is shipped with each set, giving full details covering the operation of these machines and also valuable information on the charging of storage batteries.

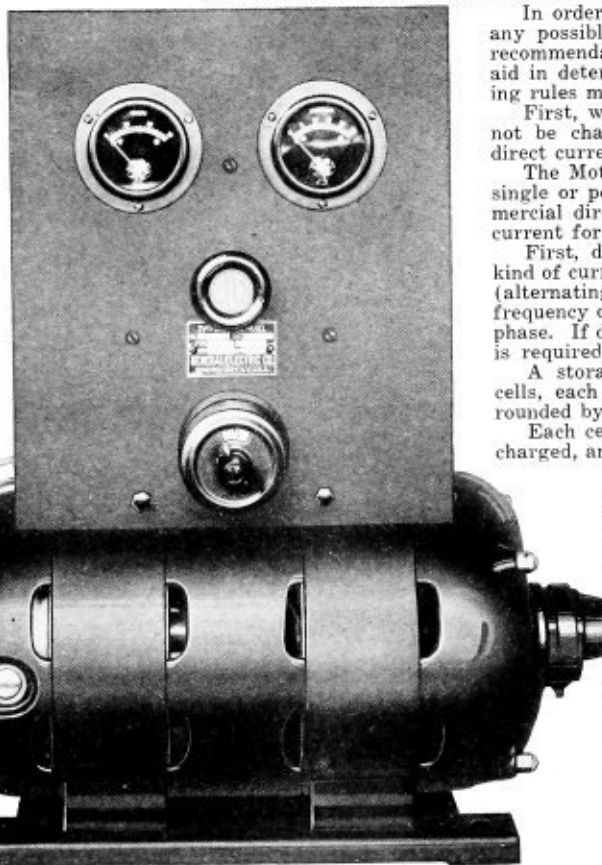
If interested in equipment for charging batteries for electric vehicles, see those pages on which large Motor-Generator Sets are described.



MOTOR GENERATOR SETS—Continued

For Charging Lighting and Starting Storage Batteries (Built by General Electric Company)

SELECTING THE MOTOR-GENERATOR SET



In order that the proper set be installed to meet any possible special conditions we prefer to make recommendations in each particular case, but as an aid in determining the approximate size the following rules may be observed:

First, we must know that a storage battery can not be charged with alternating current and that direct current must have certain characteristics.

The Motor-Generator is built to operate on either single or polyphase alternating current and on commercial direct current and to deliver suitable direct current for battery charging.

First, determine from your power company the kind of current that they deliver at your line; if A. C. (alternating current), you must know the voltage, frequency or cycles, and whether single, two or three phase. If direct current is furnished only the voltage is required.

A storage battery is made up of one or more cells, each having positive or negative plates surrounded by a solution known as electrolyte.

Each cell is capable of delivering two volts when charged, and the voltage of a battery of a number of cells is equal to 2 volts for each cell; thus a 3-cell battery has a total of 6 volts, while a 6-cell has 12 volts, a 12-cell 24 volts, etc.

Thus we see that the combined voltage of a number of batteries when connected in series will be the number of cells times 2. Thus 4 6-volt batteries would have a total voltage of $4 \times 3 \times 2 = 24$ volts, as each 6-volt battery has 3 cells of 2 volts each and there are 4 batteries in series.

In battery parlance the term "volt" means the pressure at which the battery is capable of delivering current. The quantity of current (amperes) which a given battery may safely deliver in a given time is computed per hour and is called ampere-hours—the ampere-hour being equal to one ampere flowing continuously for one hour at a given voltage.

The ampere-hour capacity of a battery is marked on the battery by the makers, as is also the ampere charging rate. This charging rate is usually a little less than the discharge rate at 8 hours. Our small or 175-watt charging set is indicated as 7½ amperes, while the larger sets are 10½ amperes.

In speaking of gas or steam engines, we use the term horsepower to denote its capacity, and in motor-generator sets we use the term watts—one watt being equal to 1.746 H. P., or one kilowatt (1,000 watts) equal to 1.34 H. P.

Thus our small set equals 175 watts capacity, 1 K. W. equals 1,000 watts capacity, etc.

Volts (E) = Pressure
Amperes (I) = Rate of flow of current
Watts (P) = Power or capacity

We have $\text{Volts} \times \text{Amperes} = \text{Watts}$
 $E \times I = P$

Assuming that we should wish to charge 12 6-volt batteries at one time and want to know what size motor-generator set to select to do this, we would proceed as follows: As each 6-volt battery contains 3 cells at 2 volts each, we would have:

$$12 \times 3 \times 2 = 72 \text{ volts required}$$

$$\text{Volts} \times \text{Amperes} = \text{Watts}$$

$$72 \times 10\frac{1}{2} = 756 \text{ Watts}$$

We would choose a 750-watt set. This would fully charge the 6 batteries at 10½ amperes in about 10 to 12 hours, which is good practice.

PRICES (Complete Motor-Generator Sets) (Complete With Switchboard)

175-Watt Set (Single Phase Only)	D.P. \$192.20	500-Watt Set (Single or Three Phase)	D.P. \$398.80
250-Watt Set (Single or Three Phase)	D.P. 282.10	750-Watt Set (Single or Three Phase)	D.P. 427.80
375-Watt Set (Single or Three Phase)	D.P. 335.00		

PRICES (Generators Only), for Belt Drive, Including Rheostat and Pulley

(Does Not Include Switchboard)

175-Watt Generator	D.P. \$ 83.50	500-Watt Generator	D.P. \$155.00
250-Watt Generator	D.P. 130.00	750-Watt Generator	D.P. 180.00
375-Watt Generator	D.P. 133.50		

If switchboard with instruments, etc., same as is furnished with the regular Motor Generator Sets, is desired with Belted Generators, add, D.P. \$44.50.

When ordering Motor-Generator Sets BE SURE TO SPECIFY YOUR CITY VOLTAGE—Whether 110 or 220 volts, the number of phases, the frequency (number of cycles—25, 40 or 60).



MOTOR GENERATOR SETS—Continued

For Charging Electric Vehicle Storage Batteries

Manufactured by General Electric Company
For Public and Private Garage Use

The Motor Generator Sets described on this page are without exception the highest developed units of their type ever built. They are of various capacities and for that reason can be furnished for a garage of any size. They are built to General Electric Company's standards, which guarantees the purchaser the highest grade in electrical equipment.

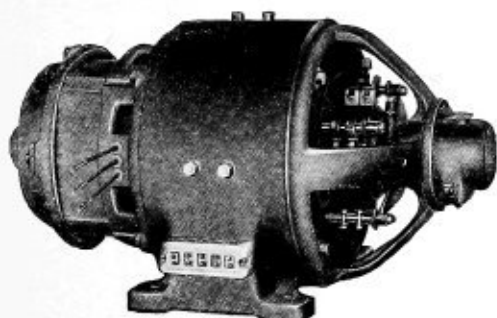
These Motor Generator Sets consist of a Direct or Alternating Current Motor connected on the same shaft to a Direct Current Generator. It is practically a single unit, and as but one housing is used, the base forms a part of the equipment, and no sub-base is required. The Motor is connected to your city current and drives the Generator, thus producing direct current for charging the batteries.

The prices shown include field rheostat for reducing the generator voltage, with a range of from 125 volts (normal discharge) to 60 volts. It also includes a Starter for the Motor.

While we list only the 125-volt type, and recommend that size for Battery Charging, we can furnish other voltages on special order and at extra cost.

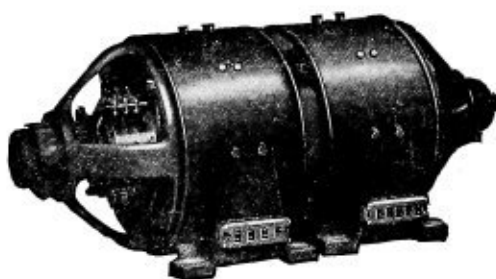
With Alternating Current Motor

Type MIC



With Direct Current Motor

Type MCC



With Single Phase 60-Cycle Motor

KW	Size HP	Motor Voltage	Amperes		Price
			At 60 V	At 125 V	
1	1.3	110 or 220	17	8	D.P. \$376.20
2	2.7	110 or 220	34	16	D.P. 530.20
3½	4.7	110 or 220	60	28	D.P. 635.80
5	6.7	110 or 220	85	40	D.P. 726.00
7	9.4	110 or 220	119	56	D.P. 924.00
10	13.4	110 or 220	170	80	D.P. 1,138.60

With Two or Three Phase 60-Cycle Motor

KW	Size HP	Motor Voltage	Amperes		Price
			At 60 V	At 125 V	
1	1.3	For 110	17	8	D.P. \$319.00
2	2.7	220, 440, or	34	16	D.P. 446.60
3½	4.7	550 Volts	60	28	D.P. 550.00
5	6.7		85	40	D.P. 684.20
7	9.4		119	56	D.P. 814.00
10	13.4		170	80	D.P. 1,024.10
14	18.7		234	112	D.P. 1,172.60
17½	23.4		292	140	D.P. 1,344.20

KW	Size HP	Motor Voltage	Amperes		Price
			At 60 V	At 125 V	
1	1.3	230	17	8	D.P. \$305.80
		550			D.P. 310.20
1½	1.7	230	21	10	D.P. 415.80
		550			D.P. 415.80
2	2.7	230	34	16	D.P. 513.70
		550			D.P. 520.30
3	4	230	50	24	D.P. 660.00
		550			D.P. 672.10
5	6.7	230	85	40	D.P. 794.20
		550			D.P. 818.40
6½	8.7	230	108	52	D.P. 1,112.10
		550			D.P. 1,136.30
9½	12.7	230	158	76	D.P. 1,331.00
		550			D.P. 1,356.30
13	17.4	230	217	104	D.P. 1,734.70
		550			D.P. 1,856.80

No instruments are included in the above prices. It is recommended that a voltmeter and ammeter be used in connection with these units. Please refer to that page describing "Switchboard Instruments" for prices on ammeters and voltmeters.

By determining the number of amperes per cell as used on the various vehicle batteries, the number of cells each unit will charge can be readily figured. As the rates on the different styles of batteries are not the same we do not list the number of cells these Motor Generator Sets will charge at one time.



The GIBSON COMPANY INDIANAPOLIS

ELECTRIC MOTORS

The use of electric power in the modern Garage and Machine Shop has created a demand for a high-class economical and efficient motor. We have been making a series of exhaustive tests that have extended over a period of fifteen months. In this test we used one or more of all the popular makes of motors. They have been used in connection with Air Compressors, Machine Tools, driving all kinds of shop equipment, etc., and the net result of our investigations has been that the product of the General Electric Company is superior in every way to any other motor on the market.

General Electric Motors will give the longest life, with the lowest current consumption per HP delivered, and will show the highest "day-in-day-out" efficiency. The General Electric Company is the recognized authority in the manufacture of electrical apparatus. Their motors are used in every industry on the civilized globe. They have built the largest units ever produced, and in competitive tests show that their motors have the most uniform starting torque, require fewer repairs, are heavier in construction and are better adapted to perform constant service at low operating cost than any other make of motor.

General Electric Motors are built in the largest and best equipped shops in America, designed by the world's foremost electrical engineers, and their success is justly due to a combination of correct design, excellence of material, superior shop facilities, conscientious workmanship, and, finally, most painstaking care in inspection and test.

We carry a complete stock of motors, in all sizes, and for every kind of current, in either constant or variable speed, with or without starting mechanism, arranged for either belt or direct drive and for any service you may indicate.

On this and the following page we describe and list the three most popular types, for regular Garage and Repair Shop service. In addition to the ones shown we can furnish units of any other size or type desired. Prices shown are invariably f. o. b. factory. No extra charge for boxing. We reserve the right to change the prices shown without notice.

Alternating Current Motors

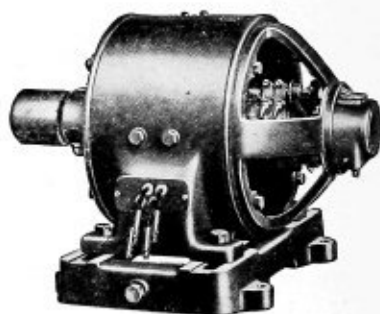


In the majority of towns and cities Alternating Current is furnished by the power companies. It naturally follows that this type of motor is used to a greater extent than the direct current. Current is furnished in 25, 40, 50 and 60 cycles (frequency) and in voltages of 110, 220, 440 and 550—in some cases higher voltages are used, but these cases are rare. Another important feature in current of this kind is the number of phases employed, some cities have polyphase, a term used for two and three phase systems, while others furnish single phase.

We are in a position to furnish motors in any of the voltages specified, and in any number of phases or cycles.

We have selected and show the two most popular types of Alternating Current Motors, known as the Type RI Single Phase and Type K polyphase. These motors are the highest grade built and are guaranteed to give excellent service with small operating expense.

Direct Current Motors



The demand for this type of motor is confined to large cities and towns, and in isolated sections. Current is furnished in either 110, 220 or 550 volts. We offer the Type DSD as being the best adapted to service of this character. They can be furnished in either shunt or compound wound and can provide series-wound motors on special order.

One of the principal factors in the successful operation of Direct Current Motors is proper ventilation. Unless properly designed in this regard, over-heating and consequent loss of power will follow. The peculiar construction of the General Electric Company's Direct Current Motors prevent undue temperature rises, through special ventilating ducts and large air spaces. DSD and CVC Motors are furnished with ring oiling devices which guarantee uniform and ample lubrication. The Brush Holders are special automatic clock-spring type and self-conforming.

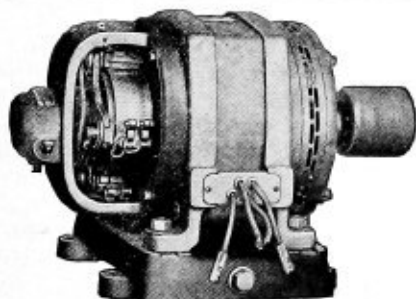


ELECTRIC MOTORS

To facilitate the correct filling of orders for Motors, the following directions for ordering should be carefully noted and followed:

- 1—Give type desired—horse power, speed (R.P.M.), voltage.
- 2—For alternating current circuit give frequency (number of cycles) and whether single, two or three phase, also voltage.
- 3—For direct current give type of winding, whether series, shunt or compound, also voltage.
- 4—Whether pulley, base and compensator (starter or rheostat) is to be included. If special pulley is desired, give diameter.
- 5—Always order by type, as Type DSD, Type K, etc.
- 6—If special proposition has been made you for motors in connection with other equipment, please refer to that letter, giving date.
- 7—Give full shipping instructions.
- 8—Indicate the service in which the motor is to be employed and whether for continuous or intermittent operation.

Alternating Current Motors



Type RI, 60 Cycles
Single Phase—Constant Speed

This line of Single Phase Motors are the highest grade in design, construction and workmanship. Horse power ratings are based on the actual horse power delivered at the pulley when operated on a circuit corresponding with the figures shown on the name plate.

H.P.	Speed R.P.M.	Volts	Price Motor Only D.P.	Extra for Pulley D.P.	Extra for Base	Weight
1/4	1800	110-220	\$102.59	\$2.22	....	86
1/2	1200	110-220	112.20	2.22	....	105
3/4	1800	110-220	112.20	2.22	....	105
1	1200	110-220	149.05	2.22	\$6.66	172
1 1/4	1800	110-220	136.95	2.22	....	125
1 1/2	1200	110-220	173.36	2.22	6.66	185
1 3/4	1800	110-220	149.05	2.22	6.66	172
2	1200	110-220	176.00	2.22	6.66	196
2 1/2	1800	110-220	288.20	2.22	6.66	287
3	1200	110-220	205.15	2.22	6.66	196
3 1/2	1800	110-220	264.00	2.22	6.66	262
4	1200	110-220	378.95	2.22	8.88	382
5	1800	110-220	264.00	2.22	6.66	262
6	1200	110-220	352.20	2.22	8.88	367
7	1800	110-220	581.35	4.44	13.32	605
8	1200	110-220	352.20	2.22	8.88	367
9	1800	110-220	469.15	4.44	13.32	580
10	1200	110-220	634.92	4.44	15.54	690
11	1800	110-220	429.15	4.44	13.32	580
12	1200	110-220	550.00	4.44	15.54	660
13	1800	110-220	830.50	4.44	15.54	898
14	1200	110-220	581.35	4.44	15.54	690
15	1800	110-220	666.60	4.44	15.54	830
16	1200	110-220	1,037.85	4.44	15.54	1220
17	1800	110-220	752.40	4.44	15.54	830
18	1200	110-220	840.07	4.44	15.54	1140

Above prices do not include starter. Sizes up to and including 1/2 H.P. do not require starters. For starters on 1 H.P. motors add \$11.10 list. For starters on 2 and 3 H.P. motors add \$13.32 list. On 5 H.P. motors add \$15.54 list. On 7 1/2 H.P. add \$22.20 list. On 10 and 15 H.P. add \$42.20 list. Prices for higher voltages on application. Prices for 25, 40 and 50 cycles on application.



Type K, 60 Cycles
Two and Three Phase—Constant Speed

The Polyphase Induction Motor is considerably cheaper than the single phase; however, the two and three phase motors will operate only on two and three phase systems and cannot be driven by single phase current. The latter requires special and extra heavy windings which increase its cost. The two and three phase will be found just as efficient and of the same excellent design, material and workmanship as all other products of the General Electric Company.

H.P.	Speed R.P.M.	Volts	Price Motor Only D.P.	Extra for Pulley D.P.	Extra for Base	Weight
1/4	900	This type	\$85.26	\$2.22	\$6.66	100
1/2	1800	motor is fur-	85.47	2.22	6.66	45
3/4	1200	nished in	95.26	2.22	6.66	100
1	1800	110, 220,	102.63	2.22	6.66	120
1 1/4	1200	either 110, 220,	100.10	2.22	6.66	100
1 1/2	1800	440 or 550 volts	124.85	2.22	6.66	130
2	900	at the same	161.26	2.22	6.66	180
2 1/2	1500	price	112.42	2.22	6.66	130
3	1200		141.68	2.22	6.66	140
3 1/2	1800		185.68	2.22	6.66	220
4	1500		124.85	2.22	6.66	140
5	1200		163.68	2.22	6.66	180
6	900		202.73	2.22	6.66	220
7	1800		141.68	2.22	6.66	180
8	1200		190.52	2.22	6.66	220
9	900		236.94	2.22	8.88	340
10	1800		166.10	2.22	6.66	220
11	1200		232.10	2.22	8.88	340
12	900		298.10	4.44	13.32	440
13	600		422.40	4.44	11.10	700
14	1800		210.10	2.22	8.88	500
15	900		352.00	4.44	11.10	800
16	1800		264.00	4.44	13.32	600
17	10		412.50	4.44	11.10	860
18	15		371.25	4.44	11.10	610
19	15		512.82	6.66	13.32	1050

For starters for sizes from 1/4 to 10 H.P. inclusive, add \$86.58 list. For starters for 15 H.P. add \$91.02 list. Prices for higher voltages on application. Prices for 25, 40 and 50 cycle motors on application.

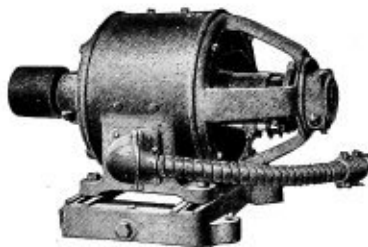
The sizes shown in the above lists are those usually required for the average garage and machine shop. We are in a position to furnish any style, size or type of motor: Vertical, back geared or totally enclosed, in units up to 6000 H.P., in any speed and for any voltage. If the speeds shown are not what you require, write our Engineering Department; they will gladly name you prices on any other unit in which you may be interested.



The GIBSON COMPANY INDIANAPOLIS

ELECTRIC MOTORS, CUT-OUTS AND FUSE BLOCKS

Direct Current Motors



Type DSD up to and including 1-HP

Type CVC from 1½ to 15-HP

Constant Speed—Shunt and Compound Wound—Continuous Service

The line of Direct Current Motors listed below is selected for their size and speed as being the best suited for the average garage and machine shop. They are the very highest grade and are rated very conservatively in power delivered.

HP	Speed RPM	Volts	Price Motor Only	Extra for Pulley	Extra for Base	Wt.
Type DSD—						
¼	1150	115	\$95.26	D.P. \$2.22	D.P. \$6.66	140
¼	1150	230	97.43	D.P. 2.22	D.P. 6.66	140
½	1700	115	90.42	D.P. 2.22	D.P. 6.66	140
½	1700	230	92.84	D.P. 2.22	D.P. 6.66	140
¾	1700	115	100.10	D.P. 2.22	D.P. 6.66	163
¾	1700	230	102.63	D.P. 2.22	D.P. 6.66	163
1	1475	115	107.47	D.P. 2.22	D.P. 6.66	175
1	1475	230	110.00	D.P. 2.22	D.P. 6.66	175
1	2000	115	110.00	D.P. 2.22	D.P. 6.66	175
1	2000	230	112.42	D.P. 2.22	D.P. 6.66	175
1	1700	115	117.47	D.P. 2.22	D.P. 7.77	200
1	1700	230	121.00	D.P. 2.22	D.P. 7.77	200
1	1150	115	135.52	D.P. 2.22	D.P. 7.77	225
1	1150	230	138.05	D.P. 2.22	D.P. 7.77	225
1	500	115	210.10	D.P. 2.22	D.P. 8.88	390
1½	750	115	210.10	D.P. 2.22	D.P. 8.88	390
1½	875	230	210.10	D.P. 2.22	D.P. 8.88	390
2	1700	115	147.84	D.P. 2.22	D.P. 7.77	225
2	1700	230	150.26	D.P. 2.22	D.P. 7.77	225
Type CVC—						
2	1250	115	214.94	D.P. 2.22	D.P. 8.88	395
2	1250	230	214.94	D.P. 2.22	D.P. 8.88	395
3	1650	115	210.10	D.P. 2.22	D.P. 8.88	400
3	1650	230	210.10	D.P. 2.22	D.P. 8.88	400
3	1250	115	264.00	D.P. 2.22	D.P. 11.10	540
3	1250	230	264.00	D.P. 2.22	D.P. 11.10	540
3	1000	115	271.15	D.P. 2.22	D.P. 11.10	540
3	1000	230	271.15	D.P. 2.22	D.P. 11.10	540
5	1650	115	326.41	D.P. 2.22	D.P. 11.10	540
5	1650	230	328.94	D.P. 2.22	D.P. 11.10	545
5	1250	115	317.46	D.P. 2.22	D.P. 11.10	720
5	1250	230	319.88	D.P. 2.22	D.P. 11.10	730
5	1100	115	310.20	D.P. 2.22	D.P. 11.10	720
5	1100	230	312.62	D.P. 2.22	D.P. 11.10	730
7½	1525	115	312.62	D.P. 2.22	D.P. 11.10	800
7½	1525	230	319.88	D.P. 2.22	D.P. 11.10	820
7½	950	115	463.98	D.P. 4.44	D.P. 15.54	1060
7½	950	230	471.35	D.P. 4.44	D.P. 15.54	1090
10	1250	115	459.14	D.P. 4.44	D.P. 15.54	1070
10	1250	230	468.93	D.P. 4.44	D.P. 15.54	1095
10	700	115	539.66	D.P. 6.66	D.P. 17.76	1370
10	700	230	549.45	D.P. 6.66	D.P. 17.76	1410
15	925	115	542.19	D.P. 6.66	D.P. 17.76	1430
15	925	230	554.40	D.P. 6.66	D.P. 17.76	1480
15	700	115	722.92	D.P. 8.88	D.P. 17.76	1850
15	700	230	735.13	D.P. 8.88	D.P. 17.76	1910

The above prices do not include rheostats. These can be furnished for the sizes indicated at the following prices:

1-HP	D.P. \$7.33
½ to 3-HP inclusive	D.P. 9.77
5-HP	D.P. 17.10
7½-HP	D.P. 26.86
10-HP	D.P. 31.74
15-HP	D.P. 41.51

We have listed Direct Current Motors for 115 and 230-volt exclusively, although we can furnish them in any voltage and speed. Those shown are standard and carried in stock. The speeds have been selected as being the best adaptable for regular garage and machine shop service.

The motors listed are for service on 110 and 220-volt circuits. If we do not show what you require send us your specifications. We can name you satisfactory prices.

We carry a line of Switches, Cut-outs, Fuse Blocks and Fuses, selected for their adaptability to garage wiring. In addition to those listed we can furnish any size, type or capacity switch desired.



For 250 Volts D.C. or 500 Volts A.C.

Double Pole Single Throw—

No. Amps.			
3801	30	D.P.	\$3.31
3802	60	D.P.	4.83
3804	100	D.P.	9.30
3806	200	D.P.	14.03
3808	300	D.P.	21.62
3809	400	D.P.	33.12
3811	600	D.P.	47.15

Double Pole Single Throw, with N.E.C. Fuse Connections—

No. Amps.			
1130	30	D.P.	\$2.70
1131	60	D.P.	4.60
1133	100	D.P.	9.32
1134	200	D.P.	17.25

Single Pole Single Throw—

No. Amps.			
1120	30	D.P.	\$1.78
1121	60	D.P.	3.01
1123	100	D.P.	6.10
1124	200	D.P.	11.27



For 250 Volts D.C. or 500 Volts A.C.

Kappa Switches in single, two and three poles, for lines carrying 30 amperes and less. These are suitable for charging systems.



For 250 Volts

Without Fuse Connections—

No. Poles	Amps.		
20	1	30	D.P. \$1.27
22	2	30	D.P. 1.78
23	3	30	D.P. 2.82

With Fuse Connections—

No. Poles	Amps.		
24	1	30	D.P. \$1.70
25	2	30	D.P. 2.68
26	3	30	D.P. 3.90

Edison Plug Cut-Outs and Fuses

We can furnish all sizes and types of Edison Plug Cut-outs and Fuses.

No. 2569	Single Pole Main	D.P.	\$0.51
No. 2965	Double Pole Main	D.P.	.82
No. 2165	Triple Pole Main	D.P.	1.20
No. 1935	Double Pole 1 Branch	D.P.	.90
No. 8042	Triple Pole 1 Branch	D.P.	1.54
No. 2587	Double Pole 2 Branch	D.P.	1.79
No. 2150	3 to 3 Wire 1 Branch	D.P.	1.32
No. 2190	3 to 2 Wire 2 Branch	D.P.	1.91
No. 2135	Triple Pole 2 Branch	D.P.	2.60
8029	Double Pole 1 or 2 Branch	D.P.	1.27

Fuse Plugs



3 Amp	D.P.	\$0.13	15 Amp	D.P.	\$0.13
6 Amp	D.P.	.13	20 Amp	D.P.	.13
10 Amp	D.P.	.13	25 Amp	D.P.	.13
12 Amp	D.P.	.13	30 Amp	D.P.	.13

Union Enclosed Fuse Blocks

30 Amp.	Single Pole Main Line	D.P.	\$1.29
30 Amp.	Double Pole Main Line	D.P.	1.67
30 Amp.	Triple Pole Main Line	D.P.	2.30
30 Amp.	Double Pole 1 Branch	D.P.	2.05
30 Amp.	Double Pole 2 Branch	D.P.	2.70
60 Amp.	Single Pole Main Line	D.P.	2.50
60 Amp.	Single Pole Main Line	D.P.	3.96
60 Amp.	Triple Pole Main Line	D.P.	5.61
60 Amp.	Double Pole 1 Branch	D.P.	4.97
60 Amp.	Double Pole 2 Branch	D.P.	9.43

We can furnish these blocks in any size for any combination.

Union Non-Arcing Enclosed Fuses

From 3 to 30 Amps.	in-	D.P.	\$0.90
From 35 to 60 Amps.	in-	D.P.	1.10





SWITCHBOARD INSTRUMENTS

Voltmeters and Ammeters

We show on this page a line of voltmeters and ammeters for switchboard service, or for use where it is necessary to measure the volume of current passing through the lines. For the benefit of those not familiar with electrical terms: Volts means pressure or speed at which the current is flowing. Amperes means volume or quantity of current consumed.

The line of instruments shown are built on the famous D'Arsonval principle, which time and experience has proven the best. The development of this line of meters has been governed by the experience of thousands of users and the requirements in this service. A permanent magnet of circular form is used in all these instruments, this being the best form to prevent leakage of the magnetic flux. Only the best Tungsten steel adaptable for the purpose, properly treated and aged, is used.

The entire moving system is mounted pivotally between two sapphire bearings, highly polished. This takes care of climatic changes.

The essential characteristics of these instruments are:

The very small number of parts.

The parts are designed in a simple and substantial manner. There is an entire absence of complication of parts which might cause the instrument to get out of order or become erratic.

These instruments are the most accurate manufactured and are at the same time the lowest in price.

Switchboard Instruments

Ammeter—Model No. 50
Voltmeter—Model No. 51



Size.....3 3/4 inches diameter
Scale length.....2 inches
Maximum scale divisions.....50

This shows the smallest size switchboard instrument.

Recommended for small switchboards, for storage battery use and charging boards.

Ammeters Model No. 50			Voltmeters Model No. 51		
Cat. No.	Amp. Range	Price	Cat. No.	Volt Range	Price
50-10	0-10	D.P. \$15.00	51-10	0-10	D.P. \$14.60
50-25	0-25	D.P. 16.00	51-30	0-30	D.P. 15.60
50-50	0-50	D.P. 17.00	51-75	0-75	D.P. 16.50
50-100	0-100	D.P. 19.80	51-120	0-120	D.P. 18.90

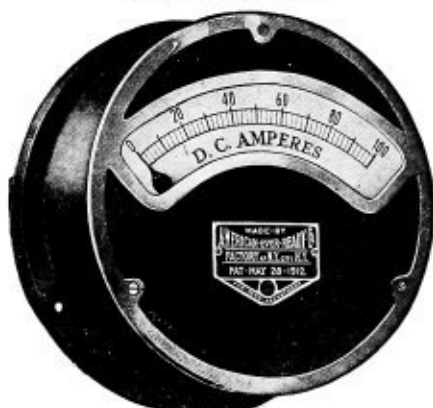
Can also be furnished in 0-150, 0-200, 0-250

Can also be furnished in 0-150 and 0-300.

Standard finish dead black enamel. In nickel, brass, copper or gun metal to order—no extra charge.

Switchboard Instruments

Ammeter—Model No. 56
Voltmeter—Model No. 57



Size 7 1/2 inches Diameter Scale Length 5 inches
Maximum Scale Divisions 150

This shows the largest switchboard instrument we carry. It is used in motor service, or in connection with panels used for charging vehicle batteries.

Ammeters Model No. 56			Voltmeter Model No. 57		
Cat. No.	Amp. Range	Price	Cat. No.	Volt Range	Price
56-50	0-50	D.P. \$26.40	57-50	0-50	D.P. \$25.50
56-100	0-100	D.P. 29.30	57-120	0-120	D.P. 26.40
56-150	0-150	D.P. 30.20	57-250	0-250	D.P. 29.30
56-250	0-250	D.P. 32.00	57-600	0-600	D.P. 32.00

Can be furnished for any range from 0-5 up to 0-1000 and in any division between.

Can be furnished for any range from 0-3 up to 0-750 and in any division between.

Standard finish dead black enamel. Raised parts polished nickel. All nickel, brass or gun metal finish to order—no extra charge.

While we show only direct current instruments on this page, we can furnish alternating current instruments for any amperage or voltage, and in any scale you may desire.

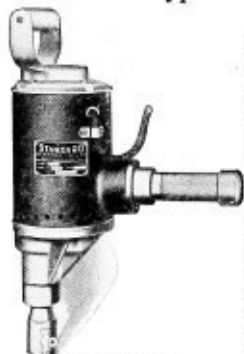
When ordering be sure to specify whether direct or alternating current is used. Give the catalog number and the finish desired.



The GIBSON COMPANY INDIANAPOLIS

ELECTRIC DRILLS AND GRINDERS

Type "U" Electric Drills



Type 2U, 24U

Every garage and repair shop has a constant need for an Electric Drill or Grinder. They are the handiest tools ever invented, they enable the operator to drill and grind in the corners and places where it would be impossible to work with any other kind of drill or grinder. They are economical to operate and the initial cost is small. The line we show is produced by a concern who has been making this class of machinery for many years. These machines are as light as possible consistent with the power developed.

Each machine is guaranteed covering operation material and workmanship for one year from date of purchase.

These grinders and drills are ball-bearing throughout, these bearings are enclosed in dust-proof grease chambers, this prevents chattering and wear. All motors are impregnated with Bakelite, which prevents short-circuits and magnetizing.

Motors are force-ventilated by means of fan mounted on armature shaft which expels warm air that is replaced by cool air.

All grinders are thoroughly tested at the factory under actual working conditions before shipment. All drills are subjected to the same test

Type "U" Universal Drills



Type 3U, 4U.

Note the illustrations on this page covering the series "U" drills. They are the best drills of this type ever offered.

Type "U" drills will operate on Direct or Alternating Current of 60 cycles or less. Either 110 or 220 volts. Variable speed.

Type	Drills in Steel	Reams	Speed R.P.M.	Weight Lbs.	Price D.P.
2U	1/4 in.	....	900	12	\$100.00
24U	5/16 in.	....	800	14	112.00
3U	3/8 in.	1/2 in.	700	17	122.00
4U	1/2 in.	3/4 in.	450	24	135.50

Types 5-U, 6-U, 7-U, 8-U, 10-U

Universal Drills



Type 5U, 6U, 7U, 8U, 10U.

These are the heavier of the "U" series. They have larger capacities and are designed for handling large volumes of work.

Type "U" Drills will operate on Direct or Alternating Current of 60 cycles or less. Either 110 or 220 volts. Variable speed.

Type	Drills in Steel	Reams	Speed R.P.M.	Weight Lbs.	Price D.P.
5U	1/2 in.	5/16 in.	400	26	\$166.50
6U	3/4 in.	1/2 in.	300	28	188.70
7U	1 in.	3/4 in.	250	30	200.00
8U	1 1/4 in.	1 in.	200	35	222.00
10U	1 1/2 in.	1 1/4 in.	175	40	244.20

Type S1 High Power Direct Current Drills

For 110 and 220 Volt—Variable Speed.



Type 3S1, 4S1

Actual service Tests have proved that these drills represent the highest achievement both electrically and mechanically in the development and construction of electric tools. These drills are built on the unit plan, consisting of five simple units. They can be easily disassembled without disturbing any electrical connections.

Type	Drills in Steel	Reams	Speed R.P.M.	Weight Lbs.	Price D.P.
2S1	1/2 in.	....	900	12	\$100.00
24S1	5/16 in.	....	800	14	110.00
3S1	3/8 in.	1/2 in.	700	17	122.10
4S1	1/2 in.	3/4 in.	450	24	144.20
5S1	3/4 in.	7/16 in.	400	26	155.40
6S1	1 in.	1/2 in.	300	28	166.50
7S1	1 1/4 in.	3/4 in.	250	30	188.70
8S1	1 1/2 in.	1 in.	200	35	200.00
10S1	1 3/4 in.	1 1/4 in.	175	40	210.90

Type SA1 High Power Alternating Current Portable Drills

For 110-220 Volt, 60-Cycle Current.

This line of drills is exactly the same in appearance as the S1, but as the S1 will operate on Direct Current only, the SA1 will operate on Alternating Current only.

Type	Drills in Steel	Speed R.P.M.	Weight Lbs.	Price D.P.
2SA1	1/4 in.	700	12	\$104.50
24SA1	5/16 in.	700	14	111.00
3SA1	3/8 in.	600	17	131.00
4SA1	1/2 in.	400	24	155.40
5SA1	3/4 in.	350	26	166.50
6SA1	1 in.	300	28	183.70
7SA1	1 1/4 in.	250	30	200.00

Electric Grinders

Type 3B, 6B, 2Ba, 3Ba for Bench Service



Bench Grinder Type 3B, 6B, 2Ba, 3Ba

This is one of the handiest tools ever placed in the garage. Can be placed on the bench at any desired point and is connected to a lamp socket. One end can be used for buffing, if so desired. These grinders are ball bearing, noiseless and very efficient.

Type B—For direct current only.

Type Ba—For alternating current only.

Type	Weight Lbs.	H.P.	Speed R.P.M.	Size of Wheel	Price D.P.
3B	30	1/4	4000	5x1/2	\$77.70
6B	50	1/2	2800	8x1/2	122.10
2Ba	30	1/6	3400	5x1/2	82.30
3Ba	40	1/4	3400	6x1/2	95.50

Tool Post Grinders

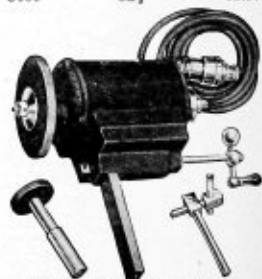
Type 3T, 6T, 2Ta, 3Ta

This Type Grinder is very useful in grinding work in the lathe and for center grinding. They fit into the tool post and, as will be noted by the cut, can be used for grinding the interiors of pieces that would otherwise be machined.

Type T—For direct current only.

Type Ta—For alternating current only.

Type	Weight Lbs.	H.P.	Speed R.P.M.	Size of Wheel	Price D.P.
3T	24	1/4	4000	5x1/2	\$83.50
6T	42	1/2	2800	5x1/2	133.20
2Ta	24	1/6	3400	5x1/2	85.50
3Ta	30	1/4	3400	6x1/2	109.00



Type 3T, 6T, 2Ta, 3Ta Tool Post Grinder

When ordering any of the tools shown on this page it is necessary that you give—Voltage. Whether direct or alternating current. Number of cycles. Whether single, two or three phase.



MACHINE TOOLS

Grinding Machines Nos. 1, 2 and 3



This is one of the best line of Grinding Machines on the market and represents the highest possible value for the investment. These machines have self-oiling bearings, 40 carbon steel arbors and pulleys pressed on instead of screwed on, as is usual with most other grinders. The fast collars are all carefully faced and arbors are carefully straightened. The threads are square, of coarse pitch. The bearings are lined with first quality babbit.

Prices Nos. 1, 2 and 3 Grinders.
Rests are regularly furnished on these sizes.

	Machine No. 1	Machine No. 2	Machine No. 3
Head with Plain Pulley.....	\$8.88	\$11.65	\$17.20
Column	8.88	11.10	15.00
Countershaft	7.77	10.00	12.75
Complete	25.50	32.75	45.00
Extra for T. & L. Pulley.....	3.35	3.90	3.90
Extra for Wheel Guards, Pair 6.06 & 7.77	6.06	7.77	10.00
Wheels Recommended, inches. 6x1 1/2 or 8x1	10x1 1/2	12x2	
Diameter Between Collars, ins.	8	10	12
Weight of Head, lbs.	16	25	45
Weight of Column, lbs.	45	65	95
Weight of Countershaft, lbs. ...	35	45	55
Weight Complete Machine, lbs.	96	135	195

No. "O" Grinding Machine

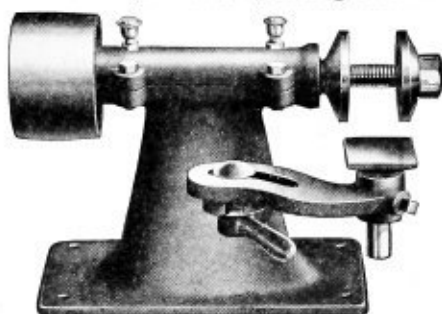


The No. "O" is the smallest of this line. It has the same excellent features as the Nos. 1, 2 and 3. It can be furnished with tight and loose pulleys, column and countershaft.

Price No. "O" Machine.
Rests Not Included.

Head with Plain Pulley	D.P. \$7.77
Column	D.P. 8.88
Countershaft	D.P. 9.77
Complete	D.P. 24.40
Extra for T. & L. Pulley.....	D.P. 3.35
Extra for Wheel Guards Per Pair.....	6" and 8"
Wheels Recommended, inches	6x1 1/2 or 8x1
Diameter Between Collars, inches	8
Weight of Head, lbs.	12
Weight of Column, lbs.	45
Weight of Countershaft, lbs.	35
Weight Complete Machine, lbs.	92

No. 10 Single Head Grinding Machine

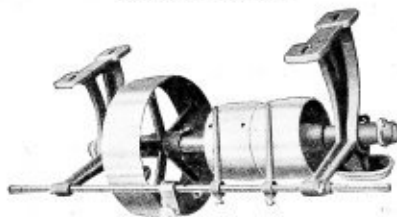


This little tool is one of the best ever manufactured. It fills the wants of those small garages and repair shops not having a large volume of work. Note the very long bearing, the system of oiling and the convenient rest. This machine can be furnished with tight and loose pulleys, column and countershaft.

Price No. 10 Machine.
Rests Included in This Price.

No. Machine	10
Head with Plain Pulley	D.P. \$8.88
Column	D.P. 14.45
Countershaft	D.P. 10.00
Complete	D.P. 33.30
Extra for T. & L. Pulley	D.P. 3.90
Wheels Recommended, inches	10x2 or 12x1
Diameter Between Collars, inches	8
Weight of Head, lbs.	25
Weight of Column, lbs.	95
Weight of Countershaft, lbs.	55
Weight Complete Machine, lbs.	175

Countershafts



The above cut illustrates the countershafts furnished with grinders shown on this page. Prices are listed under each machine. They can also be furnished separately for use in connection with other tools. They are well and substantially made, and have 40 carbon steel shafts.

Wheel Guard

Some states have enacted laws requiring guards over all types of grinding wheels. We illustrate our open type wheel guard, which we know to be the most simple and effective on the market. It consists of a steel channel rolled to a segment of a circle as shown. This is very stiff and unbreakable, and is further reinforced by a heavy cast-iron bracket riveted to the inside flange of the channel. This guard is light, convenient and easy to adjust backward, so that the lips of the guard can always be kept close to the wheel, out of the operator's way, eliminating the danger of dropping material between the wheel and the guard. Prices shown under the various machines.

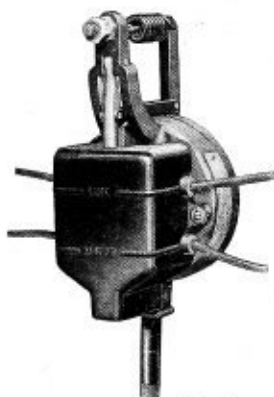




The GIBSON COMPANY INDIANAPOLIS

SWITCHES, SOLDERING IRONS, MAGNETIZERS AND RECHARGERS

Automatic Electric Pressure Controlled Switch



For Motor Driven Air Compressors

This Switch is one of the greatest labor saving devices ever invented. It is used in connection with Motor Driven Air Compressors. This Switch prevents the possibility of getting too much pressure in the tank, and also insures a constant pressure and volume of air at all times. Under ordinary circumstances, it is necessary for the garage man to watch the gauge on his tank to tell when he has sufficient pressure, and then throw off the current. In like manner when the tank gets low he must turn on the switch. Very often all the reserve pressure is exhausted before it is discovered and loss of time is certain. With this Automatic Electric Pressure Controlled Switch, your motor is started when the pressure falls to a certain point and is automatically shut off when it reaches the desired tank pressure. For instance you can have it adjusted to start the motor when the pressure falls to 100 pounds and have it shut off when the pressure reaches 150 pounds—or it can be set to handle a maximum variation of five pounds—a any combination of pressures can be had.

Will operate on any motor of 3-HP or less.

Price D.P. \$55.50

Electric Soldering Irons

These Colorized Soldering Irons are one of the most useful and convenient tools on our list of shop equipment. They are connected direct to your lighting circuit by means of a lamp cord and socket. They dispense entirely with the necessity for the usual gasoline furnace or fire pot. All that is necessary in the operation of these soldering irons is to turn on the switch and in a very short time you have a constant, steady heat. There is no trouble from getting it too hot or the usual difficulty from cooling off and having to reheat as is the case where fire pots are used. They have a cool wire wound handle.



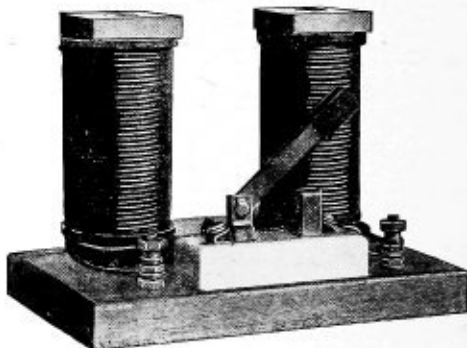
We recommend one of these for every garage in America. This is one of those prime necessities.

WEIGHT

Cat. No.	Diam. of Tip in In.	Tip	Complete in Oz.	Watts
153506	1/2	2 oz.	25	75—D.P. \$ 7.92
153507	3/4	1/2 lb.	28	100—D.P. 8.32
153508	1	1 lb.	33	150—D.P. 8.70
153509	1 1/4	2 lb.	42 1/2	200—D.P. 10.00
153510	1 1/2	3 lb.	54	275—D.P. 11.25

95 to 125 volts only.

Magnetizer



For Magnetizing Magneto Magnets

This Magnetizer is a simple inexpensive device that is needed in every garage. It is used for remagnetizing or charging the magnets used on all types of magnetos.

It consists of a powerful electro-magnet of superior design mounted on a neat wooden base on which a switch and two binding posts are attached, as shown in the illustration.

A well charged six-volt storage battery is connected to the binding posts and on closing the switch the Magnetizer becomes a powerful magnet, and will recharge any permanent magnet used on magnetos.

Garages will find a need for this in overhauling and repairing ignition systems. It will put new life and vigor into old magnetos.

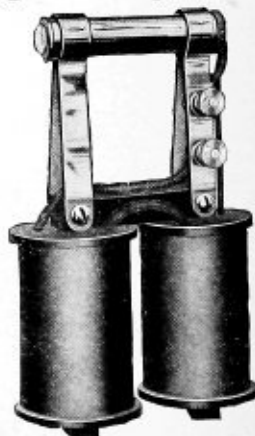
This Magnetizer weighs 8 pounds.
Size, 7 x 4 1/2 x 5 1/4 inches.

Price D.P. \$16.65

Fitted with Special Attachment for Ford Magnetos, complete D.P. \$18.90

Benjamin Ford Magnet Recharger

This device is designed for re-energizing the permanent magnets on the Ford magneto. It may be operated from five or six dry cells in series, or an ordinary six-volt storage battery. Economical in current consumption and simple to operate. A large percentage of the ignition troubles on the Ford car are due to the weakening or demagnetizing of the permanent magnets on the magneto, which results in a much lower voltage output. This is more noticeable and annoying at low speed.



By the use of this recharger on magnetos in this condition, the latter can be strengthened to such an extent that nearly full efficiency is again obtained.

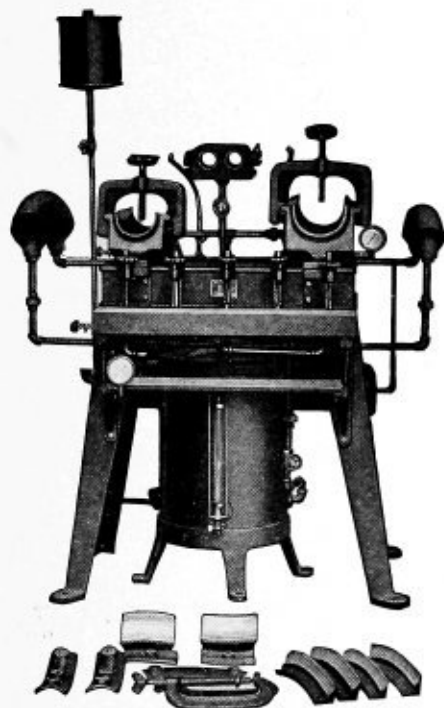
Price

No. 8206A, each \$9.00
Each... D.P. \$15.00



VULCANIZERS

Hill-Stage Heavy Duty Vulcanizer



Improved Type No. 5A

Here is the ideal "plant" type Vulcanizer for the garage or repair shop doing a general line of vulcanizing. It is built by an expert in that line and every possible condition that might arise in the vulcanizing industry has been provided for. Its capacity, as you will note below, is far above any plant of equal size on the market. It performs its work quickly and in a highly satisfactory manner.

This machine has a capacity of five casings, five tubes, one motorcycle tire, two bicycle tires, in one heat. It will handle casings up to 5 inches, tubes of all sizes, motorcycle tires all sizes, bicycle tires 1½ inches and 1¾ inches.

This vulcanizer is wholly self-contained. Has jacketed boiler of large capacity, with either gas or gasoline burner.

Equipment includes two tread molds for casings, finely machined, of good depth and of proper thickness to insure a perfect cure; two inside molds; one large side mold; bead molds, both clincher and Dunlop; surface-heating motorcycle molds and steam-jacketed bicycle molds; also expansion tank for air. Only four sizes of air bags required with this plant as against twice that number on most machines of like capacity. On account of its compactness and large capacity and low cost of operating this is without exception the best money-making plant on the market.

Guarantee—Each and every plant is guaranteed to do first-class work under proper conditions and is warranted covering material and workmanship.

All machines are tested before leaving the factory and are shipped set up. Net shipping weight, 675 pounds.

Price.....D.P. \$300.00

N. B.—This plant may be enlarged at any time by the use of patent lengthening bars, and at a very nominal cost. Be sure to specify whether gas or gasoline type is desired.

Hill-Stage Revolving Tube Vulcanizer



Improved Type No. 3A

This is an extraordinary plant—something every vulcanizing shop has been looking for. It is a Special Revolving Tube Vulcanizer of large capacity and with every possible convenience for quick handling of the work.

This machine carries a practical porcupine boiler, which at all times insures a rapid and uniform heat.

Notice the spider or tube carrier at the top of the central post. This post and carrier revolves, permitting the operator to handle his work without changing his position.

The capacity is extremely large—six automobile tubes at once or eight motorcycle and bicycle tubes at once.

This machine can be operated with gas or gasoline or with steam direct from boiler. The burner used is of large capacity, can be throttled down and is under complete control at all times.

Equipment includes steam gauge and safety valve. When ordering be sure to specify whether gas or gasoline type is desired.

Price complete as shown above.....D.P. \$55.50

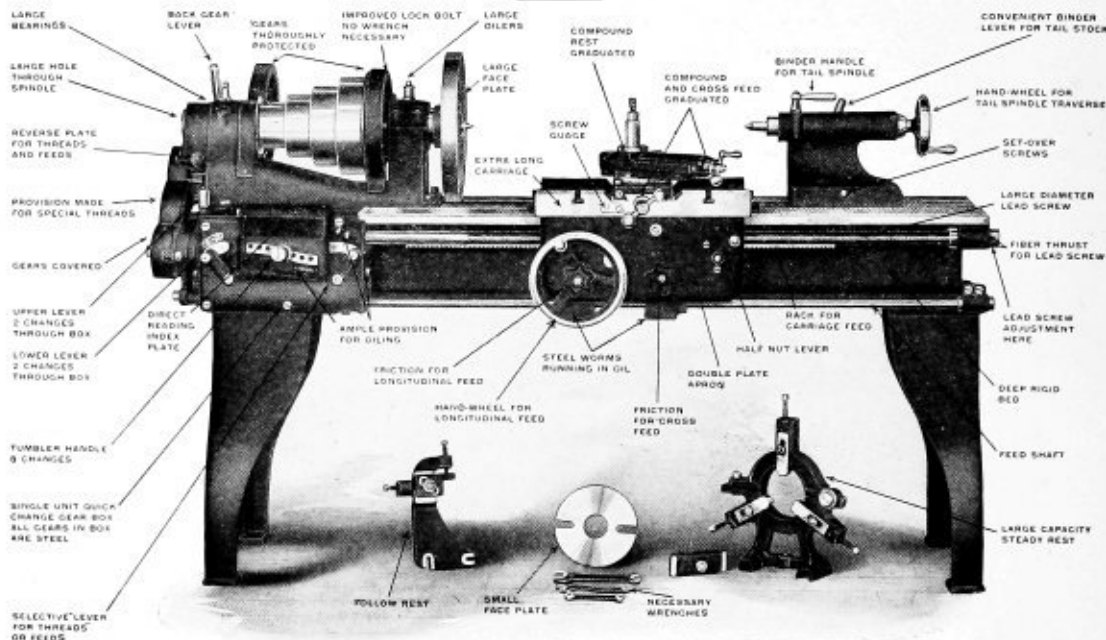
The necessity for an up-to-date vulcanizing plant in every town is reflected in the large number of these equipments we are distributing. Vulcanizing is one of the best paying industries ever developed. The growing number of automobiles on the road and the fact that every tire at some time or other needs vulcanizing shows the need for a plant of the types shown here in your city.

WHY NOT BE THE PIONEER? INSTALL A VULCANIZING PLANT AND ESTABLISH A PERMANENT BUSINESS.



The GIBSON COMPANY INDIANAPOLIS

MACHINE TOOLS—LATHES



Manufacturers of Machine Tools have recognized the necessity for producing a Lathe for Garage and Repair Service, with the result that within the past few years a large number of tools of this type have been offered the trade for this class of work. Some of these machines are simply "worked over" models that have been made to answer the varying need of the Automobile Repair Shop. In very few cases have the tools been designed for handling the different kinds of work usual to the Garage, and the result has been that the Garage Man has been compelled to take that which has been offered him.

We have been handling Machine Tools for several years, and have had an opportunity to determine the requirements of the Automobile Garage and Repair Shop. We are familiar with the class of work they have to perform, and with this knowledge at hand, we had our engineers inspect the many types of machines manufactured for this trade. We found that the product of the Rockford Lathe and Drill Company came nearer meeting the variable demands of the Automobile Garage and Repair Shop than any other tool offered for this purpose.

These Lathes are manufactured by Lathe specialists. They are designed and built along the most modern engineering lines. Their construction meets the rigid requirements of the public garage and machine shop. A careful reference to the specifications recited below will convince you of their adaptability to your business. The raw materials are selected from the best, and these materials are all subjected to a chemical and physical analysis, and nothing enters into the construction of these machines that does not show an exceptionally high tensile strength. Workmanship is of the highest character. Assembling is done by experts, and the finished product is subjected to a series of tests that would ruin most tools of the same size and type.

Your attention is directed to the extreme ruggedness of all parts; most machine tool builders slight their product by cutting down on materials, which weakens the entire structure and shortens the life of the tools. The Rockford line is extra heavy construction throughout, but the weight is so well apportioned and distributed that the most delicate work can be accomplished. The machines are neat in appearance and the finish is the finest ever placed on any line of lathes.

We recommend the Rockford Lathes for Garage and Automobile Repair Service as being the highest grade possible to construct. Every tool is guaranteed covering operation, material and workmanship. This guarantee of the manufacturer is supplemented by our Guarantee as their Distributor.

Specifications

Beds—Are of deep section with wide cross braces which together with proper distribution of metal eliminates all vibration under the varying duty for which these lathes are designed. Carriages are drilled so that taper attachment can be applied at any time.

Headstock—Are massive and firmly bolted to the beds. Bearings are exceptionally large, of a special composition metal, are carefully machined and hand scraped to fit spindle. Spindle is of high carbon steel, accurately ground and carefully tested for flaws.

Tailstock—Is well proportioned and of the off-set type which allows the compound rest to set parallel to the bed, and is provided with set-over for turning tapers. The improved method of clamping insures the tailstock being kept in position without slipping.

Carriage—Is especially heavy with extra wide bridge which permits a heavy cut without chatter. Has an extremely long bearing and is provided with self-oiling felt wipers. The thread-cutting indicator which can be disengaged when not in use enables the operator to catch any pitch of thread without reversing the lathe, permitting both countershaft belts to run forward, giving 18 spindle speeds.

Apron—Apron is of heavy design, with double bearing for all shafts, which is a very essential feature for a variable duty lathe. All gears are of wide face and coarse pitch, and being of high grade alloy steel, withstand the constant strain without breakage and with the least wear. All feeds are reversed in apron and interlock with lead screw nut, making it impossible to engage feeds and lead screw at the same time.

Gear Box—When furnished as standard (without the quick-change mechanism) three quick changes of feed are obtained for each change of gearing through Sliding Steel Gears and Hardened Steel Clutches which give a powerful drive and an unlimited range of feed for all classes of work—a wonderful improvement over belt-driven feeds. This gear box simplifies thread cutting, all pitches being obtained without the troublesome compounding of gears which has always been the greatest disadvantage of belt-driven hand change gear lathes. Remember this style gear box is standard equipment—No extra charge.

Quick Change Gear Mechanism—These lathes can also be furnished with a quick change Gear Mechanism as shown on the opposite page. This is one of the simplest quick change mechanisms ever devised. All gears are wide face, of coarse pitch, cut from solid steel (not cast). Index plate gives forty standard changes of feeds and threads, obtained through sliding steel gears and hardened steel clutches controlled by two large convenient handles in connection with tumbler. Lead screw and feed shaft operate independently, either being engaged by lever on front of box.

Countershaft—Double friction self-oiling countershaft furnished with all lathes.

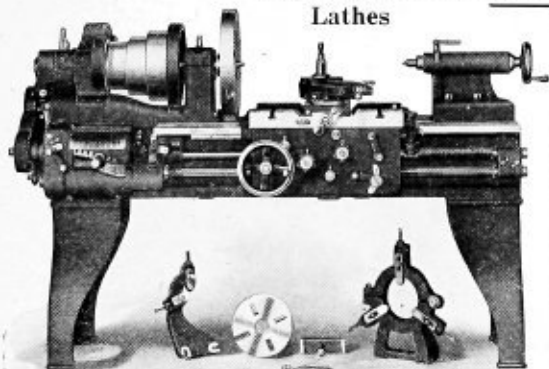
Regular Equipment—Includes steady and follow rests, large and small face plates, wrenches and countershaft.

F-I-n-a-l-l-y—Buy a Rockford and be assured that you have the best lathe built for your work. They give double service.



MACHINE TOOLS—LATHES—Continued

Lathes



17-in. x 6-ft. Double Back Geared Engine Lathe Equipped with Quick Change Mechanism

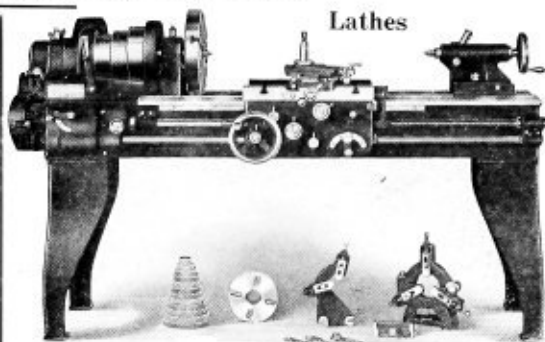
This is the best heavy duty lathe manufactured; it has every desirable feature known to tools of this class. Every detail in design has been carefully considered, and there is no other lathe of this size built that will do the work that can be handled on this machine. Please note the specifications given below; the heavy bearings; the extra large piece it will swing; a 38-inch automobile wheel can be chucked on this tool; for particular specifications covering details of construction and design refer to the opposite page. This tool is the masterpiece of the lathe builder. It is particularly recommended to the garage or repair shop desiring a high grade dependable tool capable of taking care of any work that may come into their shop.

Cut shows machine equipped with quick change mechanism. Can also be furnished with regular gear change mechanism.

Lathe Dimensions and Prices

Standard Lathe with Compound Rest.....	D.P.	\$1,160.00
Lathe with Quick Change Gears.....	D.P.	1,272.00
Extra 2 ft. add. length of Bed.....	D.P.	66.90
Taper Attachment.....	D.P.	159.84
Draw-in Attachment with one Collet.....	D.P.	98.40
Extra for each Collet.....	D.P.	10.68
Turret on Carriage.....	D.P.	213.12
Turret on Shears.....	D.P.	439.56
Power Feed to Turret on Shears.....	D.P.	159.84
Fitting Chuck and Plate.....	D.P.	13.32
Swings over Ways.....	19 1/2	inches
Swings over Carriage.....	11 1/2	inches
Distance between Centers 6-ft. Bed.....	23	inches
Size of Front Bearing.....	2 1/2 x 5	inches
Size of Back Bearing.....	2 1/2 x 4	inches
Diameter of Hole in Spindle.....	1 1/2	inches
Centers conform to Morse Taper.....	No. 4	
Diameter of Nose of Spindle.....	2 1/2	inches
Number of Threads on Spindle.....	6	per inch
Diameter of largest step, Cone Pulley.....	10 1/2	inches
Diameter of smallest step, Cone Pulley.....	7 1/2	inches
Width of Belt on Cones.....	3	inches
Number of Steps on Cone Pulley.....	3	
Ratio of Single Back Gears.....	11 13	to 1
Ratio of Double Back Gears.....	3 50	to 1
Diameter of Lead Screw.....	1 1/4	inches
Threads on Lead Screw.....	6	per inch
Threads, will cut per inch, Standard.....	2	to 96
Feeds for each gear change, Standard.....	3	
Threads, will cut per inch, Quick Change.....	3	to 92
Diameter of Tail Stock Spindle.....	2 1/2	inches
Length of Carriage.....	26 1/4	inches
Size of Cutting Tools.....	5/8 x 1 1/4	inches
Size of Friction Pulleys on Countershaft.....	12 x 4	inches
Speed of Countershaft.....	200 and 250	
Net Weight, 6-ft. Bed.....	Ap.	2450 lbs.
Shipping Weight.....	Ap.	2650 lbs.
Weight, extra 2 ft. of Bed.....	Ap.	275 lbs.

Lathes



"Economy" 13-in. x 6-ft. and 14-in. x 6-ft. Double Back Geared Engine Lathe with Standard Gear Box

This lathe is especially designed to meet the modern demand for a small heavy duty machine of sufficient weight and power to handle all work of small and medium character, and to do precision machining. Being very high grade and extremely accurate, it is particularly adaptable to the tool room, garage and repair shop.

The argument is sometimes advanced by purchasers buying machine tools that a certain machine, although it is not of the highest quality, still is good enough for their work. This is a mistake! There is no machine work which is produced for profit that can be economically done on an inferior machine. Machine tools are not purchased every day, and the prospective purchaser should bear in mind that while a machine might do good work while new, what he must have and should insist on is continuous service for many years and absolute accuracy without constant lathe repairs for a period commensurate with the investm...t.

Lathe Dimensions and Prices

	13-in. x 6-ft.	14-in. x 6-ft.
Standard Lathe with Compound Rest.....	D.P. \$772.80	D.P. \$878.40
Lathe with Quick Change Gears.....	D.P. 864.00	D.P. 978.00
Extra 2 ft. add. length of Bed.....	D.P. 61.32	D.P. 66.60
Taper Attachment.....	D.P. 146.64	D.P. 146.64
Draw-in Attachment with one Collet.....	D.P. 93.24	D.P. 93.24
Extra for each Collet.....	D.P. 10.66	D.P. 10.66
Turret on Carriage.....	D.P. 159.84	D.P. 159.84
Turret on Shears.....	D.P. 280.80	D.P. 280.80
Power Feed to Turret on Shears.....	D.P. 133.20	D.P. 133.20
Fitting Chuck and Plate.....	D.P. 13.32	D.P. 13.32
Swings over Ways.....	14 1/2 in.	16 1/2 in.
Swings over Carriage.....	8 in.	9 1/2 in.
Distance between Centers 6-ft. Bed.....	37 in.	36 in.
Size of Front Bearing.....	2 1/2 x 4 in.	2 1/2 x 4 in.
Size of Back Bearing.....	1 1/2 x 3 in.	1 1/2 x 3 in.
Diameter of Hole in Spindle.....	1 1/2	inches
Centers Conform to Morse Taper.....	No. 3	
Diameter of Nose of Spindle.....	2 1/2	inches
Number of Threads on Spindle.....	6	per inch
Diam. of largest step, Cone Pulley.....	8 1/2	inches
Diam. of smallest step, Cone Pulley.....	6 in.	4 1/2 in.
Width of Belt on Cones.....	2 1/2	inches
Number of Steps on Cone Pulley.....	3	4
Ratio of Single Back Gears.....	9.07 to 1	7 1/2 to 1
Ratio of Double Back Gears.....	3.42 to 1	—
Diameter of Lead Screw.....	1 1/4	inches
Threads on Lead Screw.....	6	per inch
Threads, will cut per inch, Standard.....	4 to 46	3 to 96
Feeds for each gear change, Standard.....	3	
Threads will cut per inch, Quick Change.....	4 to 56	3 to 92
Diameter of Tail Stock Spindle.....	1 1/2	inches
Length of Carriage.....	19 1/2	inches
Size of Cutting Tools.....	1/2 x 1 in.	5/8 x 1 1/4 in.
Size of Friction Pulleys on Countershaft.....	10 x 3 1/4	inches
Speed of Countershaft.....	225 and 275	150 and 200
Net Weight, 6-ft. Bed.....	1425 lbs.	1700 lbs.
Shipping Weight.....	Ap. 1600 lbs.	Ap. 1850 lbs.
Weight, extra 2 ft. of Bed.....	Ap. 180 lbs.	240 lbs.

On account of the extraordinary conditions due to the European conflict, all prices are subject to withdrawal without notice and delivery cannot be guaranteed.

BUY "FALCONS" FIRST—BECAUSE "FALCONS" LAST



MACHINE TOOLS

17-Inch Stationary Head Drill Press



Every garage and repair shop has constant need for an efficient, sturdy drill press; one on which precision or heavy drilling can be performed. The 17-Inch Stationary Head Drill illustrated here has been designed to meet this long felt want. It is a strong and plain type of drill of liberal dimensions and generous capacity. All unnecessary devices frequently found in machines of greater range, but no greater capacity, have been eliminated, making this drill especially well adapted for quick and accurate work usual to garages and repair shops. It is particularly adapted to high speed work.

The column is very massive and closely fitted to the oil pan

base. The top and bottom cones are large. Bevel driven gears are planed by a special process, and the spindle is of high carbon steel forged and ground, and has ball-bearing thrust. The spindle bearings are unusually broad, also the column bearing for table support. Can also be furnished with combined wheel and lever feed.

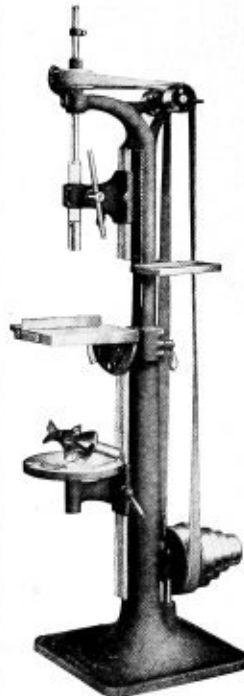
This excellent drill is the product of the Rockford Lathe and Drill Company and has the same excellent workmanship, material and design that are incorporated in the lathes described on the preceding pages of this book.

Buy a "ROCKFORD" and be satisfied.

Drill Dimensions and Prices, No. 325.

Price of machine.....	D.P.	\$153.30
Number of spindles.....	1	
Swing.....	17	inches
Distance from column to center of spindle.....	8½	inches
Maximum distance, spindle to table.....	26	inches
Diameter of column.....	5	inches
Size of square or round table, diameter.....	15	inches
Vertical adjustment of head.....	9	inches
Vertical travel of spindle.....	7½	inches
Diameter of spindle.....	1½	inches
Diameter of sleeve.....	2	inches
Hole in spindle, Morse taper.....	3	inches
Diameter of large step on cone.....	9	inches
Diameter of small step on cone.....	4	inches
Width of belt on cone pulleys.....	2	inches
Size of tight and loose pulleys.....	9x2½	inches
Speed of tight and loose pulleys.....	300	
Capacity of machine.....	1	inch
Net weight, pounds.....	500	
Shipping weight, pounds.....	600	

No. 205 Sensitive Drill



This is an excellent little tool for small work. It can be used for drilling the ends of very long pieces, such as axles, propeller shafts, engine shafts, etc. It is sturdily built and has every convenience demanded in a tool of this type.

This drill is equipped with a square or upper table which swings around the column and can be tilted to any desired angle, while the round or lower table is adjustable vertically and fitted with a new and convenient centering device, a combination of three centers in one. The square table also has bracket or gauge for angular drilling, and is provided with stop pin and locking bolt.

The spindle is of high carbon steel, forged and ground, with ball-bearing thrust and is balanced by weight and chain.

Driving cone has four steps of liberal size, and the lower cone is provided with vertical adjustment to take up slackness of belt.

Stop collar at top of spindle will be found very convenient for duplicate work, or for drilling to fixed depths.

A separate countershaft is furnished with each machine, but no belt.

This is another of the excellent "ROCKFORD" products, and a tool worthy of any shop.

Drill Dimensions and Prices, No. 205

Price of machine.....	D.P.	\$153.30
Number of spindles.....	1	
Swing.....	14	inches
Distance from column to center of spindle.....	7	inches
Maximum distance, spindle to table.....	42	inches
Size of square or round table.....	11x11	inches
Vertical adjustment of head.....	9	inches
Vertical travel of spindle.....	5½	inches
Diameter of spindle.....	¾	inch
Diameter of sleeve.....	1½	inches
Hole in spindle, Morse taper.....	2	inches
Diameter of large step on cone.....	5½	inches
Diameter of small step on cone.....	4½	inches
Width of belt on cone pulley.....	1½	inches
Size of tight and loose pulleys.....	8x2½	inches
Speed of tight and loose pulleys.....	450	
Capacity of machine.....	¾	inch
Net weight, pounds.....	375	
Shipping weight, pounds.....	395	

On Account of the Extraordinary Conditions Due to the European Conflict All Prices Are Subject to Withdrawal Without Notice and Delivery Cannot be Guaranteed.

FOR REPAIR SHOP ECONOMY INSTALL G. E. MOTORS



CHAMPION POWER DRILLS

Champion Sensitive Bench Drill No. 50

For Light and Rapid Drilling



The Champion Sensitive Bench Drill is exceedingly substantial, strong and well built, and is particularly adapted for light, accurate and rapid drilling, in garages, pattern and machine shops. This drill is driven exclusively by belt and with the aid of cone pulleys two separate and distinct speeds can be furnished. The counter-shaft is furnished with a belt shifter on the tight and loose pulley and the feed lever can be returned without affecting the position of the bit by a patented automatic device in the feed lever hub. This drill is made in the best possible manner and guaranteed in every respect.

SPECIFICATIONS
 Double Flange Top Cone.
 Table swinging 180 degrees horizontally.
 End Thrust Ball Bearing.

Adjustable Spindle Stop.
 Greatest distance from spindle to table $7\frac{1}{2}$ inches.
 Up and down movement of the spindle 23 inches.
 Up and down movement of the table 7 inches.
 Diameter of table 8 inches.
 Drills to center of 10-inch circle.
 Drilling capacity $\frac{3}{4}$ inch.
 Size of tight and loose pulley $4 \times 1\frac{1}{2}$ inches.
 Speed of driving pulley 550 R. P. M.
 Extreme height 273 inches.
 Weight 65 pounds, fitted complete with Star Chuck. D.P. \$33.33

The Champion 14-Inch Upright Power Drill



The Champion 14-Inch Upright Power Drill is a gear-driven drill of the best and most improved construction. It combines the simplicity, speed and ease of operation of a sensitive drill with extreme power not usually found on drills of this kind.

All beveled gears are planed, guaranteeing a perfect and smooth running drill. The bearings are large and powerful, the upper bearing being split to take up wear when necessary. The spindle made of high carbon steel is graduated, ground and fitted throughout with ball bearings, and is counterbalanced by a weight in the hollow column.

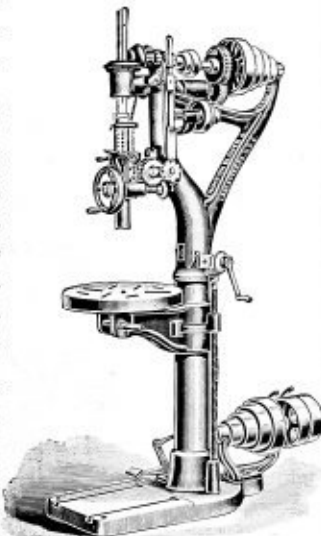
The table is tilting and can be clamped permanently at any angle and with the angular bracket makes it very convenient for complicated work. It has a screw for raising and lowering the table, which is quick acting, the table remaining firmly where it is placed. All gears are carefully guarded.

Height of Drill.....	69 inches
Distance between table and spindle.....	34 inches
Distance between spindle and base.....	45 inches
Distance from column to center of spindle.....	$7\frac{1}{4}$ inches
Diameter of column.....	4 inches
Traverse of table on column.....	27 inches
Size of table.....	11 x 11 inches
Diameter of spindle.....	$\frac{3}{4}$ inch
Traverse of spindle.....	$6\frac{1}{2}$ inches
Size of tight and loose pulleys.....	$7 \times 2\frac{1}{2}$ inches
Size of cone pulley (four steps) $7\frac{1}{2}$, $6\frac{3}{8}$, $5\frac{1}{2}$, $3\frac{1}{2} \times 1\frac{1}{2}$ face	
Speed of driving pulleys.....	225 R. P. M.
Floor space.....	16 x 18 inches
Capacity.....	$\frac{3}{4}$ inch
Horsepower required.....	1 H. P.
Hole in the spindle bored to fit No. 2 Morse Taper.	

The Champion 14-Inch Upright Power Drill, complete; weight, crated, 4,901 lbs. D.P. \$111.11

20-Inch Back-Gear Upright Power Drill

Height of drill75 in.
 Distance between table and spindle37 in.
 Distance between spindle and base42 1/2 in.
 Distance from column to center of spindle101 in.
 Diameter of column.....5 1/2 in.
 Traverse of table on column18 1/2 in.
 Diameter of table16 in.
 Diameter of spindle 1 1/2 in.
 Traverse of spindle 8 in.
 Size of tight and loose pulleys8x2 1/2 in.
 Size of cone pulleys (4 step) 4, 5 1/2, 7 1/2, 9x2 in. face
 Speed of driving pulleys300 R. P. M.
 Floor space required25x35 in.
 Horse power required 1
 Weight—net475
 Crated weight800
 Hole in spindle bored to fit Morse taper No. 4.



The 20-Inch Back Geared Power Drill is a most thoroughly modern and up-to-date Power Drill. It drills with perfect accuracy from the smallest hole up to $1\frac{1}{2}$ inch. The change from a plain drill to a back geared drill is done in an instant. Has eight speeds with three feeds—power feed, hand wheel feed, and lever feed. The spindle is counterbalanced; has automatic stop with quick return lever. Has quick action screw for raising and lowering the table.

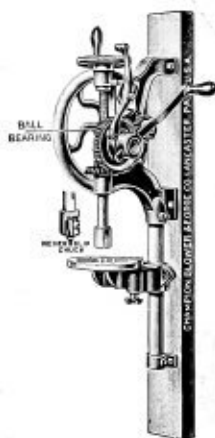
Champion 20" Back Geared Upright Power Drill complete, less belts, weight 185 pounds, eachD.P. \$187.77
 Champion 20" Upright Power Drill with lever and wheel feed, only not back-geared, complete less belts, weight 770 pounds, eachD.P. 144.44



POST DRILLS

The Champion No. 101 Self-Feed Blacksmith Post Drill

Made With Ball Bearings



No. 101 Champion Post Drill is built to furnish an automatic self-feed drill at the lowest price possible. It has back gears and is a nicely made little drill with slotted lathe-turned table. It will drill to the center of a 12-inch circle. It has one speed for the crank. The spindle is $\frac{3}{8}$ -inch in diameter. It drills holes up to $\frac{3}{4}$ -inch and has an up-and-down run of 3 inches. The spindle is bored like Never Slip Chuck for $\frac{1}{2}$ -inch straight shank drills, or when especially ordered, $\frac{5}{8}$ or $41/64$.

No. 101 Champion Self-Feed Blacksmith Post Drill, weight 80 lbs. D.P. \$12.00

The Champion No. 91 Self-Feed Blacksmith Post Drill

Made With Ball Bearings

No. 91 Champion Self-Feed Blacksmith Post Drill is built with ball bearings with cups and cones made from tool steel and highly finished, which will save from 20 to 50 per cent. in power, depending upon the size of the hole being bored; the larger the hole the more power saved. It is a strong, stout-proportioned drill for a drill of this size. It has full back gears. The bearings of this drill are all ground from the solid metal and is built in the same perfect mechanical manner as the better grades. The slotted table is lathe turned. Drills to center of 14 $\frac{1}{2}$ -inch circle. Bores holes up to 1 inch. Spindle 1 $\frac{1}{2}$ -inch in diameter. Has an up-and-down run of 3 inches. Spindle is bored like Never Slip Chuck to take in $\frac{1}{2}$ -inch straight shank drill bits. If specially ordered will be bored to take in $\frac{5}{8}$ -inch or $41/64$ -inch straight shank bits.

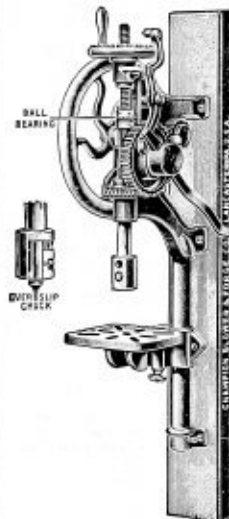


No. 91 Champion Self-Feed Ball Bearing Blacksmith Post Drill, weight 100 lbs. D.P. \$17.77

Extra for power D.P. 5.55

The Champion No. 95 $\frac{1}{2}$ Self-Feed Iron Back Three-Geared Post Drill

Made With Ball Bearings



No. 95 $\frac{1}{2}$ Champion Self-Feed Ball Bearing, Iron Back, Three-Geared Post Drill is stocky in design, equipped with iron back, making it extremely rigid, and firm in connection with doing heavier work.

It has three gears to give the same turning of the crank to the second speed as the first.

It has two speeds that turn the same direction.

All bearings are ground out of the solid metal.

No babbitt used on this drill.

Drills to the center of a 15-inch circle.

Drills from 0 to 1 $\frac{1}{2}$ -inch hole.

The End Thrust Ball Bearings save 20 to 50 per cent. in power and are made from the highest grade of lathe-turned tool steel.

Has automatic self-feed.

It has lathe-turned and slotted table.

Spindle 1 $\frac{1}{2}$ inch in diameter, has up-and-down run of three inches.

Champion Drills are all machine-jigged, therefore all parts are absolutely standard and interchangeable.

Spindle is bored like Champion "Patented" Never Slip Chuck to take in $\frac{1}{2}$ -inch Straight Shank Drill Bits. If especially ordered, will be bored to take in $\frac{5}{8}$ -inch or $41/64$ -inch.

No. 95 $\frac{1}{2}$ Champion Self-Feed Iron Back, Back Geared, Ball Bearing Post Drill D.P. \$24.44

Extra for tight and loose pulley 6-inch diameter, 2-inch face for power D.P. \$5.55

The Champion No. 97 Hand-Feed and Quick-Return Self-Feed Blacksmith Post Drill

Made With Ball Bearings

No. 97 Champion Automatic Self-Feed and Propeller Wheel Hand Feed and Quick Return Tool with both speeds is a simple and very substantially built drill.

It has quick-acting features and points of simplicity never found on a drill of this price before.

It has End Thrust Ball Bearings.

All Bearings are ground out of the solid metal.

No babbitt used on this Drill.

Drills to the center of 10 $\frac{1}{2}$ -inch circle.

Drills holes from 0 to 1 $\frac{1}{2}$ inches.

The End Thrust Ball Bearings save 20 to 50 per cent. in power and are made from the highest grade of lathe-turned tool steel.

It has lathe-turned and slotted table.

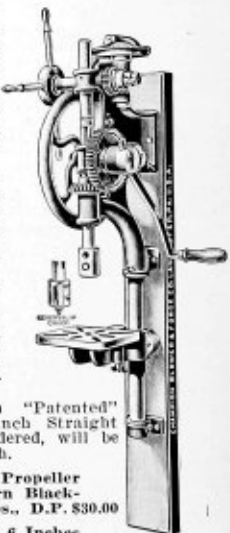
Spindle 1 $\frac{1}{2}$ inches in diameter; has up-and-down run of 5 $\frac{1}{2}$ inches.

Champion Drills are all machine-jigged, therefore all parts are absolutely standard and interchangeable.

Spindle bored like Champion "Patented" Never Slip Chuck to take in $\frac{1}{2}$ -inch Straight Shank Drill Bits. If especially ordered, will be bored to take in $\frac{5}{8}$ -inch or $41/64$ -inch.

No. 97 Champion Self-Feed and Propeller Hand Feed Wheel Quick Return Blacksmith Post Drill, weight 100 lbs., D.P. \$30.00

Extra for Tight and Loose Pulleys, 6 Inches in diameter, and 2-in. face for power D.P. \$5.55

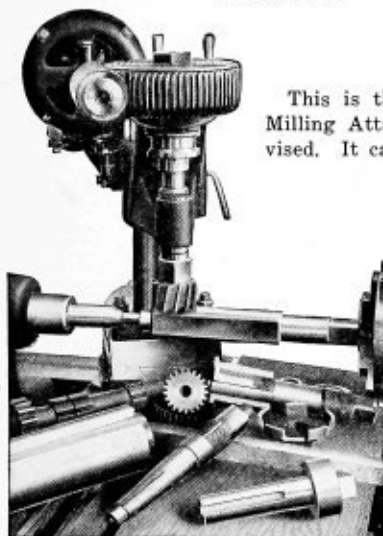




MACHINE LATHE TOOLS

Lathe Milling Attachment

Motor Driven



This is the first Practical Milling Attachment ever devised. It can be attached to any lathe, and will do the various classes of work that can be done on a regular milling machine costing anywhere from \$300 to \$700. This attachment is simple, rigid, powerful and accurate.

By using the standard types of cutters commonly used on regular Milling Machines all classes of work can be performed, such as—

- Woodruff Key-Seats.
- Key-Ways.
- Surface Milling.
- End Milling.
- Sawing.
- Slotting.
- Gear Cutting (when special index is attached).

The machine fits into the tool slide of the lathe, and requires no change of bed or apron.

Note in the illustration the heavy round column on which the sliding arm is carried. This arm is provided with vertical adjustment, thus raising or lowering the cutter, according to the work to be done.

The vertical screw connected with the arm permits micrometer adjustment. Cross and longitudinal adjustment is taken care of by the carriage and cross-feed movement of the lathe and consequently inaccurate work is impossible.

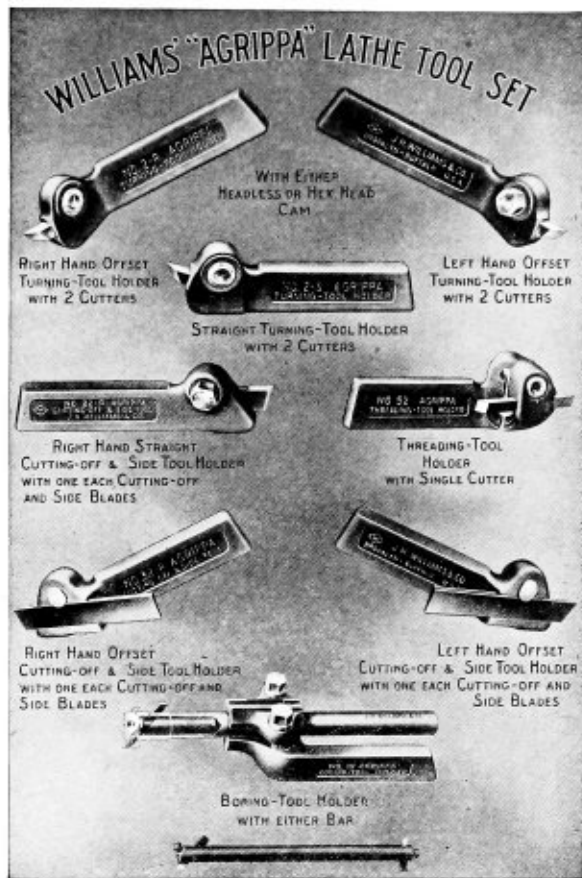
This machine is regularly furnished with a 1/2 H. P. Motor, which with the ratio of gearing through worm and worm wheel of 72 to 1 gives ample power for all average work. Motor is attached to any lamp socket by cord and is then ready to operate. We can furnish motors of any current, and have in stock milling attachments fitted with A.C. and D.C. motors of 110 and 220 volts.

In ordering BE SURE TO SPECIFY KIND OF CURRENT USED AND VOLTAGE.

This entire machine is fitted with ball bearings.

Complete with Motor, each.....D.P. \$244.00

Turning, Threading, Cutting-off and Boring



Williams' Agrippa Lathe Tool Set

Can be furnished in sets or separately. Price of sets as follows. These sets are identical with the engraving shown above:

Set Number	Holder Size	For Lathe of Approximate Swing; Inches	Per Set
0	3/4 x 3/4	10 to 12	D.P. \$37.50
1	1/2 x 1 1/4	14 to 16	D.P. 42.95
2	5/8 x 1 3/4	16 to 18	D.P. 55.70

All holders size furnished with self-hardening steel cutters. For larger size sets, write our Machine Tool Department.

Prices on Single Holders With Cutter

Turning tool holders either right or left hand. Price for straight shank same as off-set shanks. Price for cutting-off tools same as turning tools.

Number	Holder Size	Each
0	3/4 x 3/4 x 5 1/2	D.P. \$ 3.66
1	1/2 x 1 1/4 x 6 3/4	D.P. 4.00
2	5/8 x 1 3/4 x 8	D.P. 5.10
3	3/4 x 1 3/4 x 9 1/4	D.P. 6.66
4	3/4 x 1 3/4 x 10 1/4	D.P. 8.44
5	1 x 2 x 12 1/2	D.P. 10.50

Prices on Boring Bars

Number	Holder Size	Holder Capacity for Bars, Size	Each
80	3/4 x 3/4	3/4 to 5/8	D.P. \$7.55
81	1/2 x 1 1/4	3/4 to 3/4	D.P. 9.20
82	5/8 x 1 3/4	3/4 to 15/16	D.P. 12.30
83	3/4 x 1 3/4	3/2 to 1 1/4	D.P. 17.40

Prices for Extra Bits or Cutters

Lathe Tools, per dozen.....	D.P. \$9.20
Cutting-Off Tools, per dozen.....	D.P. 15.50
Boring Bars, per dozen.....	D.P. 2.70



FORGES

We carry a complete line of Forges. All modern Repair Shops and Garages have constant need for one of these appliances. Can be used for heating forgings, preheating parts before welding and for those purposes usual to all blacksmith work. The line we offer is the best on the market, strongly built, and designed with a view to giving long and efficient service.

No. 931 Four-Leg Lever Forge With Hood

This Forge, while low in price, is very strong and durable. It is neat and symmetrical in design, is made of cast iron with 2-inch pipe legs, which are firmly screwed into the hearth and are tied together with wrought iron bands to insure rigidity while in action.

The lever operates a segment gear on a ratchet, permitting a reverse motion while the drive wheel revolves rapidly, giving a steady blast.

Height of forge, 30 inches.

Diameter of hearth, 18 inches; 3 1/4 inches deep.

Diameter of fan case, 8 inches.

Floor space over all, 20 inches by 23 inches.

Each.....D.P. \$14.00



No. 931

No. 905 Portable Forge With Hood

This Portable Forge is of somewhat heavier design than the one shown above. The lever, supported on a swivel, follows the motion of the arm while in use. The clutch is of special design that insures positive action. The boxes are provided with oil cups and the shafts are correctly fitted into the bearings. The shaft is provided with ball bearings, which lighten the draft and save wear. The fireplace is separate from the hearth, which saves breakage in expansion and shrinkage of these parts.

Height of forge, 30 inches.

Size of hearth, 22 inches diameter.

Size of fan, 9 inches diameter.

Floor space over all, 24 inches by 36 inches.

Each.....D.P. \$23.40



No. 905

No. 943 Portable Steel Forge With Mechanical Blower

This Forge is built with a hearth 22 inches diameter. It is a light, stiff tool, easily handled and extremely durable. A general all-purpose forge for all garage work.

The tuyere (blow) pipe is cast solid with the special clamp for the legs and forms a support at one end for the mechanical blower. The fire pot is heavy and has shaker, also ash outlet.

The gears revolve in a bath of oil and the blower is almost noiseless. This machine has a strong, steady blast and is adaptable for the heaviest class of work.

Height from floor, 30 inches.

Spread of legs, 32 inches.

Diameter of fan, 10 inches.

Floor space, 36 inches by 41 inches.

No. 943 without hood, each.....D.P. \$41.00

No. 944 with hood, each.....D.P. 46.60



No. 943

No. 948 Square Steel Forge With Mechanical Blower

We suggest this forge where a large amount of work is handled. Attention is called to the very heavy construction, large hearth 24x24 inches, which will accommodate the largest pieces found in the average garage and machine shop.

The hearth and hood are of the very best heavy gauge sheet steel, well and neatly put together. The tuyere (blowpipe) is cast with a heavy firepot and has ash shaker and ash pit as shown. Is equipped with the same style high

Height from floor, 30 inches.

Diameter of fan, 10 inches.

Floor space, 31 inches by 39 inches. grade blower as shown in Figure 943.

No. 947 without hood, each.....D.P. \$48.80

No. 948 with hood, each.....D.P. 54.40

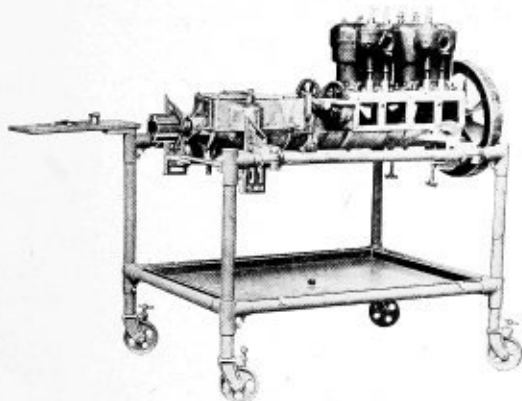


No. 948

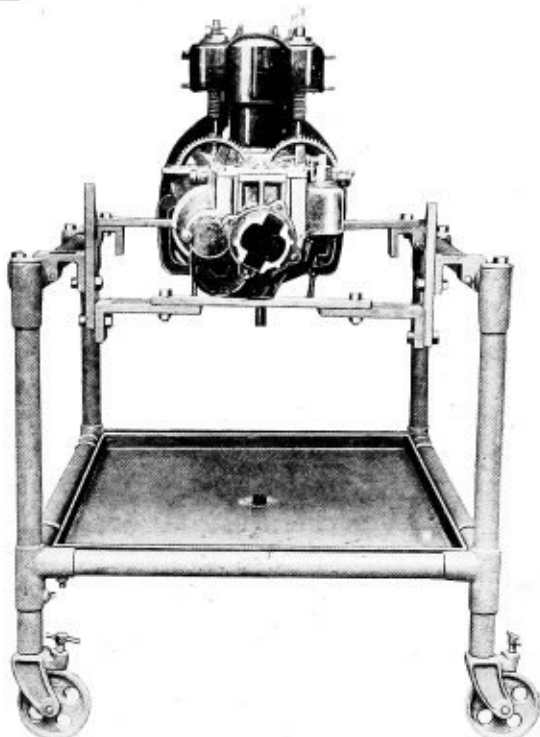


MOTOR STANDS AND CYLINDER GRINDERS

The Universal Motor Stand



This represents one of the most needed appliances in the garage and repair shop. It was invented by a practical repair man and is a device that will reduce labor and expedite the work of motor repair and assembling to a wonderful extent.



It will accommodate any size motor, two, four, six or eight cylinder. By aid of the adjustable corner plates, the motor can be placed at any angle. It has a large pan on which tools can be placed. The casters are large and by their use the stand can be moved about the garage at will. These casters can be locked at will and the stand is made immovable. Is heavily constructed of seamless steel tubing and is very rigid.

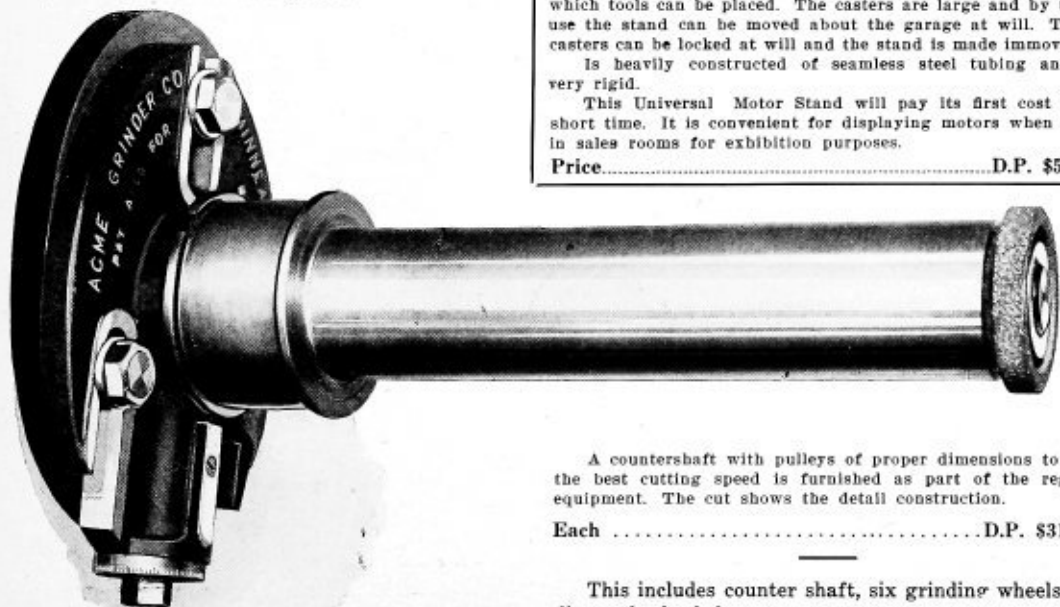
This Universal Motor Stand will pay its first cost in a short time. It is convenient for displaying motors when used in sales rooms for exhibition purposes.

Price.....D.P. \$53.30

The Acme Cylinder Grinder

The Acme Cylinder Grinder has been designed especially for grinding multiple automobile engine cylinders that cannot be rotated conveniently on an engine lathe of average swing.

In combination with the lathe it possesses all the features of the high priced manufacturing grinder, such as longitudinal and vertical adjustment of the work, variable speeds for rotation of the head, variable feeds for table travel, convenient arrangement for feeding the work to the wheel and micrometer readings for close adjustment. The travel of the lathe carriage feeds the work to the wheel, and the travel is regulated by feed gears at headstock end of lathe. On the carriage of the lathe is mounted a flat plate in a vertical position to which the crank end of the cylinders is bolted. This plate has a vertical and cross-wise adjustment, which permits of readily centering the hole to be ground.



A countershaft with pulleys of proper dimensions to give the best cutting speed is furnished as part of the regular equipment. The cut shows the detail construction.

EachD.P. \$311.11

This includes counter shaft, six grinding wheels and diamond wheel dresser.



Gibson Quality Combined Welding and Decarbonizing Outfit



The only practical method of welding is by the use of oxygen and acetylene gas. For many years engineers have been experimenting with this combination and the net result has been the development of equipment that gives maximum efficiency with minimum labor and expense.

In former years the usual method of welding has been by the use of forges or heating furnaces, in which the metal has been raised to the highest heat possible, and the weld was then made by the aid of hammers, either steam or hand. This was both unsatisfactory and expensive. As a rule the metal cooled before the weld was finished and the result would be that a "pipe" or unwelded streak would exist at the point welded. With the oxygen-acetylene process the edges of the metal are melted under a heat averaging 6500 degrees Fahrenheit. As these edges are brought to the proper heat, new metal is melted into the molten mass and the whole allowed to cool. This, therefore, makes the welded parts as one piece, and it is impossible for flaws to exist at the weld with ordinary care in the handling.

The Gibson Quality Combined Welding and Decarbonizing Outfit is the highest developed equipment ever manufactured for this purpose. It represents years of experimentation and test. It has been simplified to the last degree and can be successfully operated by any average mechanic. It will weld any metal and will take care of the smallest kind of work or weld the heaviest engine base.

It comes complete in a neat carrying case, as shown in the above illustration. Everything necessary to perform any kind of welding is included. It is one of the greatest discoveries of the age and has proven a great money-maker for the garage or repair man.

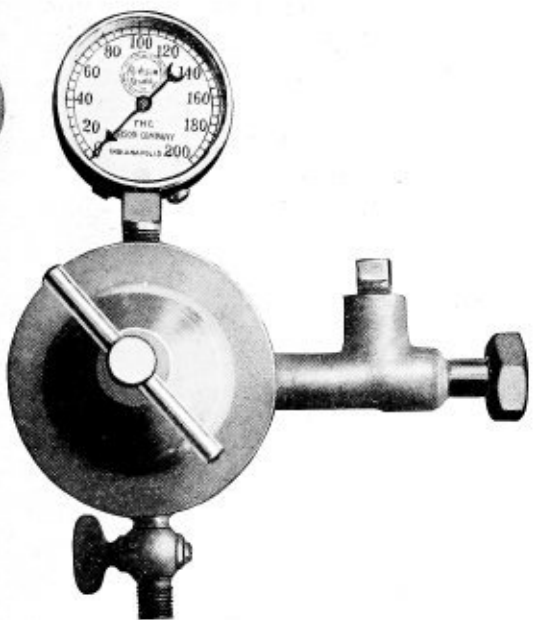
The Gibson Quality Combined Welding and Decarbonizing Outfit is fully guaranteed, covering material and workmanship. A book containing full instructions for operating is furnished with each equipment.

This outfit has a carbon-removing attachment (decarbonizer) for removing encrusted carbon from automobile cylinders. This is, without doubt, the only practicable and scientific way to perform this work. This equipment is fully described on another page.

The Gibson Quality Combined Welding and Decarbonizing Outfit will do the work of a \$1000 plant. It is perfectly safe to handle, as every part is made extra heavy, and special precaution has been taken in the design of the torch and reducing valves to avoid back-fire.



Gibson Quality Combined Welding and Decarbonizing Outfit



PLEASE refer to the engravings shown on this page. The reducing valve is the most sensitive built for this class of work, at the same time it is extremely heavy for the purpose of taking care of the high pressures found in Oxygen tanks. The gauges are calibrated and accurate. One of these valves is used on the Acetylene tank and one on the Oxygen tank. They regulate the pressure coming from the tanks and used for the welding flame.

The Torch shown below is our own special design and the most convenient ever built. It has special regulating valves of the needle type. These valves are operated by the thumb, and both gases are regulated by the hand using the torch; it is unnecessary to lay down the welding rod to adjust the gas, as is the case with all other torches. These valves have right and left-hand threads and turn in the same direction—confusion in handling is therefore impossible. The head of this torch is so constructed that back-fire is impossible. By arranging a series of chambers, the temperature of the gases is preserved, but cannot ignite in the torch head. The tips are patented non-fusible copper, of a special composition, and will resist 7500 degrees of heat.

The outfit is used in connection with Prest-o-Lite or Acetylene Gas tanks, and compressed Oxygen tanks. Prest-o-Lite can be obtained in any section, and Oxygen can be purchased from us in special tanks which we sell direct to the garage and will refill, or they can be leased from the Linde Air Products Company, who have stations in all parts of the United States.

This outfit comes complete in every detail. Fluxes for handling different kinds of metals, and welding rods of iron, steel, brass and aluminum are included. It will do every class of welding and every up-to-date shop should have one.

PriceD.P. \$77.70

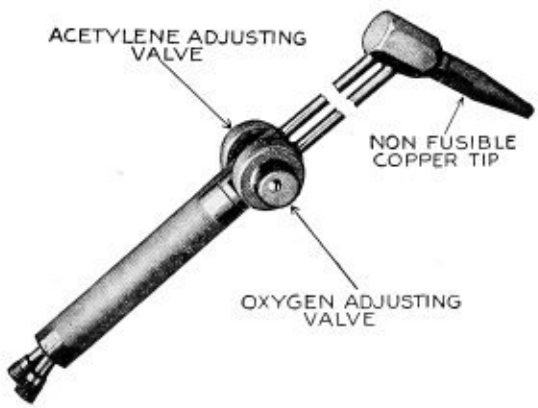
And the best investment you ever made.

FLUXES FOR USE IN WELDING

Cast Iron	D.P. \$.88
Brass	D.P. 1.00
Copper	D.P. 1.11
Aluminum (cast)	D.P. 4.44

WELDING RODS

Cast Iron, 3/8" Rod	D.P. \$.24
Norway Iron Rod	D.P. .26
Nickel Steel Rod	D.P. .53
Mild Steel Rod	D.P. .17
Brass Rod	D.P. 1.42
Phos. Copper Rod	D.P. 1.40
Aluminum Drawn Wire Rod	D.P. 2.33
Aluminum Cast Rod	D.P. 2.78





Gibson Quality Oxygen Carbon Remover

THE laborious method of scraping carbon from motor cylinders is a thing of the past. Science has finally discovered an efficient process for removing all the carbon from cylinders, cylinder heads and valves, in a remarkably short space of time, and at very small expense. By the old method the work was laborious and unsatisfactory; it was impossible to get at all the parts of the cylinder, and the result was that much incrustation remained. Carbon is a great problem; it means less mileage per gallon of gasoline, it means loss of power, it means lubrication losses; and in fact any number of things that create trouble for the motorist.

The Gibson Quality Oxygen Carbon Remover has solved the most troublesome problem the motorist and repair man must face.

Do not confound this appliance with the many cheap outfits offered. The Gibson Quality Decarbonizer is designed along the most approved engineering lines.

A man can clean a four-cylinder car in thirty minutes. The usual charge is 75 cents per cylinder, or \$3.00 for the job.

Price D.P. \$28.90

Oxygen for use in connection with this carbon remover can be obtained from us by purchasing an Oxygen Tank, which when empty will be refilled at a nominal cost.

Oxygen for Use in Connection with Welding Outfits and Carbon Removers

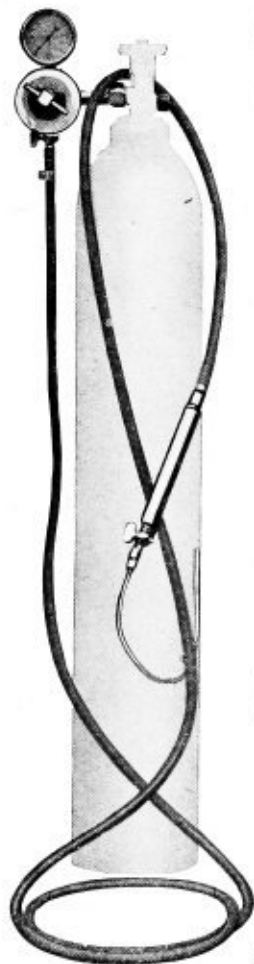
We carry a large stock of Oxygen Tanks in three sizes. These tanks are filled with the highest grade oxygen obtainable. Oxygen is obtained by three processes—extraction from the air, by precipitation of chemicals, and by extraction from water. We handle the latter, as it is conceded the purest of the three. It contains no impurities whatever, and will give better results with less gas expense than either of the other kinds.

When a tank is purchased it is charged to capacity. When this gas has been used, the tank can be returned to us, charges prepaid, and a refill will be furnished. The tank remains your property and there are no rental charges as is the case when this gas is purchased from other concerns.

		Prices	
60-foot Tanks	..... Each	D.P.	\$30.60
Refills	.....	D.P.	3.90
100-foot Tanks	..... Each	D.P.	41.10
Refills	.....	D.P.	4.44
200-foot Tanks	..... Each	D.P.	53.40
Refills	.....	D.P.	8.90

Prices of tanks include first charge of Oxygen. Prices are f. o. b. Cincinnati. If Oxygen is delivered from Indianapolis add 1/4 cent per cubic foot net.

All tanks should be carefully tagged, giving name and address of party returning them.





HYDROGEN LEAD BURNERS

Used and Recommended by All Manufacturers of Storage Batteries

These outfits are for use in storage battery work and are the same as used and recommended by the manufacturers of storage batteries.

Hydrogen gas produces the only flame that is suitable for lead burning, such as terminals on batteries.

Hydrogen gas may be produced in generators by the action of sulphuric acid on zinc, but aside from the trouble and waste the gas obtained is not nearly so pure as the water gas process hydrogen, which comes compressed in steel tanks.

Pure hydrogen enables the operator to work much faster and produce a better finished product.

The outfits shown on this page are sold complete and include the hydrogen tanks as the property of the purchaser.

We furnish also with the tanks an oxygen regulator which may be used in conjunction with the hydrogen tank where compressed air is not available. The use of compressed oxygen is not necessary, nor do we recommend its use except in cases where it means convenience. The garage that is equipped with an air compressor outfit for filling tires may use the air from this source with the hydrogen outfit. Compressed air may be purchased in loaned tanks of 50, 100 and 200 cubic feet capacity.



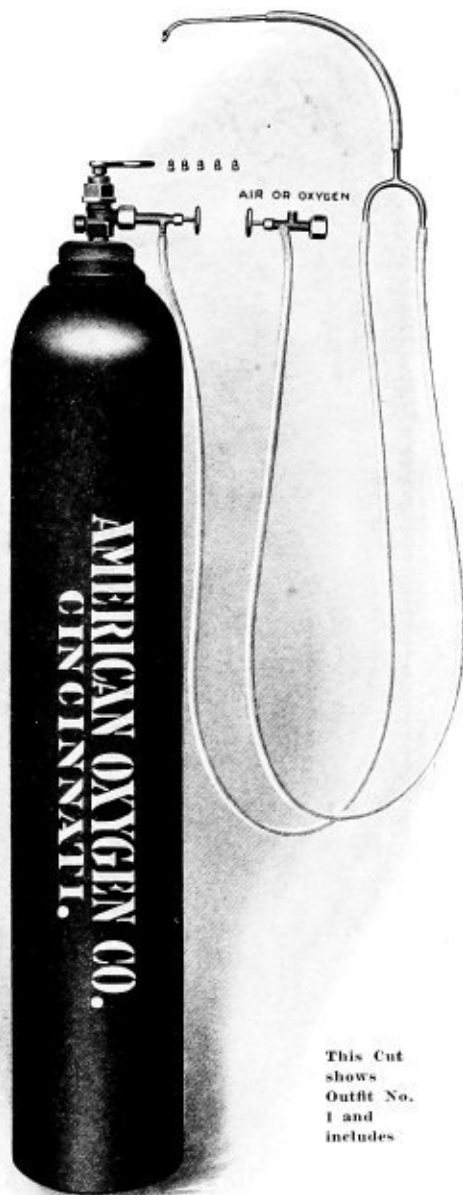
This Outfit shows
Outfit No. 2 and includes

- 1 Hydrogen Burning Torch, 3 Tips.
- 13-Ft. Pressure Hose and Connections.
- 1 Hydrogen Pressure Regulator.
- 1 Oxygen (or Air) Pressure Regulator.
- 1 55-Cu.-Ft. Hydrogen Cylinder.
- 55 Cu. Ft. Hydrogen.

Price for above OutfitD.P. \$37.80
Refills for above CylinderD.P. 2.35

This Cylinder contains sufficient Hydrogen for 9 to 12 consecutive hours of burning.

Full Cylinders shipped immediately upon receipt of bill of lading covering empty returned.



This Outfit shows
Outfit No. 1 and includes

- 1 Hydrogen Burning Torch, 3 Tips.
- 13-Ft. Pressure Hose and Connections.
- 1 Hydrogen Pressure Regulator.
- 1 Oxygen (or Air) Pressure Regulator.
- 1 200-Ft. Hydrogen Cylinder.
- 200 Cu. Ft. Hydrogen.

Price for above OutfitD.P. \$70.00
Refills for above CylinderD.P. 7.75

This Cylinder contains sufficient Hydrogen for 36 to 40 consecutive hours of burning.

Full Cylinder shipped upon receipt of bill of lading covering empty returned.



Accessories and Parts for Ford Cars



In the following pages we have shown only such accessories as our seasoned experience dictates as suitable for their respective uses.

Our far-reaching and unlimited resources enables us to obtain the pick of the market and to name the lowest prices consistent with high quality.

In this section as in the rest of our Catalog we present for your consideration only the best of a kind, and we have eliminated the undesirable and freak goods from our pages.

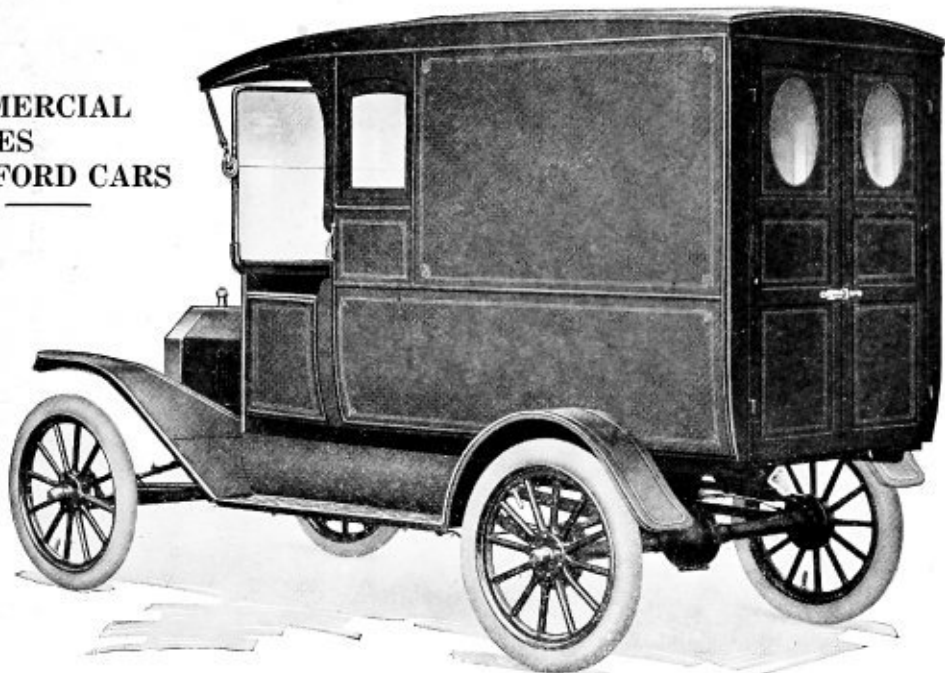
Each and every article herein illustrated has received the approval of our testing and engineering departments, and while similar goods may be obtained at lower prices in some instances, we request that it be borne in mind that quality has received first consideration in our selections.

THE GIBSON COMPANY

ACCESSORIES FOR FORD CARS



COMMERCIAL BODIES FOR FORD CARS



No. 0201. Panel Top Commercial Body
FOR FORD CARS ONLY

A commercial body that, in addition to its splendid characteristics as a delivery vehicle, will advertise any business in a high-class, dignified and thoroughly pleasing manner. Especially adapted for department stores, cleaners, bakeries, laundries and florists. In fact, it fills the bill for all classes of merchants who require a high-grade, durable and thoroughly weather-proof body for their deliveries.

The lines are carefully designed with a two-fold purpose in mind, i. e., SERVICE and APPEARANCE. We stand back of the Service idea with a binding guarantee that has been established in all our dealings with the trade. So far as Appearance is concerned, we leave the decision to you.

The big field for the commercial body lies in the increasing number of cars that are getting to be "old machines" every year. In many cases a scarred or out-of-date body or a shabby top constitute the only excuse for the discard. Frequently the chassis and engine are good for several months—maybe years—of service. In such a case the purchase of a commercial body to meet the requirements of the business for which it is intended is one of the best paying "economies."

BODY—Solid side panels of heavy gauge sheet steel, fully slatted on the inside. Glass window on either side of the driver's seat, linged at the top and can be fastened up against the roof. Deck is covered with black oil duck. Double doors of steel are furnished in the rear as illustrated, with two large oval glass windows. This body is built on our standard sill construction, ready to fasten on a Ford chassis. All corners are securely braced so as to prevent racking. Seat is full width and covers a box that can be used for tools, etc. Stationary fore door on driver's side regular on Nos. 0201 and 0202.

TRIMMING—Full width cushion of good artificial leather. Folding lazy back on driver's side of seat.

PAINTING—Dark green with neat striping, regular. Any lettering desired can be furnished at extra cost.

LOADING SPACE—(Back of seat) 43 inches wide, 56 inches long, and 56 inches high.

SHIPPING WEIGHT—Knocked down and crated under 34 inches, 800 pounds.

EQUIPMENT—Includes fore door on driver's side, rear lamp bracket, toe boards and irons, all irons necessary for attaching to chassis.

No. 0201—.....	Price \$70.00
D.P. \$122.22	
No. 0200—Same style body as No. 0201 except has no fore door on driver's side. Price.....	70.00
D.P. \$122.22	
No. 0202—Same style body as No. 0201 except with high end gate and screen combination furnished in the rear instead of the double doors. Roll-up curtain of heavy black duck. Price.....	70.00
D.P. \$122.22	

EXTRAS

Applying on Our Line of Commercial Bodies

Stationary fore door on driver's side, price.....	\$ 2.00	1915-16 Filler board, price.....	\$ 2.00
D.P. \$3.33		D.P. \$3.33	
Special rear fenders, per pair, price.....	7.00	Painting other color than regular, Nos. 0200, 0201, 0202, price.....	5.00
D.P. \$12.22		D.P. \$8.88	
Built in windshield on top bodies, price.....	11.00	Painting other color than regular, Nos. 0205, 0207, price....	3.50
D.P. \$20.00		D.P. \$6.11	
Windshield braces, price.....	.50	Storm curtains, price.....	.50
D.P. \$0.77		D.P. \$8.55	

A HIGH-CLASS SPARK PLUG—WITH PROFIT TO THE DEALER—"THE SOLAR"



ACCESSORIES FOR FORD CARS

COMMERCIAL BODIES FOR FORD CARS

For List of EXTRAS See Page 317



No. 0205. Commercial Body with Express Top FOR FORD CARS ONLY

This express top commercial body is one that can be used by a wide variety of business men. Grocers, butchers, plumbers, gas and telephone companies and practically any kind of business that calls for general trucking or delivery car.

TOP—Heavy, well-ironed, six-post express top. Special heavy brace irons designed to withstand the rough driving that's bound to come to a car used for commercial purposes. Deck is full-slatted and covered with heavy black duck. Roll-up curtains, sides and back, of same material. Separate roll-up curtains with large mica lights on either side of driver's seat.

BODY—Constructed on our standard frame for Ford chassis. Sills and sub-sills of carefully selected and seasoned hardwood. Will give the maximum of CARRYING STRENGTH without adding unnecessary weight to your car. Every precaution is taken in its construction to provide a body that will "stand the racket" of commercial use. Panels are 10 inches high inside. Heavy flare boards regular. Seat is full width.

TRIMMING—Full width cushion of good grade artificial leather. Folding lazy back on driver's side of seat.

PAINTING—Dark green, regular. Any lettering desired can be furnished at extra cost.

LOADING SPACE—(Back of seat) 43x63 inches. Full width rear end gate with chains enables one to adjust the body to practically any style of load.

SHIPPING WEIGHT—Knocked down and crated under 34 inches, 725 pounds.

EQUIPMENT—Includes rear lamp bracket, toe boards and irons, all irons necessary for attaching to chassis.

- No. 0205—As shown above. Price.....\$55.00
 D.P. \$95.55
- No. 0206—Same style body as No. 0205 except has screen sides of heavy wire and no flare boards. Price. 62.00
 D.P. \$106.66

These commercial bodies have both town and country sales possibilities, and among the Ford owners in your town and community you have a profitable field of prospects ready for you. Many Ford cars get ready for the "scrap heap" every season—so far as use by passengers is concerned. The chassis is still ready to WORK.

The problem of the owner is to get a suitable body—at a reasonable price—so that he can get some use out of the chassis of the car.

In this line you will find a good variety of bodies that will enable you to supply his needs at from \$35 to \$70, and you'll make a nice profit on the deal, too.

Prompt delivery can be made after we receive your orders. The thing to do is to get some samples on your floor right now to sell from. The amount of money necessary for two or three of these sample bodies is small—and would be a mighty wise investment.

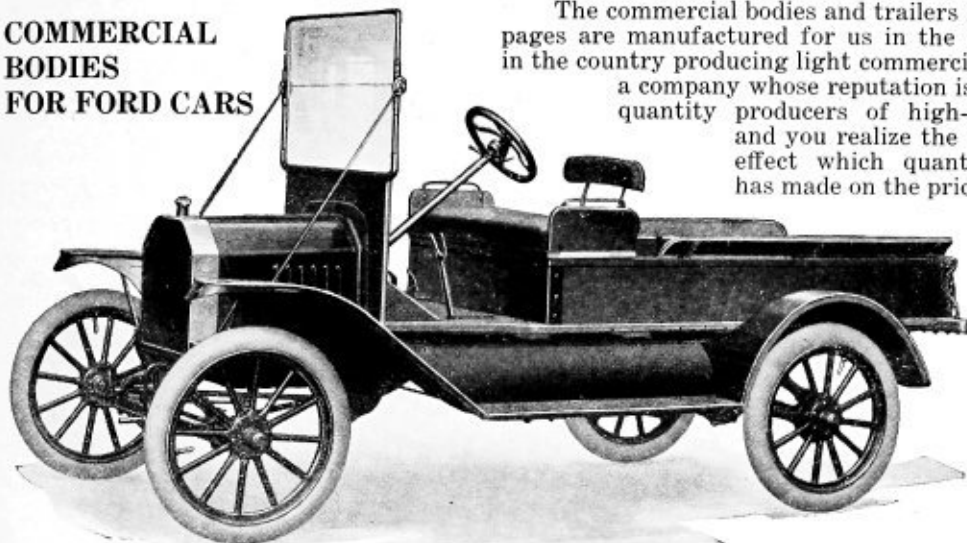
The models are designed by men with years of experience in the building of commercial vehicles and they are thoroughly familiar with the construction and capacity of the Ford chassis. You'll find all of these bodies especially well built so as to more than stand the hard treatment that's coming to them in commercial use.

ACCESSORIES FOR FORD CARS



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COMMERCIAL BODIES FOR FORD CARS



The commercial bodies and trailers shown on these pages are manufactured for us in the largest factory in the country producing light commercial vehicles—by a company whose reputation is established as quantity producers of high-grade goods—and you realize the very noticeable effect which quantity production has made on the prices.

No. 0207
Price...\$35.00
D.P. \$60.00

For List
of EXTRAS
See Page 317

No. 0207. Open Commercial Body FOR FORD CARS ONLY

A business body for Ford chassis that will give the maximum of service, and the large quantities in which they are produced enables us to make a price that is particularly reasonable. Farmers, dairymen and transfer men can use this body to good advantage.

BODY—The body is constructed on our standard hardwood frame, designed to fit any model Ford chassis. The big idea that we have had in mind is to produce **STRENGTH**, without adding unnecessary **WEIGHT**. Panels are 10 inches high, inside. Corners, metal bound and the entire body exceptionally well ironed and braced. Floor protected by iron strips running lengthwise. Five-inch flare boards with heavy edge irons and braces, regular. Special seat with hand rails.

TRIMMING—Full width cushion of good grade artificial leather. Folding lazy back on driver's side of seat.

PAINTING—Dark green, regular. Any lettering desired can be furnished at extra cost.

LOADING SPACE—(Back of seat) 43x63 inches. Full width rear end gate with chains enables one to adjust the body to practically any style of load.

SHIPPING WEIGHT—Crated under 34 inches, 425 pounds.

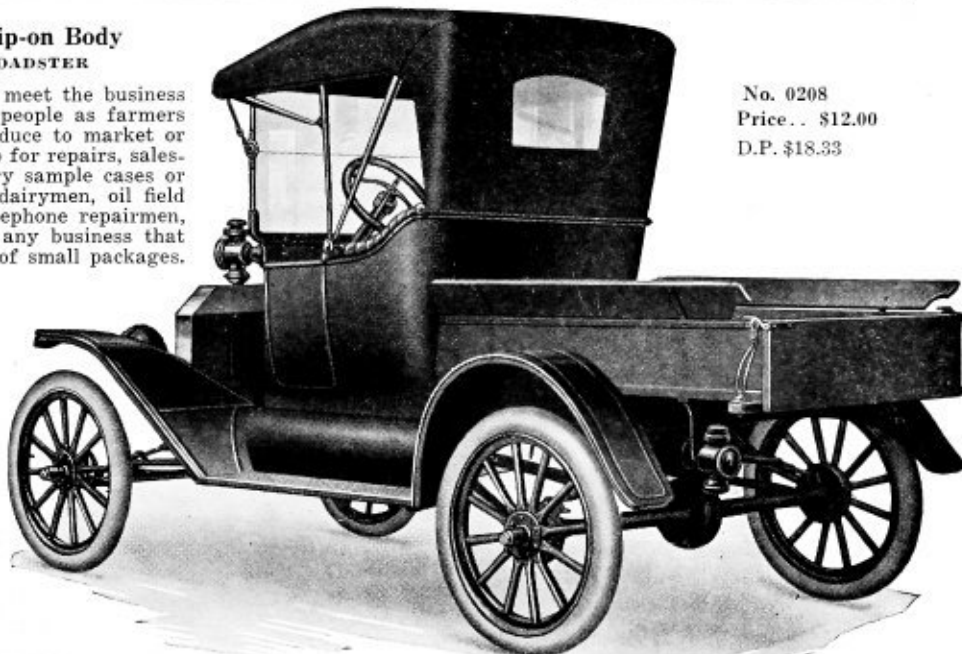
EQUIPMENT—Includes rear lamp bracket, toe boards and irons, all irons necessary for attaching to chassis.

No. 0208. Slip-on Body FOR FORD ROADSTER

A body designed to meet the business requirements of such people as farmers who want to take produce to market or implements to the shop for repairs, salesmen who want to carry sample cases or machines with them, dairymen, oil field workers, plumbers, telephone repairmen, cleaners, butchers, or any business that calls for the carrying of small packages.

SPECIFICATIONS

A mighty well-built body, with loading space 34 inches wide by 52 inches long. Side panels are 8½ inches high inside, and topped with hardwood rails. Outside body braces, regular. Drop end gate as illustrated. Painted solid black. Easily put on or taken off as it weighs less than 100 pounds. Shipping weight, approximately 175 pounds. The necessary bolts for attaching to the car, also special lamp bracket, are included with each body. No change of rear fenders is necessary for this style body.



No. 0208
Price... \$12.00
D.P. \$18.33



ACCESSORIES FOR FORD CARS

AUTO TRAILERS

The trailer offers a splendid new field of usefulness for the automobile that would frequently have to be "tied up" in the garage when the owner needs a conveyance for delivery or produce hauling.

With a trailer he can make his automobile WORK, without damaging the car itself by piling in boxes, bags, crates, milk cans, etc. In other words, when he has "rough work" to do in the transportation line, and wants to do it quick—HOOK ON A TRAILER.



No. 0300. Four-Wheeled Trailer

BODY—45x96 inches outside; 9-in. panels with hardwood rails. Three extension cross-sills with outside body braces. Specially well ironed throughout. Carefully selected and seasoned hardwood used for sills. Floor boards run lengthwise and are protected with wear irons. Drop end gate front and rear with top edge protected by a heavy strip of steel. Good heavy flare boards, well braced, can be furnished at extra cost.

SPRINGS—Triple Hayes springs, front and rear.

AXLES—1½-in. with extra heavy hickory caps and heavy clips. Furnished regularly with long distance wagon spindles. However, if the service expected of the trailer is going to be heavy or if it is to be pulled at excessive speed, we recommend ball- or roller-bearing spindles which we can furnish at extra cost.

TRACK—Narrow (4 ft. 8 in.) or wide (5 ft. 2 in.).

With plain bearings and steel tires. Price \$80.00
D.P. \$151.11

With plain bearings and rubber tires.

Price \$93.00
D.P. \$177.77

With ball bearings and rubber tires.

Price \$110.00
D.P. \$202.22

With T. R. bearings and rubber tires.

Price \$125.00
D.P. \$233.33

Extra for spring wagon seat.

Price \$5.50
D.P. \$10.00

Extra for spring wagon shafts.

Price \$6.00
D.P. \$11.11

Extra for jack clips for shafts.

Price \$0.65
D.P. \$1.11

SPECIAL GEAR FEATURES—Heavy hickory reach ironed on two sides. Extra heavy fifth wheel used on both front and rear axle. Cross-truss rods of special design are used to keep both front and rear wheels of the trailer in perfect track with the rear wheels of the auto. Both axles turn and permit of a complete turn in a circle with a diameter of about 25 ft.

WHEELS—Sarven patent with 1½-in. spokes and 1½-in. riveted rims. No. 13 flange, specially high and riveted between every spoke. 32 in. high. Absolutely best grade hickory, 5/16-in. oval edge steel tires regular.

CONNECTION—See illustration above.

PAINTING—Dark green.

CAPACITY—About 1,200 pounds.

SHIPPING WEIGHT—About 725 pounds.

No. 0301. Two-Wheeled Auto Trailer

BODY—40x84 inches outside, with 10-inch panels. Hardwood sills and hardwood rail on top of panels. Bottom of body protected by iron strips running lengthwise. Drop end gate, front and rear. Body strongly built, extra well ironed and braced throughout. 5-inch flare boards can be furnished at extra cost.

SPRINGS—1½-inch, 5 and 6-leaf platform springs, hung under axle.

AXLE—1½-inch, coaxed.

TRACK—Narrow (4 feet 8 inches) or wide (5 feet 2 inches).

Narrow furnished unless otherwise specified.

BEARINGS—Furnished with common long distance wagon spindles regularly. Ball- or roller-bearings at extra cost.

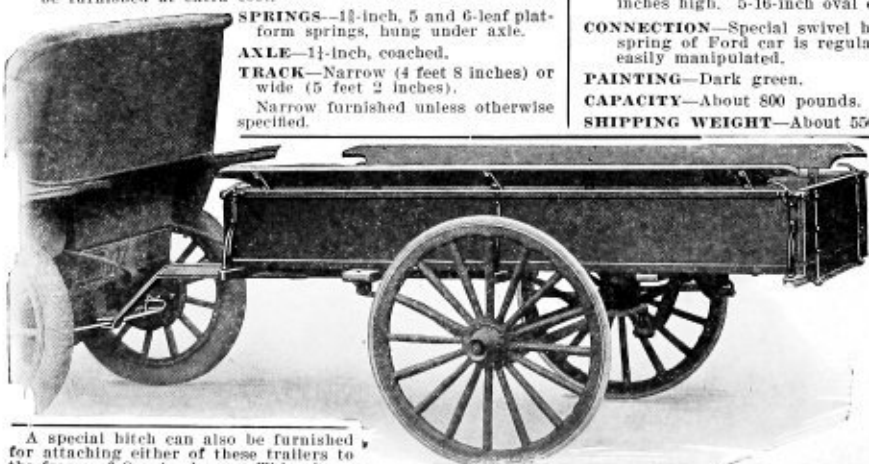
WHEELS—Sarven patent with 1 3/8-inch spokes and 1½-in. riveted rims. No. 13 flange, specially high and riveted between each spoke. Absolutely best grade hickory, 32 inches high. 5/16-inch oval edge steel tires regular.

CONNECTION—Special swivel hitch for attaching to the rear spring of Ford car is regular on this trailer. Simple and easily manipulated.

PAINTING—Dark green.

CAPACITY—About 800 pounds.

SHIPPING WEIGHT—About 550 pounds.



A special hitch can also be furnished for attaching either of these trailers to the frame of Overland cars. This places all the strain on the frame of the car and absolute safety to the axle of the car is guaranteed.

Price \$35.00
D.P. \$5.55

With plain bearings and steel tires.

Price \$42.00
D.P. \$71.11

With plain bearings and rubber tires.

Price \$48.00
D.P. \$82.22

With ball bearings and rubber tires.

Price \$58.00
D.P. \$100.00

With Timken roller bearings and rubber tires.

Price \$65.00
D.P. \$111.11

ACCESSORIES FOR FORD CARS



SUMMER AND WINTER TOPS AND RECOVERINGS

Gordon Convertible Summer and Winter Top



Ford Touring 1915, 1916

With side walls attached making a completely weather tight body.

Absolute protection from rain, snow, sleet and cold, but easily converted into an elegant one-man top within ten minutes' time.

The Gordon Convertible Summer and Winter Top is just what its name implies, either a beautiful one-man top for summer or an absolutely cold-proof top for winter, easily changeable from one to the other within ten minutes' time.

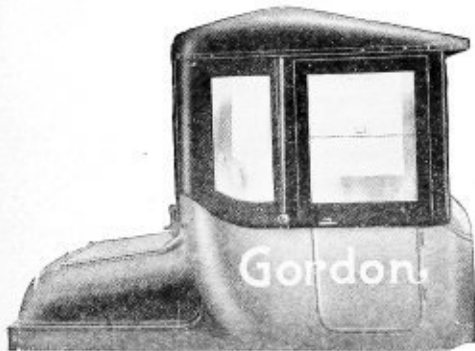
The side walls which are used to convert the open one-man top into a winter top are arranged in one piece and fastened on with but few fastenings so that they can be attached in a very few minutes.

No limousine or sedan top built especially for the Ford car equals the Gordon Convertible Top in appearance.

Made with the beautiful rounded effect in the rear and finished with the finest finish as used on high class jobs it presents a very handsome appearance.

Price\$55.00
Price, D.P. \$97.77

Gordon Convertible Summer and Winter Top



Ford Runabout 1915, 1916

With side walls attached, making a completely weather tight body.

The side walls can be detached or put on in a very few minutes and are arranged with very few fastenings, thus making it easy to put on or remove the side walls.

It is not necessary to put on a great number of irons or to make any alterations in the body. All fastenings used are attached to the side walls before being shipped, thus making it easy for anyone to attach very easily and quickly.

These side walls are made of a fine hard wood, finished with a beautiful black lustre, the same as on fine automobile bodies and are not made of cheap metal stampings, which are bound to rattle and prove unsatisfactory.

The glass is so arranged that the sash can be raised or lowered, thus affording ventilation whenever desired.

Note the fine, clear view which these side walls afford to both the driver and the occupants of the rear seat.

Price\$55.00
Price, D.P. \$97.77

Gordon One-Man Top



For Ford Touring Cars 1912, 1913, 1914, 1915, 1916

Gordon One-Man Tops are exactly what the name implies; a really "one-man top" easily operated by one man.

Gordon One-Man Tops are not like the ordinary top, with simply the one-man feature, but are made with a beautiful rounded effect in the rear like on tops for high priced cars.

The Gordon One-Man Top for Ford cars far excel in appearance any other top offered on the market, having in addition to the rounded effect in the rear, distinctive lines.

Instead of using the ordinary straps in the front at the wind shield, a pair of especially made steel rods are furnished, which attach to the wind shield and the body without any extra preparation and by using the original bolts and fastenings with which the Ford car comes equipped.

The Top is fastened to these arms by means of a thumb screw, similar to the method used on all higher priced cars. This gives the Top a rigidity which cannot be had by any other means and prevents rattling and unnecessary noise.

Mention year and model when ordering.

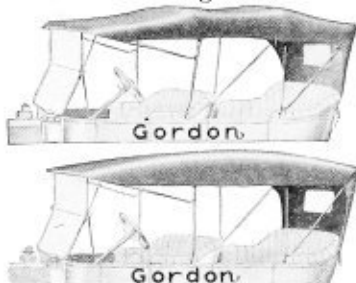
No. 1500 Ford Touring Car One-Man Top, made of rubber, complete with regular side curtains\$25.00
D.P. \$44.44

No. 1501 Ford Touring Car One-Man Top, made of rubber, complete with Jiffy side curtains 28.00
D.P. \$50.00

No. 1502 Ford Touring Car One-Man Top, made of mohair, complete with regular side curtains 25.00
D.P. \$44.44

No. 1503 Ford Touring Car One-Man Top, made of mohair, complete with Jiffy side curtains 28.00
D.P. \$50.00

Gordon Recovering for Ford Tops



Note the change in appearance in the old top by using a Gordon Recovering. Makes the top like new.

There is no need for a new top when your bows and padding are in good shape; simply put on a Gordon Recovering and your top will be like new.

Gordon Recovering for Ford tops furnished for any 1912, 1913, 1914, 1915 and 1916 Ford Touring or Runabout.

Complete outfit consists of roof, quarter, backs, stays and back curtain, which are made up of the same grade and quality of rubber as used in the original Ford top, and come complete with all necessary fastenings, ready to put on.

Mention year and model when ordering.

No. 1410 Recovering for Ford Touring Car Top\$10.50
D.P. \$15.55

No. 1411 Recovering for Ford Runabout Top 8.50
D.P. \$12.55

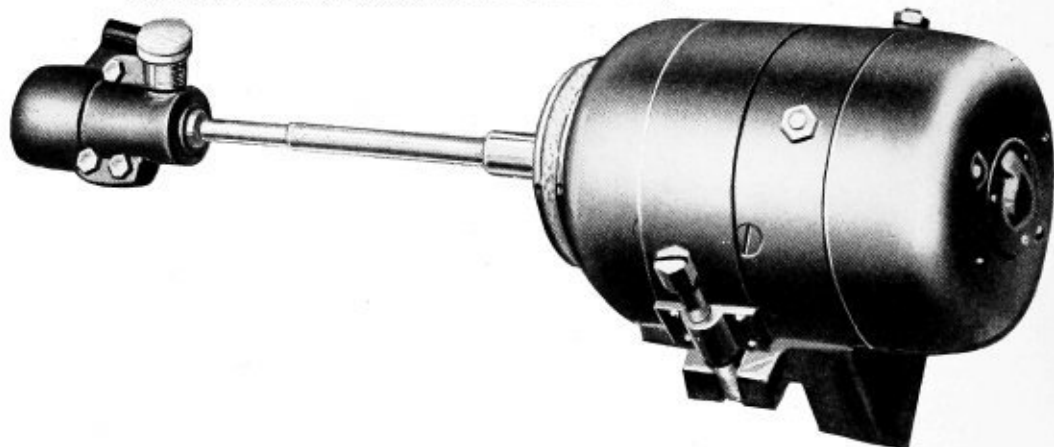


ACCESSORIES FOR FORD CARS

IMPROVED GENEMOTORS

The Improved Genemotor

Electric Starting and Lighting System for Ford Cars Built by the General Electric Company



During 1914 and 1915 over two hundred types of starting devices for Ford Cars were offered. Some of these were mechanical and some electrically operated. In the latter year the market was flooded with numerous electric systems—in every case they operated through a chain drive, which in the end gave trouble. The Ford car is unlike any other Automobile built, in that it has no fly-wheel and for this reason the element of compensation through engine momentum presents a pretty problem—one which most engineers overlooked when designing these various Ford Electric Starting and Lighting Systems. In consequence of this peculiarity, chain breakage, noise and various other attendant troubles followed the installation of these Systems.

The General Electric Company, who are recognized as being the largest and most advanced manufacturer of electrical equipment of all kinds, have been building starting and lighting apparatus for Automobiles for many years, and have the largest department devoted to that class of equipment extant. They built and marketed a chain drive system in 1915, one which had many features not found in other Chain Driven Systems. That Genemotor found a ready sale, and was, without question, superior to any other starter of this type. Thousands are in daily operation and giving uniform satisfaction.

In line with the usual progressive policy of the General Electric Company, they sought a method that would eliminate the chain entirely, and early in 1915 made several types having different forms of gear drives. They finally perfected the system illustrated at the top of this page—a Unit that is without exception the most perfect, most simple, most efficient, most silent, and most economical ever devised. It is **TEN YEARS AHEAD OF EVERY OTHER ELECTRICAL FORD STARTING AND LIGHTING SYSTEM.**

The GENEMOTOR is installed on the Ford car without the least change in any part of the chassis, engine or body.

THE EXCLUSIVE AND OUTSTANDING FEATURES OF THE GENEMOTOR ARE:

IT IS SHAFT-DRIVEN—There are no chains or complicated adjustments. No spring pulleys. No grinding. No noise.

IT IS A TWELVE-VOLT SYSTEM—Every engineer will tell you of the advantage of high voltage in small electrical units. It lessens the weight, requires lower speeds and takes less power to operate.

IT IS A SINGLE-UNIT MACHINE—This reduces complications to a minimum. The winding is of special design and gives exceptionally high starting torque. It will spin a Ford motor at 175 revolutions per minute in the coldest weather.

IT CHARGES THE BATTERY AT LOW CAR SPEED—This system starts charging the battery at a speed of 8 to 10 miles per hour.

IT IS GUARANTEED—With the largest manufacturing facilities for material of this class and a reputation that is world-wide, the General Electric Company guarantees this system against defects or inoperation. This insures positive **SATISFACTION.**

This Genemotor Makes the Ford Car a High-Class Automobile and Increases Its Value Fifty Per Cent.

SEE THE FORD SECTION—IT CARRIES MANY ARTICLES YOU SHOULD SELL



IMPROVED GENEMOTORS—Continued

The Improved Genemotor

Electric Starting and Lighting System for Ford Cars—Built by the General Electric Company

In the Improved Genemotor a gear drive has been substituted for the silent chain previously used. This does away at once with the objection that has sometimes been raised to the large number of parts involved in the construction of the chain with the attending wear and stretch, requiring adjustment from time to time.

Again, by reason of improved electrical design, the Genemotor has been materially reduced in size and weight, while preserving the same starting torque.

Another advantage is found in the fact that the Genemotor cuts in, or commences to charge the battery, at 8 to 9 miles per hour, which will insure a charged battery even when the car is run at a reduced speed.

The smaller diameter of the motor permits it to be mounted at the left rear side of the engine, thus carrying the weight farther back than heretofore, and in no way interfering with circulation of air around the cylinders.

The driving shaft of the Genemotor which is provided with a flexible coupling, extends diagonally forward to a bearing at the front of the engine. This bearing with its supporting casting is substituted for the cam-shaft cover of the standard Ford engine. Mounted on the end of the Genemotor shaft is a "Fabroil" pinion having skew bevel teeth of special design which engage with the teeth of a gear mounted on the crank shaft within the nose pan of

the engine. The "Fabroil" material of the pinion, together with the special form of teeth employed, insures efficient and quiet operation at all times, together with long life. A metal gear cover is provided to protect the gearing from dirt or other obstruction.

The Genemotor itself is mounted on a simple bracket secured to the engine and chassis with a strap clamp, and can be readily removed, if necessary.

The flexible coupling compensates for any slight misalignment between the motor shaft and the driving shaft, and also absorbs any uneven impulses transmitted from the crank shaft when the Genemotor is being run as a generator.

Quiet operation is a notable feature of the Gear Drive, and the fact that no adjustment is necessary after the set is once installed is a valuable feature.

The battery is placed on the right running board as heretofore, but the starting switch has been located under the footboard to be operated by pressure of the heel. This does away with the push rod on the dash and removes the switch from under the hood, giving a cleaner cut appearance to the outfit.

The reverse current relay is mounted in the switch casing and is very accessible. This relay is of improved design and cuts in at substantially the cross-over point of the Genemotor.

The lighting switch is mounted on the steering post and gives the following combinations of lights:

Off; headlights in multiple and rear light; headlights in series and rear light.

The set has been especially designed with a view to facilitating its assembly on the car without the necessity of delicate adjustments. A gear drive of this character is unique and original.

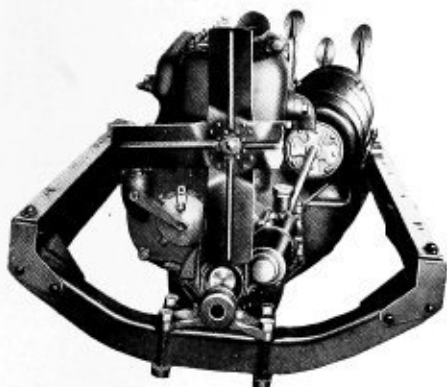
Note the general clean-cut and compact make-up of this system. It is of small size, is installed with much greater ease than any other type, gives higher efficiency, there are no adjustments necessary after it is installed, operates with absolute silence, and presents so many marked improvements over the chain-drive type that a comparison is impossible.

The Genemotor is furnished complete with Storage Battery, Battery Box, Lighting Switch, Sprockets, and wiring cut to length. It is very easy to install, the average time required by a good workman being four hours—in some cases longer, depending on the condition of the car.

This is the ONLY PERFECT, SUCCESSFUL STARTER, and is guaranteed by the largest manufacturer of electrical equipment in the world. It fills a demand that has always existed since the first Ford car was built.

We are distributors for a large area and there may be open territory in your section—better write or wire us at once.

Genemotor, f. o. b. factory, each \$85.00
 Each, D.P. \$160.60, f. o. b. factory.





ACCESSORIES FOR FORD CARS

WEED CHAINS AND FALCON CASINGS AND TUBES

Weed Anti-Skid Chains



The only absolute insurance against skidding on all kinds and conditions of road. The cross chains being made of a special steel and smoothly welded give long service under the most exacting use.

Weed Chains creep about the tire in use and consequently do not injure the casing or the wheel.

Avert the possible collision or skid by putting on Weed Chains on slippery roads or streets, whether you use non-skid or plain tires. Carry them in your car when touring; they will give your tires a grip on muddy roads.

30 x 3 Per pair.....	\$4.50
30 x 3½ Per pair.....	5.00
31 x 4 Per pair.....	6.00

Rid-O-Skid Tire Chains



Rid-O-Skid Tire Chains are offered as an anti-skid device to meet the requirements of those to whom initial cheapness is the chief consideration. They are necessarily of inferior quality—are not made as carefully or of diamond-hard material as are Weed Tire Chains. If you ignore the maxim "Initial Cheapness is False Economy" and purchase Rid-O-Skid Chains instead of Weed Chains, you will at least be much wiser than the motorist who insists upon taking chances by "depending on rubber alone," and later experience will show you that Weed Chains give much greater mileage and are, therefore, cheaper in the end.

30 x 3 Per pair.....	\$2.50
30 x 3½ Per pair.....	2.65
31 x 4 Per pair.....	2.90

Falcon Casings and Tubes for Ford Cars



We list here the particular sizes and styles of casings and tubes suitable for Ford cars.

The front wheels are smaller in size than the rear, so that each pair of wheels require their own size of tires. A great many drivers are changing to the 30x3½ size in front, enabling them to use one size casing on all wheels, while others are using oversize tires on account of severe service such as on trucks, etc.

We give on this page just the sizes used on Fords with standard wheel equipment, their respective oversizes and the sizes used with 30x3½ wheels all round.

The Falcon Tires have proven their superiority to all others by reason of service over a term of years and are offered to the critical tire buyer as the most economical tires to use.

FALCON CASINGS

Size	Plain	Non-Skid
30x3 Front wheel size	\$11.70	\$13.50
31x3½ Oversize for front wheels	16.45	18.90
30x3½ Rear wheel size	15.30	17.60
31x4 Oversize for rear wheels	23.85	27.45

FALCON TUBES

	Gray	Red
30x3	\$2.80	3.20
31x3½	3.45	3.95
30x3½	3.35	3.85
31x4	4.55	5.30

Falcon Combination Inner Tubes

FOR FORD CARS



These tubes are made of a correct size to fit either the front or rear wheels of the Ford car, eliminating the necessity of carrying tubes of two sizes. Falcon tubes are of the very finest quality rubber and are made extra heavy to withstand hard usage and the chance of blow-outs.

In producing the Combination Ford Tube we have borne in mind the usual hard service which Ford tubes are frequently called upon to give and have built them to give satisfaction and maintain the good reputation of Falcon products.

Falcon Gray Combination Tube, each	\$3.99
Falcon Red Combination Tube, each	3.89

ACCESSORIES FOR FORD CARS



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VIBRATORS, COILS, MANIFOLDS AND TIMERS

Connecticut Master Vibrator



The principle used in the operation of the Connecticut Master Vibrator is the same as with our other type of master vibrator coils, but the method of attaching is different. With the Connecticut Master Vibrator the coil is concealed behind the dash, only the flush switch being visible, making a very neat appearance and not obstructing the dash as with some of the other types. This vibrator will give the same satisfaction as our other types of vibrators; that is, it unifies the spark control, insures proper timing and guarantees a uniform current flow from the magneto to the spark plug.

"The Vibrator of Quality"

Each \$9.00
Each, D.P. \$12.21
Doz. lots, each, D.P. \$11.10

New York Master Vibrator

Smaller in size than our high-duty type, but the same care is taken in its construction. Particularly suitable to Ford cars and is guaranteed to give satisfactory service. Handsome mahogany case, ready to attach to dash and may be wired to ignition system without cutting dash.



Each \$8.00
Each, D.P. \$11.11
Lots of 12, each, D.P. \$10.55

Gibson Quality High Duty Master Vibrator



The Gibson Quality High Duty Master Vibrator combines all the excellent features of all other vibrators. It corrects the variable condition in ignition, insures proper timing, and constant, uniform flow of current to the spark plugs. Genuine, hardened Iridium Platinum points and special high-duty condenser used insuring good hot spark with a resulting increase in motor power. Built in handsome, polished mahogany case with polished brass brackets to attach to dash.

Special price, each \$12.00
Each, D.P. \$16.66
Lots of 6, each, D.P. \$15.55

Cable Manifolds



Cable Manifolds for re-wiring Ignition Systems, complete with spark plug wires. Cables are enclosed in a flexible oil tight metal conduit with rubber enclosed ends, and all wires are finished and provided with copper terminals. The five wire manifold provides for a wire to connect to the electric head lamps.

No. 6032MS five wire manifold in metal conduit complete with spark plug wires, each \$1.25

Each, D.P. \$1.66 In dozen lots each, D.P. \$1.44
No. 5080M four wire manifold in metal conduit, complete with spark plug wires, each \$1.00
Each, D.P. \$1.33 In dozen lots, each, D.P. \$1.22
No. 5080L four wire manifold in flexible loom, complete with spark plug wires, each 1.00
Each, D.P. \$1.33 In dozen lots, each, D.P. \$1.22
No. 6032M five wire manifold only, metal covered, each,85
Each, D.P. \$1.11 In dozen lots, each, D.P. \$1.00
No. 5610M four wire manifold only, metal covered, each,75
Each, D.P. \$0.88 In dozen lots, each, D.P. \$0.83
No. 5080L four wire manifold only, flexible loom, each75
Each, D.P. \$0.88 In dozen lots, each, D.P. \$0.83
No. 3151 spark plug wires only, per set50
Per set, D.P. \$0.55 Dozen sets, per set, D.P. \$0.50

Monarch Timer



For Ford Cars

Absolutely first class in construction and material. Wearing parts made of special 40 degree dynamo steel, rollers and contacts hardened and ground. Will fit model T Ford cars without change and may be attached in a few minutes. Long service and an accurate running engine are attainable with the use of this timer.

Each \$1.50
Each, D.P. \$2.22 In dozen lots, each, D.P. \$2.00

J & B Timer for Ford Cars



The J. & B. Timer is constructed along approved lines and is a very reliable instrument. Contacts are hardened and set in seasoned fiber. Will fit Model T Fords and give satisfactory service.

Price each \$1.25
Each, D.P. \$1.66
Doz., each, D.P. \$1.55

Timers



Milwaukee Ford Timers for 1913 to 1915, each, \$2.00
Each, D.P. \$3.00



ACCESSORIES FOR FORD CARS

SWITCHES, LAMP BRACKETS, PUSH BUTTONS AND BULB CASES

Cutler-Hammer Push and Pull Switch

The Push and Pull Switch, while designed primarily for automobile service, may be used on low voltages wherever a small, compact switch is desired. In spite of its small size it has a larger current-carrying capacity than any other switch of its class, being rated at 10 amperes at 80 volts. It operates with an absolutely quick "make and break."

No. 7160 Single Switch, complete with plate, each.....\$0.60
Each..D.P. \$0.75



Type N. F. Lighting Switch



Single Gang Type N. F. Switch

This is a neat, serviceable switch and is easily installed by simply boring a hole in the dash to take the barrel of switch. Highly insulated to withstand intense heat and rough usage.

Size 1½ inches high by 1 inch wide, nickel plated; each\$0.50
Each..D.P. \$0.56

Acme Switch

This is a high grade, rubber base switch, for any purpose where a switch is to be used for controlling electric circuits such as for automobile, motor boat, stationary engine, electric lighting and for innumerable other purposes. It has a strong base, phosphor bronze lever; heavy contacts and rubber button. A classy article. Nickel-plated.

No. 1. Acme Switch, each.....\$0.25
Each..D.P. \$0.33 Dozen..D.P. \$3.33

Levers for Acme Switches, each .15
Each..D.P. \$0.15 Dozen..D.P. \$1.44



1915-1916 Lamp Bracket



This bracket for use on a Ford car that employs the single-part bracket for head lamps. Drop forged of heavier material than the standard.

Per pair\$1.00
Pair..D.P. \$1.66

Presto Push Buttons

A large-size horn button operating by the slightest touch, making contact by a tipping motion. Always easy to locate and can be operated with gloves on or a touch of the arm or knee.

Special Type for Fords,
each\$0.25
Each..D.P. \$0.42
Dozen..D.P. \$4.44



Fore-Door Mounting

Plug and Cap

No. 221 C Plug and Cap, twin wire;
each\$0.25
Each..D.P. \$0.33
Dozen..D.P. \$3.55



Elbow Plug and Cap

A 8 Elbow Plug and Cap,
twin wire; each.....\$0.45
Each..D.P. \$0.55
Dozen..D.P. \$6.10



The Dover Bulb Case



Made of cold rolled steel and fitted with a removable cap on each end. Each cap is provided with a socket for securely holding a headlight bulb in place.

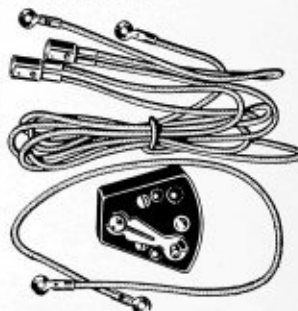
The handiest way to carry extra electric light bulbs. Size 2½ x 7½ inches long.

Price, each\$0.35
Each..D.P. \$0.55

Harness and Switch

All wiring necessary together with plugs, terminals and switch for wiring for head lamps.

Per set\$0.75
Set..D.P. \$1.11



Ford Harness and Switch

ACCESSORIES FOR FORD CARS



327

ELECTRIC HEADLIGHT REGULATORS

The Waynelite Transformer

For Ford Lighting Systems.



The Ford cars equipped with electric headlights at the factory, have their lights connected directly to the magneto, which depends on the speed of the engine for the amount of current delivered.

Due to the amount of current demanded for ignition, this results in very dim lights at low engine speeds and such excessively strong current at high engine speeds that the lights are frequently burned out.

Many devices have been placed on the market to regulate the variable electric current, but none have met with complete success, depending as they have upon resistance to use up the excess current at high engine speeds and neglecting the dim lights at low engine speeds.

The Waynelite Transformer is offered to the Ford user as the only scientifically correct light Regulator. It is manufactured by the General Electric Company, who are the largest manufacturers of electrical appliances in the world and who have devoted several years to experimentation and research to produce this much-needed device. It does not depend upon resistance, series switches or choke coils to do its work, consequently it does not rob the spark plugs of their needed amount of current. There are absolutely no moving parts or adjustments to require attention and to get out of order, but it is a simple, rugged, heavy duty transformer coil, which depends on reaction to prevent the A. C. Magneto current from reaching such a high value as to be injurious to the lamp bulbs and also to maintain a sufficient flow of current to give the lamps the required amount at low speeds.

This little device may be mounted in any convenient place about the car and comes equipped with terminals and bracket for mounting and connecting to the lighting wires. It requires but a few minutes to attach and demands no mechanical or electrical knowledge to install or operate. Guaranteed to give perfect satisfaction in use and continued operation.

Each \$3.50
 Each D.P. \$6.11
 Dozen, each, . D.P. \$5.55

The Regulite

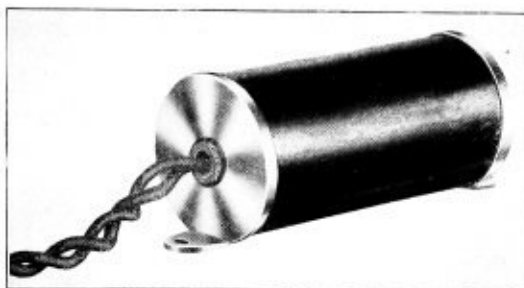
Regulates and Saves Lamps



The Regulite is a combination of switch and controller. Its most important function is to choke or impede the flow of current from the magneto to the lamps at excessive speeds.

Each \$2.50
 Each, . D.P. \$3.88

Evenlite Regulator



Constant Even Light at Six Miles or Sixty.

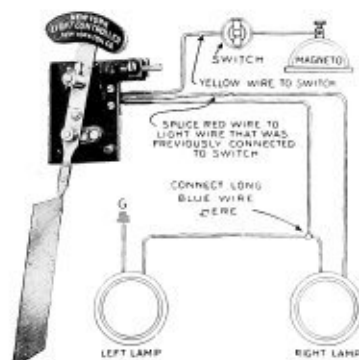
The Evenlite is a simple, rugged coil designed to equalize the electric current in the lighting systems of Ford cars and produces steady, full power lights at all engine speeds. Slow your engine down at street corners or on bad roads and your lights remain bright; speed up to the limit if you like and there is no change in your lights and no danger of burning out your lamps. Quickly and easily installed and fully guaranteed to give steady, bright lights at all engine speeds with an actual saving in current. Full instructions packed with each coil. Price complete, without lamps.

Each \$3.00
 Each, . D.P. \$5.33
 Dozen lots, each, . D.P. \$5.00

New York Light Regulator

These connections are all made at our factory.

WIRING DIAGRAM



This is a very simple device for controlling the variable lights on Ford cars. Can be attached in a few minutes by any one by bolting on to front cylinder head using one of the regular cylinder bolts. The head lights on Ford cars burn very dimly at low engine speeds, while at high speeds the high voltage produced often burns out the lamps. This device operates to eliminate these troubles, and gives a powerful, steady light at low speed and protects the lamps from burning out at high speeds.

When installed, the swinging arm is about eight inches back of the fan and hangs normally to one side, in such position that a switch mounted in the head of the instrument is closed and directs all of the lighting current to the left side lamp, which burns full brightness at low speed; as engine speed is increased, the increasing draft of air from the fan causes the swinging arm to swing over and cuts both lights into circuit, giving full brilliancy in both lamps at all normal driving speeds. Again when high engine speeds are reached, the arm swings still further, bringing into circuit a resistance or clamping coil which takes the excess voltage and saves the lamp from burning out. Simple to install and requires no attention. Strong, bright lights at all speeds. Fully guaranteed.

Each \$5.00
 Each, . D.P. \$8.33



ACCESSORIES FOR FORD CARS

IGNITION SYSTEMS AND MAGNETOS

Atwater Kent Ford System

The Ford owner who wishes to obtain the best possible power and efficiency from his motor can now install the same high grade ignition equipment used by such well-known car manufacturers as Chalmers, Peerless, Hupmobile, Regal, King, Imperial, Velie and many others.

The Atwater Kent Ford System is made in two forms: Type "K-2" with automatic spark control and Type "H" for use in connection with the regular spark lever.

The automatic spark control greatly improves the performance of the car, and in addition makes it safer, easier and pleasanter to drive.

A few of the many advantages of Atwater Kent ignition on a Ford are as follows:

- 1—Perfect synchronous ignition at all speeds.
- 2—Smooth running without missing or uneven firing, no matter how slow or how fast the motor is running.
- 3—Easier starting in cold weather.
- 4—Will idle at lowest possible speed and throttle down to three miles per hour on high gear.
- 5—All vibrator and magneto troubles eliminated. There are no vibrators and the magneto is not used.
- 6—Leaves magneto free for electric lighting.
- 7—Increased gasoline economy due to the higher efficiency of the motor when the spark is always properly timed.
- 8—Improved acceleration.
- 9—Safe starting, the spark being automatically retarded so as to prevent back-firing.

The Atwater Kent Ford System is quickly and easily installed without alterations or machine work. It will give better results on the Ford cars than any magneto and at a much lower price.

The Atwater Kent Ford System consists of:

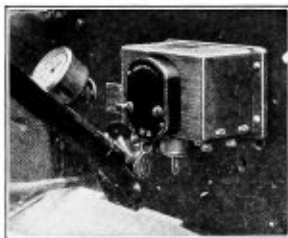
- 1—Unisparkler complete with necessary equipment for mounting.
- 2—Coil and switch.

The Atwater Kent coil can be furnished with either a substantial kick switch, which may be operated with the foot, or with a plate switch somewhat simpler and cheaper in construction if desired.



Type K-2 Ford Unisparkler Complete

K-2 with plate switch coil, each..... 28.00
Each.....D.P. \$46.62



Kick Switch Coil on Ford Dash

K-2 Atwater Kent System with automatic spark advance, including kick switch, each.....\$30.00
Each.....D.P. \$49.95



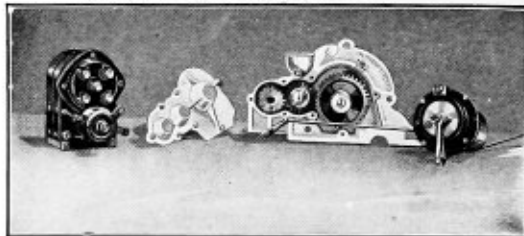
Type H Unisparkler with Bracket



Plate Switch Coil

Type H Atwater Kent System, without automatic spark advance, for connection to switch lever, including kick switch coil, each.....\$24.00
Each.....D.P. \$39.96
Type H with plate switch coil, each..... 22.00
Each.....D.P. \$36.63

Splittdorf Dual System for Ford



The Splittdorf Ford Dual System comprises a magneto of tried and tested design and construction and a perfected TS transformer for the dash, and, with its installation Ford owners are equipped to meet every emergency—the battery for starting and high-tension current for the running of the engine.

It has a noiseless, enclosed gear-driven installation, and, once on the car, the nuisance and expense of vibrators and the cumbersome box coil give way to an ultra-modern equipment more enduring than the motor.

Easy starting on the battery is advantageous at all times, and the merits of high-tension current for running are recognized in the operation of the highest priced automobiles.

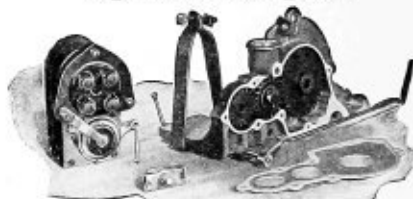
It gives Ford motors a "punch" hitherto unknown—the kick goes into every cylinder synchronically and imbues the motor with a "life" and "pick-up" sweet indeed to the motorist's heart.

Magneto, base, gears and gear housing, TS transformer, wires, terminals, spark-advance rod, plate for dash and all bolts and screws necessary are put up in single box with full installing instructions.

No machine work is necessary. The comparative novice, by following simple instructions, can install a Splittdorf Ford Dual System.

Each.....\$50.00
Each.....D.P. \$88.80

Splittdorf Ford Special Waterproof High-Tension Magneto



Increases motor efficiency; saves its cost in less gasoline consumption; assures constant electric lighting; installed easily, quickly and inexpensively.

It is just what its name implies—a high tension magneto of special construction to meet the special needs of Ford cars. Its general construction, wonderful effectiveness and natty appearance place it in the highest class. With noiseless enclosed gear-driven installation is assured a high tension ignition system second to none. No need for vibrators, coils or batteries—just a clean dash with a single switch, that is a joy to the modern motorist's heart.

The installation is very simple and can be accomplished in a very short time by any one. We furnish everything you need—magneto, base, gears and gear housing, switch wires, terminals, spark-advance rod and all screws and bolts necessary.

The entire outfit is packed in a single box with full instructions for installing.

Each.....\$45.00
Each.....D.P. \$79.92

ACCESSORIES FOR FORD CARS



329

IGNITION SYSTEMS

Rhoades Unit Spark

Ignition for Ford Cars.



The Rhoades Special Coil

Special Ford Fitting

In announcing the Rhoades Unit Spark System, built for Model "T" Ford cars, we are enabling the Ford owner to equip his car at low cost with an ignition system equal in performance and service to best systems on high-priced cars.

Of the many desirable features, perhaps the most important is the positive large size hot spark obtained at all engine speeds. This condition is not found in vibrating coils or magnetos even of the most expensive type, which is responsible for the small spark when the engine is cranked at starting.

This condition is existent in the Ford magneto and is an unfortunate fact, as this is the one time when, as every motorist knows, a large, hot spark is needed for easy starting.

This Unit Spark System produces but one large spark at exactly the proper instant instead of a number of small, weak ones coming either too early or too late and eliminates the use of the Ford timer with its four contacting points and also the Ford vibrator with eight contacting points with their resultant variations in timing.

The Rhoades Unit Spark System uses no vibrating coils or timers and breaks the circuit at but one point, this point being absolutely the only adjustment in the entire system.

Provision is made in the mechanism so that no spark is produced if the engine turns backward, nor is it possible for the contact points to remain together at any time so that even should the switch be left turned on with the engine idle there will be no drain on the battery.

This system is long past the experimental stage, having been in use for several years on a great many of the high-priced cars, where it was used in preference to the best magnetos.

Cover cap of mechanism is made of a high-grade insulating material, both handsome in appearance and practically indestructible. Contact points are Iridium Platinum and guaranteed not to stick, and all working parts are accurately made and finished.

Requires no expert knowledge to install and satisfactory service is guaranteed.

The coil box is mounted on dash in place of standard Ford box and is provided with a button, which when depressed produces a large spark for starting engine on compression.

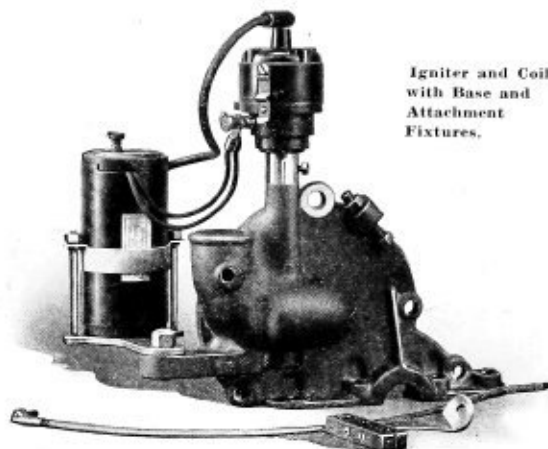
This coil has no vibrating parts or other moving parts and requires no attention after installation. A large kick switch is included and attached to coil box.

Compare this simple rugged system with magnetos, vibrators, timers, etc., and don't forget that it operates perfectly on dry cells even when down to two amperes, and that 2,000 to 4,000 miles' running is obtained from six ordinary dry cells.

Price complete, with fittings.....\$20.00
Each...D.P. \$33.33

Connecticut Ignition System

For Ford Cars



Igniter and Coil with Base and Attachment Fixtures.

Connecticut Automobile Ignition for Fords. A system of ignition that brings the Ford car up in efficiency and performance equal to any of the high-priced cars, and surpasses anything that is possible with magneto or vibrator ignition.

It is extremely simple in construction and operation, both mechanically and electrically, consisting of a coil, an igniter and an automatic control switch.

In operation the current flowing from storage batteries or generator enters the coil, which, due to the primary circuit being closed, thoroughly saturates the coil between the successive interruptions, delivering the low tension battery or magneto current to the spark plugs highly increased in power and full of snap and life.

As the circuit in this system remains closed except at the instant of interruption, and, as the interruptions are farther apart at low speeds, it follows that the period of saturation is larger also at low speeds. This results in the maximum hot spark at lowest engine speed, which is by far the most desirable time, as carburation is poor at slow speeds and the engine generally is least efficient.

By a live, hot spark at slow speed we gain easy starting, slower speeds in high gear, more power and full on hills and bad roads and rapid acceleration and getaway.

A closed circuit system has always been considered preferable to any other, but it must not remain closed while the engine is idle or batteries would soon be drained.

In the Connecticut System this hazard is very ingeniously taken care of and requires no attention or thought from the driver, as the automatic switch will of its own accord open the circuit by means of a thermostatic regulator should the driver forget to do so himself.

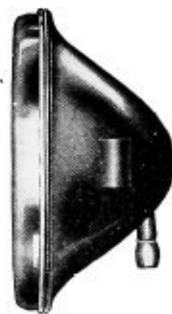
Installation is very simple and replaces all of the ignition wiring on the standard Ford car together with the timer and coil box on the dash. Fits exactly on the forward end of crank case, and replaces the timer gear case cover. New plate bolts on in place of old one and contains new timing gears ready set in place. The igniter and coil are attached to this place and require no adjustment. Switch attaches to dash in place of old coil box and presents an attractive appearance on car.

Price, each\$28.50
Each...D.P. \$50.00
Lots of 6, each...D.P. \$42.22
Lots of 12, each...D.P. \$38.00



ACCESSORIES FOR FORD CARS

LAMPS



10-inch Bullet

No. 310 Electric Headlight, 10-inch front, 7-inch prop centers, black and nickel; per pair....\$6.50
Per Pair..D.P. \$9.44

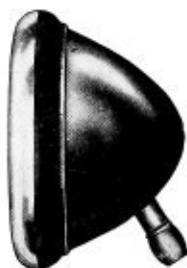
No. 410 Electric Headlight, 10-inch front, 7-inch prop centers, all black; per pair..... 6.50
Per Pair..D.P. \$9.44

No. 1310 Electric Headlight, 10-inch front, 7-inch prop centers, black and nickel; equipped with small bulb in upper part of reflector to act as dimmer; per pair 8.00
Per Pair..D.P. \$11.55

No. 1410 Electric Headlight, 10-inch front, 7-inch prop centers, all black; equipped with small bulb in upper part of reflector to act as dimmer; per pair... 8.00
Per Pair..D.P. \$11.55

No. 206 Electric Side Lamps, 6-inch front, black and nickel; per pair.....\$5.00
Per Pair..D.P. \$7.77

No. 306 Electric Side Lamps, 6-inch front, all black; per pair 5.00
Per Pair..D.P. \$7.77



6-inch Bullet



4½-inch Bullet

No. 204½ Electric Side Lamps, 4½-inch front, all black; per pair..\$3.50
Per Pair..D.P. \$5.55

No. 32 Electric Tail Lamp, red semaphore glass, each.....\$1.25
Each..D.P. \$1.66
In dozen lots, each..D.P. \$1.55



No. 32

The Bullet Type

1916 Ford



10-inch Bullet

Our Bullet lamps are made of the very best material and workmanship, quality being the watchword all along the line. They are the finest lamps which we know how to make and each and every one is carefully focused before leaving the factory.

No. 916 Electric Headlight, 10-inch front, single prop for 1916 Fords, all black; per pair.....\$6.50
Per Pair..D.P. \$9.44



1½-inch Bullet

No. 304½ Electric Side Lamps, 4½-inch front, stud bolt and nut attachment for 1915-1916 Fords, all black; per pair.....\$3.50
Each..D.P. \$5.55



No. 132

No. 132 Electric Tail Lamp, red semaphore glass.
Each\$1.25
Stud, bolt and nut attachments for 1915-1916 Fords.
Each..D.P. \$1.66 In dozen lots, each..D.P. \$1.55

GAS AND OIL LAMPS

Oil Side Lamps



Nos. 426 and 126



Nos. 526 and 326

This new type lamp is beautiful in design, die work construction throughout, all parts interchangeable and fitting perfectly.

Oil pot locks with a simple turn of the wrist. Semaphore lens used, retained by a snap ring; door fastened by a spring catch and a knurled nut.

Height over all, 8½ inches; body 4 x 4½ inches. Fitted with red jewel in rear.

No. 126 Oil Side Lamp, black and nickel; pair... \$4.00
 Pair... D.P. \$6.66

No. 326 Oil and Electric Combination Side Lamp, black and nickel; pair... 5.00
 Pair... D.P. \$8.33

No. 426 Oil Side Lamp, all black; pair... 4.00
 Pair... D.P. \$6.66

No. 526 Oil and Electric Combination Side Lamp, all black; pair... 5.00
 Pair... D.P. \$8.33

Oil Tail Lamps



Nos. 424 and 124



Nos. 524 and 324

Height over all 8½ inches, body 4 x 4½ inches; both semaphore and ruby lenses.

No. 124 Oil Tail Lamp, black and nickel; each... \$2.00
 Each... D.P. \$3.33

No. 324 Oil and Electric Combination Tail Lamp, black and nickel; each... 2.50
 Each... D.P. \$4.22

No. 424 Oil Tail Lamp, all black; each... 2.00
 Each... D.P. \$3.33

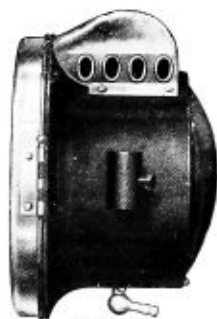
No. 524 Oil and Electric Combination Tail Lamp, all black; each... 2.50
 Each... D.P. \$4.22

Gas and Oil Lamps

No. 80 Gas Headlight, 8-inch front, 5-inch Mangin mirror, 7-inch prop center, black and nickel.

Per pair... \$7.00

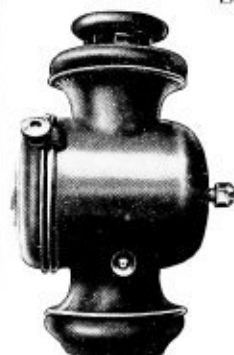
Per pair... D.P. \$10.00



8-inch Gas

1915-1916 FORD CARS

Side Lamps



No. 626



No. 726

This new type lamp is beautiful in design, die work construction throughout, all parts interchangeable and fitting perfectly.

Oil pot locks with a simple turn of the wrist. Semaphore lens used, retained by a snap ring; door fastened by a spring catch and a knurled nut.

Made with a stud bolt and nut on lamp back to fit 1915-1916 Fords.

No. 626 Oil Side Lamp, all black, per pair... \$4.00
 Per Pair... D.P. \$6.66

No. 726 Oil and Electric Combination Side Lamp, all black, per pair... 5.00
 Per Pair... D.P. \$8.33

Tail Lamps



No. 624



No. 724

This lamp is vibration proof. It is almost indestructible—made of heavy steel, tin-coated to prevent rusting.

No. 624 Oil Tail Lamp, all black, each... \$2.00
 Each... D.P. \$3.33

No. 724 Oil and Electric Combination Tail Lamp, all black, each... 2.50
 Each... D.P. \$4.22



ACCESSORIES FOR FORD CARS

LAMPS AND REFLECTORS

Lamp Outfits for Fords



These lamp outfits consist of a pair of electric lamps as shown, with bulbs, sufficient high-grade lighting cable to wire up lamps to magneto, socket, plugs and terminals attached, and a switch. Lamps will be nine-volt unless otherwise specified.

No. 2310 Head Lamp Outfit includes one pair No. 310 Lamps with harness, black and nickel. Price \$7.50
 Per Outfit...D.P. \$9.50

No. 3310 Head Lamp Outfit includes one pair No. 1310 Lamps with harness, black and nickel.
 Price 9.00
 Per Outfit...D.P. \$11.66

No. 2410 Head Lamp Outfit includes one pair No. 410 Lamps with harness, all black. Price..... 7.50
 Per Outfit...D.P. \$9.50

No. 3410 Head Lamp Outfit includes one pair No. 1410 Lamps with harness, all black. Price..... 9.00
 Per Outfit...D.P. \$11.66



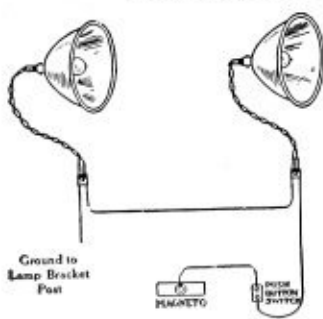
No. 2306 Side Lamp Outfit includes one pair No. 206 Side Lamps with harness, black and nickel.
 Price\$6.00
 Per Outfit...D.P. \$8.88

No. 5306 Side Lamp Outfit includes one pair No. 306 Side Lamps with harness, all black. Price.. 6.00
 Per Outfit...D.P. \$8.88

No. 1204 1/2 Side Lamp Outfit includes one pair No. 204 1/2 Side Lamps with harness, all black; for 1915-1916 cars. Price..... 4.50
 Per Outfit...D.P. \$6.66

No. 1304 1/2 Side Lamp Outfit includes one pair No. 304 1/2 Side Lamps with harness, all black; for 1915-1916 cars. Price..... 4.50
 Per Outfit...D.P. \$6.66

Lighting Outfit for Fords

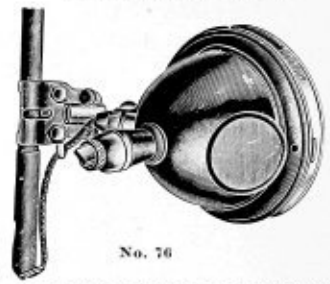


This outfit consists of a pair of silvered brass reflectors, sufficient high-grade cable fitted with sockets and terminals, flush turn button switch and a pair of electric bulbs. All ready to install and is intended to convert gas lamps into electric or as replacement in other electric lamps. Made in two sizes:

No. 15 has 8-inch reflectors; No. 16 has 9-inch reflectors.

Complete outfit\$3.00
 Each...D.P. \$4.22

Old Sol Spot Light



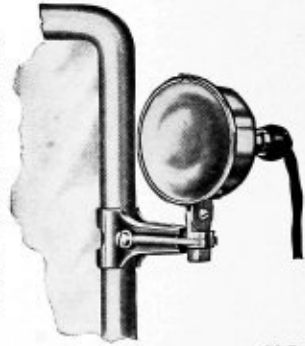
No. 76

May be clamped to windshield or fastened to forehead, side of body or any place convenient to the hand. Is a powerful 6 1/2-inch searchlight, swivelled to throw light in any direction. May be connected to Ford magneto and used for road driving in place of head lights. Road-view mirror built in back of lamp shows the road behind for day-time driving. Specify nine-volt lamps when to be used with Ford magneto. Handsomely finished and with socket switch.

Each\$4.50
 Each...D.P. \$6.66
 Lots of 12, each...D.P. \$6.11

Electric Searchlight

C. S. Searchlight designed to meet the demand for a powerful Searchlight of small size. This lamp is only three inches in diameter, has high grade lens and is furnished with an eight C. P. Tungsten bulb. Has a substantial bracket which is so designed that it can be clamped to edge of any windshield. Bracket is provided with double swivel joint so that light can be thrown in any direction. Complete with cord and attachment plug.



Each\$2.50
 Each...D.P. \$3.33 Lots of 12, each...D.P. \$3.00



Head Lamp Glass for Ford lamps. Made of double strength glass and of proper size for standard Ford lamps. Sizes 7 1/2-inch or 8 1/2-inch diameter.

Each\$0.15
 Each...D.P. \$0.22
 Dozen...D.P. \$2.00

Mangin Mirror Reflectors

Extra heavy ground and polished reflectors, highly silvered for back of gas lamps. The same mirror as used in highest priced gas lamps and should not be confused with the common, cheap, thin glass mirrors.

Each\$1.00
 Each...D.P. \$1.44
 Dozen...D.P. \$16.00



ACCESSORIES FOR FORD CARS



CARBURETORS, ETC., FOR FORD CARS



Model L Kingston Ford

In this Carburetor are embraced the very latest features of automatic carburetor construction, serving to make up a combination which is absolutely without parallel where power, speed, efficiency and especially easy starting in cold weather are required.

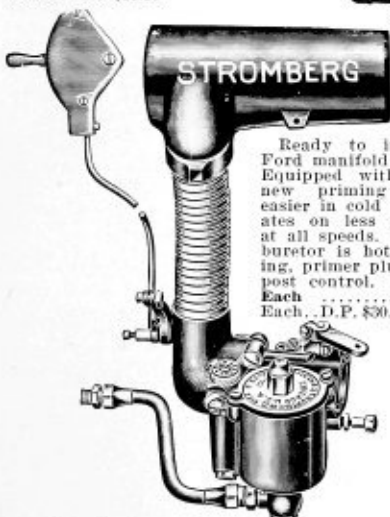
This Carburetor will, without any extra fittings, perfectly fit the Ford Model T manifold and operating rods.

Model "L" Kingston Ford, each\$7.50
 Each...D.P. \$12.22
 Dozen...D.P. \$11.11

Model L Schebler Carburetor for Ford Cars

Can be installed with very little trouble. The outfit for Ford cars consists of one only 1-inch Model L Schebler Carburetor, one manifold, one priming cup, one gasoline connection, tubing and throttle rods.

Price complete, as above \$18.00
 Each...D.P. \$33.30



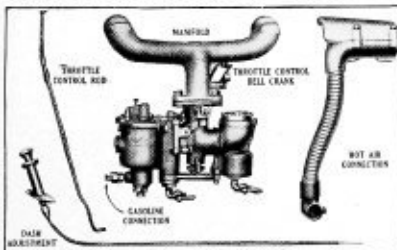
New Stromberg for Fords

Ready to install on regular Ford manifold and gasoline line. Equipped with economizer and new priming plunger, starts easier in cold weather and operates on less gasoline per mile at all speeds. Included with Carburetor is hot air housing tubing, primer plunger and steering post control.
 Each\$18.00
 Each...D.P. \$30.00

Special Rayfield Carburetor for Fords

This complete Ford Assembly as shown in the illustration consists of a 1-inch Model "B" Rayfield Carburetor, a specially designed Ford manifold hot air fitting, throttle control bell crank, throttle control rod, special gasoline connection and dash adjustment. Packed in a box, complete, ready for quick installation. It can be installed in two hours by an ordinary mechanic.

Price, with all fittings complete.....\$23.00
 Each...D.P. \$34.04



Rayfield Carburetor Assembly



Gasoline Economizer



This Gasoline Economizer, especially adapted for Ford cars, will save 20 per cent of gasoline. Can be attached in ten minutes. Lever is attached to steering post. By moving the lever you increase the air supply to cylinders at will. The air is broken up into a fine spray and mixes with the gasoline, thus enriching the mixture. The mixer screws into the manifold. A child can operate it. Complete outfit, highly polished, nickel finish, with flexible shaft connecting from steering post to manifold in strong box with full directions for attaching. **Gasoline Economizer, complete, each.....\$2.50**
 Each...D.P. \$3.89



"Nycor" Accelerator and Power Adder

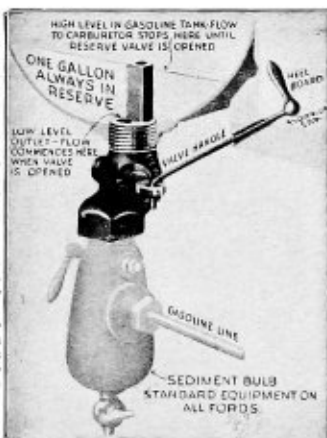
The "Nycor" Accelerator and Power Adder for Ford cars only. A 20 per cent increase in power; a 25 per cent saving in gasoline. Prevents carbon, stops engine overheating, keeps spark plugs clean, saves brake lining. Instantly installed between carburetor and inlet pipe. It affords a convenient and positive means of priming, as the valve is easily held open so that gasoline may be injected by means of a squirt can directly into the air chamber, from which it is drawn to all four cylinders at the first turn of

starting crank. This saves buying spark plugs with pet cock attachments and is naturally a far better method than removing plugs. **"Nycor" Accelerator and Power Adder.....\$5.00**
 Each...D.P. \$8.33

New Era Ford Gasoline Reserve Valve

Every Ford owner can have a reserve gasoline tank on his car by installing, in a few minutes without cutting or soldering, a New Era Ford Reserve Gasoline Valve, which insures him of one gallon of gasoline always held in reserve. It quickly makes two tanks in one, or two compartments in one tank, one of nine gallons and the reserve of one gallon, or enough to go 20 to 25 miles to find more gasoline. The New Era Ford Reserve Gasoline Valve protects the car owner from being stalled for the want of gasoline, or paying extra for having gasoline brought to his car. As a time saver many times a year it will prove worth more than its small cost of \$1.00. Reserve gasoline turned on without leaving the car, as the valve is controlled by a lever through the heel board.

The New Era Ford Reserve Gasoline Valve is easily installed on Ford cars between the gasoline tank and sediment trap, in place of present attachment, which screws in bottom of all Ford tanks, requiring about ten minutes' time and no tool other than an ordinary wrench. It's good for the life of the car; a full paid-up life insurance against delay, bother or worry about getting stuck—sometimes that might be serious. **Each\$1.00**
 Each...D.P. \$1.67



For Fords



McQUAY-NORRIS
LYNITE
 ALUMINUM
 PISTONS

completely
 equipped
 with

McQUAY-NORRIS
LEAK-PROOF
 PISTON RINGS



This is the most important improvement for Ford Cars ever brought out. LYNITE Aluminum Pistons have hitherto been identified exclusively with the high-class, high-price cars. Ford Owners can now reach the same standard of mechanical efficiency.

McQuay-Norris LYNITE Pistons prove their superiority over the cast-iron pistons at every point. They are two-thirds lighter—a set of four of these LYNITE pistons weighs very little more than one cast-iron piston of the same dimensions. That lightness means quicker acceleration, higher speed, less vibration, lighter bearing pressure and longer bearing life. Friction is 50 per cent less, so that more power is developed with a reduced consumption of lubricating oil. They are also much cooler, which has its result in less carbon forming in the cylinders, cleaner spark plugs and exact valve seating.

Each one of these McQuay-Norris LYNITE Pistons is fitted with three **LEAK-PROOF** Piston Rings—the most effective and durable piston rings made. Firm enough to hold its bearing, yet delicate enough to minimize friction—tough enough to outlast the motor, yet soft enough to take all the wear from the cylinder.

McQuay-Norris Mfg. Co.
 St. Louis, U. S. A.

Four Pistons with Leak-Proof Rings, per set, complete \$30.00
 Per set, .D.P. \$53.33

WIND SHIELDS

Straight Type



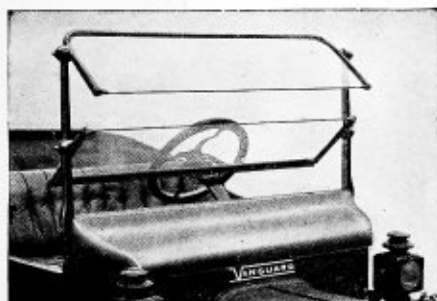
Model No. 10, 42" wide—27½" high

Model No. 10 is the regular equipment furnished the Ford Motor Company for their 1911 and 1912 cars. We do not furnish filler board with model No. 10, but all necessary parts for attaching are furnished.

No. 10-P, Plate Glass, each.....\$15.00
Each..D.P. \$23.33

No. 10-C, Coach Glass, each..... 10.00
Each..D.P. \$15.55

De Luxe Cowl Type



For 1914 Ford Cars
Model V-15—Plate glass only
40½" wide

The need for a shield and cowl combined to bring the 1914 Ford cars up to date was responsible for the designing of this model.

This shield is clear view, rain vision and ventilating, and is equipped with the best quality of plate glass only. It is easily attached and all necessary equipment is furnished. Loops for top strap snaps are provided in proper position.

The cowl is 40½ inches wide and will fit any car with straight dash which is of the same width from outside to outside at a point just in front of the fore doors.

It is beautifully designed, adds greatly to the appearance of the car, and gives the older Fords the stream-line effect of the late model.

Model V-15, Plate Glass only, each.....\$12.50
Each..D.P. \$19.44

Zig Zag Type



Model No. 12, 42" wide—27½" high

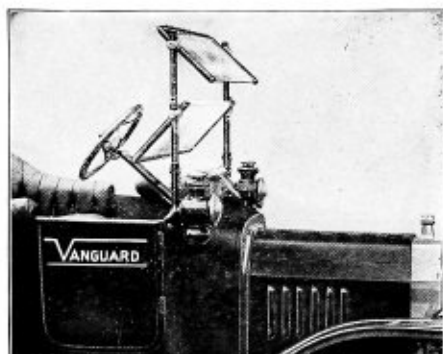
Model No. 12 is an exact duplicate of shields furnished for the regular 1913 and 1914 cars. It is made with the dividing bars used on the 1914 shield and folds toward the driver.

No. 12-P, Plate Glass, each.....\$15.00
Each..D.P. \$23.33

No. 12-C, Coach Glass, each..... 10.00
Each..D.P. \$15.55

Adjustable Type

For 1915 and 1916 Ford Cars



Model Z-15—Plate glass only
Model Z-16—Plate glass only
39½" wide—24" high

Model Z-15 is not provided with brackets or cross bar, and was designed to fit into the brackets on the car when the non-ventilating shield was removed. The side members fit into the brackets and are drilled when in position, for inserting the bolts which are furnished. This construction allows the shield to be attached without disturbing the brackets attached to the body.

Model Z-15, Plate Glass only, each.....\$10.00
Each..D.P. \$15.55

(Order when car is already equipped with side brackets for side standards.)

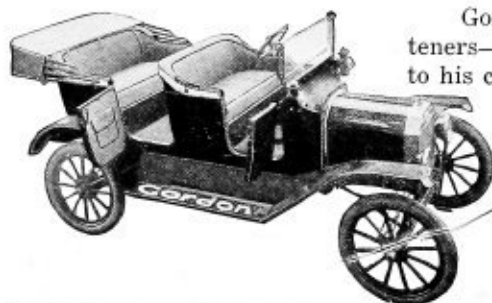
Model Z-16, Plate Glass only, each..... 10.00
Each..D.P. \$15.55

(Has side brackets included for cars not so provided.)

ACCESSORIES FOR FORD CARS



SEAT COVERS FOR FORDS



Gordon Seat Covers are attached with glove fasteners—these come put in—anyone can attach them to his car in half an hour's time—all you have to do is to screw in the studs. This is done with an ordinary screw-driver without injuring or marring the body in any way.

For description of seat cover materials, see Page 162

Number of Material	1046	1000	1032 1050 1074	1027 1070	1028 1029 1030 1031	1021 1022	1033	1034 1035	1036 1037	1088
Ford..... Touring. 5-p. 1911	\$10.00	\$12.00	\$14.00	\$16.00	\$18.00	\$19.00	\$22.00	\$23.00	\$26.00	\$32.00
Ford..... Touring. 5-p. 1912	10.00	12.00	14.00	16.00	18.00	19.00	22.00	23.00	26.00	32.00
Ford..... Touring. 5-p. 1913	9.00	10.50	13.00	15.00	17.00	19.00	22.00	23.00	26.00	32.00
Ford..... Touring. 5-p. 1914	8.00	9.30	12.50	14.50	16.00	19.00	22.00	23.00	26.00	32.00
Ford..... Touring. 5-p. 1915	8.00	9.30	12.50	14.50	16.00	19.00	22.00	23.00	26.00	32.00
Ford..... Touring. 5-p. 1916	8.00	9.30	12.50	14.50	16.00	19.00	22.00	23.00	26.00	32.00
Ford..... Runabout. 2-p. 1911	6.00	7.00	9.50	10.00	10.50	13.00	14.00	15.00	16.00	20.00
Ford..... Runabout. 2-p. 1912	5.50	6.50	9.00	9.50	10.00	13.00	14.00	15.00	16.00	20.00
Ford..... Runabout. 2-p. 1913	5.50	6.50	9.00	9.50	10.00	13.00	14.00	15.00	16.00	20.00
Ford..... Runabout. 2-p. 1914	4.50	5.50	7.50	8.00	8.50	13.00	14.00	15.00	16.00	20.00
Ford..... Runabout. 2-p. 1915	4.50	5.50	7.50	8.00	8.50	13.00	14.00	15.00	16.00	20.00
Ford..... Runabout. 2-p. 1916	4.50	5.50	7.50	8.00	8.50	13.00	14.00	15.00	16.00	20.00



We furnish a cover for the back of the front seat, with a large pocket.

For this an extra charge is made.



We can furnish a top slip cover to match seat covers, and for this an extra charge is made.

Number of Material	5020	5018	5062 5042 5035	5057	5058 5059 5060 5061	5051 5052	5063	5064 5065	5066 5067	5036
Piece to cover back of front seat with pocket for any car	\$1.30	\$1.40	\$2.00	\$2.75	\$3.00	\$3.25	\$3.50	\$4.00	\$4.50	\$5.00
Top Slip Cover, match Ford only	2.70	3.00	4.00	4.25	4.50	5.00	6.00	7.00	8.00	9.00
5029 matches 1046 Seat Cover.	5058 matches 1028 Seat Cover.	5065 matches 1035 Seat Cover.	5018 matches 1000 Seat Cover.	5059 matches 1029 Seat Cover.	5066 matches 1036 Seat Cover.	5062 matches 1032 Seat Cover.	5063 matches 1033 Seat Cover.	5067 matches 1037 Seat Cover.	5036 matches 1088 Seat Cover.	5064 matches 1034 Seat Cover.
5042 matches 1050 Seat Cover.	5060 matches 1030 Seat Cover.	5066 matches 1036 Seat Cover.	5035 matches 1074 Seat Cover.	5061 matches 1031 Seat Cover.	5067 matches 1037 Seat Cover.	5057 matches 1027 Seat Cover.	5063 matches 1033 Seat Cover.	5067 matches 1037 Seat Cover.	5036 matches 1088 Seat Cover.	5064 matches 1034 Seat Cover.
5035 matches 1074 Seat Cover.	5067 matches 1037 Seat Cover.	5065 matches 1035 Seat Cover.	5057 matches 1027 Seat Cover.	5061 matches 1031 Seat Cover.	5067 matches 1037 Seat Cover.	5051 matches 1021 Seat Cover.	5063 matches 1033 Seat Cover.	5067 matches 1037 Seat Cover.	5036 matches 1088 Seat Cover.	5064 matches 1034 Seat Cover.
5057 matches 1027 Seat Cover.	5064 matches 1034 Seat Cover.	5065 matches 1035 Seat Cover.	5057 matches 1027 Seat Cover.	5061 matches 1031 Seat Cover.	5067 matches 1037 Seat Cover.	5051 matches 1021 Seat Cover.	5063 matches 1033 Seat Cover.	5067 matches 1037 Seat Cover.	5036 matches 1088 Seat Cover.	5064 matches 1034 Seat Cover.

Special Seat Cover for Fords

No. 1002. This Seat Cover is made of a tan color double texture waterproofed material. It will give good service, but the color is not guaranteed. Same material as No. 1000.

Trimmings are arm rests of English grain patent leather finish, binding to match on the door pieces only; attached with glove fasteners and cleaned with soap and water and a brush.

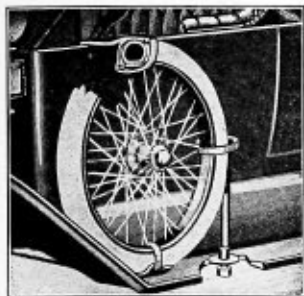
For Ford Touring Car.....	\$5.98
For Ford Runabout.....	3.98
Top Slip Cover.....	2.28
Piece to cover back of front seat, with pocket.....	.98

No. 1004. This Seat Covering is made of a gray single texture material, can be cleaned with gasoline, as it has no leather trimmings; attached with glove fasteners; made of same material as No. 1046.

For Ford Touring Car.....	\$5.48
For Ford Runabout.....	3.48
Top Slip Cover.....	1.98
Piece to cover back of front seat, with pocket.....	.88

TIRE HOLDERS FOR FORDS

Running Board Tire Holder



No. 115

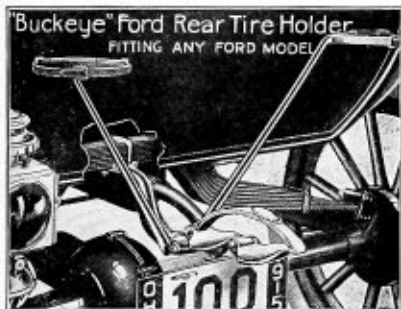
No. 115 Running-board Tire Holders for Ford cars only and for carrying extra wire wheel or demountable rim.

Made extra heavy, the top support being turned at end and fitting over the side of the body and bolted to same directly opposite the horn bulb.

No. 115 Complete with straps.....\$3.75
Per Set...D.P. \$4.44

Buckeye Ford Rear Tire Holder EXTRA HEAVY TYPE

Fitting any Ford model. Carries one or two tires. Center support heavily ribbed and clamped to center of rear spring with "U" bolt which is furnished. The two side arms cast in pairs and securely fitted to center support.



No. 114

An extra curved lamp bracket is furnished which replaces the one furnished with car.

An extra rear license holder is also furnished, together with straps which makes the set fully complete. Packed in individual boxes.

No. 114. Price complete with straps.....\$3.50
Per Set...D.P. \$4.22

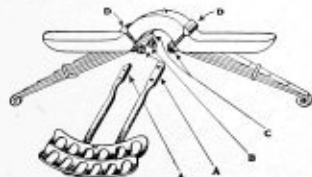
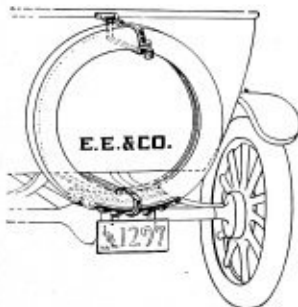
Will carry 30x3, 30x3½ or 31x4 tires, whether on rim or not.

This is the last word in Tire Holder construction. Will hold two tires or two demountable rims with tires. Made of extra heavy malleable iron and steel. Finished in high grade black rubber finish. Guaranteed to last a lifetime. Easy to attach. Full directions for attaching with each outfit.

Price, including strap.

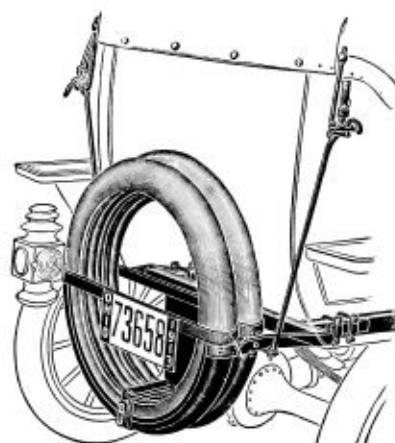
Ford sizes\$3.00

Price...D.P. \$5.00



This Shows Method of Attaching the No. 400 Tire Holder

Sly Perfect Combined Lamp, Number Plate, Tire Holder and Lock FORD SPECIAL



A Ford Special fills up the open rear. Combination Holder for Lamp and Number Plate and Tires. A snug cradle for half the tire—avoids chafing in spots—does away with hand straps, and also combines Lamp Bracket, License Number Plate Holder, and a snap lock. Looks good. Is good. Does not cost much and all Ford owners are real prospective buyers because "convenience, common sense and economy," all in one, sounds reasonable to every man.

No. 101 Rear Tire Holder, one tire, 30 x 3½; price.. \$4.00
Each...D.P. \$6.66

No. 102 Side Tire Holder, one tire, 30 x 3½; price.. 3.75
Each...D.P. \$6.24

No. 105 Rear Tire Holder, one tire, 31 x 4; price... 4.75
Each...D.P. \$7.88

No. 106 Side Tire Holder, one tire, 31 x 4; price... 4.25
Each...D.P. \$7.11

No. 220 Rear Tire Holder, two tires, 30 x 3½; price. 5.00
Each...D.P. \$9.44

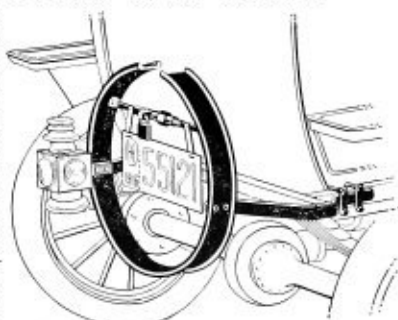
No. 221 Side Tire Holder, two tires, 30 x 3½; price. 4.50
Each...D.P. \$8.33

No. 224 Rear Tire Holder, two tires, 31 x 4; price.. 6.00
Each...D.P. \$10.00

No. 225 Side Tire Holder, two tires, 31 x 4; price.. 5.50
Each...D.P. \$9.11

The Ideal Way of Tire Carrying—One Size—Does It All

Sly Perfect Interchangeable Tire Holder will take 30 x 3, 30 x 3½, or 31 x 4 tires whether mounted on demountable rims or not. Tires are held on holders by means of a strong expansion grip on inside of tire, so that there is no rubbing or chafing. Quickly adjustable from one size to another and tires can be locked in holder. Provision for lamp and license plate. Quickly attached to Ford without drilling or fitting.



No. 150 Sly Perfect Interchangeable Tire Holders
for one tire, each.....\$3.50
Each...D.P. \$5.77



ACCESSORIES FOR FORD CARS

BUMPERS AND TIRE COVERS

Ever-Good Bumpers for Fords

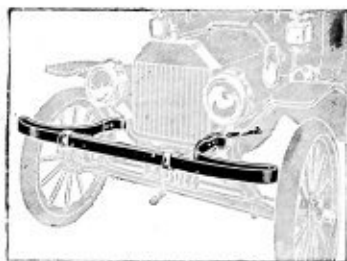


- No. 5805N—1½-inch Round, nickel rail, black side fittings. Price each \$5.00
Each. .D.P. \$8.33
- No. 5805B—1½-inch Round, black rail, black side fittings. Price each 4.50
Each. .D.P. \$7.22 Lots of 6, each. .D.P. \$6.66



- No. 5807N—1½-inch Diamond, nickel rail, black side fittings. Price each \$7.00
Each. .D.P. \$10.55 Lots of 6, each. .D.P. \$9.44
- No. 5807B—1½-inch Diamond, black rail, black side fittings. Price each 6.50
Each. .D.P. \$8.88 Lots of 6, each. .D.P. \$8.33
- No. 5806N—1½-inch Channel, nickel rail, black side fittings. Price each 6.00
Each. .D.P. \$9.11 Lots of 6, each. .D.P. \$8.33
- No. 5806B—1½-inch Channel, black rail, black side fittings. Price each 5.50
Each. .D.P. \$7.22 Lots of 6, each. .D.P. \$6.66
- No. 6200N—2-inch Channel, nickel rail, black side fittings. Price each 6.50
Each. .D.P. \$9.77 Lots of 6, each. .D.P. \$8.88
- No. 6200B—2-inch Channel, black rail, black side fittings. Price each 6.00
Each. .D.P. \$9.11 Lots of 6, each. .D.P. \$8.33

The Lyon Resilient Indestructible Spring Bumper



- is cushioned by this powerful spring.
- No. 7—All Black, baked enamel finish. Price..... \$6.00
Price. .D.P. \$10.00
- No. 8—Nickel Rail, black enamel fittings. Price... 8.00
Price. .D.P. \$12.22

Made to fit Ford cars without drilling the car frame and may be attached in a few minutes. These bumpers are made of high carbon spring steel, and can not be damaged by any ordinary collision. Absolutely protect the car as the blow of a collision

Spring and Button Tire Covers

Black Enameled Drill



A good, serviceable low priced tire cover, well fitted and fastened with snap glove fasteners.

- No. 950 — For tires not on demountable rims. Sizes 30 x 3, 30 x 3½, 31 x 4. Price each \$1.00
Each. .D.P. \$1.44
Doz. .D.P. \$16.00

- No. 960 — For tires on demountable rims. Sizes 30 x 3, 30 x 3½, 31 x 4. Price each 1.25
Each. .D.P. \$1.66 Dozen. .D.P. \$17.76

Spring and Button Tire Covers

Black Enameled Duck

A better grade of cover, heavier and stronger than our drill cover.

Fits snugly and smoothly and protects tires from rain, sun and road dirt.

Fastened with snap glove fasteners and provided with a flat spring running a round edge of cover to insure a close fit.

- No. 970—For tires not on demountable rims. Sizes 30 x 3, 30 x 3½, 31 x 4. Price each.....\$1.50
Each. .D.P. \$2.10 Dozen. .D.P. \$24.00
- No. 980—For tires on demountable rims. Sizes 30 x 3, 30 x 3½, 31 x 4. Price each 1.50
Each. .D.P. \$2.10 Dozen. .D.P. \$24.00



Spiral Spring Tire Covers



This is an adjustable one-piece tire cover held in position by two endless spiral springs, and slips on smooth and perfect fitting, without the use of any other fastening device. Made of best quality black enamel duck.

- No. 1296—For tires not on demountable rims:
Size 30 x 3, each.....\$1.75
Each. .D.P. \$2.44
Size 30 x 3½, each..... 1.75
Each. .D.P. \$2.44
Size 31 x 4, each..... 1.85
Each. .D.P. \$2.66
- No. 1292—For tires on demountable rims:
Size 30 x 3, each.....\$1.75
Each. .D.P. \$2.44
Size 30 x 3½, each..... 1.75
Each. .D.P. \$2.44
Size 31 x 4, each..... 1.85
Each. .D.P. \$2.66

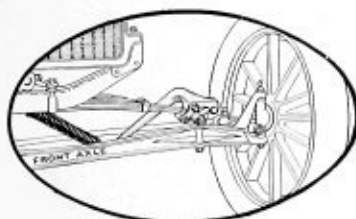
ACCESSORIES FOR FORD CARS



SHOCK ABSORBERS

1916 Aitchandee Shock Absorbers

For Ford Cars

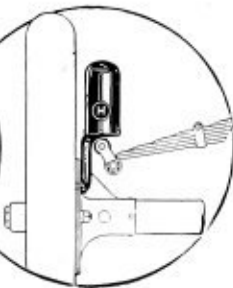
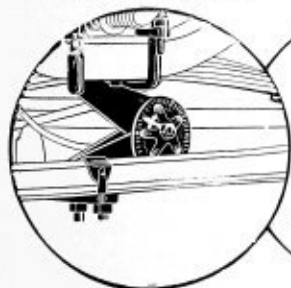


The true cantilever principle that prevents side-slap as well as shocks. Not only adds to the comfort of riding, but saves tires and springs and keeps the car in the road. They eliminate the constant jiggle of the wheels; keep the wheels on the ground, which means better traction and easier steering. Made of malleable castings, with live oil-tempered springs, all parts fully guaranteed. Easily attached; no holes to bore and no fittings required.

Per set \$10.00
Per set. .D.P. \$13.33

The Hartford Comfort Combination

Is the final word in shock absorber equipment for Ford cars. It includes one Hartford Shock Absorber on the front and two Hartford Cushion Springs on the rear. The result is riding perfection—maximum comfort. The weight of a Ford is greater at the front because of engine. The spring action at this point is more pronounced for this reason. The Hartford Shock Absorber controls it. With less weight at its rear, greater spring resiliency is needed here. The Hartford Cushion Springs supply it.



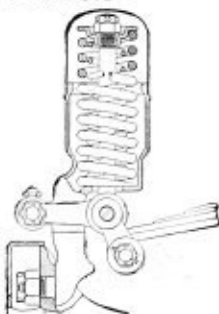
On Front

On Rear

A set includes one Hartford Shock Absorber for front spring and two Hartford Cushion Springs for rear springs. Per set \$12.00
Per set. .D.P. \$21.33
Price for one Hartford Shock Absorber for front, each 6.00
Each. .D.P. \$11.11
Price for four Hartford Cushion Springs, per set of four 12.00
Per set. .D.P. \$21.33
Price for two Hartford Cushion Springs, per set of two 6.50
Per set. .D.P. \$11.11

Temco Ford Shock Absorber

Temco Shock Absorbers represent the scientific application of a system of double spiral auxiliary springs—between the car and its body—to take and absorb the shock or jerk or jolt before it can reach the body and its occupants. The old pitching, jerking and jolting over the rough places is a thing of the past. The irritating vibration ceases. Temco Shock Absorbers give a gentle up and down buoyant swing on the roughest going. They take up all the sharp-jars of paved streets. Stiffness vanishes. They give the car great flexibility, making steering easy as on the smooth street; reduce friction between motor and running gear; preserve the alignment; save repair and upkeep expense; save tires; keep the car in better condition, thus adding to its sales value.



Per set of four..... \$15.00
Per set of four. .D.P. \$24.98
Doz. sets, per set. .D.P. \$22.20

Velvet Ford Shock Absorber

At last a Quality Shock Absorber for Ford cars at popular prices. A special Velvet Absorber embodying the well-known Velvet multiple coil principle. Velvet Absorbers are the oldest successful cushion type absorbers in the world, having been introduced in 1909, and steadily grown in popularity since that time. The multiple coil principle is exclusive with Velvets and fully protected by patents. Each Ford car that is equipped with Velvet multiple coil absorbers rides on eight sensitive, resilient little coils, thereby obtaining at least three times as much riding comfort as can possibly be received from absorbers containing but one big, stiff, heavy coil.

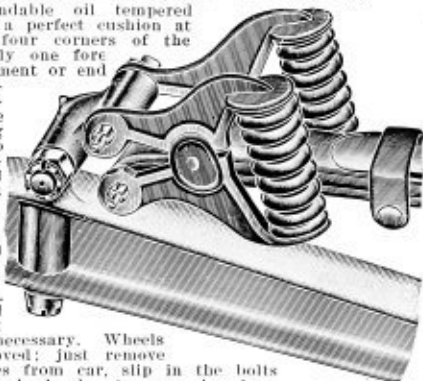


Per set of four..... \$15.00
Per set of four. .D.P. \$24.98
Doz. sets, per set. .D.P. \$23.31

TOURING RUNABOUT DELIVERY

Best Automatic Shock Absorbers for Fords Only

Two dependable oil tempered springs form a perfect cushion at each of the four corners of the car. Positively one fore and aft movement or end play, thus adding to the rigidity of the regular spring equipment. So constructed that should a spring break while the car is in motion the running gear is still connected, thus insuring absolute safety. Easy to install as no part changes are necessary. Wheels are not removed; just remove spring shackles from car, slip in the bolts furnished and shock absorbers are in place. Made throughout of unbreakable and malleable castings, nicely finished in black and packed one set of four to a box. Be sure to specify whether for touring, runabout or delivery car. Every set guaranteed.



Price per set of 4 \$6.00
Per Set of 4. .D.P. \$8.33
Lots of 6 sets, per set. .D.P. \$7.77
Lots of 12 sets, per set. .D.P. \$7.11



ACCESSORIES FOR FORD CARS

STEERING WHEELS AND STEER WARMS



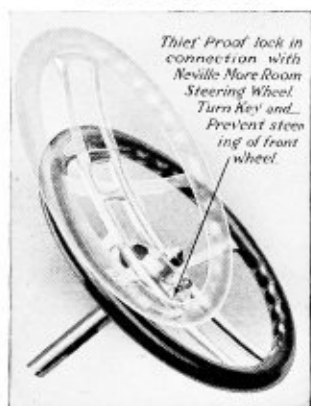
The Neville More-Room Steering Wheel

Carefully designed to give more room back of the steering wheel when getting into or out of the car. Is not a hinged wheel and is free from the danger of slipping or sticking. Just press a button and slide the wheel up out of your way and you can walk into your car and not slide in. Handsome in finish and comes ready to slip onto the Ford steering column.

17-in h Wheel, Corrugated Rim, walnut finish, each \$6.00
Each...D.P. \$10.00



Neville More-Room Steering Wheel with Thief-Proof Lock



Thief Proof lock in connection with Neville More Room Steering Wheel. Turn Key and... Prevent steering of front wheel.

17-inch Wheel, Corrugated Rim, walnut finish, with steering post lock, thief-proof, each.....\$8.00
Each...D.P. \$12.77



16-inch Wheel, Maple Rim, corrugated, each.....\$3.00
Each...D.P. \$5.00

17-inch Wheel, Maple Rim, corrugated, each..... 3.50
Each...D.P. \$5.55

These wheels are of the very best quality with full finished Maple rims, corrugated to prevent the hands slipping on wheel, and are not intended to meet cheap competition, but are for the man who wants a good-looking, dependable wheel.

Steering Wheels

17 Tiltting Steering Wheel for Ford Cars



The Gemco Tilting Wheel offers the Ford owner more ready access to his car; especially is it difficult to slide in back of the regular stationary steering wheel with a heavy overcoat on. This wheel tilts up out of the way and gives several inches additional room. Nicely finished and durable. The regular Ford wheel is 14 inches in diameter, while these wheels are made 17 inches, which makes steering easier.

17-inch Wheel, Tilting, with Plain Rim, each.....\$4.50
Each...D.P. \$6.33
17-inch Wheel, Tilting, with Corrugated Rim, each. 5.50
Each...D.P. \$7.77

Steer Wars

This illustration shows a pair of Steer Wars installed on a Ford Car

Ieco Steer Wars consist of two neat leather covered grips, one for each hand, which lace on the steering wheel at convenient places for driving. The inventor of Steer Wars has very cleverly placed special resistance wires between two copper plates in such a way that a very small current is sufficient to keep the grips warm. Furthermore, after the grips reach a certain temperature, they will get no hotter, but will retain this same heat as long as the current is turned on.

Steer Wars can be attached to any make of car in ten minutes. There are no bolts or screws; no holes to bore. Lace on; wire up—that's all.

Ieco Steer Wars, for Ford, pair.....\$5.00
Per Pair...D.P. \$7.77



ACCESSORIES FOR FORD CARS



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STEERING DEVICES, FOOT ACCELERATORS AND CLUTCH RELEASES

Hastings Stabilizer

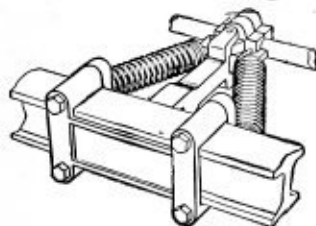


A Device for the Safe and Steady Steering of Ford Cars
Detail View

Easily attached to the front axle and connected to the steering cross rod. Eliminates the wobble of the front wheels and holds the car in the road. An absolute safeguard in case of broken steering knuckles or blown-out tires, as car will be held in the road. Substantially built and neat in appearance.

Each\$3.75
Each..D.P. \$5.55 Dozen, each..D.P. \$5.00

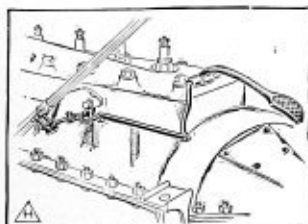
Dunn's Automatic Steering Device



Connecting the cross steering rod with the front axle by means of a flexible self-centering device. The two springs have sufficient tendency to hold the front wheels from wobbling and to keep the car in the road. The use of this device is a big relief to the strain of driving.

Each\$2.75
Each..D.P. \$3.33 Dozen, each..D.P. \$2.77

Foot Accelerator



A very convenient and practical device, which is easily attached to the Ford car. An aid in driving in crowded streets and equally useful for touring. Substantially made of good material.

Each\$1.00
Each..D.P. \$1.44

Adjustable Rear Axle Truss Rod



This Truss Rod (1/2-inch in diameter) for Ford cars is indispensable. It keeps the bearings and gears in more perfect alignment, thus eliminating wear and noise. Fifteen minutes to attach. No machine work.

Each\$1.25
Each..D.P. \$1.66 Dozen lots, each..D.P. \$1.55

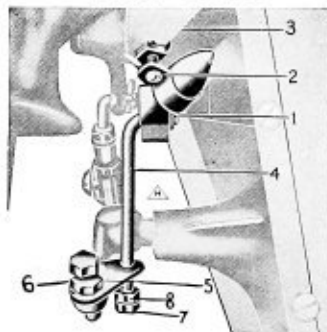
Auxiliary Radius Rod



Adds more than 100 per cent. to the safety of the axle and radius rod already on Ford cars, by preventing axle from bending backward, which seriously affects steering of the car. An additional advantage of the Auxiliary Radius Rod is in the fact that the Ford axle is always in perfect alignment after adjustment by means of this device. Attachment is quickly made. No machine work necessary.

Each\$1.50
Each..D.P. \$2.22

Clutch Release



Attached to the Ford car under the floor boards in a few minutes. Automatically throws out the clutch when foot brake is applied, but in no way interferes with the clutch pedal.

Each\$0.45
Each..D.P. \$0.66



ACCESSORIES FOR FORD CARS

VULCANIZERS AND SPEEDOMETERS

ADAMSON

Adamson "Ford Special" Vulcanizer Model "M"



Patented April 1, 1913
A Patented Outfit with Repair
Gum, Ready for Instant Use

Especially adapted for repairing motorcycle, bicycle, Ford and cyclecar tubes.

A perfectly vulcanized repair in 15 minutes, anywhere, on road or at home, for less than one cent.

It's quick. No cement or acid is used, the repair gum is placed on the tube according to directions. The Vulcanizer is applied by simply clamping it centrally over the repair gum and tube as illustrated. To vulcanize the repair, one ounce of gasoline is placed into the Vulcanizer and ignited.

Model "M," mailing weight 2 pounds \$1.50
Each...D.P. \$2.48 Dozen...D.P. \$28.00

Adamson Universal Vulcanizer Model "U"

For tubes and casings. Tire cuts ruin casings. They admit moisture to the carcass and cause the fabric to rot and weaken, grow larger—and in blow-outs, you can vulcanize your casings and tubes anywhere in 15 minutes at a cost of one cent.

Quick and reliable. Absolutely automatic. Place the patch—attach the Vulcanizer, put in gasoline—light it. No further attention required. It can't burn, scorch or injure tube or casings. It can't fail to do its work. So simple anyone can operate it.

A practical vulcanizing outfit complete with repair gum ready for instant use.

Model "U," mailing weight
4 pounds \$3.00
Each...D.P. \$5.00
Dozen...D.P. \$56.00



SHALER

The Ford-Kit

For Mending Ford Casings and Tubes

This new Shaler Vulcanizer is made to fit the Ford size casings and tubes. Tubes are quickly and permanently vulcanized and the same vulcanizer repairs all cuts and tears in the casings without removing from the wheel or letting out the air. Just clean out the cut, fill with new rubber, fill vulcanizer with gasoline or alcohol, clamp in place and light the fuel. No exposed blaze, no danger from spilling, absolute certainty of correct curing as fuel gauge provides correct amount for proper cure. Use at home or on the road for either tubes or casings. No exposed blaze to blow out or scorch fenders.



Price in substantial box \$2.75
Each...D.P. \$3.88

Stewart Speedometer



Model 100

A new Stewart Speedometer designed specially for Ford cars, completed with all regular Stewart equipment, including flexible shaft and the famous Stewart swivel joint, ready to install on any Ford car. Of the same magnetic type and built of the same high grade materials as in instruments that go on highest priced automobiles.

The Stewart Model 100 has rotating speed dial, 60-mile capacity—

Stewart Odometer, consisting of 10,000-mile season register and 100-mile trip register. Mile numbers of trip register are black on white; tenths, red on white. Mile numbers of season register are black on white. Trip register can be rapidly reset to any tenth of a mile, and without disturbing the record of the season register. Speedometer has jeweled bearings, polished steel magnet, silver etched dial face, French plate dial glass. Case finished in deep jet lacquer and polished brass trim.

Model 100 Special Stewart Speedometer for Ford cars, each \$10.00
Each...D.P. \$13.33
Lots of 12, each...D.P. \$12.77

Sears-Cross Speedicators, Model F 15 FOR FORD CARS



Model F 15

This model is the same as was standard on 1915 Ford cars and is installed in the same manner. The Sears-Cross instruments are of the mechanical type, consequently unaffected by temperature. The face of the instrument is clear and easily read; the indicating hand or pointer gives the same advantage as the highest priced instruments. Due to the construction of Sears-Cross Speedicator, it is impossible for the pointer to jump under any conditions.

Finished in black and brass or black and nickel. Black and brass will be sent unless otherwise specified.

Price, each \$12.00
Each...D.P. \$12.77

ACCESSORIES FOR FORD CARS



RADIATORS, SHELLS, HOOD AND FENDERS

Livingston Honeycomb Radiators AND STREAMLINE HOODS FOR FORD CARS

Greatest Service—Best Appearance

Features embodied in Livingston Radiators for Ford cars are identical with those found in radiators used on the most expensive foreign and domestic cars. Their construction is vastly superior to that of other types of radiators for Ford cars. They have the greatest cooling efficiency. Direct radiation is obtained at every point. The length of the water tubes, being twice their height, adds greatly to the cooling capacity. The flat tube, full 3" deep, gives a thin volume of water, the most quickly cooled. Leaking, due to freezing, is eliminated, as the small corrugations in the tube walls allow for expansion as the ice forms, and return to shape upon the ice melting.

The cooling capacity of the Livingston Radiator for Ford cars is so far in excess of the demand placed upon it that it is guaranteed to cool the motor of that car under the most severe conditions. Excessive use of gasoline and oil, as well as loss of power and speed, and numerous other evils caused by heating up is eliminated.



Combination "Bulldog" Radiator and Streamline Hood for 1915 and 1916 Ford Cars

The "Bulldog" Combination Radiator and Hood, with radiator shell tapered to conform to the lines of the hood, is the only one to give true streamline appearance to the Ford car. A complete brass radiator is enclosed within a solid, one-piece pressed steel shell. An air space between this brass radiator and pressed steel shell further protects the black enamel finish of the radiator, and assures the glossy finish remaining permanent. Rounded corners of the radiator add the last touch of refinement to the "Bulldog" Combination.

Weight 35 pounds, water capacity 3½ gallons, black enamel finish, each \$45.00
Each...D.P. \$66.00

Pointed Front Radiator



Livingston Pointed Front Radiators, of which thousands are in daily use, meet with universal approval. They are made for any model Ford car, including 1915 and 1916, and are for use with the hoods furnished by the Ford Company. They provide a pleasing relief from the standard radiator lines everywhere encountered. Real Livingston radiating efficiency enables them to greatly increase the service obtainable from the Ford car, while their design adds greatly to the appearance in many ways.

Weight 40 pounds, water capacity 4½ gallons, Pointed Front German Silver, each \$45.00
Each...D.P. \$61.11

Extended starting crank included.

Lawco Radiator Shell, Streamline Hood and Crown Fender



The above illustration shows a Ford car equipped with Lawco Radiator Shell, Streamline Hood and Crown Fender. These very handsome and serviceable accessories we can supply as listed below.

Radiator Shell and Streamline Hood

Lawco Radiator Shell and Streamline Hood adds greatly to the appearance of the car and is made to fit all body designs, giving the same type construction as used on high priced cars.

Hood is made of heavy gauge automobile steel, finished in baked black enamel. Louvres or ventilators cut in the sides afford better ventilation. The Radiator Shell fits over the regular Ford Radiator, but does not rest against it and is held in place by the regular radiator support bolts.

Finished in baked black enamel. Specify whether to fit straight or cowl dash.

No. G10 Lawco Radiator Shell and Streamline Hood, each \$17.50
Each...D.P. \$29.10
Lots of 6...D.P. \$27.77
Lots of 12...D.P. \$26.22

The Lawco Streamline Hood

Without Radiator Shell

Made to fit all models of Ford cars 1909 to 1916. Adds distinction and grace to the car as well as more room around the engine. Made of cold drawn steel, handsomely finished with two coats of black enamel baked on. Ventilating louvres in sides increase ventilation. Strictly high grade and made so well as to be free from rattles. In ordering state year, model of car and whether straight or cowl dash.

No. G11 Lawco Streamline Hood, each \$8.00
Each...D.P. \$11.11
Lots of 5 each...D.P. \$10.55
Lots of 10 each...D.P. \$10.00

Lawco Crown Fenders

Your Ford car fitted with a set of Lawco Crown Fenders is transformed in appearance. The beauty in the graceful lines and fine finish of these fenders is not all that commends them to the particular Ford owner, as they are so substantially made of heavy gauge steel and well fitted that they are rattle-proof and as enduring as the car itself. All the annoyances of the regular light Ford fenders eliminated. Accept no cheap substitutes but insist on the genuine Lawco Crown Fenders. Finished in heavy baked black enamel.

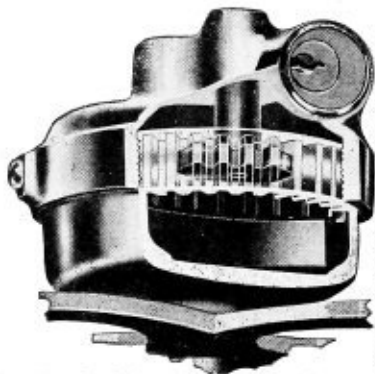
Price per set \$14.00
Per set...D.P. \$25.55



ACCESSORIES FOR FORD CARS

LOCKS AND CIGAR LIGHTERS FOR FORD CARS

Locks for Ford Cars—Rex Auto Lock



The Rex Auto Lock is easily attached on the steering column just below the wheel and is always in place. When the key is turned, the steering gear is securely locked in position so that if front wheels are set at an angle, as when car is left at the curb, it is impossible to even tow the car

away. Lock is well made, handsome in appearance, and unpickable.

Each \$4.00
Each..D.P. \$6.66

Raylox for Ford Cars

A black enameled case that completely covers and protects your coil switch from other people's keys. Ford switch keys are as plentiful as the cars, and it is easy for the thief to have one. With your switch protected by the Raylox, he must pass your car by. Can't be removed by unscrewing until you unlock the case, as all attaching screws are covered and locked in. Cheap thief insurance. (Padlock not included.)



Each \$1.50
Each..D.P. \$1.66 In dozen lots, each..D.P. \$1.44

New York Kick Switch with Yale Lock



Fits Ford metal or wood coil box. Fitted with a genuine Yale lock. Securely locks switch in off position and arranged so that key can not be removed until switch is in off position. Furnished with two keys and instructions so that any one can mount it.

Each \$2.50
Each..D.P. \$3.88

Presto Ford Cigar Lighter



No. 204 Presto Ford Cigar Lighter. Designed especially for the Ford car, get their power direct from the magneto. Equipped with a lighter tip which is especially suited to the Ford Magneto and is marked "Ford Special." Equipped with 10 feet silk cord.

Nickel plated holder is furnished with each cigar lighter, which can be attached anywhere in the car. The cigar lighter case is made of polished wood, ebony finish. All metal parts are heavily nickel plated.

Each \$2.50
Each..D.P. \$3.88

Presto Automatic Cord Winder



For all kinds of Presto Cigar Lighters and Inspection Lamps.

No. 240 Presto Automatic Cord Winder (only), black rubber finish.....\$2.50
Each..D.P. \$3.88

No. 254 Complete combination, Automatic Cord

Winder and Presto Cigar Lighter No. 204, as illustrated \$5.00

Each..D.P. \$7.77
Special Platinum Tip for Cigar Lighter, 9 volt, each \$1.00
Each..D.P. \$1.77

Our Yale Lock Switch Without Lever



This is an extremely high grade article and can be used on any wood coil box. It does not, however, fit on the metal Ford coil box. We supply three extra keys.

The construction is such that the key must be turned to the off position before same can be removed, thus making it impossible to accidentally leave batteries connected—a feature well appreciated by the user. The combination of connections are two sets of batteries or one set of batteries and magneto.

Each \$3.00
Each..D.P. \$5.55

MOTOMETERS AND CLOCKS

Radiator Thermometer

Boyce Motometer
(Patents Pending)



The Boyce Motometer is the only reliable radiator thermometer and truly indicates the temperature of the water in radiator while driving. With the Motometer mounted on your radiator cap you can tell at a glance whether your motor is operating correctly or not, just as a steam gauge tells the story of the steam engine. Your motometer tells you in advance of impending trouble and often saves many times its cost in avoided repairs.

Motometer Junior, each.....\$5.00
Each..D.P. \$8.33
Motometer Midget, each 2.50
Each..D.P. \$4.18

Lewis Nojar Rubber Retained Auto Clock



Two factors—vibration and electrical troubles—heretofore have contributed to make your automobile clock a useless ornament rather than what it ought to be—an accurate, reliable, indispensable time-piece.

A clock that is true to the second is a vitally important part of your equipment.

Such a clock now is available, for those troublesome elements—vibration and electrical shock—are entirely done away with by the Nojar.

The Nojar is entirely encased in heavy highest quality red rubber, eliminating the possibility of shock, jar, jolt or vibration. As rubber is non-conducting, electrical disturbance positively has no effect upon this rubber retained clock.

The Lewis Nojar is guaranteed to keep accurate time for two whole years. Any clock failing to do this within the period mentioned will be repaired or replaced without expense, if forwarded, charges prepaid.

To Attach—Remove nut from top of steering wheel and attach clock at any desired angle, as rubber holder is movable on the metal base.

Stem-Wind

Steering Post Type, each\$2.50
Each..D.P. \$3.88



To Attach—Drill holes in dash at distance to match stationary bolts attached to steel plate embodied in rubber. Tighten nuts on bolts and clock is ready for use.

Dash Type, each\$3.00
Each..D.P. \$4.66

Auto Clocks

Auto No. 1
(1 day)

A neat, simple case made from heavy stock and with an additional inner casing of brass to thoroughly protect the movement. Not affected by jar or vibration; 3 3/8 inches high; 2 1/2-inch porcelain dial with second hand.



Finish, black enamel case with nickel bezel, each..\$2.25
Each..D.P. \$3.11

Auto No. 2
(8 Day)

Convenient to use, with outside wind and set, this clock may also be regulated from the front without removing the movement. The case, made from heavy brass stock, protects a thoroughly tested high grade movement.

This pattern adapted for Ford cars.



Finished in black enameled case with nickel bezel, size 4 inches high by 2 1/2-inch face; each.....\$4.50
Each..D.P. \$6.66

The Knockabout Klock

This little clock is finished in black enamel with white face; the numbers are large and easily read. May be mounted in any convenient place and is equipped with an adjustable base so that it may be set at any desired angle. Also useful as a desk clock, in motor boats and for the camper. Movement guaranteed by the maker for one year.

Each\$2.00
Each..D.P. \$3.33

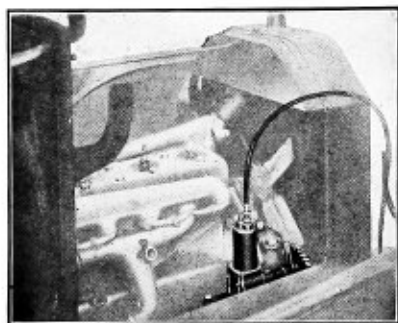




ACCESSORIES FOR FORD CARS

PUMPS

Kellogg Engine Driven Pump for Ford



This Pump was designed expressly for the Ford car and though the price is considerably lower than other models of Kellogg Engine Driven Pumps, the quality of material and workmanship is the same, and it is covered by the same guarantee.

A most important point to consider in the purchase of an engine driven pump for your Ford is the manner of attaching. You should buy a pump which can be installed without removing the radiator, etc. Such work is an unnecessary expense.

The Kellogg Ford Pump is made of metal throughout and is guaranteed not to spray oil. Cast iron cylinder, piston fitted with metal rings, drop forged crank shaft, bronze connecting rod and bearings, and a simple, though efficient, system of lubrication insure long life to the Kellogg pump.

Each \$8.50
Each..D.P. \$14.44

Manzel Engine Driven Tire Pump for Ford



A real Engine Driven Tire Pump for Ford cars, with positive gear drive. Will inflate a Ford tire in one and one-half minutes. It is all metal and accurately built and supplies only pure air to the tires. It is attached to the side of motor, in most convenient position to operate, and is driven by gear on crank shaft (we furnish combination gear and lower fan pulley for driving).

To attach it to car it is only necessary to remove one engine cylinder nut and one gear housing bolt, place pump in position and replace nut and bolt. Then remove fan pulley and replace it with combination gear and fan pulley furnished with pump. The pump is then ready to operate. Can be installed by any one in forty-five minutes' time. No holes to be drilled and no machine work of any kind to be done.

After being attached it is always ready for use. To operate, attach hose to pump and tire, throw gears into mesh and start the engine.

Price \$7.50
Each..D.P. \$11.66.

Complete with gears, 12 feet of air hose and pressure gauge. Everything ready for immediate installation.

Mayo Ford Pump



A diminutive Mayo Spark Plug Pump built especially for the Ford car. A real power tire pump guaranteed to give satisfaction and inflate a tire with pure, fresh air—32 x 3 size to 65-lb. pressure in two minutes; 32 x 3½ size to 70-lb. pressure in three minutes. Attached and used the same as the standard Mayo Spark Plug Pump. Construction is strong—metal piston rings and valves used. No wearing parts to break or get out of order—fully guaranteed for one year.

Fitted with ½-inch connection and furnished complete with 10-foot hose, accurate gauge and connections.

Each \$5.00
Each..D.P. \$8.88

Aeolus



Crown



Aeolus Double Cylinder Tire Pump. Cylinders made of seamless brass tubing; absolutely non-leakable. The air intake, as well as delivery of air into tire, is at top of pump. Full length, 20 inches.

Aeolus Pumps, each \$2.25
Each..D.P. \$3.11
Dozen..D.P. \$33.33

Crown Single Action Tire Pump for small size tires. Barrel made of heavy seamless brass tubing, 1½-inch. Full length of pump, 20½ inches.

Crown Pump, each \$1.25
Each..D.P. \$1.76
Dozen..D.P. \$18.66

ACCESSORIES FOR FORD CARS



347

INSERTS, SPRING SHACKLES, RIMS AND WIRE WHEELS

Dann Inserts



The Dann Oil Cushion Spring Insert is a thin perforated lubricant-packed strip of special metal designed to go between the spring leaves from tip to tip. It eliminates undesirable spring squeaks for all time and allows the spring leaves to slide smoothly and freely upon each other without friction from rust and dirt.

Dann Ford Insert, per set.....\$8.00
Per set..D.P. \$6.66

For Ford Cars



No. 3808

No. 3833

No. 3808 Front Spring Clip (with nuts), each.....\$0.35
Each..D.P. \$0.55 Dozen..D.P. \$5.00
No. 3833 Rear Spring Clip (with nuts), each..... .35
Each..D.P. \$0.55 Dozen..D.P. \$5.00

Spring Shackle for Ford

With Integral Lubricator

In the spring bolt lubrication grease has many advantages over oil.

Oil is difficult to get to all parts of the bearing surface and will not stay where needed. Grease, however, is forced by the action of the cup to all parts of the surface and stays there, not only insuring complete and permanent lubrication, but by forming a dust-proof collar at the ends of the spring eyes, prevents wear by keeping out grit.

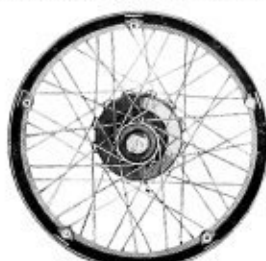
All bolts are carefully heat-treated to give the maximum amount of wear.

Shackle is furnished absolutely complete, ready to install in the car without the addition of nuts, cotter pin, or grease cups.

Please specify whether front or rear shackle is wanted when ordering.

No. 347 For Front Spring, with brass grease cups, each.....\$1.50
No. 348 For Rear Spring, with brass grease cups, each..... 1.50
Each..D.P. \$2.45
No. 347 For Front Spring, with nickel grease cups, each..... 1.60
No. 348 For Rear Spring, with nickel grease cups, each..... 1.60
Each..D.P. \$2.66

Wheels with Demountable Rims for Fords



Shipping Weight, 145 Pounds

Ford Demountable Wheels, 30 x 3 1/2, solid clincher rim. The set consists of four complete finely finished wood wheels, with a fifth extra rim, lug wrench and bolts.

Stanweld Rims, wheels painted black; per set....\$15.00
Per set..D.P. \$25.00

Lots of 10 sets, per set..D.P. \$23.33

Stanweld Rims, wheels natural wood finish; per set..... 16.00
Per set..D.P. \$26.11

Lots of 10 sets, per set..D.P. \$24.44

Firestone Rims, wheels painted black; per set.... 17.00
Per set..D.P. \$27.77

Lots of 10 sets, per set..D.P. \$26.11

Firestone Rims, wheels natural wood finish; per set..... 18.00
Per set..D.P. \$28.88

Lots of 10 sets, per set..D.P. \$27.22

Wire Wheels

With Demountable Rims for Ford Cars



These wire wheels come complete with hubs and ball bearings and replace the regular Ford wheels without changes. Set consists of four wheels complete with demountable rims and an extra rim for carrying a spare tire. Strong, easy riding and handsome in appearance; will add a distinctive air to the car.

Price, per set.....\$35.00

Per set..D.P. \$55.55

Heavy Duty Axle Shafts

FOR FORD CARS

These axles are made especially to meet the demand for a strictly high-grade axle for heavy duty, such as trucks, taxis, etc., demand. Chrome-nickel steel, accurately finished and heat treated; guaranteed to be first-class in all particulars.

Price, each.....\$3.00

Each..D.P. \$5.00



ACCESSORIES FOR FORD CARS

LICENSE BRACKETS AND DETACHABLE CARRIERS FOR FORD CARS

Neverout License Brackets for front and rear license tags. Hold license tags firmly in position and illuminate rear numbers as required by law. Made for every style of car. Furnished in black enamel.



Front License Bracket
No. 36—For cars with round fillers, attaches directly to water filler tube, each\$0.50
Each..D.P. \$0.66 Dozen..D.P. \$6.66



Front License Bracket
No. 77—For all cars with oval fillers, attaches directly to water filler tube, each\$0.50
Each..D.P. \$0.66 Dozen..D.P. \$6.66



Rod License Bracket
No. 178—For attaching to any rod between headlights. Because of single grip can be used on curved or straight rods, each\$0.50
Each..D.P. \$0.66 Dozen..D.P. \$6.66



Combination Rear Lamp and License Bracket
No. 62—Interchangeable type, fits majority of brackets on rear of cars, each\$0.50
Each..D.P. \$0.66 Dozen..D.P. \$6.66



Ford Front License Bracket
No. 871—Attaches to Ford headlight bracket when tag is not over 15 inches long, each\$0.50
Each..D.P. \$0.66 Dozen..D.P. \$6.66



No. 97—Ford License Brackets, to be held by front spring bolts, as shown in illustration, per pair..\$0.25
Per Dozen Pairs..D.P. \$3.55

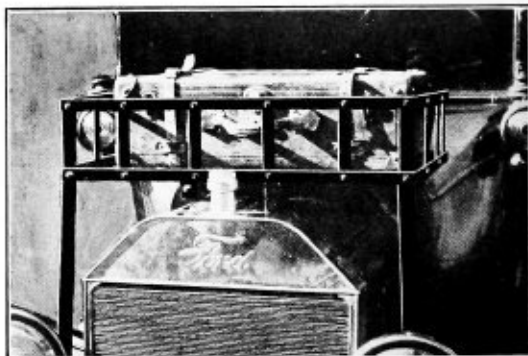
Combination License and Crank Holder for Ford Cars



This Combination License and Crank Holder is made of pressed steel, black enameled, and serves the double purpose of holding the license and crank in place. The crank is kept in an upright position, clear of dirt and road obstructions, and is kept absolutely rigid, doing away entirely with any rattle, which is a source of annoyance when crank hangs loose or is supported by a strap. The danger of crank pins being broken by a crank becoming engaged when driving uphill and jarring over car tracks or down roads is eliminated. It is also easily installed, not taking over five minutes, and requires no alteration to the car.

Each\$0.75
Dozen..D.P. \$8.00

W-S Detachable Carrier for Ford Cars



For suit cases, baskets, bundles, etc., size 27 inches by 22 inches by 6 inches deep inside. Made of steel and will carry a heavy load. After once fitted it can be removed or replaced in less than one minute, no tools required. Positively does not interfere with the driving vision even when loaded to full capacity. Will carry three extra large suit cases. The W-S Carrier can be fitted to any style Ford by anyone in a few moments, does not require any machine work, nothing to come loose or rattle, spark plugs can be removed and replaced without detaching the carrier. Furnished complete with full information for installing. Finish black.

Each\$2.50
Each..D.P. \$4.22

ACCESSORIES FOR FORD CARS



349

HORNS AND FOOT WARMERS

Bulbs



Special for Ford Cars, standard size; each.....\$0.75
Each..D.P. \$1.11

Horn Reed for Ford Cars



No. 28. Horn Reed with double end bushing for use in center of tube, brass finish; each.....\$0.30
Per Dozen..D.P. \$3.77

Hand Klaxonet



The latest and best of the low priced hand horns. Made of Klaxon quality and carrying the permanent Klaxon guarantee. Supplied in all black, black and nickel and black and brass.

Each\$4.00
Each..D.P. \$6.66 Dozen..D.P. \$74.60

Clark Heaters



Our No. 3D Heater is one of the most popular sellers, being very strong and durable. It is 14 inches long and weighs 7 pounds. Has fine asbestos lining and is covered with Brussels carpet; has braid lining. Ends are of triple strength white metal.

Each\$2.00
Each..D.P. \$3.33

Coal for Heaters



One cake will last sixteen hours with proper adjustment of drafts and keep up a steady heat; size $7\frac{1}{2} \times 2\frac{1}{4} \times 1\frac{1}{4}$ inches.

Per dozen\$0.75
Dozen..D.P. \$1.32

Maxim—The Perfect Buzzer Horn



The Maxim Vibrator Horn is a wonderful warning signal, excelling in its class for its sound and for its permanent and efficient service. Is neat in appearance, simple in construction and has a loud and pleasing tone.

Maxim Horn, black and brass or all black; price..\$3.00
Each..D.P. \$4.11 Dozen lots, each..D.P. \$3.88

Chime Horns



The Chime Horn has four harmonious tones combined in one loud warning blast that guarantees the right of way.

It is made entirely of brass of good quality, which will not permit rust or corrosion to interfere with its tone or operation. In fact, it cannot get out of order.

No. 10 Horn complete with 1-inch to $1\frac{1}{2}$ -inch valve and pedal, each 4.00
Each..D.P. \$5.33 Per Dozen..D.P. \$60.00

The Aermore Exhaust Horn

Special for Ford Cars

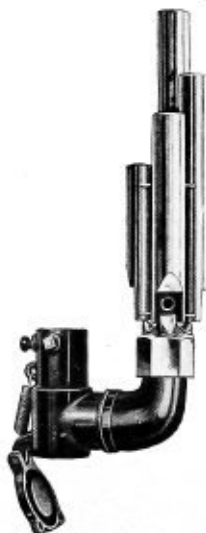
The Aermore Exhaust Horn has large air passages and is self-cleaning. It can not clog or get out of order. Requires no upkeep.

Gives a clear, penetrating note that can be heard a long distance, or a low, musical note that warns and does not frighten.

The Aermore fastens to the tailpipe. Blows easily with very little exhaust pressure. It is a safe and sane signal.

Complete with all fittings.

Each\$5.50
Each..D.P. \$8.88
Lots of 6, each..D.P. \$7.77

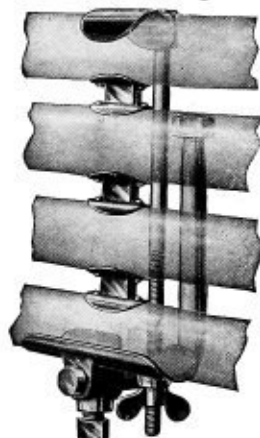




ACCESSORIES FOR FORD CARS

BOW HOLDERS, REAR CURTAIN LIGHTS, ETC.

"Ever Tight" Clamp Bow Holder



This Bow Holder consists of a long perch fastened to a hanger with a set screw. The securing anchor, which has a spring washer under it, is placed through a hole in a lug on the inside of the perch.

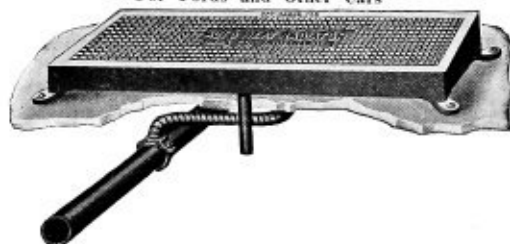
When the top is up the thumb nut is screwed up firmly against the upper nut so it can not rattle. When the top is let down the securing anchor draws the bows tightly together by the use of the thumb nut.

No. 1 for three and four bow tops.

Finish: Hard rubber, black enamel.

No. 1 Ever Tight Clamp Bow Holders, $\frac{3}{4}$ -in. hole;
per pair \$1.50
Per pair...D.P. \$1.88

Auto Heat Radiator For Fords and Other Cars



The Auto Heat Radiator is designed to fit either in the front or tonneau of the car. It makes an attractive and neat foot rest and will readily warm up in a few minutes after engine is started. Uses the otherwise waste exhaust from the engine and is easily attached to any model car. May be left in car in summer and used as foot rest or removed in a few minutes without defacing the car.

No. 1 size for roadster or front seat, 16 inches.
No. 2 size for tonneau or closed car, 24 inches.

Comes complete ready for attaching.
Price \$7.50
Price each...D.P. \$11.11

Adams Automatic Top Holder

The Adams offers a quick and sure method of holding the top snugly in place when laid back. Leather pads protect bows against damage. Quickly tightened or loosened. Finished in black enamel with the chain specially treated to prevent rust or wear. Applied instantly to Fords.

Price, per pair \$1.25
Per pair...D.P. \$2.22



Rear Curtain Light for Fords



Just the right size to replace the old broken rear curtain light, edges bound and equipped with fasteners so that it can be put in without sewing or removing the curtain.

Price each \$0.75
Price each...D.P. \$1.33 Dozen each...D.P. \$1.11

Windshield Wind Break



Fits between the top of the windshield and the car top and prevents wind and rain blowing in over windshield.

Just one of the little things that adds to the comfort of passenger and driver.

Price each \$0.75
Dozen...D.P. \$13.33

Top Prop Nut



To replace nuts lost or damaged. Well made and finished.

Price each \$0.05
Dozen...D.P. \$0.80

Steering Gear Boots for Fords



Three to a set—complete with laces. Made of waterproof leather. These boots make it possible to pack the joints with grease, which does away with the wear and therefore eliminates rattle. Makes it easier to steer. Grease Boots, in sets of 3; per set..... \$1.00
Per set...D.P. \$1.66



Crank Boot for Fords

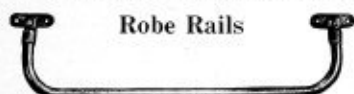
Crank Boots, each... \$0.35
Dozen...D.P. \$4.00

ACCESSORIES FOR FORD CARS



351

ROBE RAILS, FOOT RAILS, HEEL PLATES, MATS, ETC.



Robe Rails

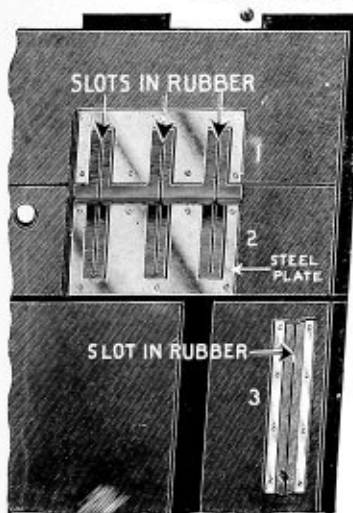
No. 5652 Folding Robe Rail, $\frac{3}{4}$ -inch black enamel rail; price, each.....\$0.75
 Price each..D.P. \$0.88
 No. 5652 Folding Robe Rail, $\frac{3}{4}$ -inch nickel rail; price, each.....\$0.85
 Price each..D.P. \$1.11



Foot Rail

No. 5675 Turn-over Foot Rail, 1-inch nickel rail; price, each.....\$1.50
 Price each..D.P. \$2.00

Foot Protector



Presto Alweather Protecto insulates the floor from the excessive heat of the engine and drives the hot air back beneath the car irrespective of position of lever and in no way interferes with the free action of car or taking up of floorboards. Each part made to fit and marked where it belongs. Average boy can attach in twenty minutes.

Made in two styles as listed below:

No. 1 Outfit consists of No. 1 and No. 2 metal

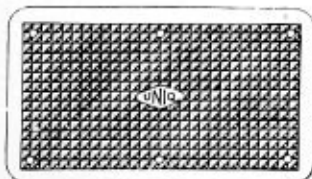
and rubber pedal slot covers and No. 3 emergency brake slot cover, all steel parts finished in black japan and each set in a carton with instructions and screws for immediate attachment. Each.....\$1.75

Each..D.P. \$2.77

No. 2 Outfit consists of all described in No. 1 Outfit and also six pieces of felt board to completely cover under side of floor boards as illustrated. Each.....2.50

Each..D.P. \$3.66

Aluminum Heel Plates

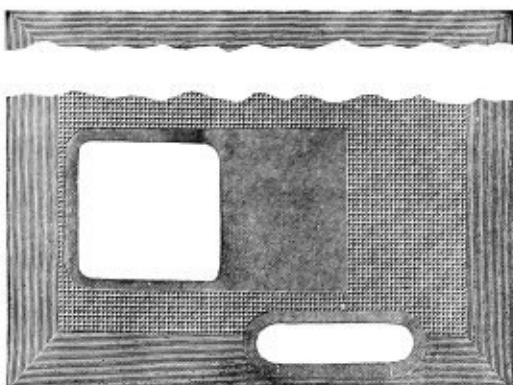


No. 160

May be attached to floor boards where heel rests and prevents wear on floor mat.

Heavy metal, $3\frac{1}{2} \times 5$; price each.....\$0.25
 Each..D.P. \$0.33

Rubber Mat for Ford



Rubber Mats for Ford Touring Car, each.....\$2.00
 Each..D.P. \$1.89

"Uniq" Floor Mat for Ford Cars

Made of genuine cork linoleum, bound with aluminum and backed with sheet steel. An aluminum heel plate is attached to the mat just below the pedal opening. Mat lies perfectly flat and does not need to be nailed or screwed to the floor. Gives the inside of the car a nice clean appearance and is very durable.



Price each.....\$4.00
 Price each..D.P. \$5.55

"Uniq" Complete Running Boards FOR FORD CARS



"Uniq" Running Boards improve the appearance of the Ford more than any other accessory, and are in popular demand among Ford owners.

"Uniq" Linoleum Running Boards

These boards are complete and ready to attach, bolts furnished.

The wood boards used are specially prepared and will positively not warp. Genuine cork-linoleum is used and bound with heavy aluminum moulding. These running boards are durable and add refinement to the car.

Price per pair.....\$6.00
 Per Pair..D.P. \$8.88

Pedal Pads

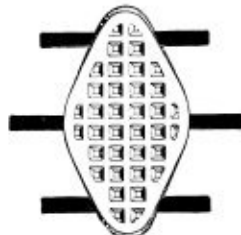
Positively prevents feet from slipping off pedals. Imparts a new sense of security to driver.

No vibration. A cushion $\frac{1}{2}$ -in. thick of new live rubber. They stop the jar.

Real foot comfort. The soles of your feet will not burn from holding out clutch and applying brakes on long grades, or in driving through congested traffic.

Stop trying to wear out your pedals with shoe leather. It's expensive.

Mason-Allen Pedal Pads for Ford, per set.....\$1.50
 Per set..D.P. \$1.67





ACCESSORIES FOR FORD CARS

BRAKE LINING, BRAKE SHOES AND TRANSMISSION BANDS

Thermoid Transmission Brake Lining



Every Ford car is equipped with a transmission brake made in three parts, and each part is lined with a strip of brake lining. Because this brake is located near the magneto the lining must not contain brass wire and it must contain practically no cotton or it cannot withstand

the action of the oil and grease to which it is exposed.

Thermoid Transmission Brake Lining contains no wire and is composed almost wholly of long fiber Canadian asbestos. The process of manufacture is the same and it is thoroughly impregnated with the same secret friction compound used in making Thermoid Hydraulic Compressed Brake Lining.

Packed one dozen pieces (4 sets) to the box, complete with copper rivets.

Thermoid Transmission Brake Lining Set, price per set\$1.87
Per set...D.P. \$1.50

Thermoid Wireless Transmission Lining, $1\frac{1}{16} \times \frac{3}{16}$ in., per ft.25
Per ft. .D. P. \$0.27
50 ft. lots. .per ft. \$0.25

Falcon Ford Transmission Lining Set

The lining is cut to the proper length; 3 lengths of 23 in. each, $1\frac{1}{8}$ in. wide and $5/32$ in. thick. The set includes 34 split brass rivets.

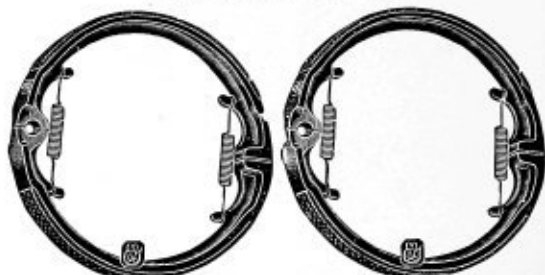
The lining supplied is Falcon Ford Wireless Brake Lining, which will not short-circuit the magneto, and is impervious to the action of grease, oil and dirt.



Falcon Transmission Lining Set, per set.....\$0.75
Per set...D.P. \$1.00
Dozen sets...per set \$0.88

Falcon Transmission Lining, per ft..... .20
Per ft. .D.P. \$0.20
50 ft. lots, per ft. .D.P. \$0.18

Brake Shoes for Ford



No. 5718. Lined, 2-piece No. 5790. Plain, 1-piece
Duplicates of the brake shoes on the Ford Model T. Made of high-grade gray iron with ground braking surfaces. Complete with springs. Two-piece brake shoes supplied with "everlastingly good" brake lining riveted to the friction surfaces. Weight, per set, about $3\frac{1}{2}$ pounds.

No. 5718. Lined, two-piece type, per set.....\$1.50
Per set, each...D.P. \$0.92 Dozen sets, each...D.P. \$0.84
No. 5790. Plain, one-piece type, per set..... 0.60
Per Set...D.P. \$1.78

"Ideal" Transmission Band FOR FORD CARS Patent Pending



WITH FORGING DETACHED
dangerous imitations of the Ideal Quick Detachable Transmission Band. DIRECTIONS FOR USE.

The first time you have to renew your linings have a set of Ideal bands ready to replace the old style ones. Put them in place, lined, as you would the old style. Then when you have to renew the lining, just remove cover door; pedal; pull end rivet with pliers, remove both forgings (lugs) and pull band from housing. Rivet new lining in leaving one end lug off. Insert free end in housing, passing it around under drum. Attach remaining lug, drive last end rivet, replace pedal, etc. Job can easily be done in half an hour.

The "IDEAL" is constructed on sound mechanical principles of high-grade materials throughout and is lined with best quality of asbestos. It is the original quick detachable transmission brake band for Ford cars. Others have attempted to copy it but have produced only an impossible, impractical and dangerous substitute. IT WILL SAVE YOU TIME AND MONEY.

Price, each\$1.50
Each...D.P. \$2.22

Packed 3 bands in a box complete, making one complete set.

ACCESSORIES FOR FORD CARS



353

FILLOMETERS, GAUGES, OIL CUPS AND GREASE RETAINERS

The Fillometer

FOR FORD AUTOMOBILES

Fillometer for Ford Cars



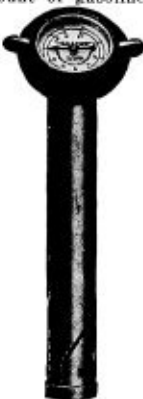
Installed in a few minutes without cutting or fitting enables you to fill your gasoline tank without lifting the cushion or disturbing your passengers. Amount of gasoline in tank is shown on indicator at all times.
 Price each \$4.50
 Each ..D.P. \$6.66

Challenge Gasoline Gauge

FOR FORD CARS

Made of steel with a brass float, all parts strongly made and accurate. Screws into the filler cap hole of gasoline tank and tells at a glance the amount of gasoline in tank.

Price each \$1.25
 Each ..D.P. \$1.88



No. 1104



No. 100



No. 1101

No. 1101 Grease Cup, nicked finish, 1/2-inch pipe thread, capacity 1/2 ounce, each \$0.25
 Dozen ..D.P. \$2.00
 No. 1104 Grease Cup, nicked finish, 1/2-inch pipe thread, capacity 1/2 ounce, each40
 Dozen ..D.P. \$3.55
 No. 99 Compression Grease Cup, 3/4-inch inside diameter, 1/2 ounce capacity, 1/2-inch pipe thread, polished brass, each25
 Dozen ..D.P. \$2.67
 No. 100 Compression Grease Cup, 1 inch inside diameter, 1/2-inch pipe thread, polished brass, capacity 1/2 ounce, each30
 Dozen ..D.P. \$3.00

Style N Oil Cups



Style "N"

Price \$0.10
 Each ..D.P. \$0.13 Dozen ..D.P. \$1.11

Oil Gauges



No. 40

No. 40 Oil Gauge, each \$0.25
 Each ..D.P. \$0.27
 No. 41 Oil Gauge, same as No. 40 with improved protected glass, each35
 Each ..D.P. \$0.34



No. 41

No. 44 Oil Gauge

A substantial solid brass gauge with guarded sight glass, fitted with drain cock, price each \$0.75
 Price Each ..D.P. \$1.00
 Dozen Each ..D.P. \$0.88



No. 44

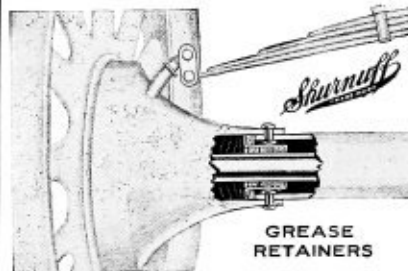
Dash Board Oil Gauge for Ford

No. 43



A decided improvement over the crank case oil gauge. The indicator on the dash makes it unnecessary to almost crawl under the car, which it is necessary to do to read the crank case gauge. Installed by boring a hole in the floor board for the indicator pipe and connecting the horizontal pipe to the crank case in place of the lower pet cock. The pet cock, screwed into the other end of the pipe, acts as a drain.

Container and indicator pipes are made of heavy gauge brass. Screw cover on container and threaded joints makes it easy to take the gauge apart for occasional cleaning. Each gauge packed in a heavy cardboard box containing full instructions. Weight, about 1 1/2 pounds.
 Each \$1.00
 Each ..D.P. \$1.67



GREASE RETAINERS

PATENT APPLIED FOR.

The Shurnuff Grease Retainer consists of four specially treated felt washers, a cold drawn steel cap and a retainer washer. When placed in the axle, as shown, the grease from the axle housing is prevented from getting into the brake drums and leaking at the drum housing.
 Per Set .. \$0.90
 Per set D.P. \$1.23



ACCESSORIES FOR FORD CARS

RADIATOR CAPS, REFLECTORS, FAN BELT GUIDES, VALVE STEMS, ETC.

Ezyfill Radiator Cap

For Ford Cars



A handsome, highly finished, all brass cap that opens by simply pressing a button. Closes tight preventing escape of water.

Each \$0.75
Each...D.P. \$1.11

Radiator Cap for Fords

This handsome cast brass cap will add a distinguished appearance to Ford cars besides being more practical for purposes of unscrewing and tightening than regular patterns.

Highly Polished Brass, each \$0.30
Each...D.P. \$0.50 Dozen, each...D.P. \$0.44
Polished Nickel, each 40
Each...D.P. \$0.56 Dozen, each...D.P. \$0.50



Hard Rubber Radiator Cap for Ford



Each \$0.40
Each...D.P. \$0.53 Dozen, each...D.P. \$0.48

These Radiator Caps are made of heavy gauge brass and accurately threaded to fit filler tubes.

Top is a hard rubber composition attached securely and takes a high finish and makes a very attractive as well as serviceable cap. This top is very easy to grip and remains cool at all times.

No. 52 Exhaust Deflector



This article clamps around end of exhaust pipe and is easily turned in any direction. It is especially desirable for deflecting oil, heat or smoke from tires when carried in rear.

Does not interfere with exhaust in any way.
Finished in black enamel.

Price \$0.20
Each...D.P. \$0.26

No. 1025 Fan Belt Guide



No.1025 Fan Belt Guide. A simple little device which will prevent the belt from slipping.

Price, each \$0.20
Each...D.P. \$0.26

Hub Cap for Fords



An exact counterpart of the standard Ford Model T Hub Cap, made of heavy gauge brass, with accurately machined threads; highly polished. Ten caps packed in a heavy cardboard box. Weight, each, 3 ounces.

Hub Cap, brass, each.....\$0.30
Each...D.P. \$0.33 Dozen...D.P. \$3.36
Hub Cap, nickel, each..... 25
Each...D.P. \$0.40 Dozen...D.P. \$4.50

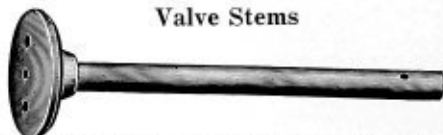
De Luxe Hub Cap for Fords

This is a heavy brass casting of a design similar to that furnished with Packard and other high-priced cars. It cannot be marred with a heavy wrench or dented by an accidental bump into garage posts. Highly polished and finished. A set of four "De Luxe" Hub Caps packed in a heavy cardboard box. Weight, 1 pound.



Each \$0.90
De Luxe Hub Cap, brass..... \$0.90
Each...D.P. \$1.11
De Luxe Hub Cap, nickel..... 1.00
Each...D.P. \$1.34

Valve Stems



Exhaust and Inlet Valve made to fit the Ford motor and give satisfactory results in service.
Each \$0.15
Dozen...D.P. \$3.33

Valve Springs for Ford



Ford Valve Springs made of high grade crucible steel wire oil-tempered.

Each \$0.05
Dozen...D.P. \$0.55

Valve Stem Adjuster for Ford

The adjusters are carefully made from the best materials. The shells are carbonized and hardened to insure a good wearing surface. Discs of proper size and thickness are provided for close adjustment. A set consists of 8 shells and approximately 48 discs. Packed in neat box.



Price, per set \$0.25
Dozen Sets...D.P. \$4.44

No. 320 Breather and Oil Filler



A convenient filler for oil, attaches to the regular crank case filler and prevents the oil from wasting and musing up the engine.

Price, each \$0.75
Price, Each...D.P. \$1.11

ACCESSORIES FOR FORD CARS



355

BALL SOCKETS, SUPPORTS, STEERING GEAR ANTI-RATTLERS, ETC.



RADIUS ROD



STEERING ROD

No. 5142. Anti-Rattling Radius Rod Ball Socket. Screw adjustment to take up wear. Baked black enamel finish. Weight, about 14 ounces; packed in paper box.
Each.....\$0.40
Each..D.P. \$0.18 Dozen..D.P. \$5.33

No. 5155. Connecting Rod Ball Socket. Screw adjustment to take up wear. Baked black enamel finish. Two required on every Ford car. Weight, 6 ounces; pair packed in paper box.
Per Pair.....\$0.40
Per Pair..D.P. \$0.06 Dozen Pairs..D.P. \$0.66

Brake Rod Support



Our brake rod support takes the place of the present Press Steel Support on the Ford Model T cars. Repair parts No. 3470. The Steel Supports are continually breaking and the rods vibrate with them.

Our supports are made from high grade malleable. The hardened steel ball is held in tension against the brake rod and in use this ball turns and does not wear the rod. Put in the car without removing rod.
Malleable, pair.....\$0.75
Per Pair..D.P. \$0.88 Dozen Pairs..D.P. \$0.44

Fender Braces for Fords

A clever device which eliminates the rattle of the fenders on Ford cars.

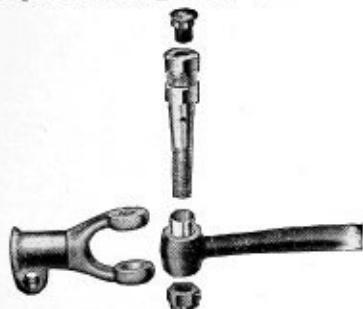
Can be attached by any one in a few minutes.

Made of steel and black japanned.

No. 7 Front Fender Braces, each.....\$0.10
Each..D.P. \$0.11 Dozen..D.P. \$1.11
No. 8 Rear Fender Braces, each......05
Each..D.P. \$0.07 Dozen..D.P. \$0.66



Eclipse Steering Gear Anti-Rattler



This adjustment bolt is easily attached and not only stops the rattle but takes up the lost motion from wear in the connecting joints. The bolt is made tapering and fits into a tapered bushing and is securely locked in place.

Price, per set.....\$1.00
Per Set..D.P. \$1.66 Dozen Sets..D.P. \$18.88

No. 312 Down Exhaust Cut-out Set



Made of high grade material and well finished, complete with cut-out, pedal, cable, pulley and spring. Packed in separate cartons. Put on without removing muffler or exhaust pipe.

Per Set.....\$1.00
Each..D.P. \$1.33 Dozen Sets..D.P. \$14.44

Gray-Hawley Muffler Cut-Out Outfit



"Puts Pep in Your Motor"
Special Ford Outfit

Saves muffler in case of back fire.

Neatly designed, best material and accurately machined to be instantly attached without any fitting. Entirely different from the cheap outfits usually offered for Ford cars. It is up to the Gray-Hawley standard in every way.

Price complete as shown, only.....\$1.25
Each..D.P. \$2.00 Dozen Lots, each..D.P. \$22.22

Cut-out Outfit for Ford



A cut-out is a very necessary adjunct to any car, as it enables the driver by simply pressing a small foot pedal to find out whether his motor is working perfectly and firing properly. It is also claimed that by allowing the gases to escape freely through a cut-out on a hill or grade that

the power of the engine is increased. The above cut illustrates a complete outfit we have assembled especially for Ford cars, which are not equipped at the factory with this device. Same consists of an iron cut-out bored to the proper size, a foot pedal, spring and cable chain. The entire outfit is packed in a neatly labeled box.

Outfit No. 1, complete with plain pedal, each.....\$0.75
Each..D.P. \$1.11 Dozen..D.P. \$11.11

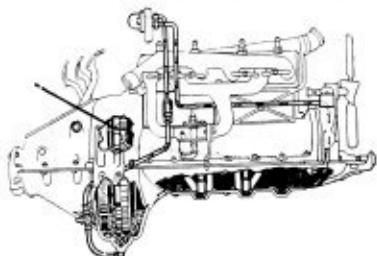
Outfit No. 2, complete with locking pedal, each......75
Each..D.P. \$1.11 Dozen..D.P. \$11.11



ACCESSORIES FOR FORD CARS

LUBRICATORS, DIFFERENTIAL AND RADIATOR ACCESSORIES

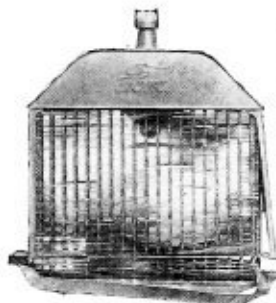
Strong's Sight Feed Lubricator



This is a positive and mechanically correct oiling system for Ford cars and is provided with a glass gauge to mount on the dash which shows at all times the circulation of the oiling system. Is installed on the Ford engine without changes and requires only a few minutes' time, all working parts covered and kept free from dirt. No additional oil tanks used and no changes in engine adjustment required. No parts interfere with standard engine and does not limit the addition of other accessories. Simple and rugged in construction and certain in operation. Nothing to get out of order or demand attention.

Price, each \$5.00
 Each D.P. \$8.33
 Lots of 6, each, D.P. 7.77
 Lots of 12, each, D.P. 6.66

Radiator Support



The weight of the radiator is carried by the thin brass sides that soon become broken by the constant vibration and road shocks. When these sides break, the radiator sags, allowing the tubes to move up and down and rub against the tying sheet which extends across between the brackets. This soon breaks the tubes and it is good-bye radiator. Prevent this by putting on the Martens Radiator Support before the sides break, or, if the side is broken, put the support under the radiator and prevent the tubes from wearing in two.

Each \$1.25
 Each, D.P. \$1.66

The Bailey Gearless Differential

For Ford Cars

Banishes forever all rear axle troubles. Replaces the standard geared differential without changes and is finished complete ready to install.

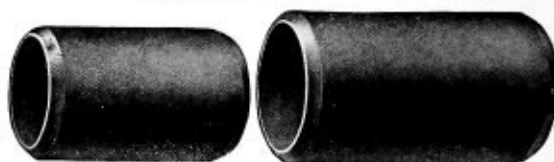
The Bailey Gearless Differential will prevent skidding, sidesway, slipping and stalling on bad roads. It gives a positive drive on both wheels just the same as if both wheels were on a solid undivided axle. The patented locking device holds the axle as a unit except when turning corners, thus preventing the splinting of one wheel when on rough roads or in mud or sand.

Your car will ride steadier, your brakes will be more effective, you will save oil, gasoline and tires, and enjoy freedom from skidding.

Price \$20.00
 Each, D.P. \$33.33



Radiator Hose for Ford



"INLET HOSE"

"OUTLET HOSE"

Falcon Fordoid Radiator Hose is guaranteed not to harden or soften, not to crack or collapse, not to be affected by hot or cold water, oil or anti-freezing solutions, and to give satisfaction under the most severe conditions of service. Every piece is branded. Beware of cheap substitutes. Fully guaranteed. The outlet and inlet hose being of different dimensions, they are packed separately in boxes, each containing one dozen pieces.

No. 1 (3944) Falcon Inlet Hose, each \$0.20
 Dozen, D.P. \$2.22

No. 2 (3006) Falcon Outlet Hose, each25
 Dozen, D.P. \$2.77

No. 4 (3944) Inlet Hose, each10
 Dozen, D.P. \$1.66

No. 6 (3006) Outlet Hose, each10
 Dozen, D.P. \$1.88

Nos. 4 and 6 are made of lighter material than Nos. 3944 and 3006, but are heavy enough for all practical purposes.

Hose Clamps



No. 12—For Inlet Hose, 2 inches inside, each \$0.15
 Dozen, D.P. \$3.00

No. 13—For Outlet Hose, 2 1/2 inches inside, each15
 Dozen, D.P. \$2.22

Thompson Hose Clamp

No. 116—For Inlet Hose, 2 inches inside, each \$0.05
 Dozen, D.P. \$1.00

No. 118—For Outlet Hose, 2 1/2 inches inside, each05
 Dozen, D.P. \$1.00



Gordon Radiator and Hood Covers



The Gordon Radiator Cover and Engine Robe is made to fit perfectly on the Ford car and is held securely in place by special fasteners. Keeps the heat inside the hood, which means more satisfactory running and easier starting in cold weather.

Is made in two parts, so that the engine hood can be raised without removing either the radiator or hood cover.

The front curtain in radiator cover may be entirely closed when car is standing or opened either entirely or part way when driving, to suit the condition of weather.

Made of heavy enameled waterproof cloth and lined with a heavy heat-retaining felt.

No. 1020 Engine Hood and Radiator Cover complete, Price \$3.10

Each, D.P. \$ 3.45
 Dozen, D.P. \$7.30

No. 1016 Radiator Cover only, Price 1.50

Each, D.P. \$ 1.66
 Dozen, D.P. \$ 18.65

PISTON RINGS AND FAN BELTS



PISTON RINGS

There is only one genuine "Leak Proof" Ring and it has the name "Leak Proof" stamped on every ring. Made of special soft gray cast iron accurately turned and individually ground to size.

- Does your engine fill up with carbon?
- Do your spark plugs get foul with oil?
- Does your engine hold compression?
- Does your engine smoke?
- Are you using too much gasoline per mile?
- Is your oil consumption excessive?
- Does your engine deliver full power?

Such faults are the result of poorly fitting or worn piston rings and can be corrected by the use of "Leak Proof" Rings.

Leaky rings are responsible for a major portion of the engine troubles and it is safe to say that 90 per cent. of all engines have leaky rings after 4,000 to 5,000 miles running.

Fit your car with the genuine "Leak Proof" Rings and get full power and full mileage.

Each \$2.00
Price, each. .D.P. \$2.66

Standard Piston Rings

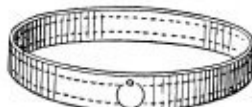


Our No. 77 Piston Rings are carefully made of a special soft cast iron and finished accurately to size. Every ring perfect, of proper size for the piston and cylinder for which it is intended. The lap dovetail joint makes a gas-tight fit and insures good compression.

Size, $3\frac{1}{4} \times \frac{1}{4}$ in., each \$0.15
Each. .D.P. \$0.26
Dozen. .D.P. \$2.66

Oversize, $3\frac{1}{4} \times \frac{1}{4}$ plus .030 in., each15
Each. .D.P. \$0.26
Dozen. .D.P. \$2.66

Leather Fan Belts for Fords



No. 1 Leather Fan Belts, each \$0.35
Each. .D.P. \$0.44
Dozen, each. .D.P. \$0.40



No. 6 Latigo Leather Belt

Latigo leather is really rawhide with the stretch tanned out. It contains no mineral tannage, but is tanned like leather was tanned in Mexico when Cortez landed there. It is impervious to the elements that usually destroy fan belts and should last indefinitely.

No. 6 Latigo Leather Belt, each \$0.50
Each. .D.P. \$0.55
Dozen, each. .D.P. \$0.50

No. 4 Blue Streak Fan Belt



This belt is made of high-grade fabric, oil and water proof and free from stretch and is faced on pulley side with leather to prevent slipping.

No. 4 Blue Streak Fan Belt, each \$0.60
Each. .D.P. \$0.66
Dozen, each. .D.P. \$0.60

No. 5 Fabric Open Belt



A close woven, non-stretch fabric belt, specially treated to exclude oil and water, made open to add to the ease in putting on. The belt fastener is quick in operation and holds tight.

No. 5 Fabric, price, each \$0.25
Each. .D.P. \$0.26
Dozen, each. .D.P. \$0.24

G. Q. Fan Belt



Gibson Quality Fordoid Fan Belt is constructed of six plies tightly woven special army duck of very great strength. Well treated with a special compound which increases the friction and makes the belt impervious to the action of oil, water and heat. All stretch is taken from the fabric before this treatment. Made endless, the splice being sewed above and below, eliminating all chance of opening. Sewed with specially treated thread. The material and construction are such that the Fordoid Fan Belt will give long and satisfactory service. We recommend and guarantee this belt.

G. Q. Fan Belt, each \$0.45
Each. .D.P. \$0.44
Dozen, each. .D.P. \$0.40



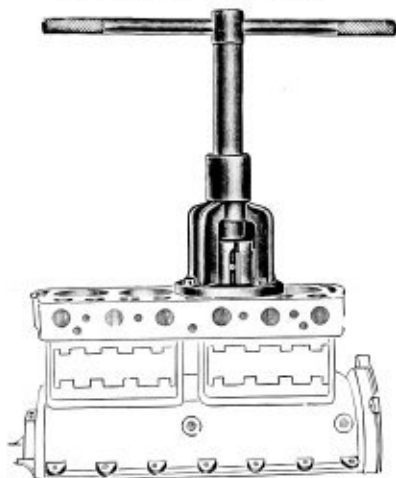
ACCESSORIES FOR FORD CARS

358

JIG AND REAMER, MAGNET RECHARGERS AND VALVE GRINDERS

The Davis Cylinder Reboring Jig and Reamer

For Reboring Ford Cylinders



Don't scrap old worn and scored Ford cylinders—re-bore them with the Davis Cylinder Reboring Jig and Reamer.

It is an established fact that old cylinders that have seen months of alternate expansion and contraction due to the heating and cooling in service are seasoned out and are much superior to new castings.

We will furnish pistons 1-32 inch oversize and the Davis outfit rebores to fit these pistons and makes the motor better than new.

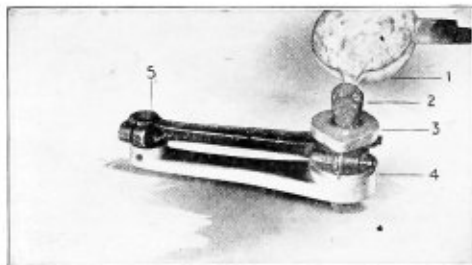
This will enable the smaller shops and garages to re-bore cylinders equally as good as the larger shops with their expensive machinery.

One man can re-bore a set of four cylinders in sixty minutes. This includes all setting up, the tool centers itself and an inexperienced man can do as good a job as an expert machinist.

Reamer is adjustable for size. Weight, net, 45 pounds. Blades can be set out and reground when worn at small expense.

PriceD.P. \$100.00

Connecting Rod Babbitt Jig

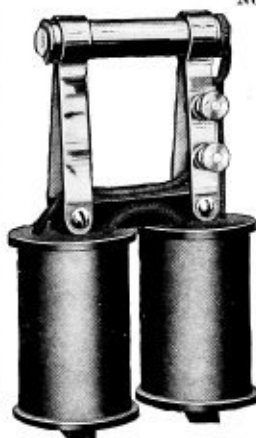


Do your own babbitting on Ford connecting rods with this labor-saving jig. Does the work perfectly and produces smooth, true bearings. Save time and make some extra money instead of returning or scrapping connecting rods that only need new bearings.

Price, complete\$4.00
Complete. .D.P. \$6.33

Benjamin Ford Magnet Recharger

No. 8206A



This device is designed for re-energizing the permanent magnets on the Ford Magneto. It may be operated from five or six dry cells in series, or an ordinary six-volt storage battery. Economical in current consumption and simple to operate. A large percentage of the ignition troubles on the Ford car are due to the weakening or demagnetizing of the permanent magnets on the magneto, which results in a much lower voltage output. This is more noticeable and annoying at low speed.

By the use of this Recharger on Magnetos in this condition, the latter can be strengthened to such an extent that nearly full efficiency is again obtained.

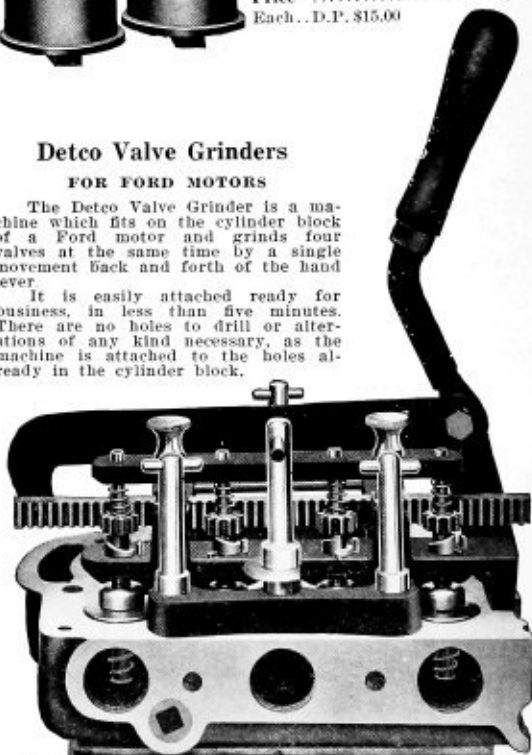
Price\$9.00
Each. .D.P. \$15.00

Detco Valve Grinders

FOR FORD MOTORS

The Detco Valve Grinder is a machine which fits on the cylinder block of a Ford motor and grinds four valves at the same time by a single movement back and forth of the hand lever.

It is easily attached ready for business, in less than five minutes. There are no holes to drill or alterations of any kind necessary, as the machine is attached to the holes already in the cylinder block.



The Detco Valve Grinder will seat a set of valves more perfect than is possible by the most skilled mechanic in less than one-sixth of the time, and the work can be done by a boy or anyone who is able to pull the hand lever back and forth.

The seats are ground more perfect than can be done by hand as the valves are held in perfect alignment and absolutely centered while being ground. This feature adds 25 per cent. greater efficiency to the motor.

The action of the grinder is the same as a valve, being ground by hand. That is, the valves are rotated 14 revolutions and reverse, also, lifted from the seat in an up and down movement, all of which is done by pulling the hand lever back and forth.

The Detco Valve Grinder is an absolute necessity in every garage and to owners of fleets of several cars, for it will pay for itself in no time and add wonderfully to the efficiency of the motor whose valves it grinds.

Price\$12.00
Price. .D.P. \$20.00

ACCESSORIES FOR FORD CARS



GASKETS AND FELT WASHERS

Victor Ford Gaskets



This Box Contains 12 Cylinder Head Gaskets

No. J. V. 29. Box of 12 Ford Cylinder Head Gaskets, per box\$9.60
Per box...D.P. \$8.88
Less than box, each...D.P. \$0.84

Victor Ford Gaskets



This Box Contains 12 Complete Sets Less the Cylinder Head Gasket

No. J. V. 9. Box of 12 Set Ford Gaskets. Less Cylinder Head Gaskets, per box.....\$3.20
Per box...D.P. \$4.44
Less than box, per set...D.P. \$0.44

Victor Ford Gaskets



No. J. V. 25. Box of 12 Complete Sets Ford Gaskets, per box\$12.00
Per box...D.P. \$12.88
Less than box, per set...D.P. \$1.22

1 complete set of gaskets consists of:

- 1 No. 1 Cylinder Head Gasket No. 3002.
- 1 No. 2 Cylinder Head Outlet Gasket No. 3005.
- 1 No. 3 Cylinder Head Inlet Gasket No. 3018.
- 1 No. 4 Cylinder Head Flange Gasket.
- 6 No. 5 Inlet and Exhaust Pipe Gaskets No. 3063.
- 1 No. 6 Trans Drain Plug Gasket No. 3090B.

Felt Washers and Gaskets

For Ford Cars



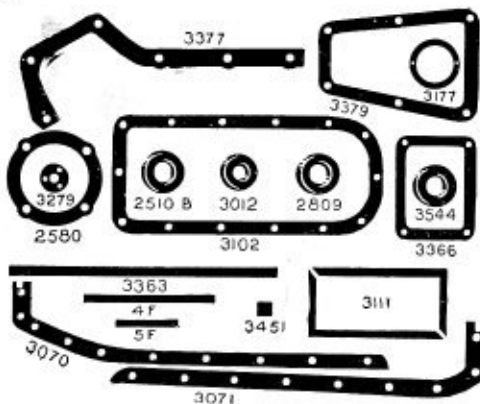
Carton contains one complete set of 20 Felt Washers as used on the Ford car. Per Carton\$0.75
Per Carton...D.P. \$1.00



Carton contains 6 Felt Washers for wheels, crank shaft and steering bracket, per carton\$0.15
Per Carton...D.P. \$0.22

Felt Washers

These Felt Washers are made of good quality pressed felt and are the correct sizes for their respective places on Ford cars. Numbers given correspond to same parts in Ford part lists:



	No. Required for Car	Per Doz.
3363 Trans Cover Strip 15 1/2"	1	D.P. \$0.83
3363 Trans Cover Strip 3 1/2"	1	D.P. .22
2965 Trans Cover Strip 7 1/2"	1	D.P. .22
3111 Cylinder Door	2	D.P. .33
3451 Controller Shaft Bracket	2	D.P. .22
2580 Universal Ball Cap	1	D.P. .77
3279 Magneto Contact Washer	1	D.P. .22
2864-2829 Rear Wheel Washer	2	D.P. .53
3366 Trans Cover Door	1	D.P. .77
3177 Commutator Ring	1	D.P. .22
2510-B Rear Wheel Hub	2	D.P. .53
2809 Front Wheel Hub	2	D.P. .53
3012 Crank Shaft	1	D.P. .53
3544 Steering Bracket	1	D.P. .53
3377 Trans Cover	1 Pr.	D.P. .77
3070 Crank Case and Cylinder (left)	1	D.P. .77
3071 Crank Case and Cylinder (right)	1	D.P. .77
3102 Crank Case Cover	1	D.P. 1.88
3379 Trans Cover Door	1	D.P. .22



ACCESSORIES FOR FORD CARS

TOOL BOXES AND TOOLS

Valve Grinder for Fords



No. 606

No. 606 Valve Grinder. To grind valves on a Ford car you must apply a quarter-circle power rapidly on the valve top. Two holes drilled in your valve top are engaged with the two pins on the grinder and ten minutes' work makes your engine smooth and quiet. Valve Grinder No. 606 is built for the car owner who wishes a neat, inexpensive tool guaranteed to do the work. Finest steel used in this tool, with wood top, 4½ inches high.

Price each \$0.25
Each, D.P. \$0.40

Piston Ring Compressor



With this Compressor, Piston Rings can be set in just a fraction of the time ordinarily consumed. A slight hand pressure on handles produces a leverage strong enough to compress even the new and stiff rings with very little effort.

Price \$0.50

Each, D.P. \$0.77

Dozen, D.P. \$7.77

Ford Style Boxes



Substantial, well made tool or battery boxes of the right sizes to fit Ford cars. Heavy gauge pressed steel finished in baked black enamel and fitted with spring catches and key lock. Our extremely large volume of business on these boxes permits us to supply our trade at exceptionally low prices. Do not confuse this line with the many cheap, light-weight boxes on the market.

No. B-1586 Ford Box, size inside 15 inches long, 7½ inches wide and 6¼ inches deep, each \$2.15

Each, D.P. \$2.88

Dozen each, D.P. \$2.55

No. R-1886 Ford Box, size inside 17½ inches long, 8 inches wide and 6¼ inches deep, each 2.10

Each, D.P. \$2.66

Dozen each, D.P. \$2.40

100 lots each, D.P. \$2.11

No. R-2296 Ford Box, size inside 22 inches long, 9 inches wide and 6¼ inches deep, each 2.15

Each, D.P. \$2.66

Dozen each, D.P. \$2.40

100 lots each, D.P. \$2.11

No. B-2416 Ford Box, size inside 24 inches long, 9½ inches wide and 6¼ inches deep, each 3.15

Each, D.P. \$4.22

Dozen each, D.P. \$3.88

Adjustable Wheel Puller



No. 660

Made of malleable iron with hardened bolt and nut. This puller is made with a lose nut inside, instead of the shell being tapped to receive the bolt. This permits of the hardened bolt fitting into hardened threads instead of the soft shell.

Price, each \$0.50

Each, D.P. \$0.56

Dozen, D.P. \$5.00

No. G 7. Buckeye Clincher Tire Tool

The easiest and quickest method of removing or attaching clincher tires. Even tires that have rusted to the rims come off in a jiffy with this tool.

Complete \$1.00

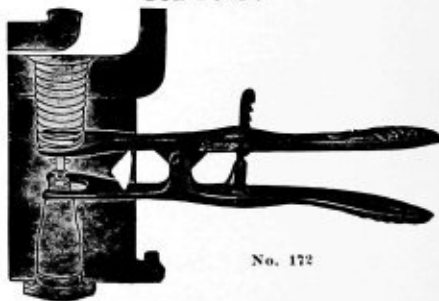
Each, D.P. \$1.11

In dozen lots,
each, D.P. \$1.00



No. G 7

No. 172. Valve Spring Release FOR FORDS



No. 172

This very necessary tool is made particularly for Ford valves and is the one tool that actually fits its place. It is strongly made and the jaws are thin and curved to the correct shape. Self-locking and rapid in operation.

Price, each \$0.50

Each, D.P. \$0.66

ACCESSORIES FOR FORD CARS



REAMERS

Alvord Special Reamers for Ford Cars



No. 2713-2714—Ford Spindle and Spindle Arm Bushing. This reamer is made the exact size to ream these two bushings and is almost indispensable for this particular use, price.....\$2.00
Price, each..D.P. \$2.88



No. 3022—Ford Wrist Pin Reamer. This reamer is made especially to ream both bushings for the wrist pin at one operation and puts them in perfect alignment for the wrist pin, price.....\$2.00
Price, each..D.P. \$2.77



No. 3314—Transmission Gear Bushing, price....\$2.00
Price, each..D.P. \$2.77



No. 2540—D. S. Housing Front Bushing, price...\$3.00
Price, each..D.P. \$4.00

No. 3820—Front Spring Perch Bushing, price.... 2.00
Price, each..D.P. \$2.44

No. 3844—Rear Spring Perch Bushing, price.... 2.00
Price, each..D.P. \$2.44

No. 2525 B—Differential Pinion Bushing, price.... 2.00
Price, each..D.P. \$2.44

No. 3044—Cam Shaft Rear Bearing, price..... 2.50
Price, each..D.P. \$3.00

No. 3042—Cam Shaft Front Bearing, price..... 2.50
Price, each..D.P. \$3.00

No. 3521—Steering Gear Pinion Bushing, price.. 1.50
Price, each..D.P. \$1.88

No. 2559—Hub Cam Shaft Bushing, price..... 1.50
Price, each..D.P. \$2.00

No. 3545—Steering Post Bracket Bushing, price... 2.50
Price, each..D.P. \$3.00



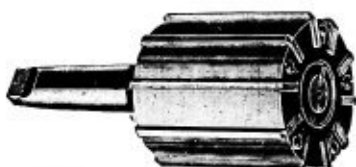
No. 2527—Differential Spider Bushing, price....\$3.00
Price, each..D.P. \$4.00

No. 2517—Differential Case Bushing, price..... 4.00
Price, each..D.P. \$5.33



No. 3031-2-3—Crank Shaft Bushings. This reamer is designed to ream the three bushings of the crank shaft at one operation and by this means you secure perfect alignment of these bearings, which not only saves three-fourths of the time in reaming, but also saves an unusual waste of time in the alignment. Price.....\$15.00
Price, each..D.P. \$18.88

The above list of reamers is designed to cover all the parts of a Ford automobile that need reaming, and they are all made the exact size necessary for these different bushings and will be found very convenient and highly useful tools for all garages.



No. 3000—Cylinder Reamers. These reamers are made with inserted high-speed blades and are the exact size to be used in reaming cylinders that are slightly worn and will fit the oversize piston, which are furnished by the Ford company and is to be used on rebored cylinders.

Price\$25.00
Price, each..D.P. \$41.66

Set in Hardwood Cases

We also put up in hardwood cases the following reamers, which will make a complete set of the reamers that are most often needed in garages, consisting of eleven different sizes. In this set you will note that Nos. 3820 and 3844 are of the same size and one reamer takes care of the same bushing. Also Nos. 3044, 3042 and 3545 are the same size reamers and one reamer takes care of these three different bushings:



- No. 2713-2714—Ford Spindle.
- No. 3022—Wrist Pin.
- No. 3314—Transmission Gear.
- No. 2540—D. S. Front Housing.
- No. 3820-3844—Front and Rear Spring Perch Bushing.
- No. 2525B—Differential Pinion.
- No. 3044-3042-3545—Rear and Front Cam Shaft and Steering Post Bracket Bushing.
- No. 3521—Steering Gear Pinion.
- No. 2559—Hub Cam Shaft.
- No. 2527—Differential Spider.
- No. 2517—Differential Case.

Price, per set.....\$25.00
Per Set..D.P. \$34.44



ACCESSORIES FOR FORD CARS

VALVE TOOLS AND TOOL SETS

No. G 1 Valve Seating Tool

FOR FORD CARS



These Valve Seating Tools are made from the finest grade of high speed steel and are guaranteed for one year from defects in material and workmanship.

No. G 1 Valve Seating Tools, Ford size (for Ford only), complete with handle, guide and cutter, each... \$1.00
Each... D.P. \$1.66

No. G 2 Sioux Valve Reamer

An exceptionally well made and heavy valve tool, cutter is hardened and ground tool steel capable of standing up to hard garage service.

Price, each \$2.50
Each... D.P. \$3.88



Valve Reseater and Refacer

FOR FORD CARS



A thoroughly reliable set of valve tools for Ford valves. Cutters are made of high carbon steel hardened and ground. With the aid of this set the valves and seats may be quickly seated.

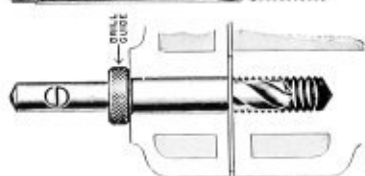
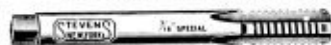
Price, per set... \$2.50
Per Set... D.P. \$3.66

For the use of the car owner or garage man who desires a cheaper set we furnish a reseater and refacing

tool similar but not of such good quality.

Price, per set... \$0.85
Per Set... D.P. \$1.11

No. G 5 Drill and Tap Set for Fords



For removing broken cylinder head bolts. The drill and tap set is provided with a guide to insure drilling the proper depth. The hardest set for the repairman for getting the broken end of cylinder

bolts out and making a clean thread for a new bolt.
Per set \$1.00
Per Set... D.P. \$1.66

Ford Type

No. 2500

Arranged with special reference to screw threads found on Ford Automobile, Model T. This assortment is also peculiarly adapted to a great variety of cars.



Contents

To fit 6½-inch stock and 4-inch "T" tap wrench:

Sizes	Threads Per Inch	
No. 6	32	One tap (plug), one die (13/16 in. diameter), one guide, for each cutting size.
No. 10	24 and 32	
No. 12	24	
No. 14	24	
7/32-inch	32	To fit 9-inch stock and 5½-inch "T" tap wrench:
¾-inch	20	
5/16-inch	18 and 24	

¾-inch	16 and 24	One tap (plug), one die (1 inch diameter), one guide, for each cutting size.
13/32-inch	16	
7/16-inch	14 and 20	
¾-inch	20	
¾-inch	Pipe	

Price, leather case \$18.50
Each... D.P. \$26.64

Lightning Garage Repair Set FOR FORD CARS



No. 2501

This assortment of taps, dies and reamers has been selected to meet the demand from garages and repair shops, and is based on their experience in handling repairs on Ford Cars. The tools are of the celebrated Lightning quality which has been in the front rank for nearly 45 years.

CONTAINS:

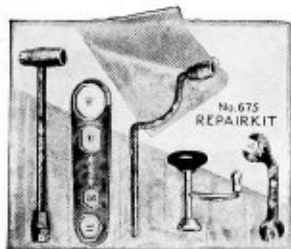
Screw cutting sizes ¼-28, 5/16-24, ¾-24, 13/32-16, 7/16-20, 7/16-14, ¾-20.
Plug Taps and Round Adjustable Dies.
Spiral Fluted Reamers.
2-in-1 for spindle body and spindle arm bushing.
1 for piston pin bushing.
Stock for Round Adjustable Dies.
Tap Wrench (Adjustable).
Weight 4½ pounds.

Price \$14.50
Each... D.P. \$20.00



TOOL KITS

Repair Kit



No. 675 Repair Kit. Just the tools needed for a quick repair, and packed in a waterproof duck kit that can be carried under the seat. Contains valve grinder, triple end wrench, connecting rod wrench, hub cap wrench and double end general service wrench.

Per Set \$1.20
Per set.. D.P. \$2.00



No. 630 Triple End Socket Wrench. Will fit the cylinder head and rear axle housing bolts. The long handle gives good leverage for starting stubborn bolts.

Price, each \$0.26
Each.. D.P. \$0.44
Dozen, each.. D.P. \$0.40



No. 645 Reverse and Brake Pedal Tension Springs. The one wrench that reaches these parts for needed adjustment. The ratchet permits action in limited space.

Price, each \$0.50
Each.. D.P. \$0.84
Dozen, each.. D.P. \$0.78



No. 650 Hub Cap Wrench. This is not a cheap makeshift, but a real tool made of good material and made to fit. Also fits spark plugs and several other places on the car.

Price, each \$0.10
Each.. D.P. \$0.18
Dozen, each.. D.P. \$0.16



No. 623 Connecting Rod Wrench. Made to reach the No. 4 connecting rod bolts. Its use will save many times its cost, as it eliminates the necessity of taking down the engine to reach these bolts.

Each \$0.28
Each.. D.P. \$0.46
Dozen, each.. D.P. \$0.44

Tool Kit



This kit is made up of tools specially adapted to use on Ford cars. They are selected from the well-known Billings & Spencer drop forged line, insuring quality and durability. The bag is made of good quality of canvas, bound edges, and leather strap. The tools are as follows:

- 1 8-inch Auto Wrench.
- 1 6-inch Combination Pliers.
- 1 9-inch Screw Driver.
- 1 Double Head Wrench, openings 1 1/2-in. and 1 1/4-in.
- 1 Double Head Wrench, openings 1 1/2-in. and 1 1/4-in.
- 1 Double Head Spark Plug Wrench, 1/2-in. and 3/8-in.
- 1 Double Head Hub Cap Wrench, 1 1/2-in. and 1 1/4-in.
- 1 Socket Wrench, opening 3/4-in.
- 1 8-ounce Ball Pein Hammer.
- 1 Chisel, 1 Punch, 1 Cotter Pin Tool, 1 File.

Each, including bag and tools as above..... \$4.50
Each.. D.P. \$7.22

Seven-piece Tool Kit for Fords

This set contains all of the tools originally sent out with a Ford car and some additional tools that are very convenient to have. Consists of the following tools:



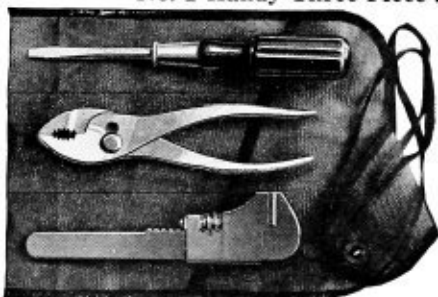
No. 27 Semi-finished 15-degree Angle Drop Forged Wrench.

9-inch Black Automobile Wrench.

- 3-inch Electrician's Round Shank Screw Driver.
- 6-inch Black Adjustable Combination Pliers.
- 3/8-inch Cold Chisel, natural finish.
- 5-inch Offset Screw Driver.
- 8-ounce Ball Pein Hammer.

7-Piece Ford Tool Kit, each \$2.00
Each.. D.P. \$3.00

No. 1 Handy Three-Piece Set



Just the tools most needed and which you want to keep within easy reach in the car. Set consists of:

- 1 4-inch Screw Driver.
- 1 6-inch Adjustable Wrench.
- 1 6-inch Pair Pliers.

Price, per set \$1.00
Per Set.. D.P. \$1.33



ACCESSORIES FOR FORD CARS

WRENCHES FOR FORD CARS

No. 33 Mossberg Socket Wrench Set for Ford Cars



Just the sizes needed to fit the Ford bolts and nuts that require socket wrenches. Consists of 5 sockets and heavy handle.

Price per set \$1.10
Each...D.P. \$1.77

No. 17 Mossberg Heavy Duty Set for Ford Cars

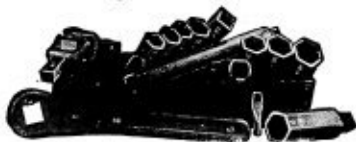


No. 17 Socket Wrench Set

Consists of 5 sturdy steel bars eight inches long over all with a socket on each end. Fits the standard Ford bolts and nuts. Packed in a canvas kit.

Per set \$2.00
Each...D.P. \$3.33

No. 30 Mossberg Socket Set for Ford Cars



Contains all the sizes of sockets needed to fit all Ford bolts and nuts together with one No. 355 ratchet handle, extension tube, universal joint and screw device bit.

Price per set \$4.00
Each...D.P. \$6.66

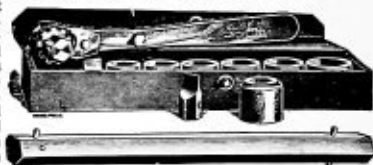
No. 15 A Mossberg Socket Wrench Set is for exclusive use on Ford cars and completely covers all adjustments that are to be found on these machines. In wood case containing Mossberg ratchet socket wrench No. 350, tubular extension bar, universal joint, screw driver bit, spark plug socket, nine regular, mottled, thoroughly hardened pressed steel sockets, fitting standard sizes of screws, nuts and bolts; one special 19/32 oval socket for three crank shaft bearing bolts.



No. 15A Mossberg Socket Wrench Set, packed in wood case, each \$5.00
Each...D.P. \$8.33

Lane's Unique Ratchet Wrench

The Unique Ratchet Wrench Set contains the sockets required for bolts and nuts on Ford cars and two screw driver bits. Socket handle is reversible and very strong and durable. Packed in a neat case which may be carried in the pocket of the car.



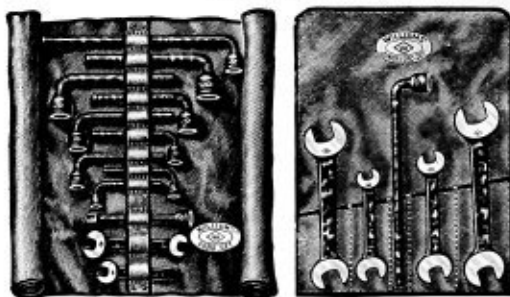
Price per set \$3.00
Price per set...D.P. \$4.44

Walden Wrench Set



No. 5 Walden Set of Five Ford Service Wrenches, per set \$1.75
Per set...D.P. \$2.66

Williams' "Ford" Sets of Superior Drop-Forged Wrenches



"Ford" Set "A"

"Ford" Set "B"

SET "A"

No.	Class	Milled Openings Inches	Semi-Finish	
			Price	Retail
27	Engineer's	19/32—11/16	D.P. \$0.35	\$0.25
702	Cap Screw	9/16	D.P. .24	.17
963D	Offset Socket	29/64	D.P. .40	.27
964A	Offset Socket	33/64	D.P. .44	.30
965D	Straight Socket	37/64	D.P. .50	.33
965D	Offset Socket	37/64	D.P. .50	.33
965A	Offset Socket	39/64	D.P. .50	.33
966DS	Offset Socket	41/64	D.P. .70	.50
967A	Offset Socket	45/64	D.P. .60	.42
967D	Offset Socket	49/64	D.P. .60	.42
968A	Offset Socket	51/64	D.P. .66	.46
969A	Offset Socket	57/64	D.P. .78	.51
Set A, without roll			D.P. 6.22	4.25
Set A, with roll			D.P. 6.88	4.66

SET "B"

No.	Class	Milled Openings Inches	Length Inches	Price	
				D.P.	Retail
27C	Engineer's	9/11—11/16	5 3/4	\$0.33	\$0.25
729	Cap Screw	3/8—3/4	6 3/4	.40	.28
33C	Engineer's	15/16—1	8 1/4	.60	.42
724	Cap Screw	3/8—1 1/8	9 1/4	.76	.50
966DS	Socket	41/64	11	.78	.51
Set B, without roll				D.P. 2.84	1.90
Set B, with roll				D.P. 3.33	2.25

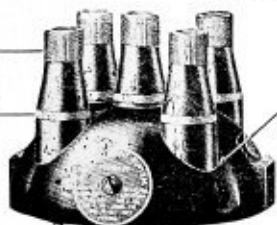
ACCESSORIES FOR FORD CARS



ATWATER-KENT PARTS

Distributor Terminal, 20c.

Rubber Washer, 2c.



Distributor Cap, Complete with Terminals
2 Cylinder, \$3.05
4 " " 3.40

Distributor Block, Complete
2 Cylinder, \$0.50
4 " " .50



Distributor Clamp, 12c.

Contact Screw Holder, 35c.

Insulated Screws and Washers, 5c.

Latch—not sold separately
Contact Screw with Shim Washers, \$1.55

Spring Contact Arm, \$1.70

Lifter, 25c.

Lifter Guide Screw, 7c.

Contact Spring Holder, 35c.



Binding Post, 8c.

Washer, 8c.

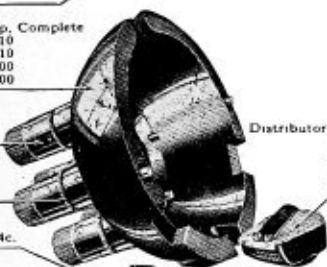
Base Casting, \$2.95

Notched Shaft
2 Cylinder, \$1.50
4 " " 1.50

Shaft Key and Screw, 10c.

Lifter Spring, 20c.

Distributor Cap, Complete
2 Cylinder, \$4.10
4 " " 4.10
6 " " 5.00
8 " " 6.00



Distributor Terminal, 20c.

Rubber Washer, 2c.

Distributor Clamp Screw, 4c.

Contact Screw Holder, 35c.

Insulated Screws and Washers, 5c. ea.

Contact Screw \$1.55

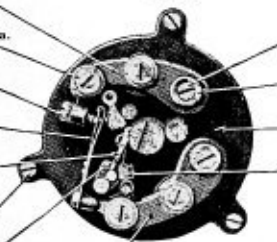
Spring Contact Arm, \$1.70

Lifter, 25c.

Base Plate Screws, 5c.

Lifter Guide Screw, 7c.

Contact Arm Holder, 35c.



Distributor Clamp, 12c.

Binding Post, 8c.

Binding Post Washer, 8c.

Contact Maker, Base Plate Only, \$2.10

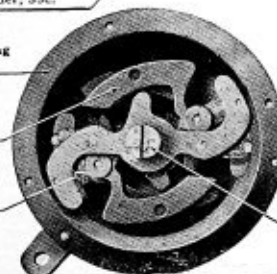
Lifter Spring, 20c.

Contact Maker Complete \$7.20

Main Body Casting Only, \$1.45

Governor Weights, 20c.

Governor Springs, 15c.



NOTE
Not including notched shaft.

Upper Shaft
2 Cylinder, \$1.00
4 " " 1.00
6 " " 1.20
8 " " 2.20

Distributor Cap Complete

Distributor Cap complete with terminals—

2-Cylinder	\$3.05	D.P. \$5.08
4-Cylinder	3.40	D.P. 5.66
Distributor terminals .....	.20	D.P. .33
Rubber washers .....	.02	D.P. .04
Distributor Block complete—		
2-Cylinder .....	.50	D.P. .84
4-Cylinder .....	.50	D.P. .84
Contact screw holder .....	.35	D.P. .58
Insulated screws and washers.....	.05	D.P. .09
Latch (not sold separately)		
Contact screw with shim washers.....	1.55	D.P. 2.58
Spring contact arm	1.70	D.P. 2.84
Lifter .....	.25	D.P. .42
Lifter guide screw .....	.07	D.P. .12
Contact spring holder .....	.35	D.P. .58
Distributor clamp .....	.12	D.P. .20
Distributor clamp screw .....	.04	D.P. .07
Binding post .....	.08	D.P. .14
Washer .....	.08	D.P. .14
Base casting	2.95	D.P. 4.88
Notched shaft, 2-cylinder	1.50	D.P. 2.52
Notched shaft, 4-cylinder	1.50	D.P. 2.52
Shaft key and screw .....	.10	D.P. .18
Lifter spring .....	.20	D.P. .34

Distributor Cap complete—

2-Cylinder	\$4.10	D.P. \$6.84
4-Cylinder	4.10	D.P. 6.84
6-Cylinder	5.00	D.P. 8.34
8-Cylinder	6.00	D.P. 10.00
Distributor terminal .....	.20	D.P. .33
Rubber washer .....	.02	D.P. .04
Distributor clamp screw .....	.04	D.P. .07
Contact screw holders .....	.35	D.P. .58
Insulated screws and washers .....	.05	D.P. .09
Contact screw	1.55	D.P. 2.58
Spring contact arm	1.70	D.P. 2.84
Lifter .....	.25	D.P. .42
Base plate screws .....	.05	D.P. .09
Lifter guide screws .....	.07	D.P. .12
Contact arm holder .....	.35	D.P. .58
Main body casting	1.45	D.P. 2.40
Governor weights .....	.20	D.P. .33
Governor springs .....	.15	D.P. .24
Distributor Block complete—		
2-Cylinder .....	.50	D.P. .84
4-Cylinder .....	.50	D.P. .84
6-Cylinder .....	.50	D.P. .84
8-Cylinder .....	.75	D.P. 1.24
Distributor clamp .....	.12	D.P. .20
Binding post screw .....	.08	D.P. .13
Binding post washer .....	.08	D.P. .13
Contact maker base	2.10	D.P. 3.52
Lifter spring .....	.20	D.P. .33
Upper Shaft—		
2-Cylinder	1.00	D.P. 1.66
4-Cylinder	1.00	D.P. 1.66
6-Cylinder	1.20	D.P. 2.00
8-Cylinder	2.20	D.P. 3.66
Contact maker complete (shaft not included)	7.20	D.P. 12.00

BUY "FALCONS" FIRST—BECAUSE "FALCONS" LAST



ACCESSORIES FOR FORD CARS

PARTS FOR FORD CARS

In compliance with the many requests of our dealers we have added to our stock a line of Repair Parts for Ford Cars. We have stocked and catalogued only such parts as the repair men and garage may require in the regular run of service and repairs.

The part numbers refer to similar parts as listed by the Ford Motor Company and the numbers *not listed by us, we do not carry and cannot supply.*

All orders should refer to the part number and only for such parts as listed.

Each part is made from the very best materials obtainable, machined by expert workmen, tested for strength, and all are guaranteed to be properly and accurately finished to fit. A small stock of Repair Parts for Ford Cars involves only a small amount of money and brings in a volume of profitable business.

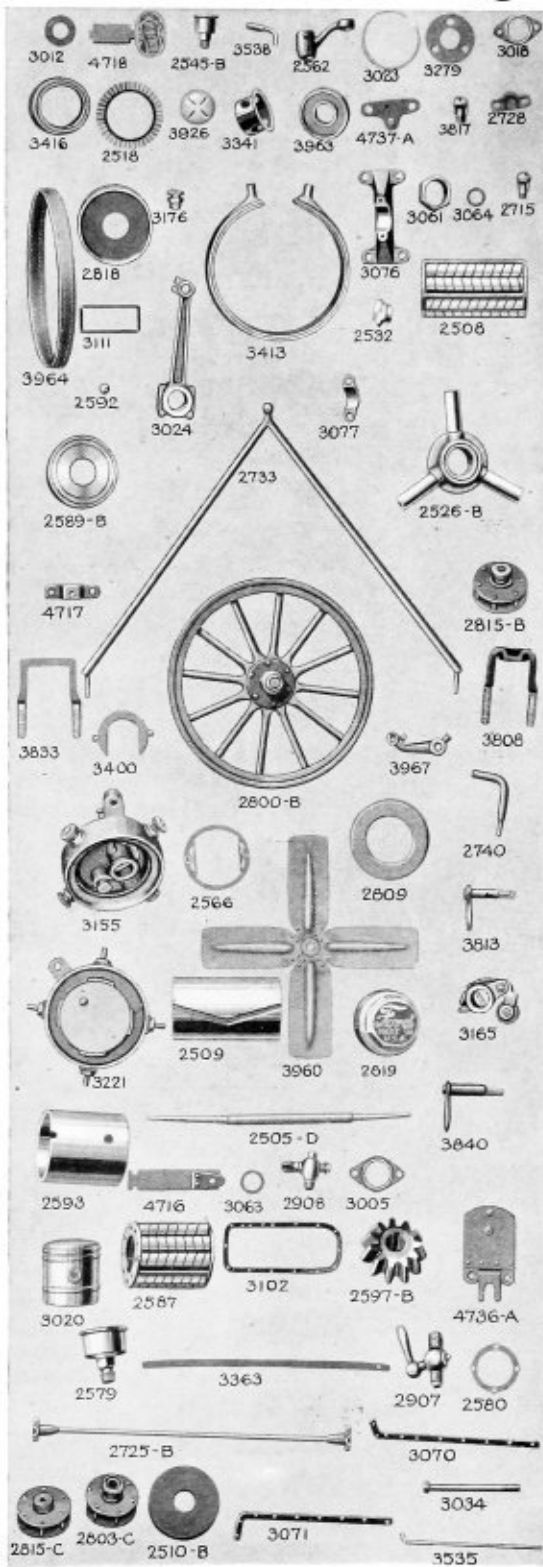
We have prepared a list of such parts as required to supply such service at the minimum expenditure, and we will gladly mail a copy to any dealer upon request.

ACCESSORIES FOR FORD CARS



PARTS FOR FORD CARS

Part No.	Name of Part	Year	Specifications	No. Per Car	List Price	See Page
REAR AXLE PARTS						
2503B	Axle housing bolt and nut	1912-15	3/8 x 1 1/2"	5	\$0.05	
2503C	Axle housing bolt and nut	1912-15	3/8 x 1 1/4"	7	.05	
2503E	Axle housing bolt and nut	1912-15	3/8 x 1 1/4"	7	.05	
2505D	Axle shaft tapered	1912-15	5/8" tread	2	2.50	
2506	Axle shaft washer	1909-15	1 1/2" dia. fibre	1	.03	
2508	Axle shaft roller bearing	1909-15	2 1/4 x 4"	4	.75	
2509	Axle shaft roller bearing sleeve	1909-15	4" long	2	.20	
2509B	Axle shaft roller bearing sleeve, left	1909-15	4" long	2	.20	
2510	Axle housing cap	1909-15	2 1/2" dia.	2	.05	
2510A	Axle outer roller bearing steel washer	1909-15	2 1/2" dia.	2	.03	
2510B	Axle outer roller bearing felt washer	1909-15	2 1/2" dia.	2	.05	350
2514	Diff. case stud and nut	1909-15	3/8 x 2 1/2"	3	.05	
2514B	Diff. case stud and nut	1915	3/8 x 2 1/2"	3	.05	
2517	Diff. case bushing	1909-13	1 1/2" bore - 1 1/2" dia.	2	.30	
2518	Diff. drive gear	1909-15	40 teeth	1	5.00	
2519	Diff. drive gear screw	1909-15	1/2 x 1 1/2"	10	.02	
2519A	Diff. gear lock ring	1909-15	1 1/2" long	2	.03	
2521B	Diff. gear pin	1911-13	1 1/2" long	2	.03	
2521C	Diff. gear pin	1913-15	1 1/2" long	2	.03	
2521	Diff. gear thrust washer	1909-14	Fibre, 3/8" dia.	2	.10	
2525	Diff. pin bushing	1909-10	1/2" bore	3	.05	
2525B	Diff. pin bushing	1911-14	1/2" bore	3	.05	
2526B	Diff. spider with bushing	1911-15		1	1.00	
2527	Diff. spider bushing	1909-15	1 1/2" bore	1	.20	
2528	Diff. thrust plate	1909-15	3 1/2" dia. bronze	2	.30	
2529	Diff. thrust plate	1909-15	3 1/2" dia. steel	4	.10	
2530	Diff. thrust plate pin	1909-15	1/2" long	2	.03	
2531	Diff. thrust plate pin	1909-15	1/2" long	4	.03	
2532	Diff. housing oil plug	1909-15	3/4" x 24 threads	1	.05	
2543B	Rear axle grease cup	1909-15	1 1/2" pipe threads	2	.10	353
2545	Radius rod nut	1909-15	3/8" x 18 threads	2	.05	
2549	Radius rod lock nut	1909-15	3/8" x 18 threads	2	.03	
2550	Radius rod lock washer	1909-15	3/8"	2	.01	
2551	Radius rod bolt and nut	1909-15	1/2 x 1 1/2"	4	.05	
2554	Ball joint support bolt and nut	1909-14	3/8 x 1 1/2"	4	.05	
2557	Hub cam shaft, right	1909-15	3 3/4" long	1	.20	
2558	Hub cam shaft, left	1909-15	3 3/4" long	1	.20	
2559	Hub cam bushing	1909-15	1 1/2" bore, 1 1/2" dia.	2	.10	
2562	Cam shaft lever	1909-15	1 1/2" bore	2	.20	
2563	Cam shaft lever pin	1909-15	1/2"	4	.02	
2564	Lever clevis pin	1909-15	1/2"	4	.02	
2566	Hub brake shoes	1909-15	Cast iron	2	.30	372
2567	Brake shoe support bolt	1909-15	1/2 x 1 1/4"	2	.05	
2568	Brake shoe support nut	1909-15	1/2 x 20 threads	2	.03	
2570B	Brake shoe coil spring	1909-15	3 1/2" long	2	.03	
2574	Joint knuckle pin	1909-15	3/4 x 1 1/2"	2	.01	
2576	Joint ring rivets (set of 4)	1909-15	1/2 x 1 1/2"	4	.05	
2578	Joint housing plug	1909-15	1/2 x 20 threads	1	.05	
2580	Ball cap gasket	1909-15	1 1/2" pipe threads	1	.15	353
2584	Drive shaft roller bearing stud and nut	1911-15	3/8 x 1 1/2"	6	.05	
2584B	Drive shaft roller bearing stud and nut	1912-15	1/2 x 1 1/2"	6	.05	
2586	Drive shaft roller bearing housing set screw	1911-15	1/2 x 20 threads	1	.05	
2587	Drive shaft roller bearing	1911-15	2 1/8" long	1	1.30	
2588	Drive shaft roller bearing plate	1911-15	2 1/2" dia.	1	.05	
2589B	Drive shaft ball bearing assembled	1911-15		1	.75	
2589	Drive shaft ball race	1911-15	2 1/8" dia.	1	.35	
2590	Drive shaft ball retainer	1911-15	2 1/8" dia.	1	.03	
2591	Drive shaft ball thrust collar	1911-15	2 1/8" dia.	1	.40	
2592	Drive shaft ball bearings, each	1911-15	3/8" ball	15	.03	
2593	Drive shaft roller bearing sleeve	1911-15	2 1/8 x 2 7/8" long	1	.90	
2596B	Drive shaft, tapered	1911-15	1 1/2 x 5 1/4"	1	3.50	
2596	Drive shaft sleeve	1911-15	1" bore x 3 3/8" long	1	.75	
2597B	Drive shaft pinion	1911-15	11 teeth	1	1.50	
2598	Drive shaft castle nut	1911-15	3/8" x 18 threads	1	.05	
2598B	Drive shaft pinion key	1911-15		1	.05	
2540	Drive shaft housing front bushing	1909-15	1" bore x 1 3/4" babb.	1	.30	
FRONT AXLE PARTS						
2607	Spindle cam nut	1909-15	1/2" x 18 threads	2	.05	
2714	Stationary cone	1909-15	1 1/2" bore	2	.20	
2715	Adjusting cone, right thd.	1909-15	3/4" x 16 threads	1	.15	
2716	Adjusting cone, left thread	1909-15	3/4" x 16 threads	1	.15	
2717	Spindle nut, right thread	1909-15	3/4" x 16 threads	1	.05	
2718	Spindle nut, left thread	1909-15	3/4" x 16 threads	1	.05	
2719	Spindle washer	1909-15	3/4" hole x 1 1/8"	2	.02	
2710H	Spindle bolt with oiler	1910-15	3/8 x 6 1/4"	2	.40	



Special Discount Applies to Prices on This Page



ACCESSORIES FOR FORD CARS

PARTS FOR FORD CARS—Continued



Part No.	Name of Part	Year	Specifications	No. Per Car	List Price	See Page
FRONT AXLE PARTS—CON.						
2711	Spindle bolt nut	1909-15	$\frac{1}{2}$ "x20 threads	2	\$0.03	
2713	Spindle body bushing, pair	1909-15	$\frac{1}{8}$ " bore	2	.30	
2714	Spindle arm bushing	1909-15	$\frac{1}{8}$ " bore, 1" long	2	.05	
2715	Spindle oiler	1909-14	See 3817, No. 000			354
2715H	Spindle connecting rod bolt with oiler	1909-15	$\frac{1}{2}$ "x2 $\frac{1}{4}$ "	2	.15	
2719	Spindle connecting rod bolt and nut	1909-15	$\frac{1}{2}$ "x20 threads	2	.02	
2722	Steering yoke clamp bolt and nut	1909-15	$\frac{3}{8}$ "x1 $\frac{1}{2}$ "	1	.05	
2725B	Steering gear connecting rod	1909-15	Includes ball sockets	1	.75	
2728	Ball socket cap	1909-15		2	.15	
2729	Ball socket bolt and nut	1909-15	$\frac{3}{8}$ "x1 $\frac{1}{2}$ "	4	.05	
2733	Front radius rod	1909-15		1	2.50	
2734	Front radius rod nut	1909-15	$\frac{1}{2}$ "x18 threads	2	.05	
2738	Front radius rod ball cap screw	1909-10	$\frac{3}{8}$ "x24 threads	2	.05	
2739	Front radius rod ball cap screw	1911-13	$\frac{3}{8}$ "x16 threads	2	.05	
2740	Speedometer swivel joint support	1912-14		1	.20	
2741	Radius rod ball cap stud and nut	1914-15		2	.05	
2742	Radius rod ball cap spring	1914-15		2	.02	
2762	Steering gear connecting rod	1909-15	60° tread	1	.75	
WHEELS						
2800B	Front wheel	1909-15	20x3"	2	5.00	
2800C	Front hub assembled	1909-15		2	2.00	
2804	Outer race	1909-15	2 $\frac{1}{2}$ " dia	2	.15	
2805	Inner race	1909-15	2 $\frac{1}{2}$ " dia	2	.02	
2806	Outer race ball retainer	1909-15	2 $\frac{1}{2}$ " dia	2	.02	
2807	Inner race ball retainer	1909-15	2 $\frac{1}{2}$ " dia	2	.02	
2808	Dust ring	1909-15	2 $\frac{1}{2}$ " dia	2	.05	
2809	Felt washer	1909-15	2 $\frac{1}{2}$ " dia	2	.05	359
2810	Large balls, each	1909-15	$\frac{3}{8}$ "	24	.04	
2811	Small balls, each	1909-15	$\frac{1}{8}$ "	22	.03	
2814C	Rear wheel (taper hub)	1912-15	30x3 $\frac{1}{2}$ "	2	5.00	
2815B	Rear hub assembly	1909-11	1 $\frac{1}{2}$ " bore x 4 $\frac{1}{4}$ "	2	1.50	
2815C	Rear hub, taper bore	1912-15	3 $\frac{1}{2}$ " long	2	1.50	
2816B	Rear hub key, for taper axle	1912-15	$\frac{1}{4}$ "x $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	2	.05	
2817	Rear hub pin	1909-10	$\frac{3}{8}$ "x2"	2	.02	
2818	Rear hub brake drum	1909-15	3" hole, 8" dia.	2	.30	
2819	Hub cap	1909-15		4	.20	354
2820	Hub bolt and nut	1911-15	$\frac{3}{8}$ "x2 $\frac{1}{2}$ "x16 threads	24	.03	
2825	Hub bolt and nut	1911-15	$\frac{5}{8}$ "x18 threads	2	.05	
2827	Hub flange	1913-15	Felt	2	.05	359
2828	Rear hub lock nut	1913-15		2	.05	
2829	Rear hub felt washers	1913-15		2	.05	359
GASOLINE TANK, RUNABOUT						
2876	Filler cap	1911-12	2 $\frac{1}{4}$ " O.D.	1	.30	
GASOLINE TANK, TOURING						
2903	Tank bolt and nut	1909-15		3	.05	
2907	Stop cock	1909-15		1	.20	
2908	Pet cock	1909-15	$\frac{1}{4}$ " pipe threads	1	.15	
2909	Feed pipe	1909-15	$\frac{1}{4}$ "x40 $\frac{1}{2}$ "	1	.50	
2910	Feed pipe pack nut	1909-15	$\frac{1}{2}$ "x18 threads	2	.05	
MOTOR						
3002	Cylinder head gasket	1909-15	Copper asbestos	1	.50	359
3003	Cylinder head cap screw	1909-15	$\frac{1}{4}$ "x2 $\frac{1}{2}$ "	13	.05	
3004	Cylinder head outlet connection	1909-15	Malleable (Special)	1	.30	Special
3005	Cylinder head outlet gasket	1909-15	Copper asbestos	1	.05	359
3006	Cylinder head outlet hose	1909-15	2x3 $\frac{1}{2}$ "	1	1.10	357
3007	Cylinder head outlet hose clip	1909-15	2 $\frac{1}{2}$ " dia.	2	.05	357
3008	Cylinder head outlet connection screw	1909-15	$\frac{1}{4}$ "x1 $\frac{1}{2}$ "	2	.05	
3010	Cylinder cover bolt	1909-15	$\frac{1}{4}$ "x $\frac{1}{2}$ "	1	.05	
3011	Cylinder cover cap screw	1909-15	$\frac{1}{4}$ "x $\frac{1}{2}$ "	4	.02	
3012	Cylinder cover felt	1909-15	Felt	1	.05	359
3014	Cylinder cover and crank case cover bolt and nut	1909-15	$\frac{3}{8}$ "x1 $\frac{1}{2}$ "	16	.05	
3015	Cylinder water inlet connection	1909-15	Malleable (Special)	1	.30	Special
3016	Cylinder inlet connecting screw	1909-15	$\frac{3}{8}$ "x1 $\frac{1}{2}$ "	2	.03	
3018	Cylinder water inlet gasket	1909-15	Copper asbestos	1	.05	359
3019	Cylinder water jacket plug	1909-15	$\frac{1}{2}$ " pipe plug	3	.05	

ACCESSORIES FOR FORD CARS



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PARTS FOR FORD CARS—Continued

Part No.	Name of Part	Year	Specifications	No. Per Car	List Price	See Page
MOTOR—Continued						
3010B	Cylinder water jacket plug	1914-15		3	\$0.01	
3020	Piston complete	1909-15	3 3/4" dia.	4	1.50	
3020B	Piston complete	1909-15	3 3/4" dia. x .005	4	1.50	
3020D	Piston complete, .03125 oversize	1909-15	.03125" oversize	4	1.50	
3021	Piston only	1900-15	3 3/4" dia.	4	.85	
3022	Piston pin	1900-15	1 x 2 1/2"	4	.25	
3022A	Piston pin bushing, pair	1909-15	3/8 x 1 1/2"	4	.35	
3023	Piston rings	1909-15	3 3/4 x 1 1/2"	12	.15	357
3023B	Piston rings, .03125 oversize	1909-15	.03125 oversize	12	.15	357
3024	Connecting rod	1909-15	includes bearings	4	1.50	
3025	Connecting rod cap bolt and nut	1909-15	3/8 x 2" x 24 threads	8	.10	
3029	Connecting rod clamp screw	1909-15	3/8 x 1 1/2"	4	.05	
3034	Crank shaft bearing bolt, center and front	1909-15	1/8 x 5/8" x 20 threads	4	.15	
3035	Crank shaft bearing bolt nut	1909-15	1/4" S.A.E. castle nut	6	.03	
3040	Crank shaft starting pin	1909-15	3/8 x 2 1/4"	1	.25	
3042	Cam shaft front bearing	1909-15	C.I. 2" long	1	.25	
3043	Cam shaft center bearing	1909-15	Brnz. 1 1/2" long	1	.30	
3044	Cam shaft rear bearing	1909-15	3/8 x 1 1/2"	4	.01	
3045	Cam shaft bearing ring	1909-15	3/8 x 1 1/2"	4	.01	
3046	Cam shaft bearing set screw	1909-15	7/8 x 3/8"	2	.03	
3049	Cam shaft gear dowel pin	1909-15	3/8 x 1 1/2"	2	.03	
3050	Cam shaft large gear lock nut	1909-11	Wood with con. 3200	1	.15	
3050B	Cam shaft large gear lock nut	1912-15	Wood with con. 3160	1	.10	
3051	Cam shaft small gear key	1909-15	Spes. Woodruff	1	.03	
3052	Valve	1909-15	Exhaust and inlet	8	.15	354
3053	Valve bushing	1909-10	1/2" dia. x 2" long	8	.15	
3053A	Valve bushing	1911-12	5/8" O.D. x 2" long	8	.15	
3054	Valve Spring	1909-15	2 1/2" long	8	.05	
3056	Valve spring seat	1909-15	1 1/2" dia.	8	.01	
3057	Valve spring seat pin	1909-15	3/8 x 1 1/2"	8	.01	
3058	Push rod	1909-15	3/8" dia. x 2 1/2"	8	.15	
3059A	Push rod bushing	1909-15	Iron	8	.15	
3061	Exhaust pipe pack nut	1909-15	1 1/2" x 18 thds., brnz.	1	.20	
3063	Inlet and exhaust pipe gasket	1909-15	1 1/2" O.D. copper	6	.03	359
3066	Inlet and exhaust clamp stud and nut	1909-15	3/8 x 3 1/4"	4	.05	
3070	Crank case and cylinder gasket, left	1909-15	Felt	1	.03	359
3071	Crank case and cylinder gasket, right	1909-15	Felt	1	.03	359
3072	Crank case and cylinder cover cap screw	1909-15	3/8 x 1"	2	.03	
3073	Crank case cover bolt and vent, side	1909-15	3/8 x 2 1/4"	2	.05	
3074	Crank case cover bolt and vent, top	1909-15	3/8 x 1 1/2"	2	.05	
3076	Crank case front bearing screw	1909-15	5/8 x 7/8"	2	.05	
3079	Crank case oil cock	1909-15	1/2" pipe thds.	2	.15	
3080	Crank case drain cup plug	1909-15	3/8" x 24 threads	1	.05	
3080B	Crank case drain cup plug gasket	1909-15	No. 6	1	.01	359
3088	Engine pan bolt and nut	1909-12	3/8 x 5/8"	7	.03	
3088B	Engine pan and hood board bolt and nut	1909-15	Short 1/4 x 3 1/4"	2	.03	
3088C	Engine pan and hood board bolt and nut	1909-15	1/4 x 3 3/4"	2	.03	
3102	Crank case lower cover gasket	1912-15	Felt	2	.10	359
3103	Crank case lower cover screw	1912-15	5/8 x 1 1/4"	14	.03	
3111	Cylinder valve cover gasket	1912-15	Felt	2	.02	359
3112	Cylinder valve cover stud and nut	1912-15	3/8 x 3 1/2"	2	.05	
COMMUTATORS						
3155	Commutator only	1912-15		1	1.00	359
3162	Commutator case support bolt	1912-15	3/8 x 2 1/4" x 24 threads	1	.40	
3165	Com. brush assembled	1912-15	3/8 x 1 1/2" long	1	.10	
3167	Commutator roller	1912-15	3/8 x 1 1/2" long	1	.03	
3168	Commutator roller pin	1912-15	3/8 x 1 1/2"	1	.01	
3170	Com. roller cam spring	1912-15	1/8" pipe threads	1	.10	
3176	Commutator oiler	1912-15	No. 4 Felt washer	1	.03	
3177	Commutator felt ring	1909-15	3/8" dia.	1	.01	
3106	Commutator brush cap	1909-15	1/8 x 1 1/2"	1	.01	
3207	Com. brush cap pipe	1909-15	1/8" dia.	1	.01	
3210	Com. contact point nut	1910-15	1/8" hex.	4	.02	



Special Discount Applies to Prices on This Page

ACCESSORIES FOR FORD CARS



PARTS FOR FORD CARS—Concluded

Part No.	Name of Part	Year	Specifications	No. Per Car	List Price	See Page	Part No.	Name of Part	Year	Specifications	No. Per Car	List Price	See Page
SERRINGS—Continued							WIRING						
3806	Sixth leaf	1909-15		1	\$0.40		4350	Spark plug wire	1909-15	15" No. 1 cyl.	1	\$0.15	325
3807	Seventh leaf	1909-15		1	.25		4351	Spark plug wire (also magnet to coil)	1909-15	11½" No. 2 cyl.	1	.15	325
3808	Front spring clip	1909-15		2	.20		4353	Spark plug wire	1909-15	8" Nos. 3 & 4 cyl.	1	.10	325
3809	Front spring clip nuts	1909-15	½"x20 threads	4	.03		4354	Spark plug wire terminal	1909-15		8	.01	
3811	Front spring tie bolt and nut	1909-15	¾"x2½"	1	.05		4355	Commutator wire assembled in cam	1909-15		1	.60	325
3813	Front spring hanger	1909-15		4	.35		KINGSTON CARBURETOR						
3815	Front and rear spring hanger nut	1909-15	¾" S.A.E. castle nut	8	.02		6100	Carburetor complete	1909-15		1	6.00	333
3817	Front and rear spring hanger odor	1909-15		8	.05		6115	Spring needle assembly	1913-15		1	.40	
3820	Front spring perch bushing	1909-15	1¼"x1½"	4	.05		HOLLY CARBURETOR, 1913-14						
3821	Front spring perch nut	1909-15	½"x18 threads	2	.05		4452	Spray needle assembly	1913		1	.60	
3822	Front spring leather	1909-15	56" tread	1	11.00		HOLLY CARBURETOR, 1912						
3825	First leaf, eye or main leaf	1909-15		1	2.00		4559	Spray Needle	1912		1	.60	
3826	Second leaf	1909-15		1	1.70		CARBURETOR ATTACHMENTS						
3827	Third leaf	1909-15		1	1.50		4126	Carburetor adjusting rod head	1909-15		1	.10	
3828	Fourth leaf	1909-15		1	1.40		4130	Carburetor flange bolt and nut	1909-15		1	.05	
3829	Fifth leaf	1909-15		1	1.30		4134	Carburetor flange gasket	1909-15		1	.03	
3830	Sixth leaf	1909-15		1	1.20		HEINZE COIL						
3831	Seventh leaf	1909-15		1	1.00		4616	Vibrator with flat points	1910-13		1	.75	108
3832	Eighth leaf	1909-15		1	.80		4618	Vibrator bridge with flat points	1910-13		1	.75	108
3833	Rear spring clip	1909-15	4¼"x18 threads	2	.20	347	4638	Switch assembly	1910-13		1	.50	
3834	Rear spring clip bar	1909-15	½"x18 threads	4	.05		4639	Switch plug	1910-13		1	.15	108
3835	Rear spring tie bolt and nut	1909-15	¾"x13½"x4x8"	2	.05		K. W. COIL						
3840	Rear spring hanger	1909-15	¾"x2½"	1	.05		4678	Switch assembly	1913		1	1.50	
3844	Rear spring perch bushing	1909-15	¾" S.A.E. castle nut	4	.35		4679	Switch plug	1913		1	.15	105
3845	Rear spring perch nut	1909-15	¾" bore x ¾"x2"	2	.10		4682	Vibrator spring with tungsten point lower	1913		1	.30	
3847	Front spring retainer clip with bolt and nut	1909-15	1¼" S.A.E. castle nut	2	.05		4683	Vibrator spring with tungsten point, upper	1913		1	.35	
3848	Rear spring retainer clip with bolt and nut	1909-15		2	.05		KINGSTON COIL						
3849	Rear spring, 60" tread	1909-15	60" tread	1	12.00		4705	Switch assembly	1911-13		1	1.00	80
3850	Rear spring tie bolt and nut, 60" tread	1909-15	¾"x3½"	1	.05		4716	Vibrator spring with tungsten point	1912-13		4	.50	104
STARTING CHANK							4717	Vibrator bezel with tungsten point	1912-13		4	.50	104
3905	Starting crank ratchet pin	1909-15	13/8"	1	.02		4718	Switch key	1911-13		1	.15	104
3908	Starting crank spring	1909-15		1	.03		FORD SPARK COIL						
RADIATOR							4733	K. W. vibrator with tungsten point	1914-15		4	.30	105
3926	Radiator cap	1909-15		1	.30	354	4734	K. W. vibrator bridge with tungsten point	1914-15		4	.35	105
3929	Radiator stud and nut	1909-15	3/8"x2 1/8"	2	.05		4736A	Heinze vibrator with tungsten point	1914		4	.50	103
3931	Radiator stud washer nut	1909-15	3/8"x24 threads	2	.02		4737A	Heinze vibrator bezel with tungsten point	1914		4	.50	103
3934	Radiator rods nut	1909-15	3/8"x24 threads	1	.02		4739	Kingston vibrator spring with tungsten point	1914		4	.50	104
3940	Outlet connection cock	1909-15	1/8" pet cock	1	.15	217	4740	Kingston vibrator bridge with tungsten point	1914		4	.50	104
3944	Outlet connection hose	1909-15	13/4"	1	.10	356							
3945	Outlet connection hose clip	1909-15		1	.15	356							
RADIATOR FAN													
3960	Fan and pulley assembly	1909-15	Cars above 2500	1	1.00								
3963	Fan drive pulley	1909-15	Steel, lower	1	.20								
3964	Fan belt	1909-15	Leather, No. 1	1	.30	357							
3966	Fan shaft	1909-15	1 1/2"x4 1/8"	1	.25								
3967	Fan bracket	1909-15		1	.30								
3968	Fan bracket bolt	1909-15	3/8"x2 5/8"	1	.10								
3970	Fan grease cap	1909-15		1	.10	353							
3973	Fan adjusting screw and nut	1909-15	3/8"x1 1/4"	1	.05								
MUFFLER													
4025	Muffler assembly			1	1.25								
4031	Muffler rod nut	1909-15	¾"x24 thds. S.A.E.	1	.02								
4034	Muffler bracket bolt and nut	1909-15		4	.05								
HOOD													
4058	Hood board bolt and nut	1909-12	1 1/4"x1 1/8"	4	.05								

All Prices in the Entire Catalog Subject to Change Without Notice



USEFUL INFORMATION

From *The Horseless Age*, February 1, 1916.

3,114,000 Cars in the World

The United States Has Three Times as Many Automobiles as the Rest of the World Combined, with 2,400,000 Vehicles. Great Britain, France and Germany Next in Rank

According to statistics just compiled by *The Horseless Age*, there are approximately 3,114,000 automobiles in use throughout the globe. The latest registration figures indicate that there are 2,400,000 automobiles in the United States alone. Approximately 77 per cent. of the world's automobiles are being operated over the roads of this country.

An idea of the position the United States occupies in the motoring field may be gained when it is known that the 714,000 cars in service in other sections of the world represent less than the total of cars registered in the states of New York, Ohio, California and Iowa.

Many of the countries recorded in the accompanying table do not officially enumerate the motor vehicles within their borders, the figures shown having been obtained from reports from consular officers and United States Government exports statistics. The United States, of course, ranks first, having more than three times as many cars as all the other countries combined. Great Britain comes second with its 276,690 cars, which represents about one vehicle to every nine in this country. France and Germany, with their network of good roads and years of advance over the United States in the general manufacture of motor vehicles, occupy third and fourth places, respectively, with 98,400 and 71,450. It is interesting to note in connection with these four countries that their standing in the automobile manufacturing line is relatively the same as that given above for consumption.

Canada, on the other hand, has never been a quantity manufacturer of automobiles, but has always been the heaviest purchaser of cars made in this country. Within the last few years several American manufacturers have established plants in the Dominion where cars are assembled. Most of these cars, however, have been made for export purposes, the Canadian assembled machines getting a preferential tariff over the United States cars when being shipped to the British colonies.

While Canada ranks fifth in the motor nations with 55,600 cars, Mexico, on our Southern border, is well down in the list with but 4,290 cars. Australia is a country of exclusively imported cars, a large portion coming from America, and contains about 20,350 machines. Of the South American countries, with their total of over 23,200 cars, Argentina holds the leading position with 12,550 cars, with Brazil and Uruguay following with 5,400 and 1,830 cars.

Russia, until three years ago, imported all of its automobiles. Among the concerns that distributed the 15,300 machines in use in Russia are several representatives of American car manufacturers. Austria's manufacturing activities are also modest, a majority of the 12,160 cars carrying Austrian license plates being made outside its borders. Italy, the home of several cars which have gained considerable prestige in this country and the land where the automobile owner pays, or at least did pay before the war, fifty cents a gallon for his gasoline, is ninth in the list of motoring nations with 13,000 cars.

Automobile Census of the World

Afghanistan.....	65	Italy.....	13,000
Algeria.....	5,900	Jamaica.....	548
Arabia.....	50	Japan.....	1,500
Argentina.....	12,550	Liberia.....	400
Australia.....	20,350	Madagascar.....	75
Austria.....	13,160	Mexico.....	4,290
Belgium.....	9,400	Morocco.....	490
Bolivia.....	19	New Zealand.....	10,060
Brazil.....	5,400	Nicaragua.....	18
British N. Borneo.....	5	Norway.....	975
British S. Africa.....	8,340	Panama.....	127
Bulgaria.....	3,059	Paraguay.....	18
Burma.....	800	Peru.....	27
Canada.....	55,600	Philippines.....	350
Ceylon.....	2,150	Porto Rico.....	2,400
Chili.....	768	Portugal.....	2,500
China.....	714	Roumania.....	1,800
Colombia.....	1,131	Russia.....	15,360
Costa Rica.....	145	Salvador.....	37
Cuba.....	2,695	Samos.....	10
Denmark.....	8,525	Santo Domingo.....	45
Dutch East Indies.....	7,413	Serbia.....	129
Ecuador.....	171	Siam.....	750
Egypt.....	873	Spain.....	9,400
France.....	98,400	Straits Settlement.....	2,193
Germany.....	71,455	Sweden.....	6,086
Great Britain.....	276,690	Switzerland.....	5,100
Greece.....	335	Trinidad.....	275
Guatemala.....	210	Tunisia.....	945
Haiti.....	45	Turkey.....	525
Holland.....	3,750	United States.....	2,400,000
Honduras.....	9	Uruguay.....	1,830
Hongkong.....	65	Venezuela.....	275
Hungary.....	6,200	Zanzibar.....	40
Iceland.....	11		
India.....	7,735		

How Registrations by States Have Increased

State	1915 Increase		1915 Increase		
	Registra- tions	Over 1914	Registra- tions	Over 1914	
Alabama.....	13,798	5,373	Montana.....	14,520	3,814
Arizona.....	7,320	2,546	Nevada.....	59,140	9,140
Arkansas.....	8,021	2,379	Nevada.....	2,177	690
California.....	163,801	40,700	New Hampshire.....	10,819	2,081
Colorado.....	26,611	8,660	New Jersey.....	67,556	7,600
Connecticut.....	38,950	12,732	New Mexico.....	4,947	1,857
Delaware.....	4,924	2,030	New York.....	212,844	56,671
District of Columbia.....	10,200	2,200	North Carolina.....	21,160	6,345
Florida.....	13,123	1,757	North Dakota.....	23,678	7,330
Georgia.....	24,059	3,259	Ohio.....	179,767	58,502
Idaho.....	7,093	3,821	Oklahoma.....	25,615	18,255
Illinois.....	182,290	51,150	Oregon.....	23,758	7,411
Indiana.....	96,915	31,415	Pennsylvania.....	150,729	43,588
Iowa.....	139,808	33,721	Rhode Island.....	16,362	4,031
Kansas.....	74,956	24,489	South Carolina.....	14,500	
Kentucky.....	19,500	7,754	South Dakota.....	29,336	9,256
Louisiana.....	10,880	7,580	Tennessee.....	27,266	7,598
Maine.....	10,600	4,300	Texas.....	90,000	25,268
Maryland.....	27,638	7,425	Utah.....	7,994	1,853
Massachusetts.....	89,133	12,301	Vermont.....	11,499	3,886
Michigan.....	114,845	38,456	Virginia.....	21,359	7,372
Minnesota.....	91,829	24,464	Washington.....	36,905	6,652
Mississippi.....	11,500	7,605	West Virginia.....	13,256	6,039
Missouri.....	76,462	25,464	Wisconsin.....	81,371	28,191
			Wyoming.....	3,976	1,548

Registration and Production Statistics for the United States

Year	Registrations	Gain	Production	Gain
1911.....	677,000		209,957	
1912.....	1,010,483	333,483	378,261	168,304
1913.....	1,235,875	243,392	450,000	71,739
1914.....	1,736,790	686,998	515,000	65,000
1915.....	2,423,788	482,915	802,618	377,618



USEFUL INFORMATION

Engineering Data

Water weighs 62.4 pounds per cubic foot and 8.3 pounds per gallon.

There are 7.5 gallons in a cubic foot of water.

Gasoline has a specific gravity of .72, and consequently weighs 5.96 pounds per gallon. This applies to 76° gasoline.

A foot-pound represents the work required to raise a weight of one pound to a height of one foot. There are 33,000 foot-pounds to a horsepower.

A British Thermal Unit represents the amount of heat required to raise the temperature of one pound of water one degree Fahrenheit at or near 39° F. Its symbol is B. T. U.

There are 778 foot-pounds in a B. T. U.

On direct drive, with an efficient transmission and differential, about 88 per cent. of the power furnished by the motor should be delivered at the rear wheels.

Under the best condition about 75 per cent. of the indicated horsepower of the engine should be available for useful work.

To find the area of a circle, multiply the diameter by 7854, and to find the circumference of a circle, multiply the diameter by 3 14-16.

To find the cubic displacement of a motor, multiply the bore or diameter of cylinder by 7854 and multiply the result by the stroke and multiply this result by the number of cylinders, which gives the piston displacement.



USEFUL INFORMATION

Hints on the Care of Storage Batteries

If a few simple rules are followed in the care of Storage Batteries, little or no trouble will be encountered in their use.

The battery should be inspected once a week in summer and once every two weeks in winter to ascertain the level of the electrolyte, which is lowered by evaporation. The electrolyte should cover the plates, and if such is not the case, **pure distilled or rain water** (ordinary hydrant or pump water will not do) must be added to bring the solution up to the proper level.

Addition of Acid

Acid should only be added to replace spilled solution and in the proportion of one part Chemically Pure (not merely commercially pure) sulphuric acid and three parts of pure distilled water at a hydrometer reading of 1300 at 70° Fahrenheit. For every three degrees above 70 the gravity should be one point lower; for every three degrees below 70 the gravity should be one point higher.

ALWAYS ADD THE ACID TO THE WATER
—AND NOT THE WATER TO THE ACID

Testing of Storage Batteries

For this purpose a Battery Hydrometer should be used. Fill the instrument with the liquid and the following reading shows condition of the batteries.

If battery fully charged reads 1250 on hydrometer, then the various readings would indicate battery strength of the percentage shown below:

1250 indicates 100 per cent.	1175 indicates 40 per cent.
1225 indicates 80 per cent.	1150 indicates 20 per cent.
1200 indicates 60 per cent.	1125 exhausted 00 per cent.

If battery is completely discharged, it should be taken off the car and recharged. The most satisfactory apparatus for this purpose is a Motor Generator Set or Rectifier, which is shown in a section of this catalog.

Charging of Storage Batteries

In the charging of storage batteries, if the operator should be puzzled in determining the positive and negative of the charging wire, a simple test is as follows:

Draw three-fourths tumblerful of electrolyte from the battery. Attach a strip of lead to each terminal of the charging wire and place both strips in the solution. The current should be withheld, and in about three minutes the strips of lead examined. The one which is brown is attached to the positive side of the charging source and obviously the other side to the negative.



USEFUL INFORMATION

Hints on Use and Care of Dry Cells

It was predicted that with the advent of magnetos and starting and lighting systems on automobiles, the use of Dry Cells would be diminished, but instead there is a constant increase in their sale, due to the universal use in which they are employed.

They contain the maximum amount of power for the minimum amount of weight, but care must be given them or best results cannot be secured.

Before Solar Dry Cells are shipped from the factory, they are aged and tested for ten days. If any manufacturing errors have been made, such as torn paper lining or broken connections, they will show up in considerably less time, and such cells are discarded, so we therefore know that Solar Cells are right when shipped from the factory.

Storage of Dry Cells

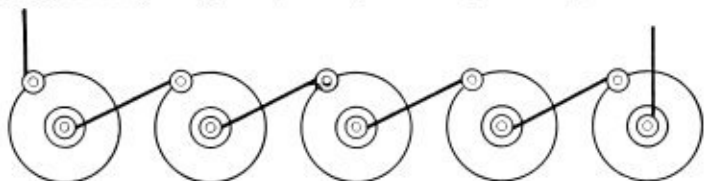
Do not purchase more Dry Cells than you can sell in a period of sixty days. Of course, they will keep much longer than this but while we use the best material and workmanship, a chemical action takes place within the cell that causes it to deteriorate if kept in storage for an indefinite period.

The temperature of the storage is very important. They should be kept in a cool, dry place in an upright position. High temperature will cause dry cells to deteriorate faster than low temperature.

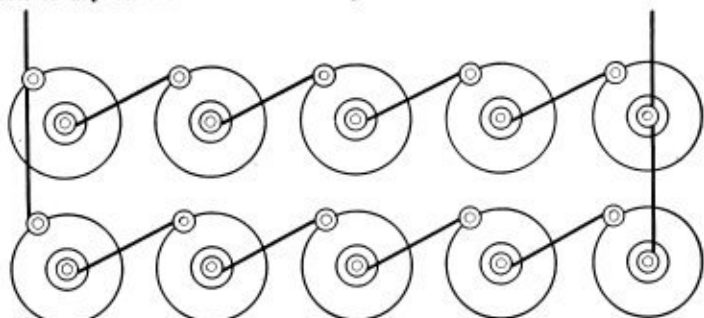
In winter, dry cells exposed to low temperature may show very low current readings. This does not affect the quality of the cell, even though it has been exposed to temperature below freezing point, as after being gradually thawed out they will register up to the original state and will give the same results in service as if they had not been frozen.

Connection of Dry Cells

The general way of connecting Dry Cells is in series, as shown in illustration, that is, by connecting the positive of one cell to the negative of another. Connecting in series increases the voltage in proportion to the number of cells. The voltage of Solar Dry Cells is $1\frac{1}{2}$ volts, therefore five cells connected in series would give a voltage reading of $7\frac{1}{2}$ volts, the ampere reading not being increased.



Where the ampere drain is high and long life is desired, it can be obtained by series multiple connection. However, in using series multiple connections, always use multiples of the original number of batteries connected in series. For instance, if the original equipment required five dry cells connected in series, to connect in multiple series, ten dry cells, fifteen dry cells and so on must be used. We give below an illustration of dry cells connected in multiple series.



In purchasing Dry Cells, see that the ampere reading of each cell does not vary greatly, and never connect new cells with those that have nearly run down, as the amperage of the new cell will be brought down to that of the old cell.



USEFUL INFORMATION

Interchangeable Tire Sizes

Extra or over sizes	Regular
31 x 3½ tires interchangeable with.....	30 x 3
31 x 4 tires interchangeable with.....	30 x 3½
33 x 4 tires interchangeable with.....	32 x 3½
35 x 4 tires interchangeable with.....	34 x 3½
37 x 4 tires interchangeable with.....	36 x 3½
35 x 4½ tires interchangeable with.....	34 x 4
37 x 4½ tires interchangeable with.....	36 x 4
41 x 4½ tires interchangeable with.....	40 x 4
35 x 5 tires interchangeable with.....	34 x 4½
37 x 5 tires interchangeable with.....	36 x 4½
39 x 5 tires interchangeable with.....	38 x 4½
37 x 5½ tires interchangeable with.....	36 x 5
37 x 6 tires interchangeable with.....	36 x 5½
39 x 6 tires interchangeable with.....	38 x 5½
41 x 6 tires interchangeable with.....	40 x 5½

Equivalent Sizes of Tires

Metric Sizes	Approximate Sizes in Inches	Metric Sizes	Approximate Sizes in Inches
700 x 85	28 x 3¼	1010 x 90	40 x 3½
750 x 85	30 x 3¼	815 x 105	32 x 4
800 x 85	32 x 3¼	875 x 105	34 x 4
860 x 85	34 x 3¼	915 x 105	36 x 4
760 x 90	30 x 3½	820 x 120	32 x 4½-5
810 x 90	32 x 3½	850 x 120	33 x 4½-5
840 x 90	33 x 3½	880 x 120	34 x 4½-5
870 x 90	34 x 3½	920 x 120	36 x 4½-5
910 x 90	36 x 3½	1020 x 120	40 x 4½-5
960 x 90	38 x 3½	1080 x 120	42 x 4½-5

Air Pressure for Inflating Pneumatic Tires

Diameter of Tire	Maximum Allowable Weight on Wheel	Air Pressure in Pounds Per Square Inch
2½	225	50
3	350	60
3½	600	70
4	750	80
4½	1,000	90
5	1,000	90

The working pressure in a tire will increase 23 per cent. (approximately one-fourth) under the usual touring conditions of roads and speeds, over the pressures above given.



USEFUL INFORMATION

Comparison of Hexagon Head Cap Screws and Nuts

S. A. E. (FORMERLY A. L. A. M.) AND U. S. S.

Size Inches	S. A. E. Number Threads Per 1 In.	U. S. S. Number Threads Per 1 In.	Cap Screw Head				Nut Measurements			
			S. A. E. Thick. Inches	S. A. E. Across Flats Inches	U. S. S. Thick. Inches	U. S. S. Across Flats Inches	S. A. E. Thick. Inches	S. A. E. Across Flats Inches	U. S. S. Thick. Inches	U. S. S. Across Flats Inches
1/4	28	20	7/16	7/16	1/4	7/16	7/16	7/16	1/4	1/2
5/16	24	18	15/64	1/2	19/64	1/2	17/64	1/2	5/16	3/4
3/8	24	16	3/32	7/16	11/16	7/16	21/64	7/16	3/8	1 1/4
7/16	20	14	21/64	5/8	25/64	5/8	3/8	5/8	7/16	3/2
1/2	20	13	3/8	3/4	7/16	3/4	7/16	3/4	1/2	7/8
5/8	18	12	27/64	7/8	31/64	1 1/16	31/64	7/8	7/16	3/2
3/4	18	11	11/16	1 1/16	11/16	3/8	35/64	1 1/16	5/8	1 7/16
7/8	16	10	7/16	1 1/16	5/8	1	11/16	1 1/16	3/4	1 3/4
1	14	9	11/16	1 1/4	11/16	1 1/8	49/64	1 1/4	7/8	1 7/16
1 1/8	12	8	3/4	1 1/16	1 1/4	1 1/4	7/8	1 7/16	1	1 5/8
1 1/4	12	7	11/16	1 5/8	1 1/2	1 3/8	63/64	1 5/8	1 1/8	1 11/16
1 1/2	12	7	1 1/16	1 11/16	1	1 1/2	1 3/4	1 11/16	1 1/4	2
1 3/8	12	6	1 1/16	2	1 3/16	1 5/8	1 13/64	2	1 3/8	2 1/4
1 1/2	12	6	1 1/4	2 1/16	1 3/4	1 3/4	1 7/16	2 1/16	1 1/2	2 3/8

Gradients in Per Cent. and Degrees

Grade Per Cent.	Equal to Angle of	Feet Rise and Fall in One Mile	Grade Per Cent.	Equal to Angle of	Feet Rise and Fall in One Mile
2.5	1°-26'	132	7.69	4°-24'	406
2.8	1°-38'	151	8.3	4°-46'	440
3.3	1°-55'	155	9	5°-11'	480
4	2°-18'	218	10	5°-43'	528
5	2°-52'	204	11.1	6°-17'	586
5.5	3°-11'	293	12.5	7°-08'	635
5.8	3°-22'	310	14.3	8°-09'	754
6.25	3°-35'	330	16.6	9°-26'	880
6.66	3°-49'	352	20	11°-19'	1056
7.1	4°-05'	337			

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