

*Stewart-Warner*  
DEALER'S CATALOG  
*and*  
SPECIFICATION BOOK

No. 21



Stewart-Warner Products Service Station  
St. Louis, Mo.

Telephone Jefferson 0060-0061

3206 Locust Street

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DEALER'S CATALOG  
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SPECIFICATION BOOK

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 **Price Corrections**

Note: Green price sheet opposite shows universal price on Adaptors as \$3.50. This should read: \$3.75 for Adaptors used with chain link shaft; and \$4.25 for Adaptors used with wire core shaft.

See also page 8, Casings and Cores for Model 490 Speedometers: Prices shown apply only when casings and cores are bought separately. Price of either shaft complete is \$3.50. No. 32281 Casing in combination with 32280 Core makes 32200 complete shaft, which lists at \$3.50. The same applies to 34414 Casing in combination with 34413 Core, making 34300 complete shaft, listing at \$3.50.

Printed in U. S. A.

## The Largest Accessory Manufacturing Plant in the World Stands Behind You, as a Stewart-Warner Dealer



*"The Home of Stewart-Warner Accessories"*

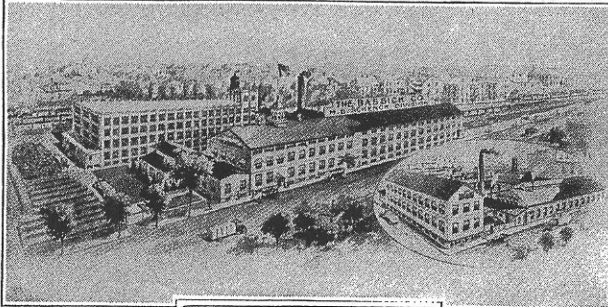
**A**BOVE is the great factory—the largest of its kind in the world—in which the complete line of Stewart-Warner Better Accessories for Automobiles is made. In this factory—which contains more than one million square feet of floor space, and employs over five thousand skilled workers—are found the most modern machinery and most skilled methods of production. This assures quality merchandise at the lowest possible cost. Stewart-Warner were pioneers in the accessory field. By the constant

manufacture of quality merchandise they have become world leaders in the automotive equipment field today.

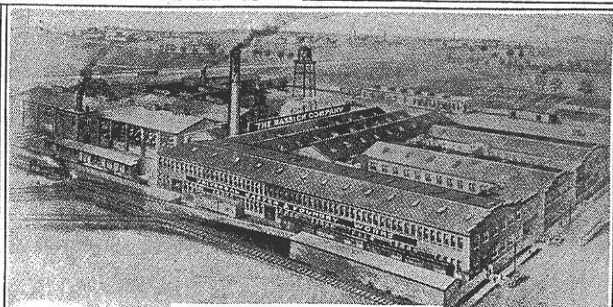
Then, too, Stewart-Warner now controls as subsidiary organizations the Bassick Alemite Co., the Bassick Manufacturing Co., and The Stewart Die Casting Co. Each of these concerns is also a leader in its particular field, so that products for which Stewart-Warner is directly responsible are now used the world over. You, The Stewart-Warner Dealer, are backed by one of the largest organizations in the world.

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## These Big Manufacturing Institutions are All Divisions of the Stewart-Warner Speedometer Corporation



PLANT NO. 2 MERIDEN CONN.



PLANT NO. 3 NEWARK, N. J.

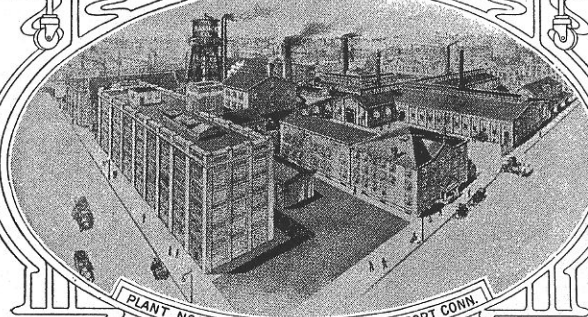
Few people realize the tremendous size of the Stewart-Warner Speedometer Corporation, or the extent to which Stewart-Warner's products are diversified. This Corporation is the largest manufacturer in six different commercial lines in the United States, and, in four different commercial lines, the largest in the world. Its principal activities — die-castings, high-pressure lubricating systems, automobile accessories, radio sets, casters, automobile and furniture hardware—suggest the wide range which its products cover.

Left: The Bassick plant Number 1, located at Bridgeport, Connecticut.

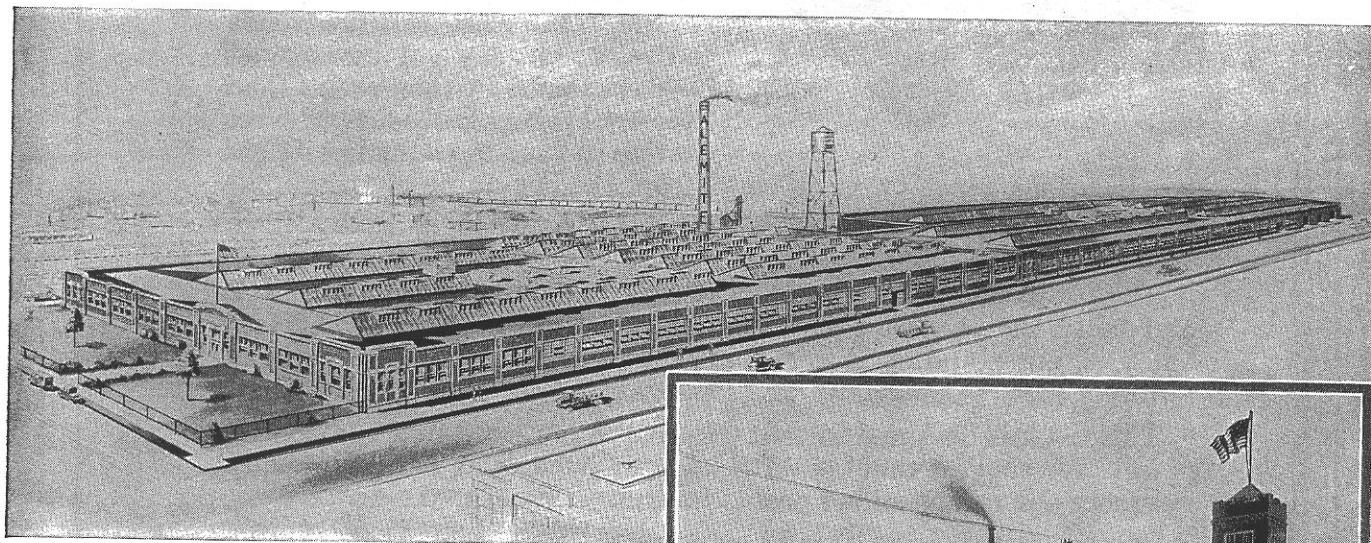
Left Above: The Bassick plant Number 2, located at Meriden, Connecticut.

Direct Above: The Bassick plant Number 3, located at Newark, New Jersey.

These plants are subsidiaries of Stewart-Warner and are manufacturers of casters, and automobile and furniture hardware.

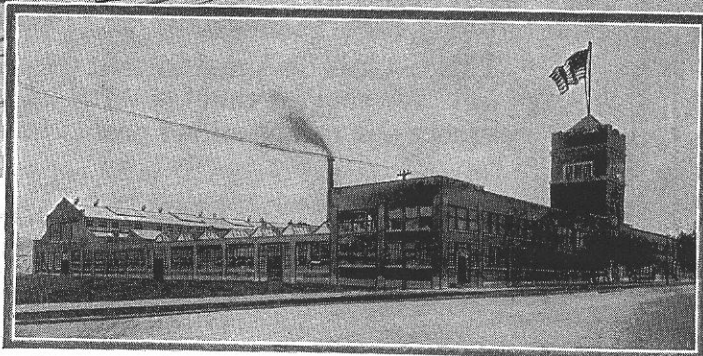


PLANT NO. 1 AND GENERAL OFFICES BRIDGEPORT CONN.



Above: The Bassick Manufacturing Company plant, located in Chicago. Another link in the chain of Stewart-Warner Speedometer Corporation's diversified activities. This is the home of "Alemite" lubricating equipment and fittings.

Right: The Stewart Die Casting Corporation plant of Chicago. The largest individual die casting plant in the world, consuming 20 tons of metal daily, from which 150,000 to 400,000 parts and products are produced. Another of the important divisions of Stewart-Warner.



WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

## This Catalog Offers You Something Distinctly Different

WITH the distribution of thousands of our Speedometer and Vacuum Tank Parts Display Cabinets among our dealers, there has developed a real need for something more than a mere catalog showing our products.

No doubt you have been confronted many times with the need for information as to what this, that or the other car requires in the way of wire-cores, swivel joints, drive or driven gears, cable lengths and other replacement parts. Through lack of a schedule, spanning a range of years and models, you have hesitated in carrying a stock of service parts that you otherwise could, and would, profitably carry in stock.



In presenting this new Catalog and Specification book we want to add one word: There are thousands of the older cars on the roads to-day which may not be covered by data found in this book. The Stewart-Warner Sales and Service Station in your territory has on file

specifications which cover all cars "from the beginning of things"; if you will indicate your needs to them you will be given prompt and intelligent service.

To you, as our point of contact between manufacturing institution and consumer, we express our deep appreciation; for, in the last analysis, our standing in the field of automotives has always been in direct ratio to your faith and loyalty.

This book is designed so that you may hang it up in a convenient place. We suggest that you always keep it close at hand for ready reference—it means added profits for you.

**STEWART-WARNER SPEEDOMETER CORPORATION**  
CHICAGO, ILLINOIS, U. S. A.

# Where to Find It

## A Complete Index to this Catalog

### For Ready Reference

#### SPEEDOMETERS

	Page
For Fords (Model 490).....	6-7
For Fords (Model 160).....	9
For Fords (J-M).....	10
For Trucks.....	13
For Cars Other Than Fords.....	14
For Motorcycles.....	11-12
Tachometers.....	16

#### SPEEDOMETER PARTS

For Fords (Models 490-160).....	8
For Cars Other Than Fords.....	14-15
For Motorcycles.....	11-12

#### BUMPERS

Bumper Models.....	18-19
Fender Guard Models.....	18-19
Bumper Parts.....	20
Display Stand.....	20

#### SHOCK ABSORBERS

Shock Absorber Models.....	17
Parts.....	17

#### HORNS

Vibrator Model.....	21
Display Stand.....	21

#### WINDSHIELD CLEANERS

Electric Models.....	22
Vacuum Models.....	23

#### DRIVING AND ROAD LIGHTS

	Page
Driving Lights.....	24
Road Lights.....	25

#### CAR HEATERS

For All Cars.....	26
-------------------	----

#### STEP PLATES

For All Cars.....	27
-------------------	----

#### VACUUM TANKS

For Cars Other Than Fords.....	28
For Ford and Chevrolet.....	31

#### VACUUM TANK PARTS

For Standard Models.....	29-30
For Ford and Chevrolet.....	31

#### ADAPTORS

Use of and How to Order.....	32
------------------------------	----

#### DIRECTIONS FOR ORDERING

How to Order Parts.....	32
-------------------------	----

#### PARTS SPECIFICATIONS

For Speedometers and Vacuum Tanks.....	33-58
---	-------

#### DISPLAY HELPS

Window and Counter Displays.....	59-62
----------------------------------	-------

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## *Stewart-Warner* Speedometers for Fords

### Spiral Drive Model 490



Its size and nickel bezel, harmonizing nicely with the Ammeter, this Stewart-Warner Speedometer makes an attractive appearance on the instrument board of the Ford car. It mounts through a round hole, cut directly under the dash light.

## Compensated for Accuracy in all Temperatures

THE Stewart-Warner model 490 speedometer for Fords is the most compact speedometer on the market—measuring only 2½ inches in diameter. It is designed and built on the reliable magnetic principle—the same principle as used in the most expensive Stewart-Warner Speedometers.

By means of a patented thermostatic regulator, this speedometer is fully compensated for accurate speed registration in all temperatures. The Stewart-Warner is the only speedometer for Fords that offers this valuable feature. This is a strong sales point,

for without compensation, no speedometer can be accurate throughout wide ranges of temperature.

The rotating speed dial records accurately all speeds up to 60 miles per hour. The season odometer has a mileage capacity of 100,000 miles and repeat. The speed and mileage dials stand out boldly in black against white backgrounds.

Another big selling point in this speedometer is the colored dial lubrication indicator. Every 500 miles a red dial appears in the season odometer, indicating the need for a change of oil in the crank case—an automatic warning signal that makes proper lubrication easy.

## Sales Creating Display Stand

*Furnished Free*



ONE of the first requisites of successful retail selling is PROPER DISPLAY of merchandise. The Stewart-Warner Products Service Station in your territory is prepared to offer you a very attractive proposition as to how you may secure one of the attractive gold polychrome counter display stands for Model 490 Speedometer for Fords.

The stand is cast in relief, with raised letters—the color combination is red, gold, blue, green, black and brown. It is 17 inches high and 17 inches wide—and a hole in the center is provided where the actual speedometer from stock may be placed. Your counter will welcome this attractive salesman, that will not only show the speedometer in a most efficient manner, but will also produce real sales.

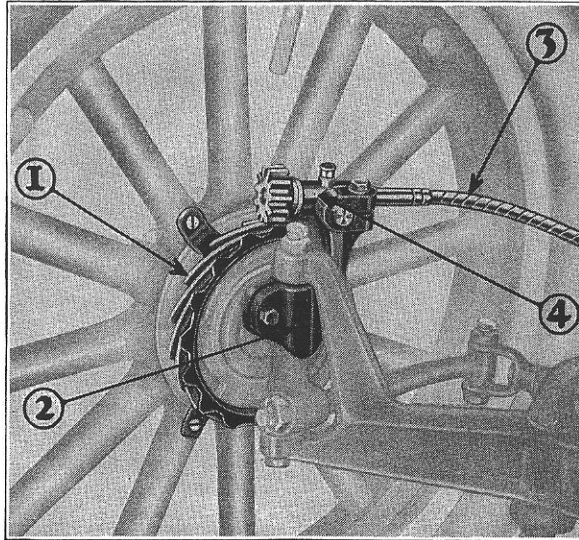
WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## New Spiral Drive Equipment With Many Exclusive Features

*Design of Spiral Road Wheel Gear insures one continuous meshing with Fibre Pinion of drive and driven gears. The swiping action keeps gear free from dirt, mud, snow and ice.*

*Rigid clamp bracket insures positive location of fibre pinion in relation to spiral gear. The mesh is always correct.*



*Drive shaft housing is reinforced with coiled spring. The straight take-off of the shaft prevents any sharp bends or kinks and insures longer life.*

*The Direct Drive Joint is simple and compact. Fitted with snap oiler, same as regularly used on Ford car, for easy lubrication.*

**A**N important feature of the Stewart-Warner Spiral Drive is the smooth and quiet action of the gears. The method of meshing the fibre pinion and road wheel gear results in one continuous gear motion—there is no intermittent meshing of the teeth. The design of the road wheel gear results in a wiping action of the pinion and cleans out of the road gear teeth any mud, snow or ice which might accumulate there.

When the Rigid Joint is assembled at the factory it is packed with grease sufficient to guarantee lubrication for at least 2,000 miles of running. The stand-

ard snap oil cup, with which this Rigid Joint is provided, makes possible easy lubrication from then on. The Rigid Joint is simple and compact in construction.

Another big feature of the Stewart-Warner Spiral Drive is its easy installation. It can be installed in a minimum of time, yet, since the road wheel gear is located by using the center hole in the Ford spindle arm, a positive and accurate installation is assured. The road wheel gear is chamfered to prevent any "chewing" of the gear teeth on the fibre pinion.

### Easily Installed—Single Hole in Dash

The hole into which the speedometer head is inserted is cut out with a special cutting jig designed for this purpose. This jig can be procured from the Stewart-Warner Distributor in your territory.

The nickel bezel sets flush with the instrument panel—and in finish and appearance this speedometer harmonizes attractively with the layout and finish to the Ford instrument board.

### Screw Ferrule Drive Shaft Connection

Correct, positive and permanent engagement of the wire core drive shaft with the speedometer head is insured by this screw ferrule shaft connection. The shaft ferrule screws solidly into the die-cast frame—holding the housing and drive shaft positively in position. The drive shaft take-off is located at the bottom of the head—and at right angles with it. This is a decided advantage—especially when installing on Ford models which have the gasoline tank in the cowl—as the shaft connection is made without interference.

**Model 490-J:** For Fords with steel wheels, wire spokes, 29" x 4.40" tires

**Model 490-H:** For Fords with wood wheels, 29" x 4.40" tires

**Model 490-L:** For Fords with wood wheels, 30" 3½" tires



WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES



## Genuine Replacement Parts for Model 160 Speedometers

34916 Casing (Spiral Drive) \$2.00  
35000 Shaft, complete (Spiral Drive) \$3.50

1911 Casing (Swivel Joint Drive) \$2.00  
1799 Shaft, complete (Swivel Joint Drive) \$3.50

613 Chain Link Core (Swivel Joint Drive) \$1.50

13637 Wire Core (Spiral Drive) \$1.50

617 Sliding Bar 35c

1902 Chain Links 35c per ft.

12273 Upper Clutch 25c

616 Upper Ferrule and Coupling Nut Assembly 25c

14110 Swivel Joint Cap Gears Cap 25c (For Altimeter or Zerk Fitting)

1996 Rubber Fender Washer 15c

4032 Cap Screw 10c

4025 Clamp Block 25c

4003 Clamp Arm 30c

1861 Cotter Pin (Swivel Joint Drive) 10c per doz.

34495 Cotter Pin (Spiral Drive) 60c per C.

2301 Pinion 25c ea.

1913 Swivel Joint \$2.75

11384 Rigid Joint Only \$2.00

32166 (Wood Wheel) 29" tires  
32251 (Wood Wheel) 30" tires  
35010 (Wire Wheel) 29" tires

2153 Clip and Nut Assembly 25c

1516 Swivel Clamp Assembly \$1.50

33382 (Wood Wheel) 25c  
35011 (Wire Wheel) 25c

2126 Angle Bar Screw 75c per doz.

4007 Angle Bar 50c

39052 Template (for Dash) \$3.50

4017 Clip and Nut Assembly 25c

4032 Cap Screw 10c

4025 Clamp Block 25c

4003 Clamp Arm 25c

512 Swivel Joint Clamp \$1.50

4003 Clamp Arm 25c

32270 (Wood Wheel) \$2.25  
35012 (Wire Wheel) \$2.25

Cap Screw #32187-5c

Lock Washer #12363-1c

Main Clamp Bracket 95c

12157 (wood wheel)  
35037 (wire wheel)

Complete Clamp Assem. \$1.35

34999 (wood wheel)  
35037 (wire wheel)

Cap Screw #32187-5c

Lock Washer #12363-1c

Nut #12364 \$2.10 per C

Clamp Half #32158 20c

2126 Cap Screw 75c per doz.

11295 Clamp \$1.25

11296 Stud 75c

11297 Clamp and Stud Assembly Complete \$2.00

4032 Cap Screw 10c

3986 Stud \$1.25

4032 Cap Screw 10c

3988 Swivel Joint Stud Clamp \$1.50

4032 Cap Screw 10c

4025 Clamp Block 25c

4017 Clip and Nut Assembly 25c

4025 Clamp Block 25c

2126 Cap Screw 75c per doz.

11295 Clamp \$1.25

11296 Stud 75c

11297 Clamp and Stud Assembly Complete \$2.00

2126 Cap Screw 75c per doz.

20979 Road Wheel Centering Jig (Swivel Type) 75c

Road Wheel Centering Jig (Spiral Drive Type) \$1.00  
41549 (Wood Wheel) \$1.00  
45758 (Wire Wheel) \$1.00

2126 Cap Screw 75c per doz.

20979 Road Wheel Centering Jig (Swivel Type) 75c

Road Wheel Centering Jig (Spiral Drive Type) \$1.00  
41549 (Wood Wheel) \$1.00  
45758 (Wire Wheel) \$1.00

2126 Cap Screw 75c per doz.

20979 Road Wheel Centering Jig (Swivel Type) 75c

Road Wheel Centering Jig (Spiral Drive Type) \$1.00  
41549 (Wood Wheel) \$1.00  
45758 (Wire Wheel) \$1.00

## Genuine Replacement Parts for Model 490 Speedometers

(1926) - #32281 - Casing and Ferrule - \$1.75

(1926) - #32280 - Wire Core and Clutch - \$1.50

(1927) - #34414 - Casing and Ferrule - \$2.25

(1927) - #34413 - Wire Core and Clutch - \$1.50

Screw #32159 68c per C

Fibre Pinion 33382 (Wood Wheel) 25c  
35011 (Wire Wheel) 25c

Rigid Joint and Pinion Assem. \$2.25

#32270 (Wood Wheel)  
#35012 (Wire Wheel)

Lock Washer #12363-1c

Cap Screw #32170-4c

Main Clamp Bracket 95c  
#32157 (Wood Wheel)  
#35037 (Wire Wheel)

Cap Screw #32187-5c

Lock Washer #12363-1c

Nut #12364 \$2.10 per C

Clamp Half #32158 20c

Spiral Road Wheel Gear \$1.75

#32166 (Wood Wheel) 29" Tire  
#32251 (Wood Wheel) 30" Tire  
#35010 (Wire Wheel) 29" Tire

#42390 Dash Mounting Jig \$1.50

Road Wheel Jig \$1.00  
#45758 (Wire Wheel)  
#41549 (Wood Wheel)

Complete Clamp Assem. \$1.35

#34999 (Wood Wheel)  
#35013 (Wire Wheel)

When ordering, note carefully numbers designating parts for Steel (Wire) Wheels, as compared to Wood Wheels.

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

# *Stewart-Warner* Speedometer for Fords

## Model 160



Furnished with  
Spiral Drive

Colored Dials tell  
when to lubricate

## Compensated for Accuracy in all Weather

**I**N Model 160 Speedometer for Ford cars, Stewart-Warner has designed and perfected an instrument that assures an accurate registration of speed and mileage. This model is easily installed and enhances the appearance of the car upon which it is installed.

The trip dial is a valuable feature for the modern system of road signs—makes it a convenience in country motoring.

### Automatic Lubrication Record

One important feature of this speedometer is the fact that it adjusts itself automatically to all temperatures. This is accomplished by means of a thermostatic control—known as a compensator. It makes no difference whether it is a warm summer day or a bitter cold day, the compensator-equipped Stewart-Warner Speedometer for Fords furnishes you an accurate record of speed and mileage. This thermostatic control is an exclusive Stewart-Warner feature.

In the Stewart-Warner Speedometer for Ford cars is arranged a system of colored dials which indicates an automatic greasing and oiling record for the car driver. One of these dials appears in the season mileage odometer at regular intervals and serves as a warning to the driver that he must lubricate the car. This makes it easy to lubricate the car regularly—and regular lubrication means longer life, smoother running, less operating expense and higher trade-in value after years of service. In addition, the Stewart-Warner Speedometer for Ford cars registers speed and records mileage with absolute accuracy.

### Direct Spiral Drive

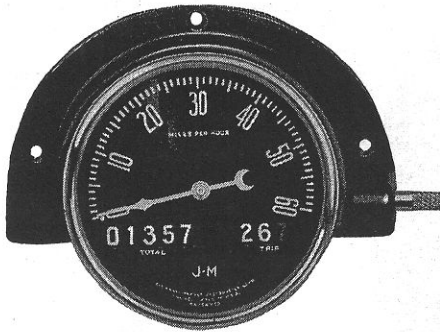
As a final assurance that you will receive exceptional results from Model 160 Speedometer for Fords, our engineers have designed it with a direct spiral drive. This type drive involves a minimum number of parts to cause trouble or necessitate repair. The design of the spiral road-wheel gear makes it practically impossible for dirt and other refuse to clog up the drive.

- Model 160-BE**—Stewart-Warner Speedometer for Fords, with wood wheels (29" x 4.40" tires).
- Model 160-BF**—Stewart-Warner Speedometer for Fords, with wood wheels (30" x 3½" tires).
- Model 160-BH**—Stewart-Warner Speedometer for Fords, with steel (wire) wheels (29" x 4.40" tires).

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

# J-M Speedometer for Ford Cars

## Model 294



Model 294

Model 294—Stewart-Warner (J-M) Speedometer for Ford Cars, complete with driving equipment.

**S**PEEDOMETERS actuated by centrifugal force have been manufactured and used for the past twenty years. The Stewart-Warner perfected design has been proven, in actual service, to be accurate, strong and reliable under all conditions.

The Stewart-Warner (J-M) Speedometer for Ford cars embodies every scientific improvement of the centrifugal principle, insuring strength in construction and absolute, unfailing accuracy in speed and mileage recording mechanism. It is so constructed that altitude, atmospheric and electrical influences cannot affect its accuracy or disturb its instantaneous recording functions.

The Stewart-Warner (J-M) Speedometer for Fords has mileage odometers counting up to 100,000 miles for the total mileage and 100 miles for the trip and repeats. The speed scale is of 60-mile an hour capacity. The large white odometer and speed scale figures stand out in bold relief against a black background, permitting them to be easily read. The trip reset device provides a rapid re-adjustment to zero.

## Replacement Parts for J-M Speedometers For Ford, Dodge and Star Cars

G-23200—Standard Casing \$2.00

G-23300—Wire Core, Cross-pin Governor Head, Swivel Joint \$1.50

G-24600—Wire Core, Standard Head, Straight Drive Joint \$1.50

G-23500—Wire Core, Cross-pin Governor Head, Straight Drive Joint \$1.50

G-24900—Wire Core, Standard Head, Swivel Joint \$3.00

24899—64-Tooth Ford Drive Gear \$2.00

24410 Joint \$2.75

G-22528 Pinion 25c

G-4007 Bar 60c

G-24999 Ford Joint Bracket Pinion Assem. \$4.00

23986 Pinion Lock Washer 1c

23990 Pinion Drive Washer 5c

23987 Pinion Lock Nut 10c

13298 Screw 5c

4032 Screw 10c

Dodge Core See List Dodge Casing See List

4025 Block 25c

4003 Arm 25c

Dodge Cores \$1.00 Casing \$1.50

3986 Stud Only \$1.25

4017 Axle Clip 25c

G-3988 Ford Stud Clamp Assem. \$1.50

Touring Core Casing 23400—18 3/4" —22600 24100—18 3/4" —22600 Coupe 24200—17 3/8" —22700 Sedan 24300—21" —22900 24400—20" —2300 24500—19 1/4" —23100

G-24898 Drive Gear Star Car \$3.00

24106 Swivel Joint

G-23991—Straight Drive Joint Ford \$2.00

23984—Felt Washer 10c

23980 Pinion Straight Drive Joint 35c

23979 Nut 10c

2579 Cotter Pin 40c per C

1-1 Ratio \$3.00

24107—Swivel Joint 2 1/2-1 Ratio \$4.00

24435 Drive Joint Star Car \$4.00

22532—Pinion Star Car 50c

23986 Pinion Lock Washer 1c

23990 Pinion Drive Washer 5c

23987 Pinion Lock Nut 10c

G-24749 Bracket Star Car \$2.00

23412 Drive Gear Bolt 5c

23412 Drive Gear Bolt 5c

4067—Nut \$2.10 per C

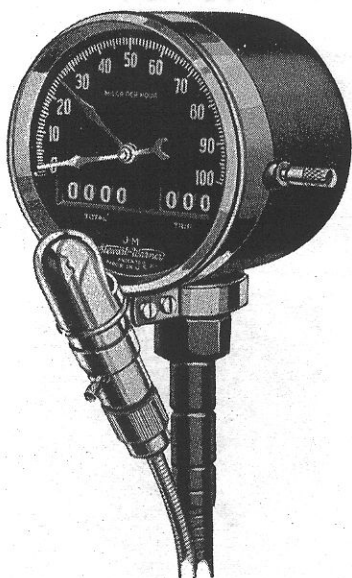
4464—Lock Washer 1c

Order Parts by Number

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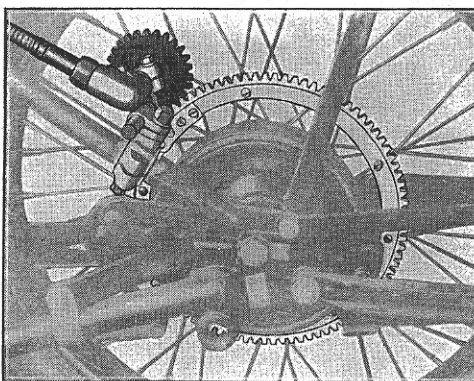
# J-M Motorcycle Speedometer

## *With Maximum Hand*



**Model 298 Stewart-Warner (J-M) Maximum Hand Motorcycle Speedometer.** Furnished with 100-mile speed dial and complete fittings. When ordering, specify make, model and year of motorcycle—also type of dial and pointer (plain or luminous) and whether special lamp and bracket are desired.

THE Stewart-Warner J-M Maximum Hand Speedometer is constructed to withstand the excessive strain and vibration which characterizes motorcycle installation. The instrument is of the centrifugal type, with the speed indicated by a pointer hand which is constructed so that it is free from any oscillation and steady at all speeds. The special maximum hand feature indicates how fast you have traveled, as well as how fast you are traveling. This speedometer has been specially designed with mounting brackets to place it in the most convenient line of vision, and free from any interference from the handle bars. The electric light makes it possible to know the speed at night.



### *Easily Installed*

The services of an expert mechanic are not required to install this speedometer. Installation can easily be made in thirty minutes. The illustration at the left gives an idea of the simple means of attaching the drive gears to the rear wheel and frame.

22500—Casing \$2.00 (Specify Make and Model Machine)

24900—Wire Core \$1.50 (Specify Make and Model Machine)

24172—Drive Joint \$3.25 each

22538 Pinion 75c

22538—Pinion 75c (Specify Make and Model Machine)

23896—Pinion 1c ea.

23990 5c ea.

23987 10c ea.

Lock Washer

Drive Washer

Pinion Lock Nut

G-22780—Drive Gear \$3.00 each

(8) 13726—Screws 8c each

(8) 22781—Clips 2c per C

G-23962—Bracket \$3.00 Henderson Police Special

G-22502—Clamp \$1.50 Harley-Davidson Big Twin

G-32448—\$1.50 Harley-Davidson Single

G-33224—Bracket Super X \$1.50

G-33225—Clamp Super X \$2.50

G-32873—Bracket \$1.50 Indian and Henderson

22501 Bracket—Harley-Davidson 75c

24619 Clamp \$2.50 Indian

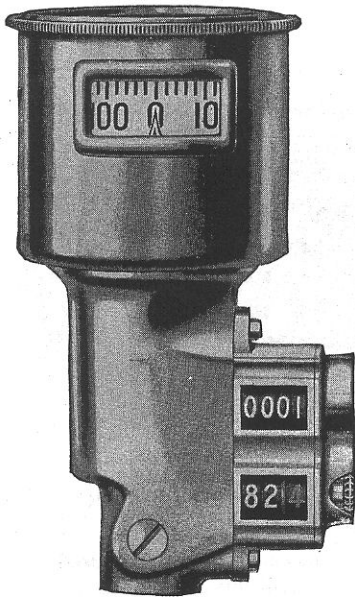
24621 Henderson \$2.50

23801—Strap 10c

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

# *Stewart-Warner* Motorcycle Speedometer

## Police Special—Model 82



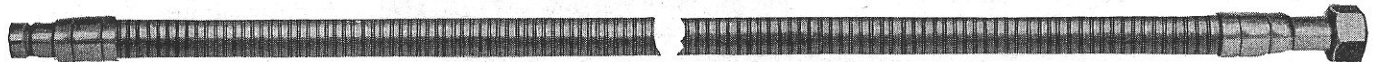
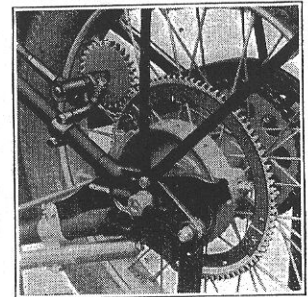
THE mechanism of this model is what is known as the "Warner Master Head," and is identical to the master instruments used in calibrating for accuracy all other Stewart-Warner Speedometers. The Police Special has a speed capacity of 100 miles per hour. Season register of 10,000 miles, with a trip register of 100 and tenths of a mile. Mounting is adjustable and may be set at any desired angle. The instrument sets low on the machine, avoiding any interference with the handle bars. Both the speedometer head and the drive shaft housing are finished in highly polished nickel.

Model 82-A—Police Special Speedometer, furnished complete with driving equipment.

Model 82-B—Same as above, except fitted with special electric light attachment.

When ordering Speedometers or Parts, specify make, model and year of motorcycle.

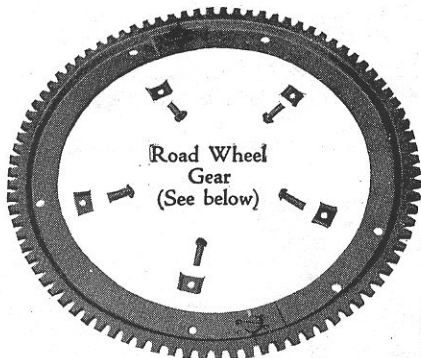
THE installation in all cases is simple, sturdy and easily made. The fibre pinion gear is mounted on a swivel bracket which attaches to the motorcycle frame, permitting perfect alignment of the drive gear and the pinion. The road wheel gear is split so that it is not necessary to remove the wheel to put the gear on.



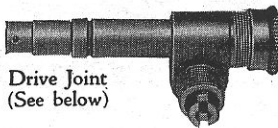
Casing—30707 (Nickel), \$5.00



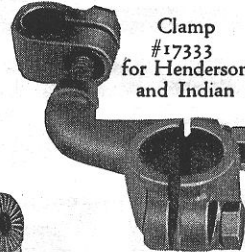
30700—Casing and Flexible Core, Complete \$9.00



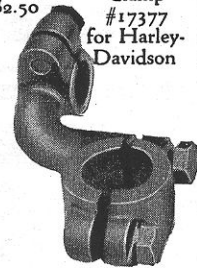
5 screws shown above #12608 per doz. 10c  
5 clips shown above #5134—5c



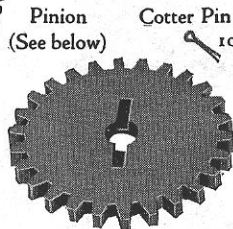
Drive Joint  
(See below)



Clamp  
#17333  
for Henderson  
and Indian } \$2.50

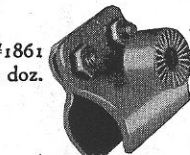


Clamp  
#17377  
for Harley-  
Davidson } \$2.00

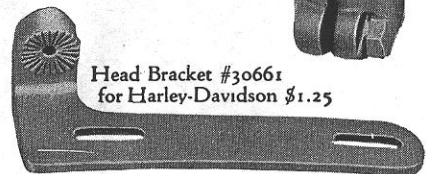


Pinion  
(See below)

Cotter Pin #1861  
10c doz.



Head Bracket  
#30662  
for Henderson  
and Indian } \$1.20



Head Bracket #30661  
for Harley-Davidson \$1.25

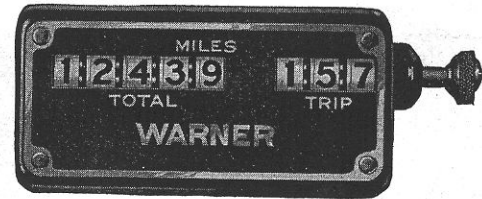
Part No.	Description	Price
12316	Drive Joint, Direct (Long, Nickel)	\$3.00
17680	Drive Joint, Direct (Long, Black)	2.75
8768	Drive Joint, Reverse (Long, Nickel)	3.00
17376	Drive Joint, Reverse (Short, Black, for Harley-Davidson)	2.75
2323	Pinion, 20 teeth	.25
2324	Pinion, 21 teeth; No. 3273, 22 teeth; No. 3277, 23 teeth; No. 2305, 24 teeth; No. 3283, 25 teeth; No. 3392, 26 teeth; No. 3290, 27 teeth; No. 2353, 28 teeth	.50

Part No.	Description	Price
11119	Road Wheel Gear, 77 teeth 8 p.	\$1.75
11303	Road Wheel Gear, 88 teeth 8 p.	2.00
<b>Repair Parts for 30700—Flexible Core</b>		
8788	Upper Clutch	each \$0.35
8151	Upper Clutch Rivet	per 100 .40
297	Flat Link	per doz. .30
298	Link Rivet	per 100 .40
8141	Round Link	per 100 3.30
617	Lower Clutch	each .35

## *Stewart-Warner* Truck Equipment



Model 131-Y  
Truck Speedometer



Model 76-A  
Warner Truck Odometer

**T**HIS model has a 100,000-mile total odometer and 100-mile trip odometer which resets to any tenth of a mile. Dial face three inches in diameter. Odometer openings beveled. Pressed metal case. Furnished with adjustable brackets for open dash mounting. Finished in black enamel, with nicked bezel. Complete with fittings and driving equipment for any truck. Specify make, model, year and tire size of truck when ordering.

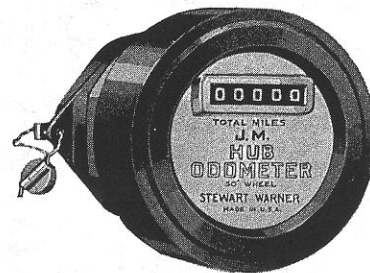
Model 131-Y, complete with driving equipment.

**W**ITH the Warner Odometer the truck owner can keep expenditures down to a minimum. He knows exactly the miles obtained on a gallon of gas, quart of oil or set of tires. The Warner Odometer is compact and well made. Has 100,000-mile total odometer and 100-mile trip odometer which registers tenths of a mile. Heavy aluminum case finished in black enamel. Specify make, model, year, tire size and rear axle ratio of truck when ordering.

Model 76-A, complete with driving equipment.



Model 74-A  
Truck Speedometer



J-M Hub Odometer

**T**HE Warner is sealed to prevent tampering with the mileage odometers. This special feature enables the truck owner to **know absolutely** how far trucks have been driven.

This speedometer is open-faced with large, easily-read figures. Outside case of heavy aluminum, black enameled. Tilts upward so as to be easily read. Beveled odometer openings. Trip odometer can be easily reset to any tenth of a mile.

Models for any truck. Specify make, model, year and tire size of truck when ordering.

Model 74-A, complete with driving equipment.

**T**HE J-M Hub Odometer records the exact mileage of the vehicle to which it is attached. It records every revolution of the wheel—forward or backward.

This odometer movement is made of brass with all wearing parts of steel. It is protected by a hub cap, substantially made of iron or brass.

Easily installed. Simply drill a small hole in the end of the axle, insert a pin to engage the driving arm of the odometer and then screw or bolt on the hub cap.

Models for all makes and models for trucks or pleasure cars.

Model 22284, J-M Hub Odometer for Fords (wood wheels only) is shown above. When ordering this or any other model, be sure to specify make, model and tire size of car.

# *Stewart-Warner* SPEEDOMETERS

*For Cars Other Than Fords*



Model 131

THE Stewart-Warner Model 131, for all cars except Fords, embodies the best features of high grade speedometer construction. It operates on the famous Stewart-Warner magnetic principle, which insures instantaneous and accurate registration of speed at all temperatures. Speed dial bearings are fully jeweled. One of the most popular models on the market today, this instrument has been used for a number of years as standard equipment on leading motor cars. Specify make, model, year, axle ratio and tire size of car, when ordering.

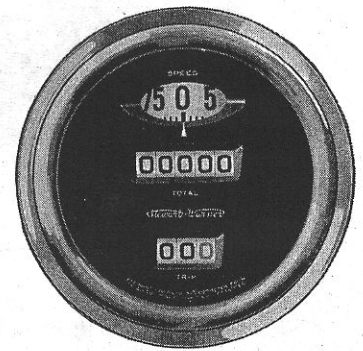
Model 131. Complete with driving equipment.



Model 79

THE Warner Precision model is one of the finest and most accurate speedometers ever produced. It embodies all the proven principles of Stewart, Warner and Van Sicklen instruments. From the first turn of the wheels, this speedometer registers speed with precise accuracy, regardless of weather conditions. Sapphire jewels, same as used in the finest watches, support the speed cup pivots. The precise, high-grade, sturdy construction of this instrument adapts it admirably for use on large highway busses and trucks.

Model 79. Complete with driving equipment.



Model 280

THE most desirable features developed during many years of speedometer building are embodied in the Stewart-Warner Model 280. This model is of the well-known magnetic type, long recognized as the leading principle of speedometer construction. Fully compensated by means of a thermostatic control, this instrument gives accurate speed registration through all variations in temperature. When assembled, it is thoroughly lubricated. The construction is simple, sturdy, and fool-proof.

Model 280. Complete with driving equipment.

## Genuine Parts for Stewart-Warner Speedometers Other than Ford See also Page 15

Spiral drive gear \$2.50

Driven Gear \$1.75

11012 or 11560 bushing 10c.

20312 or 11092—Driven shaft sleeve 50c.

20371—Van Sicklen angle joint \$3.00

1836—Angle sleeve \$2.50

Warner bearing \$7.00.

Stewart-Warner swivel joint \$2.75.

24106—J. M. joint \$3.00.

6056—Angle sleeve \$3.00.

617—Sliding bar 35c.

Van Sicklen pinion (obsolete). Use standard Stewart pinion and slot to fit.

22532—J. M. pinion 50c.

Warner pinion (obsolete). Use standard "Stewart".

Stewart pinion standard sizes 25c.

12273—Upper clutch 25c.

1880—Upper clutch 25c.

These two are interchangeable.

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

# Stewart-Warner, Van Sicklen and Johns-Manville Casings and Cores

This is Lower End This is Upper End

*Showing Casings Only (by number)*

8116—Warner Casing with Warner ferrule at both ends \$6.00

4683—Stewart upper—Warner lower casing \$2.00

1911—Stewart casing \$2.00.

22001—Van Sicklen both ends casing \$2.00.

23200—J. M. casing \$2.00

13638—Stewart upper, Van Sicklen lower \$2.00.

This is Lower End This is Upper End

*Showing Wire Cores, Link Drive, etc. (by number)*

14486—Stewart-Warner complete \$1.50.

18703—Stewart-Warner upper—A. C. lower \$1.50.

13637—core \$1.50      Combination Stewart upper and Van Sicklen lower

15281—Combination Stewart upper and Warner lower \$1.50.

22002—Van Sicklen upper and lower \$1.50.

24900—J. M. \$1.50.

15371—Warner complete \$3.50.

32164—Combination Stewart upper and Waltham lower \$1.50.

2488—Warner link shaft 65c per foot without end clutches

613—Stewart link shaft 35c per foot without end clutches

## Notice

The above graphic charts are for the dealer's convenience, when ordering replacement parts—separate cores or casings.

When ordering Shafts, *complete*, for any car, refer to the specification tables on pages 33 to 56, inclusive, where you will find a complete listing of all cars and models, opposite which are shown the proper Shaft number, length, etc.

## Price Chart for Shafts (Complete), Casings and Cores

TYPE	Complete Up to 72 Inches	Casing Up to 72 Inches	Core Up to 72 Inches
Stewart.....	\$3.50	\$2.00	\$1.50
Extra per ft. (or fraction thereof) over 72"	.60	.35	.25
Van Sicklen.....	3.50	2.00	1.50
Extra per ft. (or fraction thereof) over 72"	.60	.35	.25
Johns-Manville.....	3.50	2.00	1.50
Extra per ft. (or fraction thereof) over 72"	.60	.35	.25
Warner.....	9.00	6.00	3.00
Extra per ft. (or fraction thereof) over 72"	1.30	.65	.65

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES



## *Stewart-Warner* Tachometers



STEWART-WARNER Tachometers are instruments for recording the revolutions per minute of any motor or revolving part. Every motor has a speed at which it performs most efficiently and also a speed above which it is dangerous to run.

It is important that the operators of motor boats, automobile trucks, aeroplanes, etc., know the exact speed at which their motors are revolving. Upon this knowledge depends the efficiency of the motor and the safety of the driver. This is a magnetic type tachometer.

There is an unlimited field for the sale of Stewart-Warner Tachometers—they are a necessity wherever the rate at which any motor or part is revolving is desired.

The Stewart-Warner Tachometer is very sturdily constructed.

There are two models—one for a bracket mounting and one for a flush mounting.

### Specification Tables

#### Drive Gear Fastened to Propeller Shaft—Use Drive Gear No. 12400. (50 Teeth, 8 Pitch)

Model Tachometer	R. P. M.	Swivel Joint Number	Pinion Number
159-A, Bracket type — 159-G, Flush type	1000	1913 (2½ to 1 reduction)	2323 (20 teeth)
159-B, Bracket type — 159-H, Flush type	2000	1960 (4 to 1 reduction)	3283 (25 teeth)
159-C, Bracket type — 159-J, Flush type	3000	1962 (6 to 1 reduction)	3283 (25 teeth)

#### Drive Gear Fastened to Magneto—Four-Cylinder Motors Only. Use Drive Gear No. 12600. (30 Teeth, 8 Pitch)

Model Tachometer	R. P. M.	Swivel Joint Number	Pinion Number
159-A, Bracket type — 159-G, Flush type	1000	1966 (1 to 1 reduction)	3299 (30 teeth)
159-B, Bracket type — 159-H, Flush type	2000	1913 (2½ to 1 reduction)	2305 (24 teeth)
159-C, Bracket type — 159-J, Flush type	3000	1962 (6 to 1 reduction)	2345 (15 teeth)

#### Drive Gear Fastened to Magneto Shaft—Six-Cylinder Motors Only. Use Drive Gear No. 12600. (30 Teeth, 8 Pitch)

Model Tachometer	R. P. M.	Swivel Joint Number	Pinion Number
159-A, Bracket type — 159-G, Flush type	1000	1913 (2½ to 1 reduction)	2312 (18 teeth)
159-B, Bracket type — 159-H, Flush type	2000	1962 (6 to 1 reduction)	2345 (15 teeth)
159-C, Bracket type — 159-J, Flush type	3000	1961 (4 to 1 reduction)	3374 (34 teeth)

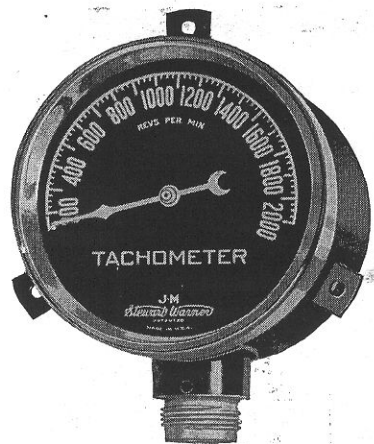
## J-M Tachometers

THE J-M Tachometer is extensively used on engines, motor boats, aeroplanes, motor cars and locomotives, and may be used wherever a reliable instrument is required to indicate the revolutions per minute of any revolving part. It is particularly useful on twin-screw vessels, to enable the same speed to be maintained on both engines.

The use of tachometers on aeroplanes enables the aviator to maintain correct engine speed under various flying conditions. For aeroplanes using twin propellers, actuated by two engines, the use of these tachometers enables the aviators to maintain the same speed on both engines.

All orders should specify the range of revolutions per minute to be indicated by the instrument and the diameter of the shaft to which the split drive gear is to be attached or from which the instrument will be driven.

The instrument can be supplied in a well baked enamel black finish, with fittings to match. This is a centrifugal type tachometer.



THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

# Stewart-Warner Shock Absorbers

Model 210

Fits All Cars



Rugged Construction

"Velvety Action"

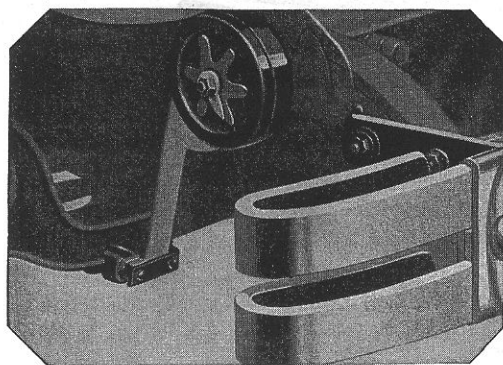
STEWART-WARNER Shock Absorbers are very simple in design and construction. There are but two moving parts; a flanged, steel drum, around which the strap is wound; and a coiled steel re-bound spring. The coiled spring is mounted inside the steel drum.

There is nothing to get out of order or require attention. No valves, no joints, no packing to rattle, squeal or groan. Stewart-Warner Shock Absorbers are self-lubricating.

Two especially treated friction discs supply the frictional resistance to the re-bound of the car. This eliminates all friction on the strap and allows it to wear longer.

If the car driver wishes it, the Shock Absorber may be easily adjusted by means of a little red wrench furnished free with every set of Stewart-Warner Shock Absorbers.

*When ordering, specify front or rear. Rear head sets have longer straps*

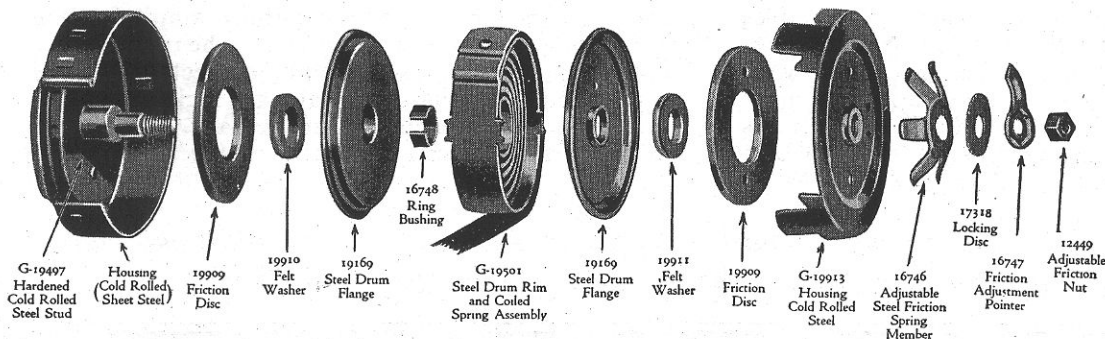
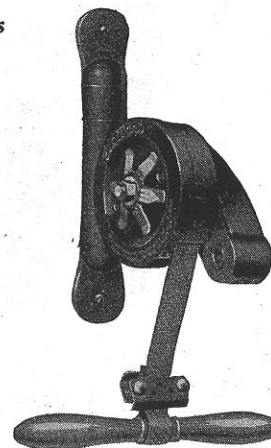


### Easily Installed For All Cars

Seventy-five per cent of the present-day cars have their frames already drilled for Stewart-Warner Shock Absorbers. This insures easy installations that are sturdy and trouble-proof. A typical front installation is shown at the left.

### Display Stand

Pictured at the right is a very attractive and unique display stand, which is available through your Stewart-Warner distributor. It includes a neat casting for mounting on the wall or a show room pillar. The shock absorber strap is attached to a walnut finished handle, and invites every customer to "try it."

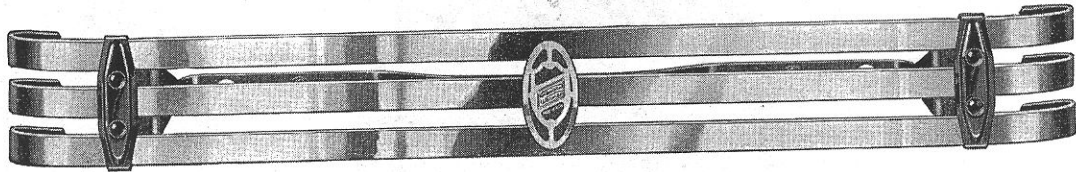


### PARTS PRICE LIST

G-19497	.....	\$3.25
19909	.....	.50
19910	.....	.05
19169	.....	.40
16748	.....	.10
G-19501	.....	3.75
19911	.....	.05
G-19913	.....	1.25
16746	.....	.25
17318	.....	.05
16747	.....	.05
12449	.....	.03

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

## *Stewart-Warner* Bumpers

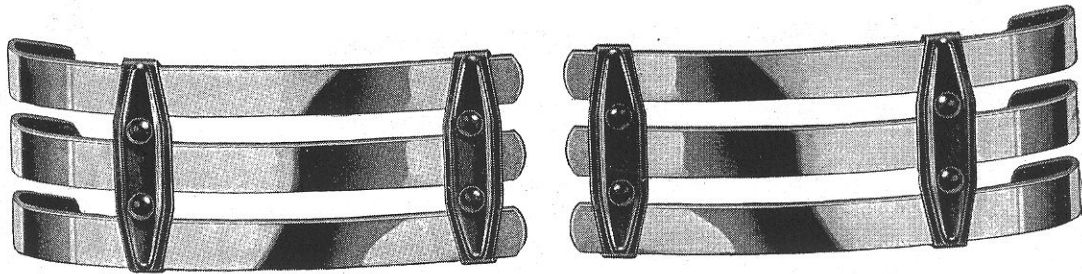


### Model 486—Triple Rail Bumper

**M**ODEL 486 offers the motorist the protective surface of a three rail bumper with very little increase in weight over the two rail type. The guard rails, 62" long,  $\frac{1}{4}$ " thick and  $1\frac{3}{4}$ " wide, are made of highest quality manganese steel—as are the mounting brackets. The ends of the guard rails are curved so that they will not catch on near-by objects when the car is parked. The guard rails are heavily nicked and highly polished. The back of the rails are finished in

black enamel. The end clamps are black with red head bolts. The center clamp, which carries the name plate, ties the three rails securely together at the center. The clamp is enameled a brilliant red. The fact that the guard rails are 62 inches in length assures ample fending surface from all blows. For absolute protection this model bumper is hard to beat. Fully approved by the Underwriter's Laboratories.

*Model 486—Triple Rail Bumper; guard rails, 62 in. long,  $\frac{1}{4}$  in. thick and  $1\frac{3}{4}$  in. wide; end clamps finished in black enamel, bolt heads in red. Guard rails finished in nickel with black enameled back.*



### Model 480—Triple Rail Fender Guard

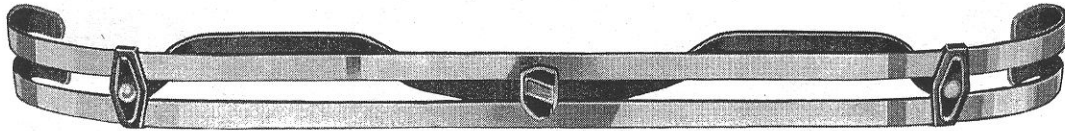
**T**HE new, improved fender guard models are perfect companion pieces for Stewart-Warner Bumpers. Model 480 Fender Guard matches splendidly with Model 486 Bumper and provides complete bumper equipment for the car. The guard rails and fittings on Stewart-Warner Fender Guards are made of best quality manganese steel,  $\frac{1}{4}$ " thick and  $1\frac{3}{4}$ " wide.

The guard rails are broad and furnish ample fending surface to give complete protection to the rear fenders, and those other parts so generally subject to damage in rear end collisions. The rails are nicked on the outside and black enameled on the back. Black end clamps with red head bolts add to the appearance.

*Model 480—Triple Rail Fender Guard; guard rails,  $\frac{1}{4}$  in. thick and  $1\frac{3}{4}$  in. wide; end clamps finished in black enamel, bolt heads in red. Finished in nickel with black enameled back.*

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## *Stewart-Warner* Bumpers

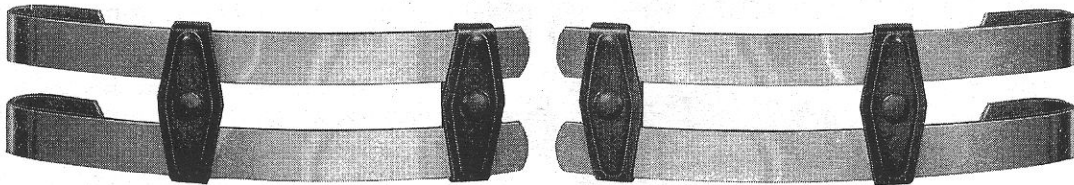


### Model 485—Double Rail Bumper

THE Stewart-Warner Bumper, Model 485, is ideally suited for use on medium and light weight cars. It, too, is constructed of high grade manganese steel rails  $\frac{1}{4}$ " thick and  $1\frac{3}{4}$ " wide. This special grade of steel gives Stewart-Warner Bumpers full spring action that serves as a cushion between the car and the obstructing object. The guard rails are 62 inches long and afford maximum protection to the full width of

*Model 485—Double Rail Bumper; guard rails, 62 in. long,  $\frac{1}{4}$  in. thick and  $1\frac{3}{4}$  in. wide; end clamps finished in black enamel, bolt heads in red. Guard rails finished in nickel with black enameled back.*

the car. In practically every respect this model is similar in design and construction to Model 486, except that it is a double rail model. Both models are reinforced by a supporting bar, which bolts on to the guard rail at the center clamp and each of the end clamps. This reinforcement adds strength to the bumper and makes it a simple and more substantial installation. Approved by the Underwriter's Laboratories.



### Model 479—Double Rail Fender Guard

MODEL 479 is similar in design and construction to Model 480. The rails on this model are also manganese steel  $\frac{1}{4}$ " thick and  $1\frac{3}{4}$ " wide. A very important feature of both Models 479 and 480 Fender Guards is the fact that the fitting sets used in their

*Model 479—Double Rail Fender Guard; guard rails,  $\frac{1}{4}$  in. thick and  $1\frac{3}{4}$  in. wide; end clamps finished in black enamel, bolt heads in red. Finished in nickel with black enameled back.*

installation are ALL STEEL—the same high quality as is used in the guard rails themselves. There are no cast parts to break under force of a collision. Model 479 Fender Guard is a very attractive companion piece for Model 485 Bumper.

### Bumpers for Light Cars

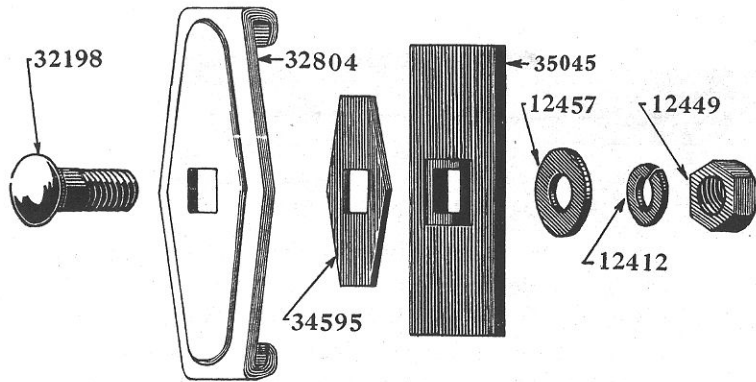
FITTING sets have been designed to adapt Model 485 Bumper and Model 479 Fender Guard for installation on light cars such as Ford, Chevrolet, Whippet, Pontiac, Essex and Star. These two models are ideal fending equipment for light weight cars since they are the same in construction as those models fur-

nished for heavier cars. The fitting sets which adapt these Bumpers and Fender Guards to light weight cars are **all steel**. Prices on these Bumpers when adapted to light cars are given on the price list accompanying this catalog.

*When Ordering Bumpers Indicate Model and Year of Car*

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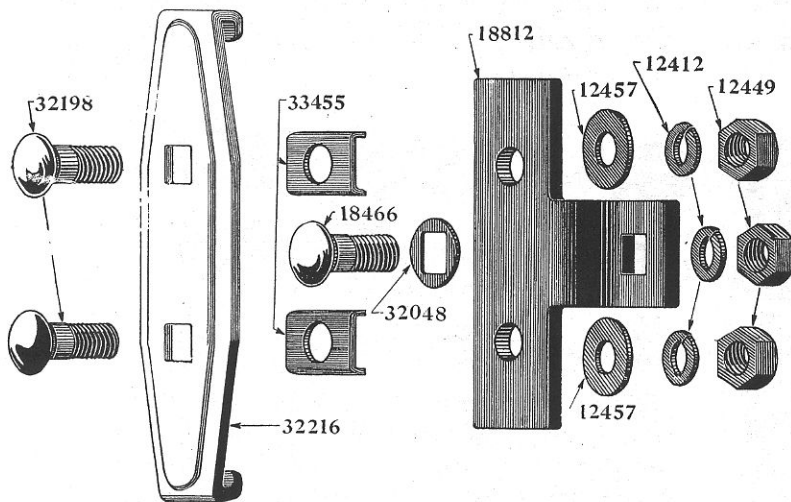
# Replacement Parts—2 Rail End Clamp



PARTS PRICE LIST

Name of Part	Price
32198—Carriage Bolt.....	\$0.13
32216—Clamp .....	.70
33455—End Clamp Spacer.....	.05
18466—Carriage Bolt $\frac{5}{8}$ "-18x1 $\frac{3}{4}$ ".....	.15
32048—Washer (Plain).....	.02
18812—End Clamp Back Plate.....	.20
12457—Washer (Plain).....	.02
12412—Washer (Split Lock).....	.01
12449—Hexagon Nut, $\frac{1}{2}$ " x 20".....	.03

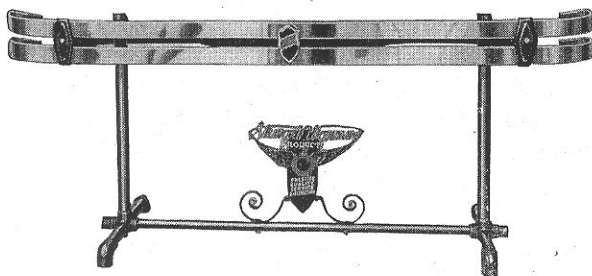
# Replacement Parts—3 Rail End Clamp



PARTS PRICE LIST

Name of Part	Price
32198—Carriage Bolt.....	\$0.13
32804—End Clamp.....	.85
34595—End Clamp Insert.....	.10
35045—End Clamp Back Plate.....	.25
12457—Washer .....	.02
12412—Washer.....	.01
12449—Hexagon Nut, $\frac{1}{2}$ " x 20".....	.03

## This Display Stand Will Increase Your Bumper Sales



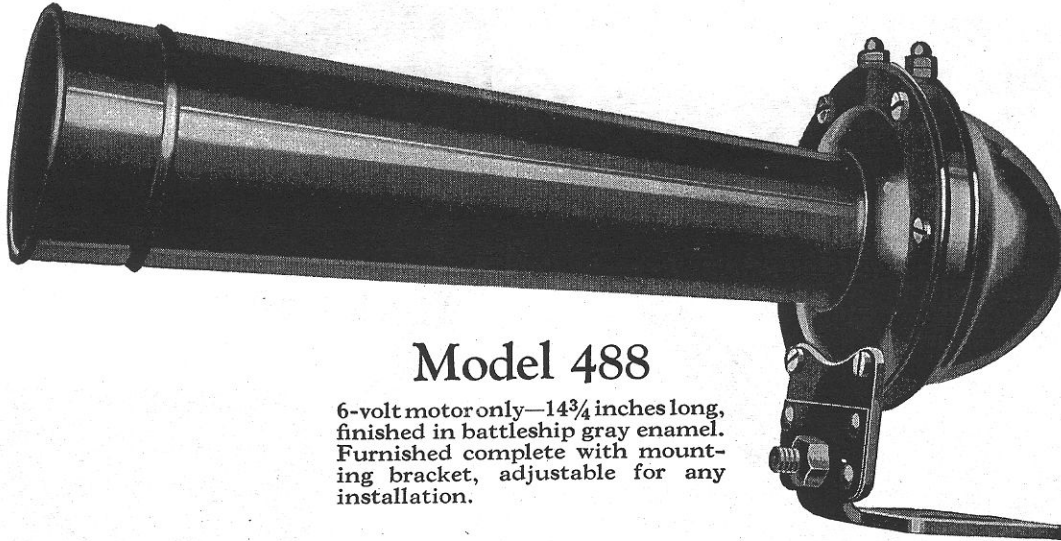
THE value of displaying merchandise is definitely proven in the commercial world. This applies to bumpers as well as to other merchandise. By displaying bumpers to the buying public you will increase your sales and, hence, your profits on them.

This bumper display stand is a silent salesman—it calls attention to the bumper many times when it might otherwise be overlooked. The stand is built of steel tubing enameled in an attractive black finish.

If you are an automobile dealer, this stand is a convenient height to place in front of a car, showing the buyer how it appears with and without bumpers. Write your distributor at once and he will explain the attractive proposition whereby you may obtain this stand.

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## *Stewart-Warner* Electric Vibrator Horn



### Model 488

6-volt motor only—14 $\frac{3}{4}$  inches long, finished in battleship gray enamel. Furnished complete with mounting bracket, adjustable for any installation.

THE motor horn, as you know, is going out of date. No longer does it meet the demands of present-day motorists—no longer is it in the lead. With heavier and more complicated traffic conditions existent throughout the country, a demand arose for quicker starting and quicker stopping cars. Smaller, more efficient motors and four-wheel brakes were among the results.

Our horn engineers were confronted with the same problem; conditions demanded a horn that would respond instantaneously—to get immediate attention. The motor horn was too slow. In answer to this demand came the Vibrator Horn. It offered quick response—it sounded different—you knew it was there—you turned your ear to listen. The motoring public turned to it with immediate approval. The demand for it swept the country.

Now comes Stewart-Warner with the newest and best Vibrator Horn of them all—perfected after extensive experiments in our laboratories—built to the same high standard of quality demanded of all

Stewart-Warner products. This horn is attractive in design and appearance—14 $\frac{3}{4}$ " long—finished in a lustrous hard-baked French gray enamel. It meets the demand for quick response with a "hair trigger" action—it is always on the job—it barks out its warning blast simultaneously with the slightest pressure on the button. The powerful motor sets the specially formed diaphragm to vibrating instantly at full speed and the tone is, therefore, full and clear from the moment the contact is made. The pitch is constant regardless of how long the contact is kept. The current consumption is unusually low—insuring long life of contacts and push button.

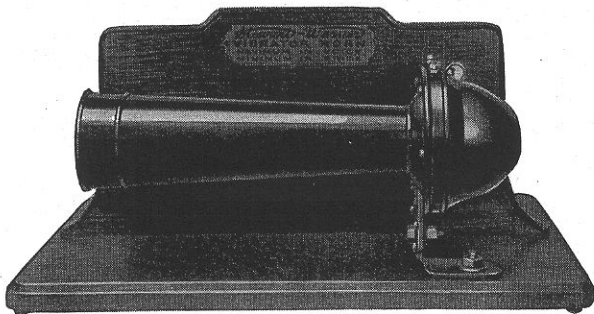
The mechanism is sturdily constructed and simple in design. Contact points are of an exceptionally high grade—and are given a 100% inspection in production. The bracket is a feature of the Stewart-Warner Vibrator Horn—it is adjustable for installation in any position—any place.

**Model 488**—Electric Vibrator Horn, complete with mounting bracket.

### New Attractive Display Stand

#### *Builds Horn Sales*

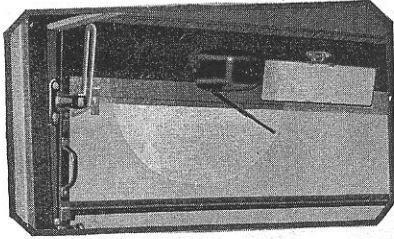
To the dealer is offered the attractive, solid oak display stand, pictured at the left. Space is provided at the back to hold a hot shot battery, which may be wired to the inlaid pearl push button for easy and effective demonstration of this new Vibrator Horn model. This stand is one of the most attractive display stands ever offered for the sales counter. Procure it through your Stewart-Warner distributor.



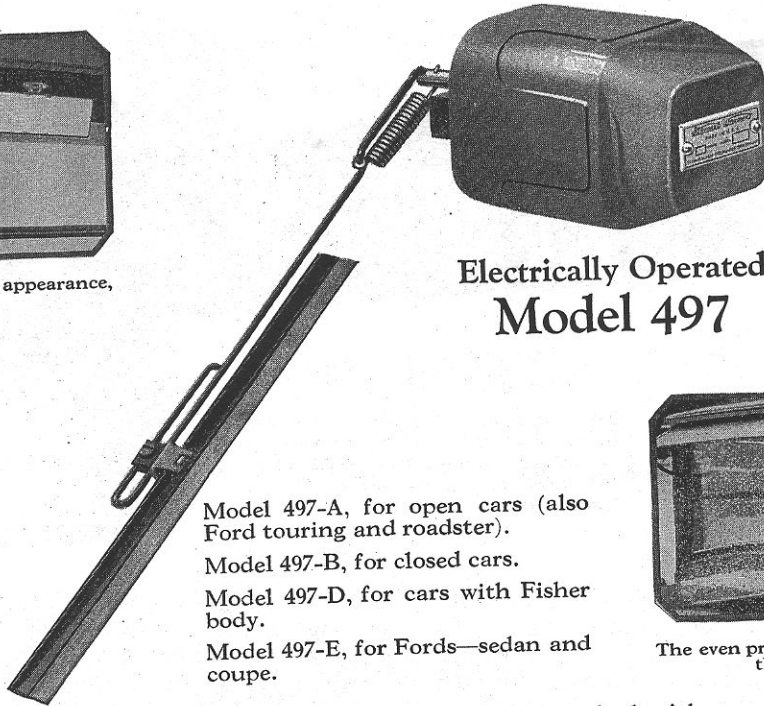
WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## *Stewart-Warner* Windshield Cleaner



Small and compact, neat in appearance, easily installed.



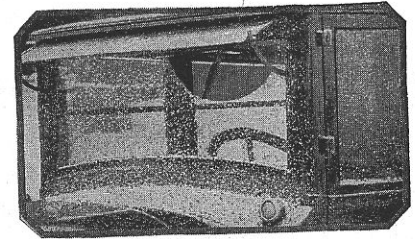
### Electrically Operated Model 497

Model 497-A, for open cars (also Ford touring and roadster).

Model 497-B, for closed cars.

Model 497-D, for cars with Fisher body.

Model 497-E, for Fords—sedan and coupe.



The even pressure of the wiper arm cleans the glass thoroughly.

**T**HE Stewart-Warner Electric Windshield Cleaner is a most useful accessory for safe driving in all seasons. Perhaps the outstanding advantage of an electric windshield cleaner is the fact that it is not dependent upon the car's motor for its power. Deriving its power from the battery—it operates steadily whether the engine is running or the car standing still with the motor dead.

The Stewart-Warner Electric Cleaner is one of the smallest and most compact on the market, and appears very neat when installed on the windshield. The motor and the entire working mechanism is enclosed in a tight, dust-proof case. Though small and compact, the electric motor is very powerful and drives the wiper arm with steady, powerful strokes. The case is finished in hard baked gray enamel. The

cleaner is packed with a special lubricant at the factory and requires no further attention in the way of oiling. It operates on the regular 6-volt storage battery and draws an average current of  $1\frac{3}{4}$  amperes.

The wiper arm is equipped with a special tension spring, which holds the rubber blade firmly against the glass, exerting an even pressure over the full area of the swipe. A single, small adjustment also shortens or lengthens the wiper arm to fit any size of windshield.

The Stewart-Warner Electric Cleaner is easily and quickly installed. No special tools are required. It is furnished for installation on open or closed cars and on all types of windshields.

Use the following model specifications when ordering:

**Model 497-A** for inside mounting on cars which have the top sill projecting inward over the windshield frame not more than  $\frac{11}{16}$ ". Adaptable also for use on Ford Touring and Roadster.

**Model 497-B** for inside mounting on cars which have the top sill projecting inward over the windshield frame MORE than  $\frac{11}{16}$ ".

**Model 497-D** for outside installation on cars equipped with Fisher bodies having vertical raising type windshield instead of swinging type. Cars with the swinging type shield will use either Model 497-A or B.

**Model 497-E**, similar to Model 497-D, but mounted with No. 10-32  $\frac{3}{4}$ " machine screws. For outside installation on 1925-26 models of Ford cars, having the one piece windshield hinged at the top.

All of the above models furnished complete with electric cord, switch and mounting screws.

Wiper Arm Assembly (including Arm and Wiper) No. G-35299 (see Price List).

Push and Pull Switch No. 19999 (see Price List).

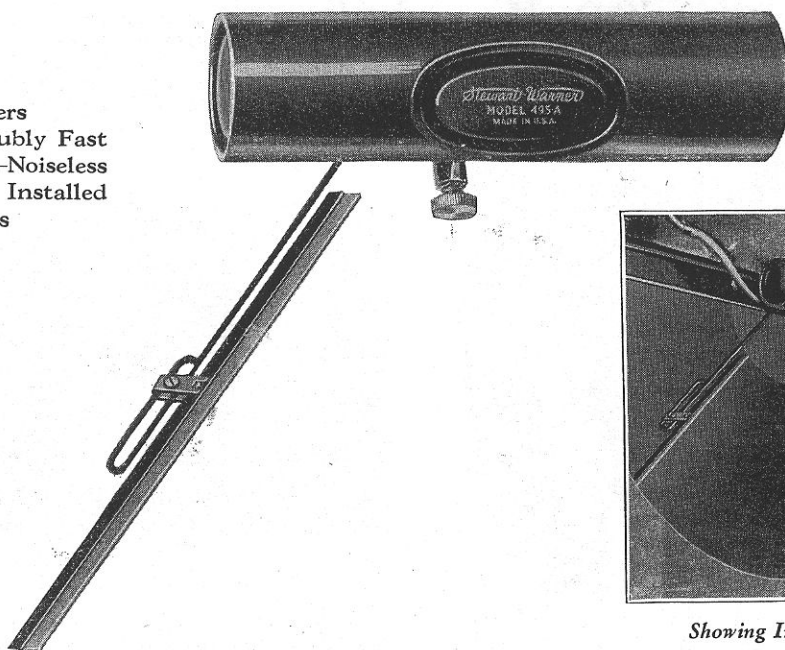
WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

# *Stewart-Warner* Windshield Cleaner

## Vacuum Model 495

Two Cylinders  
Double Power—Doubly Fast  
Adjustable Speed—Noiseless  
Compact—Easily Installed  
For all cars



Showing Inside Installation

**T**HIS new Stewart-Warner Cleaner represents as great an improvement over the ordinary vacuum windshield cleaner, as did the four-cylinder motor car over the old "two-lunger." In designing the Stewart-Warner, we harnessed the vacuum at **both** ends—giving a **double** impulse stroke as compared with present-day "one-lunger" cleaner models. The Stewart-Warner is **doubly** powerful.

### *Even Pressure of Rubber Swipe*

Just turn the control button and the blade sweeps swiftly, steadily across the windshield, exerting an even pressure that cleans the glass crystal-clear—insuring perfect vision—and safety.

The Stewart-Warner Cleaner is noiseless in operation. The clicking and hissing, generally associated with vacuum windshield cleaners, have been eliminated. The mechanism is protected from dust and dirt by a special washer in the air vent.

### *Maximum Swipe Area*

The wiper arm has a possible swing of 180 degrees—an unusual feature, which permits placing the arm out of the way on the windshield frame, beyond the

**Model 495**—Stewart-Warner Vacuum Windshield Cleaner, complete with fittings. Furnished in various models, for mounting on interior, exterior, elevating windshield glass, etc. Specify make, model and year of car when ordering. Available April 1, 1927.

Wiper Arm Assembly (including Arm and Wiper), No. G-35299. (See Price List.)

area of vision, and safe from damage when the windshield is being washed. A single small adjustment also shortens or lengthens the wiper arm to fit any size of windshield.

### *Adaptable for Installation On All Windshields*

This Stewart-Warner Cleaner model is adaptable for installation on practically all sizes and types of windshields—and for either inside or outside mounting. The assembly and installation are very simple.

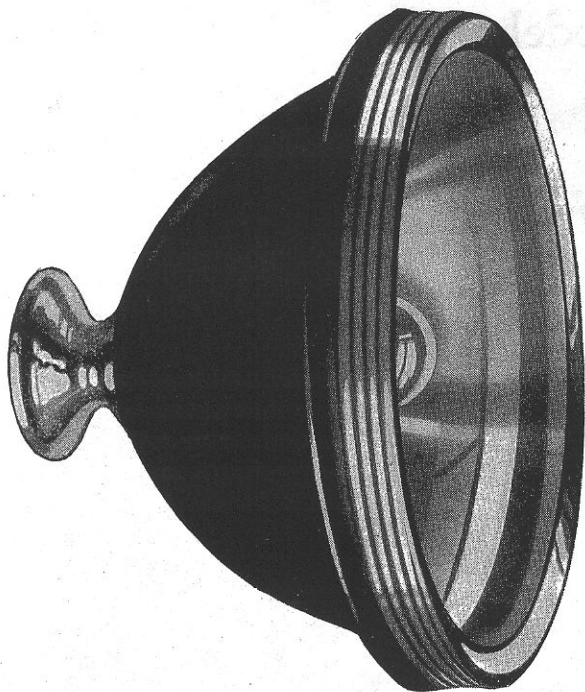
When shipped from the factory the mechanism of this cleaner is provided with a supply of special lubricant and requires no further attention after installation.

### *Neat in Appearance—Easily Installed*

This Stewart-Warner Vacuum Windshield Cleaner is small and compact—6 $\frac{3}{8}$  in. long by 1 $\frac{1}{16}$  inches in diameter—and presents a neat appearance when installed. It is connected by a special fitting to the vacuum tank—or on cars not equipped with a vacuum tank—directly to the intake manifold. Adaptable to all types of passenger cars and trucks.

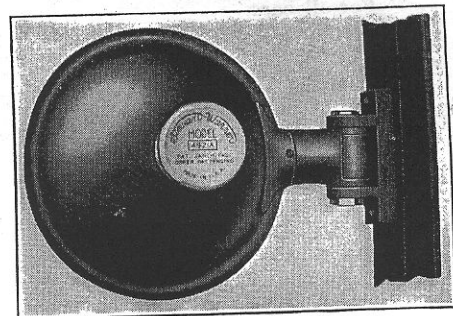
WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES



*Stewart-Warner* Driving Lights

## Model 492-C

Stewart-Warner Driving Light, with universal, unrestricted throw. Furnished complete with wiring, Push and Pull Switch (illustrated on next page) for installation in instrument board, and bracket for mounting on closed cars. (For open cars, order, in addition, Adaptor Bracket, shown below).



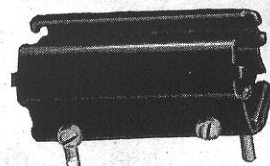
Rear view of Light and bracket, installed on closed car

**T**HERE can be no questioning the real need of a reliable driving light. Failing to equip a car reflects failure to appreciate the many uses to which a driving light may be put. A big percentage of all driving is night driving—and the majority of all hazards occur after dark. The arbitrary setting of headlights on a car gives the driver no greater range of vision than is accorded a horse with close-fitted blinders. You do the car buyer a favor when you stress the need of a worth while driving light.

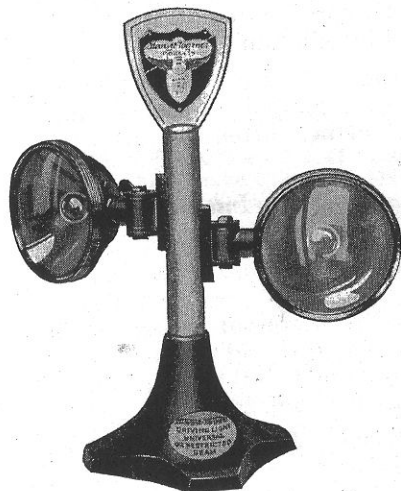
This Stewart-Warner Driving Light reflects the last word in accepted design, long life and penetrating beam. The reflector lens is independent of the outer shell, thereby preventing all danger of condensation or fogging. The precise design of the heavily silvered reflector insures the maximum in beam whiteness. A focusing device is provided for any variation in bulbs. The bracket is designed for easy adjustment to any position, and for neat installation on closed cars, or screw-on mounting on open car windshields.

## Adaptor Bracket for Open Cars

Model 492-C Stewart-Warner Driving Light comes equipped with the closed car mounting bracket, shown above. This will cover the majority of installations. However, for installing the light on open cars, simply order in addition the Adaptor Bracket 35060, shown at the right. It can be bolted right over the closed car bracket furnished with the light, and clamps readily and solidly to the open car windshield frame.



35060  
Adaptor Bracket



Display Stand for Stewart-Warner Driving Lights

## This Attractive Display Stand Will Create Many Sales For You

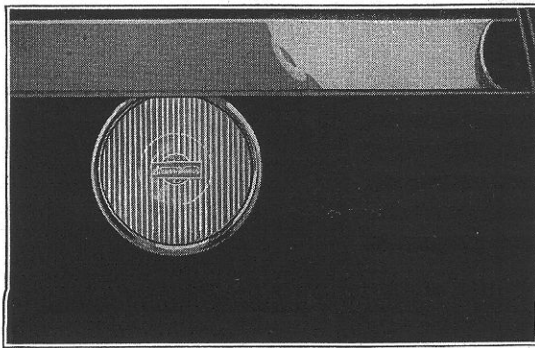
Pictured at the left is an attractive, turned stand, which you can procure through the Stewart-Warner Distributer in your territory, for displaying Stewart-Warner Driving Lights. This stand is nineteen inches high and fitted with a nine-inch ebony enameled base, equipped with rubber tips. The post is finished in silver. Attractive enameled shields are fastened to both the top shield and the base. This stand will make both an attractive addition to your counter, and bring you many sales.

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

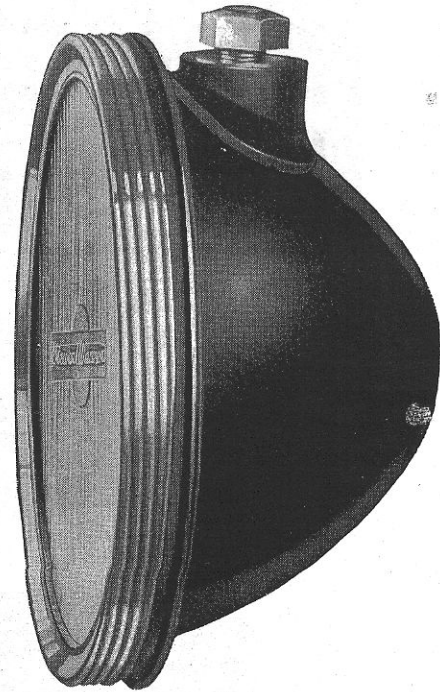
## *Stewart-Warner* Road Lights

### Model 494

Stewart-Warner Road, Fog or Ditch Light. Furnished complete with wiring, Push and Pull switch for dash installation, prismatic lens, and with bracket for universal mounting on car.



Showing Road Light installed on bumper bracket

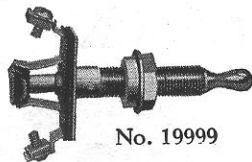


THE Stewart-Warner Road Light offers something distinctive and unique in the way of a safety light for motor cars. It provides a light with an exceptionally powerful beam—the beam, however, being softened and diffused so effectively by the frosted lens, as to flood the edge of the road and the dangers that lie beyond. There can be no offense given approaching motorists, due to the combination of this diffusion of light and the position it occupies on the car—down near the road. This penetrating beam is also effective for lighting the road underneath a fog.

The basic construction of the light is somewhat

similar to our Driving Light, with the exception of brackets, focusing details, lens, etc. More and more is this road-area lighting being regarded as essential—particularly so in view of the many ordinances and legislative restrictions prohibiting bright head lights on cars. In fact, such legislation is creating an increasing demand for both Driving Lights and Road Lights.

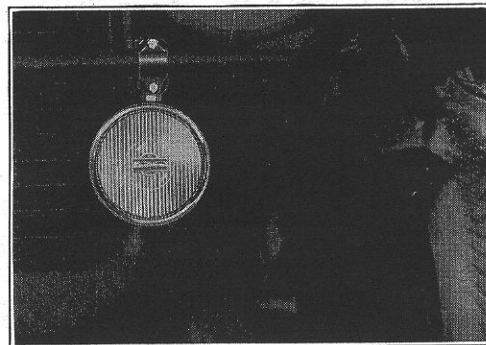
The Stewart-Warner Road Light is sturdily built—brass throughout—and is primarily offered as a strictly quality piece of merchandise.



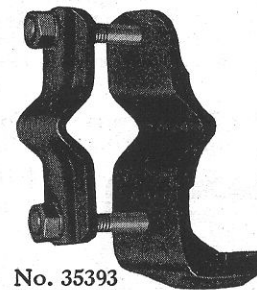
No. 19999

#### Push and Pull Switch

The above switch, furnished with all Stewart-Warner Road and Driving Lights, is of standard design, with terminal points fitted with screws, for ready attachment or removal of the wires. Finished in nickel. For installation on the instrument board.



Showing installation on tie-rod between headlights



No. 35393

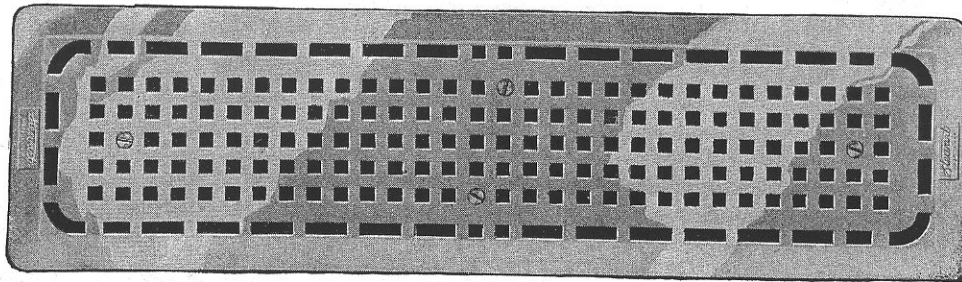
#### Universal Mounting Bracket

This universal mounting bracket furnished with Stewart-Warner Road Lights lends itself to ready placement at any one of a half-dozen points—on the bumper, bumper arm, or the tie-rods, either on the frame or between the lamps.

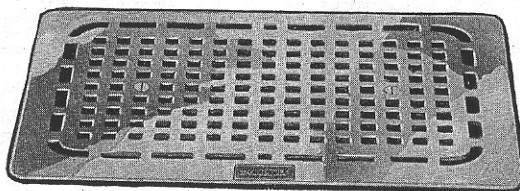
WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

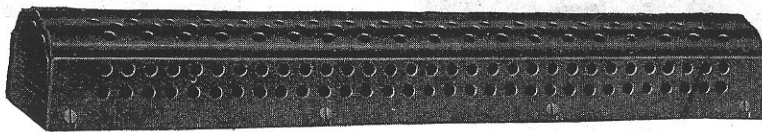
## *Stewart-Warner* CAR HEATERS



Model 212-D



Model 211-D



Model 268-A

THE construction of the heating element on Stewart-Warner Heaters is a decided departure from the usual type of cast-iron elements. They are designed to give quick heat—a decided advantage during wintry weather.

A convenient wire control, leading from the instrument board to the heater valve enables the driver to easily turn the heater on and off.

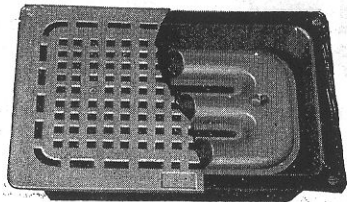
The Stewart-Warner Dual Valve is fitted with a strong spring, which holds the valve firmly in any position the driver chooses. When open this valve directs the exhaust gases up through the heater, immediately radiating heat throughout the car. When closed the valve is absolutely tight. No gas can pass through it.

Stewart-Warner Heaters are made in a variety of models adaptable to practically all cars. When ordering, specify make, model and year of car.

- Model 212-D—Stewart-Warner Car Heater (Floor Plate,  $26\frac{3}{8}$ " x  $7\frac{1}{4}$ " ), flush with floor.
- Model 211-D—Stewart-Warner Car Heater (Floor Plate,  $14\frac{1}{4}$ " x  $10\frac{1}{4}$ " ), flush with floor.
- Model 268-A—Stewart-Warner Rail Type Heater (26" long, 4" wide), extending  $3\frac{1}{4}$ " above the floor.
- Model 268-B—Stewart-Warner Rail Type Heater (21" long, 4" wide), extending  $3\frac{1}{4}$ " above the floor.
- Model 284-B—Stewart-Warner Car Heater (Floor Plate,  $27\frac{3}{4}$ " x  $6\frac{1}{8}$ " ), flush with floor.
- Model 284-C—Stewart-Warner Car Heater (Floor Plate,  $22\frac{3}{4}$ " x  $6\frac{1}{8}$ " ), flush with floor.

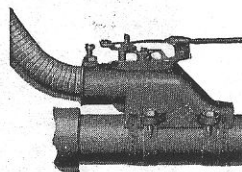
### *Special Heaters for Ford Cars (Rail Type Only)*

- Model 268-B—For Ford Sedans and Touring (21" long, 4" wide,  $3\frac{1}{4}$ " high).
- Model 268-C—Equipped with special floor board for Ford Roadsters and Coupes (21" long, 4" wide,  $3\frac{1}{4}$ " high).



Sectional View of Heating Element

THE heating element used in Stewart-Warner car heaters is made of drawn steel which makes possible quick heat. All seams in the element are electrically welded and tested for leaks at high air pressure.



Stewart-Warner Exhaust Valve.

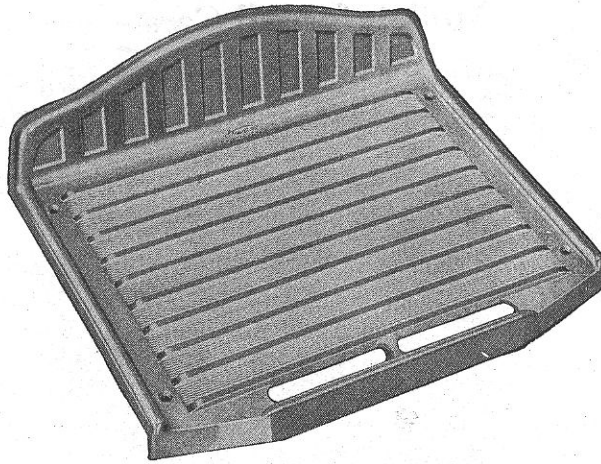
STEWART-WARNER Heaters are equipped with the gas-tight exhaust valve shown at the left. This valve, when shut off, absolutely prevents gas and heat from entering the car. Universal installations for the exhaust valve are furnished to fit practically all cars.

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## *Stewart* STEP PLATES

Right: Type "A" Step Plate  
9 x 12 inches.



*"No Car is Complete  
Without Them"*

### Die-Cast—Rust-Proof—Durable

ABOUT ninety-nine per cent of automobile owners now want, or can be induced to want, step plates. They realize that, in addition to being a utility, step plates add to the smart appearance of a car. By no other means can a man so conspicuously "spruce up" his car for so small an outlay as by adding Stewart Step Plates.

You can sell Stewart Step Plates by merely displaying them. Every pair you sell nets you a fine profit. There is no waste—no dead stock. Stewart Plates move fast.

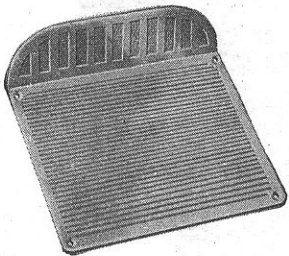
Stewart Step Plates are not to be compared with ordinary sand-cast plates. Stewart Plates are die-cast. That means that they are

cast under tremendous pressure instead of being just poured into a mold.

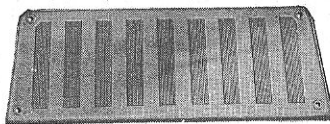
They are therefore extremely resistant to wear, because of the density of the metal. Another thing: Stewart Step Plates keep their beautiful finish. They are not plated, but have the natural polish of the non-rusting metal, and that lasts during the service life of the plates. In short, Stewart Plates are the kind you'll like to sell. They bring you both profit and prestige. In demand the year round. Splendid for holiday gifts.

There are four styles and six sizes of Stewart Plates. These are illustrated and described on this page.

### *A Model and a Price to Please Every Car Owner*



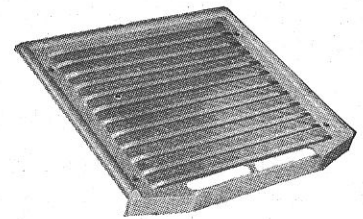
Above: Type "B" Step Plate,  
7½ x 9½ inches.



Type "E" Kick Plate, 4¾ x 11½ in.

Type "F" Kick Plate, 4 x 9½ inches

Type "G" Kick Plate, same size as  
"F" but curved to fit Ford cars.



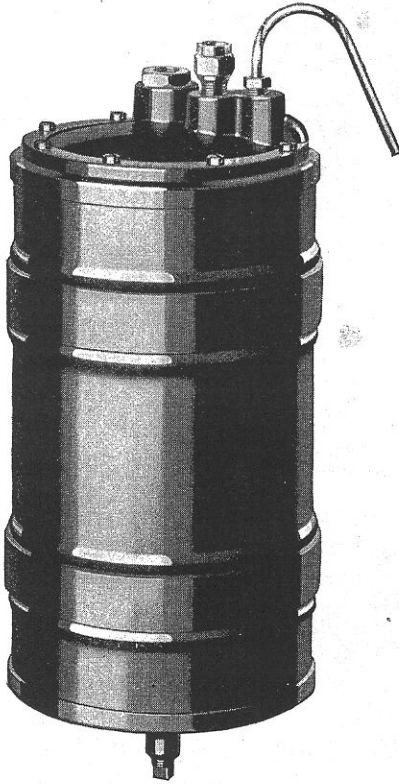
Type "C" Step Plate  
10½ x 11½ inches.

Type "D" Scuff Plate  
9 x 9½ inches.

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

## *Stewart-Warner* Vacuum Tanks

### Models for All Cars



THE Stewart-Warner Vacuum Feed System assures an even feed of gasoline being supplied to the carburetor under any and all motoring conditions. The vacuum created by the motor's suction through the manifold draws gasoline from the fuel reservoir in the rear to the small vacuum tank, from which the gasoline flows steadily and positively to the carburetor.

The Stewart-Warner Vacuum System eliminates the feed troubles common to other systems. Over all kinds of roads and up the steepest grades it maintains a perfect, never-failing feed of gasoline. Standard equipment on ninety-five per cent of all makes of cars. Quickly and easily installed on any make of car or truck—old or new.

**Model 215—Reserve capacity, 2,343 pints. Used on the following cars:**

Auburn	Nash Spl. and Light 6	Cleveland	Pontiac
Dodge	Oldsmobile	Hupp 6	Reo
Essex	Velie	Jewett	Studebaker Std.
Flint	Buick Std. 6	Oakland	Overland
Moon	Chrysler 70		Star

**Model 216—Reserve capacity, 3,375 pints. Used on the following cars:**

Hudson	Franklin	Gardner	Studebaker Spl.	Chandler
Jordan	Paige		Willys-Knight	Kissell
Diana	Peerless		Buick Master 6	Rickenbacker

Complete with fittings.

**Model 169-A—For farm lighting outfits. Reserve capacity, 1 pint.**

Complete with fittings.

Shipping weight on above models, 5 4/5 lbs.

## *Stewart-Warner* Heavy Duty Tanks

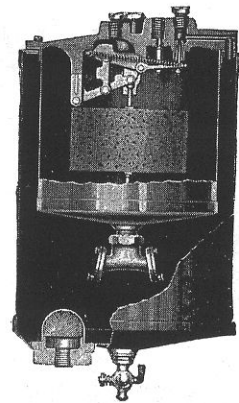
THE Stewart-Warner Heavy Duty Vacuum System for motor trucks is designed to meet the heavy demands of trucking. The heavy duty tank has a greater capacity than the passenger car types.

The Stewart-Warner Heavy Duty Vacuum System also has quicker filling and emptying facilities, due to the Venturi type air valve and double flapper outlet valve. This model will deliver an ample supply of fuel to meet the heaviest trucking demands.

Also adapted for service on tractors, large stationary engines, motor boats, etc. A perfect automatic gasoline feed system.

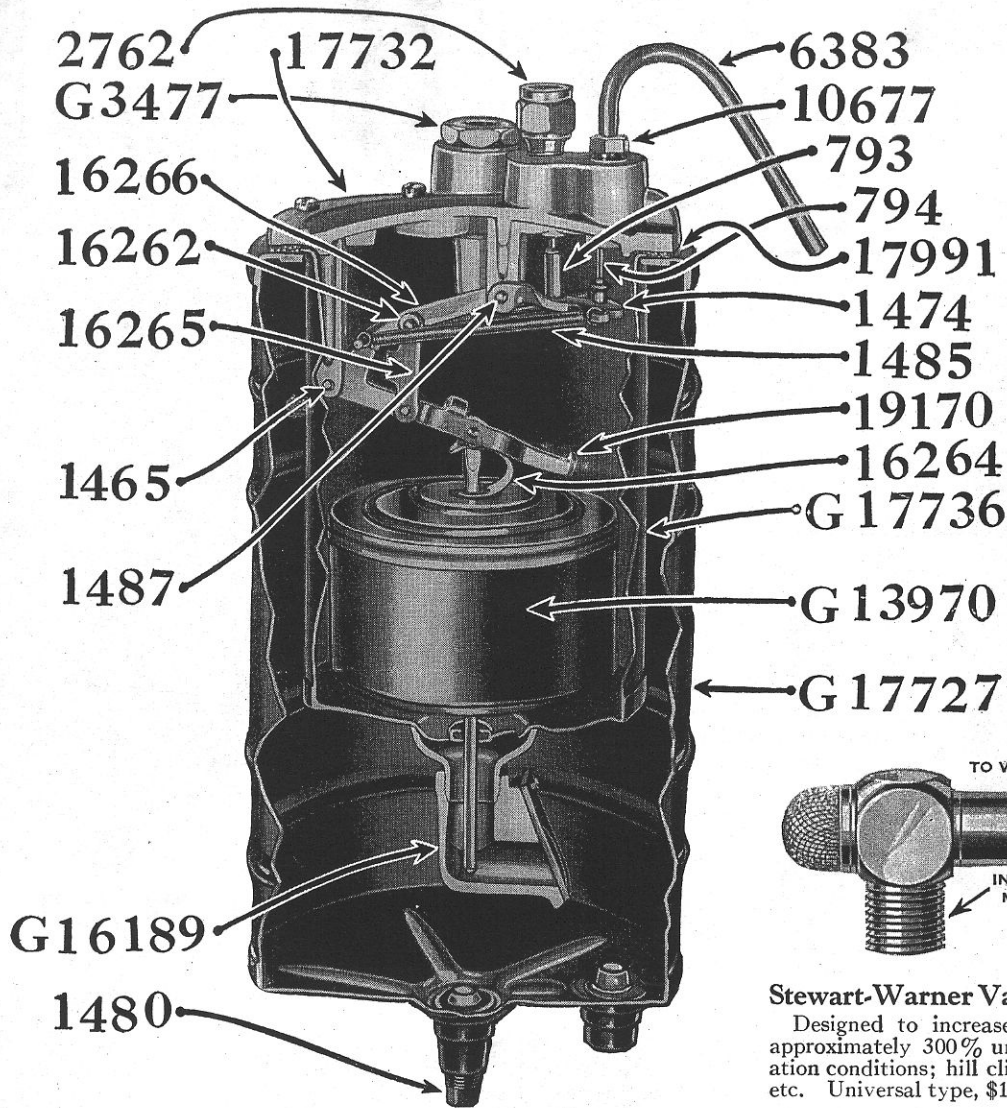
**Model 147—Stewart-Warner Heavy Duty Vacuum Tank. Reserve capacity, 3.95 pints.**

**Model 278—Stewart-Warner Heavy Duty Vacuum Tank. Reserve capacity, 13.2 pints. Adapted for use on busses, tractors, stationary engines, motor boats, etc.**



THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

# *Stewart-Warner* Vacuum Tank



**Stewart-Warner Vacuum Booster**  
 Designed to increase vacuum volume approximately 300% under high acceleration conditions; hill climbing conditions, etc. Universal type, \$1.00

## Genuine *Stewart-Warner* Vacuum Tank Parts

793	Vacuum Valve Stem.....	each	\$0.25	G-16189	Flapper Valve Assem.....	each	\$1.25
794	Atmospheric Valve Stem.....	each	.25	16262	Lever Pin, Tension Spring..	per 100	.50
1465	Float Lever Pin.....	per 100	.50	16264	Tension Spring (Float Guide)..	each	.05
1474	Valve Stem Lever.....	each	.25	16265	Lever Connecting Link.....	dozen	.50
1480	1/8" Pipe Plug.....	each	.04	16266	Spring Lever.....	each	.05
1485	Valve Tension Spring.....	each	.05	G-17727	Outside Shell Assem.....	each	2.75
1487	Valve Stem Lever Pin.....	per 100	.50	17732	Top Cover and Bush. Assem...	each	2.50
2762	Vacuum Connection Nipple...	each	.35	G-17736	Inner Shell Assem.....	each	2.50
G-3477	Gasoline Strainer Assem.....	each	.30	17991	Cork Gasket.....	2 for	.15
6383	Vent Extension Tube, 3/16x1/8"	each	.15	19170	Combination Float and Safety		
10677	Vent Tube Connection Nut....	each	.06		Trip Lever for all Vac. Tanks..	each	.30
G-13970	Float Assem.....	each	1.00				

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

Genuine Parts for *Stewart-Warner* Vacuum Tanks

16277 Top Cover Assembly Only \$4.00

17991 Cork Gasket  
For Models 215 and 216 90c doz.

G-17736 Inner Shell For Models 215 and 216 \$2.50

3779 Band Brackets .30c

Outside Shell For Model 215 17727 For Model 216 17767 \$2.75

6383 Vent Extension Tube .15c

13970 Float Only \$1.00

16278 Top Cover and Float Assembly \$5.00

1485 Valve Tension Spring .05c

11149 Vent Connection Assembly .25c

3973 1 1/2 - 20 Gasoline Inlet Bushing and Strainer .75c

7316 Elbow 1/8 to 1/8 S.A.E. .45c

10870 Flapper Valve Old Style \$1.25

16189 Flapper Valve New Style \$1.25

4208 Compression Collar .30c doz.

17741 Compression Collar For 215 Tank .10c

2762 Connection Nipple .35c

4207 Compression Nut .10c

4209 Solderless Joint .20c

2815 Solderless Coupling Assembly 1/8" x 1/8" .40c

4206 Elbow .05c

10677 Vent Tube Nut 215 and 216 Models .06c

3674-1/4" 3477-1/8" Gasoline Inlet Bushing and Strainer .30c

2930 Strainer .05c

Pipe Plug 1480-1/8" P.T. .04c 10522-1/4" P.T. .05c

2808 Vacuum Connection Nipple .30c

10985 Top Cover Screws Per 100, .25c

31043 Drain Cock Assembly .35c

10665 Vent Tube Connection .20c

Additional Vacuum Tank Parts (Not Illustrated)

For Light Car (Chevrolet) Tank Parts, See Page 31

Part No.	FLAPPER VALVES	Price	Part No.	MISCELLANEOUS PARTS	Price
10234	Flapper for 10235 Inner Shell for Model 147 Tank.	\$1.25	4471	Band Brackets, Wide, for Models 188 and 189 tanks.	\$0.35
Part No.	GASKETS	Price	17742	Band Brackets, Models 208, 215 and 216 tanks.	.30
3830	Cork Gasket (old style), for all other models except heavy duty.	per doz. \$0.90	3779	Band Brackets, Models 147 and 187 heavy duty tank.	.30
10262	Cork Gasket (lower), for heavy duty tank.	per doz. .90	17741	Compression Collar (1/4" or 5/16").	.10
10365	Cork Gasket (upper), for heavy duty tank.	per doz. .90	11177	Strainer (for Models 143 and 191 Special Nash tank).	.05
Part No.	INNER SHELLS	Price	10068	Vent Tube Fitting, 1/8" Pipe Thread.	.20
16191	Inner Shell, for all, except heavy duty models.	\$2.50	33056	Vent Fitting, plug type, 3/8-24 thread.	.16
13388	Inner Shell, used on old model tanks (using 10870 all metal Flapper Valve).	2.50	Part No.	TOP COVER ASSEMBLY	Price
10235	Inner Shell, for Model 147 heavy duty tanks.	2.50	16282	For all Buick models (up to 1925).	\$4.00
Part No.	OUTSIDE SHELLS	Price	11952	Nash Special and Four-Cylinder models (up to 1925).	4.00
2984	Outside Shell, for Model 189 Tank.	\$2.75	10249	Used on Models 146 and 147 heavy duty tanks.	5.00
6185	Outside Shell, for Model 188 Tank.	2.75			
4975	Outside Shell, for Model 177 Tank.	2.75			
10346	Outside Shell, for heavy duty Models 146 and 147.	3.50			

For information on special tanks or parts, consult the Stewart-Warner Products Service Station in your territory.

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

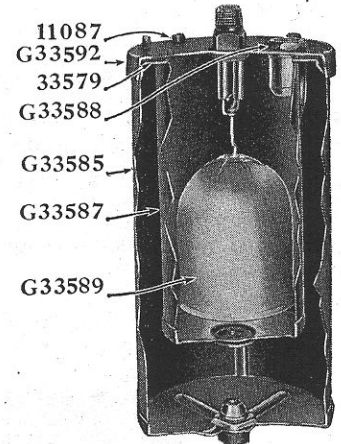
# *Stewart-Warner* Vacuum Tank for Ford and Chevrolet



Model 477-A (for Chevrolet)—Model 477-C (for Ford)

**M**ODEL 477 Stewart-Warner Vacuum Tank has been developed to meet a definite demand for a positive gasoline feed system of low price, adapted for use on small cars having high vacuum at all speeds. It is built particularly for Chevrolet and is furnished also for installation on Fords. Installed on Fords, or other light cars dependent upon gravity feed, it gives assurance of positive gasoline feed even on the steepest grades. Its reserve capacity of one pint is great enough to insure sufficient fuel being supplied to the carburetor under all conditions.

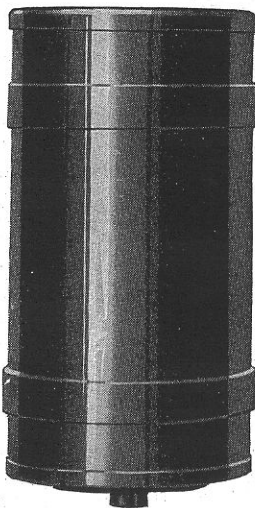
A two-valve mechanism assures positive operation. It is substantially built, has very few parts, is silent in operation, and its small size permits installation in limited space. The over-all dimensions are  $7\frac{5}{8}$  in. high by  $3\frac{1}{16}$  in. diameter. The mounting bracket hole spacing is  $4" \times 2\frac{1}{2}"$ .



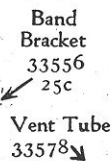
These additional parts furnished with Model 477-C for Ford installation.

- 3 No. 1077 Elbows
- 4 No. 1093 Sleeves
- 4 No. 1078 Nuts

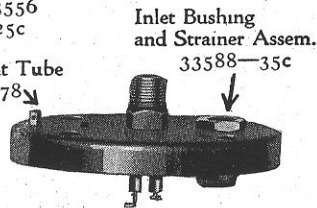
## Replacement Parts for Model 477 Vacuum Tank



Outside Shell Assem.  
33585—\$1.75



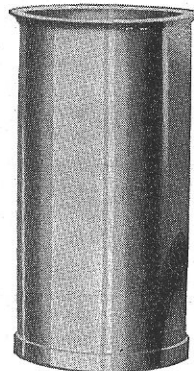
Band Bracket  
33556  
25c  
Vent Tube  
33578



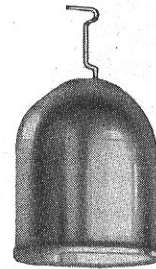
Inlet Bushing and Strainer Assem.  
33588—35c  
Top Cover and Valve Assem.  
33592—\$1.75 (Chev.)  
34955—\$1.75 (Ford)



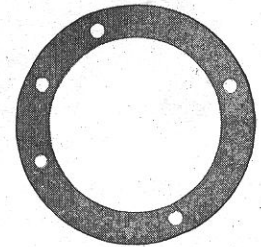
Check Valve Assem.  
33991—25c (Chev.)  
35162—25c (Ford)



Inside Shell with Valve  
33587—\$1.00



Float Assem.  
33589  
90c



Gasket—33579  
5c



11087—#32 x  $\frac{1}{4}$   
Fil. H. Screws  
for Top Cover  
40c per C



## How to Order Parts

**YOU** will receive service on orders for replacement parts much more promptly and efficiently if you accompany the orders with the information specified below, whenever it is possible to obtain it. However, if our part number is illegible, just specify on your order the make, model and year of the car on which the part is to be used.

**SHAFT:** Means *Casing* plus *Core* or *Chain* complete.

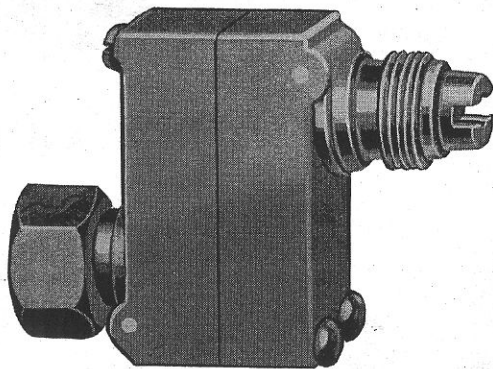
**CORE:** Means the inside of the *Shaft*—the wire *Cable* or *Chain*.

**CASING:** Means the *Shaft* less *Core* or *Chain*.

### SHAFTS—CORES—CASINGS

In ordering *Shafts*, *Cores*, *Chains* or *Casings*, give the length and part number.

Before ordering cores make a careful comparison of the tips on the broken core with the various cores illustrated on pages 8, 10, 11, 12 and 15 of this catalog. This will save trouble and delay.



**AN** Adaptor is required whenever a speedometer records speed and mileage inaccurately, due to a change in tire size or gears (axle ratio).

The Stewart-Warner Adaptor illustrated here compensates for any fluctuation in the speedometer gear ratio, due to changes in tire size (such as adopting balloon tires where cords were previously used) and changes in differential gear ratio.

This adaptor is readily placed between the lower end of the cable and the driven gear.

In ordering, merely specify "Adaptor" and fill in the information outlined at the right.

### SWIVEL JOINTS—ANGLE JOINTS

Order *Swivel Joints* and *Angle Joints* by number. The number is always stamped *INTO* the metal. Do *NOT* use the *RAISED* numbers.

### ROAD WHEEL GEARS— FIBRE PINIONS

Order *Road Wheel Gears* and *Fibre Pinions* by number. These numbers may be found by scraping the old gear or pinion clean. The number on the road wheel gear is *RAISED*. Low numbers prefaced with a "P" (meaning *Pitch*), or a "T" (meaning number of teeth) is unnecessary, except where the gear number is illegible.

### DRIVE GEARS—DRIVEN GEARS

Order *Drive Gears* and *Driven Gears* by number. The number is on the gear.

## *Stewart-Warner* ADAPTORS

### When Error is Due to Change in Tire Size

OLD	NEW
Size of tire _____	Size of tire _____
Make of tire _____	Make of tire _____
Number of Speedometer Drive Gear _____	
Number of Speedometer Driven Gear _____	
Number of Speedometer Pinion (if used) _____	
Number of Speedometer Swivel Joint (if used) _____	

### When Error is Due to Change in Gears (Axle Ratio)

OLD	NEW
Rear axle ratio _____	Rear axle ratio _____
Number of Teeth in Pinion _____	Number of Teeth in Pinion _____
Number of Teeth in Ring gear _____	Number of Teeth in Ring gear _____

N. B.—Standard differential gear ratios are generally cast or stamped on differential housing on trucks.

## Speedometer and Vacuum Tank Specifications

### AUBURN

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Bush.	Sleeve	Key or Washer	Adaptor	Speedometer Model	Vacuum Tanks	Year
6-39	5.09 4.75	52 32	1799-42 1799-42	15158 12509	5 6	15159 12510	16 17	1870 1870	5080 5080			131-J 131-J	122-D 122-D	1921
6-53—Big Six 6-53—Big Six 6-43—Small Six	5.1 4.7 5.1 4.63 4.63	32 32 32 32 31	1799-42 1799-42 1799-42 1799-42 1799-42	15998 16001 15778 16114 16114	4 6 4 6 6	14531 11068 5379 13779 13779	12 17 12 17 17	11012 11012	11092 11092 11092 11092 11092	3213 3213 3213 3213 3213		131-B 131-B 131-B 131-B 131-B		1922
6-63—Big Six 6-63—Big Six 6-43—Small Six	5.1 4.63 4.63	32 32 31	1799-50 1799-50 1799-48	15778 16114 16114	4 6 6	5379 13779 13779	12 17 17		11092 11092 11092	3213 3213 3213		131-B 131-B 131-B		1923
8-Cylinder Car 8-Cylinder Car	5.1 4.63	6.20 B 6.20 B	13600-56 13600-56	15778 16114	4 6	14340 17958	12 17		20312 20312	3213 3213		131-B 131-B	215-A 215-A	1924
6-66 8-88	5.1 4.9-1 5.1-1	32 C 30x5.25-B 6.20x20-B	13600-56 13600-52 13600-52	15778 15778 15778	4 4 4	14340 14340 14340	12 12 12	1870 1870 1870	20312 20312 20312	3213 3213 3213		131-BS 131-DP 131-DP		1925
4-44 8-88 6-66 8-88—7 Pass. Sedan 8-88 8-88 8-88 6-66 4-44 8-88 8-88—5-7 Pass. 8-88—7 Pass. 6-77 Light	4.9-1 5.1-1 4.9-1 5.1-1 4.63-1 5.1-1 5.1-1 4.9-1 4.9-1 4.63-1 5.1-1 5.1-1 4.7-1 4.25-1 4.3-1 5.3	30x5.25 30x5.77 30x5.25 31x6.20 30x5.77 30x5.77 30x5.25 30x5.25 30x5.77 31x6.20 32x6.20 32x5.25 31x6.00 30x6.00 30x6.00	13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52 13600-52	15778 15778 15778 15778 15778 15778 15778 15778 15778 16114 17120 17119 16114 16114 32145	4 4 4 4 4 4 4 4 4 6 4 4 4 6 6 4	14340 14340 14340 14340 14340 14340 14340 14340 14340 17958 31406 19205 17958 17958 15465	12 12 12 12 12 12 12 12 12 17 10 13 13 13 14	1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870	20312 20312 20312 20312 20312 20312 20312 20312 20312 20312 20312 20312 20312 20312 20312 20312	3213 3213 3213 3213 3213 3213 3213 3213 3213 3213 3213 3213 3213 3213 3213 3213		280-Z 131-DP 131-DP 131-DP 280-AV 280-AV 280-AV 280-AV 280-AV 280-AV 131-DP 280-AV 280-AV 280-AV 280-AV		1926
6-66A Light	4.9	29x5.25	13600-52	31303	5	19031	17		20312	3213		280-AV		1927

### BUICK

Model	Axle Ratio	Tire Size	Shaft	Swivel Joint	Clamp	Spacers	Misc.	Angle Bar	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Vacuum Tanks	Yr.
4-Cylinder	F.W.D.	32	1799-66	1913	7021	3731	2686	4007-A	8695	64	2301	16	131-A	122-AB	1921
6-Cylinder	4.62	33 C	1799-66						11814	4	11812	11	131-A	122-AB	
6-Cylinder	4.06	33 C	1799-66						11814	4	11813	10	131-A	122-AB	
48, 49, 50, 49X	4.9	34x4½ C	1799-66						11814	4	11812	11	131-A	122-AB	
44-5, 46, 45X, 47	4.6	33x4 C	1799-66						11814	4	11812	11	131-A	122-AB	
23-34, 23-35 Tour. and Road	4.66	31x4 C	1799-40		See Note				15433		15431	12	131-A	122-AB	1922
4-Cylinder	F.W.D.	32 C	1799-66	14200	7021	3731	2686	4007-A	8695	64	2301	16	131-A	122-AB	
22-54 Sport	4.34	32x4½	1799-66						11814	4	11813	10	263-C	122-AB	
6-Cylinder	4.06	33 C	1799-66						11814	4	11813	10	131-A	122-AB	
6-Cylinder	4.62	33 C	1799-66						11814	4	11812	11	131-A	122-AB	
49, 49, 50, 49X	4.9	34x4½ C	1799-66						11814	4	11812	11	131-A	122-AB	

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

BUICK (Contd.)

Model	Axle Ratio	Tire Size	Shaft	Swivel Joint	Clamp	Spacers	Misc.	Angle Bar	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Vacuum Tanks	Yr.
Late 24-41, 24-45, 24-51, 24-54, 24-55	4.36	32 C	1799-66						11814	4	11813	10	131-BY	208-A	1923
Late 24-47, 24-48, 24-49, 24-50	4.72	32 C	1799-66						11814	4	11812	11	131-BX	208-A	
23-34, 23-35	4.66	31x4 C	1799-66			See Note			15433		15431	12	131-A	189-E	
Early 48, 49, 50 and 49X	4.9	34x4½ C	1799-66						11814	4	11812	11	131-A	189-E	
Early 44, 45, 46 and 45X	4.62	33 C	1799-66						11814	4	11812	11	131-A	189-E	
Early 24-41, 24-45, 24-51, 24-54, 24-55	4.36	32 C	1799-66						11814	4	11813	10	131-BY	208-A	
Early 24-47, 24-48, 24-49, 24-50	4.72	32 C	1799-66						11814	4	11812	11	131-BX	208-A	1924
Early 24-34, 24-35	4.66	31	1799-66			See Note			15433		15431	12	131-A	189-E	
Late Master 6-44-45-48-49-50															
Late 24-41-45-51-54-55	4.36	32 C	18600-66	Replac	ing A.C.	Speedo	meters						131-BY* or 131-BX*	216-E	
Late Standard 24, 25, 26, 27, 28			18600-48	Replac	ing A.C.	Speedo	meters						131-CM	215-A	
Late Standard 24, 25, 26, 27, 28			18600-48	Replac	ing A.C.	Speedo	meters						131-CM 131-DH*	215-F	
Late Master 44-5, 48, 49, 50			18600-60	Replac	ing A.C.	Speedo	meters						131-DH* or 131-DJ* 131-BY* or 131-BX*	215-E	
Late 24-47, 48, 49, 50	4.72	32 C	18600-66	Replac	ing A.C.	Speedo	meters							216-E	
Early 48, 49, 50 and 49X	4.9	34x4½ C	1799-66						11814	4	11812	11	131-A	189-E	1925
Early 44, 45, 46 and 45X	4.62	33 C	1799-66						11814	4	11812	11	131-A	189-E	
Early 24-41, 24-45, 24-51, 24-54, 24-55	4.36	32	1799-66						11814	4	11813	10	131-A	189-E	
Standard 6			18600-48	Replac	ing A.C.	Speedo	meters						131-CM		
Master 6			18600-60	Replac	ing A.C.	Speedo	meters						131-DJ		
Master 6			18600-60	Replac	ing A.C.	Speedo	meters						131-DH	216-D	
Master														216-U	1926
Standard														215-T	

NOTE: On cars using 15433 and 15431 gears, there is an intermediate ratio between transmission shaft and speedometer drive gear of 28 to 20.

\*131-DH—Black dial. 131-BX—Black dial. 131-DJ—Maroon dial. 131-BY—Maroon dial.

CADILLAC

Model	Shaft	Core	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Year
57	22015-77½	22039					251-E	1921
57—Midseason Change	22015-80	22039		GEARS			251-E	
59	22024-52	22002					259-A	1922
59—Midseason Change	22024-52	22002		FURNISHED			250-BH	
59—Midseason Change	22024-52	22002					261-A	
61	22024-54	22002			BY		263-B	1923
63	13700-58	13910					79-C	1924
63—Midseason Change	13700-58	13910		CADILLAC			79-G	
63—Midseason Change	13700-58	13910					79-K	
63—Midseason Change	13700-62	13910					79-K	

Vacuum Tank—All Models—215-AB, 1927

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CHANDLER

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Swivel Joint	Clamp	Bar	Adapt-or	Speed-ometer Head	Vacuum Tanks	Year
.....	4.41	33	1799-57	11661	53	3376	35	1961	11078	2398	.....	131-A	.....	1921
.....	4.41	33	1799-57		Chandler	ma	kes	Sleeve	Bush.	Key		131-B	.....	1922
.....	4.41	33	1799-57		Chandler	ma	kes	thes	e	parts		131-C	177-D	
.....			1799-60		Chandler	ma	kes	thes	e	parts		131-C	177-D	1923
.....			1799-57		Chandler	ma	kes	thes	e	parts		131-B	177-AE	
Model 11	.....	.....	17777-60		Chandler	ma	kes	thes	e	parts		131-CH	216-A	
.....	.....	.....	1799-60		Chandler	ma	kes	thes	e	parts		131-CH	.....	1924
.....	.....	33x6 Ball.	13700-60		6	.....	16	.....	.....	.....	21934	.....	.....	
.....	3.75	33x6	17777-60		Chandler	ma	kes	thes	e	parts		131-CH	.....	
.....	.....	.....	.....		6	.....	16	.....	.....	.....	14412	131-CH	.....	
.....	4.45	33x6	13600-63		Chandler	ma	kes	thes	e	parts		131-CH	.....	1925
.....	.....	.....	13600-63		6	.....	16	.....	.....	.....		131-DT	.....	

CHEVROLET

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Speed-ometer Model	Vacuum Tanks	Year
G Truck.....	5.428	34x4 1/2	1799-55	13196	4	13197	13	131-B	.....	
490.....	3.66	30x3 1/2 F	.....	.....	.....	.....	.....	.....	.....	1921
490.....	3.78	30x3 1/2	.....	.....	.....	.....	.....	.....	.....	
G Truck.....	6.33	34x4 1/2	.....	.....	.....	.....	.....	.....	.....	
G Truck.....	5.428	34x4 1/2 F	1799-52	13196	5	13197	13	131-A	.....	
G-M-P Truck-Martin Perrybody.....	5.428	34x4 1/2 F	1799-52	11433	4	11434	12	131-A	.....	1922
490.....	3.78	30x3 1/2 F	1799-60	16066	4	16067	10	131-A	.....	
Light Delivery.....	3.78	30x3 1/2 F	1799-46	11433	5	11434	12	131-A	.....	
Superior.....	3.78	30x3 1/2 F	1799-60	11433	5	11434	12	131-A	.....	1923
490.....	3.78	30x3 1/2 F	1799-46	11433	5	11434	12	131-A	189-A	
Sup. Tour., Road., Com. Chs., Tour. Chs.	3.78	30x3 1/2 F	18600-60	Furn.	.....	.....	.....	131-CF	.....	1924
Sup. Sedan, Coach, Coupe 2, Coupe 4..	3.78	30x3 1/2 C	18600-60	withCar	.....	.....	.....	.....	.....	
Midseason Change Superior.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Sup. K. Tour., Road. Com. Chs., Tour. Chs.	3.82	30x3 1/2 F	18600-60	.....	.....	.....	.....	131-DD	215-G	1925
Sup. K. Sedan Coach Coupe.....	3.82	29x4.40 B	18600-60	.....	.....	.....	.....	131-DD	215-G	
Sup. K. Utility Express.....	6.33	34x4 1/2 C	.....	.....	.....	.....	.....	.....	215-G	
All.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
All.....	.....	.....	.....	.....	.....	.....	.....	.....	477-A	1926
.....	.....	.....	.....	.....	.....	.....	.....	.....	477-B	

CHRYSLER

Model	Vacuum Tank	Year
Chrysler 6...70.....	215-A	
.....	215-C	1924
"G" Export Only...80.....	187-T	
E.....80.....	178-T	
G.....	215-A	1925
.....	215-R	
.....	215-C	
70.....	215-W	
H-G—6-cyl.....	215-R	1926

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CLEVELAND

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Vacuum Tanks	Year
40—Serial No. 1000 to 24999 . . . . .	4.45	32x4 F	22000-48	20292	13	20264	14	251-AX	.....	1921
41—Serial No. 25000 to 33800 . . . . .	4.45	32x4 F	22000-48	20292	13	20264	14	250-AM	.....	1922
41—Serial No. 33800 to 39999 . . . . .	4.9	32x4 C	1799-58		6		16	131-A	122-D	
41—Serial No. 33800 to 39999 . . . . .	4.9	32x4 C	1799-58		6		16	131-AP	.....	
41—Serial No. 33800 to 39999 . . . . .	4.9	32x4 C	1799-58		6		16	131-A	189-A	
41—Serial No. 33800 to 39999 . . . . .	4.9	32x4 C	1799-50	Gears Made by Cleveland	6	Gears Made by Cleveland	16	131-A	189-A	1923
42—Serial No. 40000 to 59999 . . . . .	4.9	31x4 C	1799-58		4		12	131-A	189-A	1924
43—Serial No. 60000 to 65500 . . . . .	4.9	21x5.25 B	.....	Gears Made by Cleveland	4	Gears Made by Cleveland	12	131-CN	215-A	1925
43—Serial No. 60000 to 65500 . . . . .	4.9	21x5.25 B	1799-58		4		12	131-CN	215-A	
43—Serial No. 65501 to 65500 . . . . .	4.9	21x5.25 B	13700-58		4		12	131-CN	215-A	
31—Serial No. 65501 to 65500 . . . . .	4.9	21x4.75 B	13700-54		4		13	131-CN	215-A	
STANDARD 6, Model 31 . . . . .	4.9 to 1	30x4.75	13600-54		.....		.....	131-CN	215-A	
Special 6, Model 31 . . . . .	4.9 to 1	31x5.25	13600-58		.....		.....	131-CN	215-A	
43—Standard 6 . . . . .	4.9	31x5.25	13600-58	Gears Made by Cleveland	4	Gears Made by Cleveland	12	280-U	215-A	1926
43—Standard 6 . . . . .	3.77	31x5.25	13600-58		6		14	280-U	215-A	
43—Standard 6 . . . . .	5.4	31x5.25	13600-58		3		10	280-U	215-A	
31—Light 6 . . . . .	4.9	31x5.25	13600-54		4		13	280-U	215-A	

DODGE

Model	Axle Ratio	Tire Size	Shaft	Adaptor	Vacuum Tanks	Speedometer Model	Year
Early Tour. Replacement of N. E. Speedometers . . . . .	3.9	32	14000-19	16394	.....	131-AV	1923
Early Sedan Replacement of N. E. Speedometers . . . . .	3.9	32	14000-22	16394	.....	131-AV	
Late Truck Replacement of N. E. Speedometers . . . . .	3.9	32	14000-19	16394	.....	131-AV	
All Replacement of N. E. Speedometers . . . . .	.....	.....	14000-18	16394	215-H	131-AV	1924
All Replacement of N. E. Speedometers . . . . .	.....	.....	14000-18	16394	215-H	131-AV	1925
All Replacement of N. E. Speedometers . . . . .	.....	.....	.....	.....	215-H	.....	1926

DURANT

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Key or Washer	Speedometer Head	Vacuum Tanks	Year
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	188-J 187-J 189-T	1922
4-cylinder . . . . .	4.37	31	1799-58	13416	4	13417	11	11092	.....	13418	131-BG	.....	1923
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	177-AF 188-L	
4-cylinder . . . . .	4.37	31	1799-58	13416	4	13417	11	11092	.....	13418	131-BG	.....	1924
6-cylinder . . . . .	5.09	32x4½	1799-60	14468	4	12022	12	5080	.....	10763-64	131-A	.....	
4-cylinder . . . . .	4.37	31	1799-58	13416	4	13417	11	11092	.....	13418	131-BG	.....	1925
.....	4.33	30	1799-66	18995	6	18996	17	11092	.....	13418	131-BG	.....	
.....	3.98	30	13600-60	16995	5	13648	16	20312	.....	13418	131-BG	.....	
.....	4.87	30x4.95	13600-60	32534	4	18644	13	20312	.....	13418	280-X	.....	1926

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ESSEX

Model	Tire Size	Axle Ratio	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Key or Washer	Speedometer Model	Vacuum Tanks	Year
4-Cylinder	32x4	4.32	1799-52	11704	6	11705	16	11092	.....	1805	131-B	122-AE	1921
4-Cylinder	32x4	5.09	1799-52	10399	5	10400	16	11092	.....	1805	131-B	122-AE	
4-Cylinder	32x4	4.66	1799-52	10401	6	10402	17	11092	.....	1805	131-B	122-AE	
4-Cylinder	32x4	5.6	1799-52	10556	4	10557	14	11092	.....	1805	131-B	122-AE	
4-Cylinder	32x4	4.66	1799-52	10401	6	10402	17	11092	.....	1805	131-A	179-R	1922
4-Cylinder	32x4	4.66	1799-52	10401	6	10402	17	11092	.....	1805	131-A	188-C	1923
6-Cylinder "C" Late	32x4	5.6	13600-48	17512	4	17513	14	20312	.....	.....	131-A	215-A	
6-Cylinder "C" Early	32x4	5.6	13600-48	17512	4	17513	14	20312	.....	.....	131-A	215-A	1924
6-Cylinder "C" Mid Year	32x4	5.6	13600-50	17512	4	17513	14	20312	.....	.....	131-A	215-A	
6-Cylinder "C" Late	32x4	5.6	13600-54	17512	4	17513	14	20312	.....	.....	131-A	215-A	
6-Cylinder "C"	32x4	5.6	13600-54	17512	4	17513	14	20312	.....	.....	131-A	215-A	1925
6-Cylinder	31x5.25	5.6	13600-58	17512	4	17513	14	20312	.....	.....	280-X	215-X	1926

FLINT

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Key or Washer	Adaptor	Speedometer Model	Vacuum Tank	Year
E-55	4.77	32x6.20	13600-72	16656	4	16657	12	20312	16661	.....	131-BG	.....	1924
Early-40	5.11	5.25x20	1799-66	18958	5	18957	16	11092	13418	.....	131-BG	215-A	
Late-40	5.11-1	30x5.77	1799-66	19077	5	16775	16	11092	13418	.....	131-BG	215-A	
26 E-55	4.77	32x6.20	1799-72	16656	4	16657	12	11092	16661	.....	131-BG	215-A	1925
26 B-40	5.11-1	30x5.77	1799-66	19077	5	16775	16	11092	13418	.....	131-BG	215-A	
Z-18	4.87 to 1	30x5.25	13600-50	30693	5	19978	16	20312	13418	.....	131-BG	.....	
B-40 Late 1925	4.78	30x5.77	1799-66	30592	4	11434	12	11092	13418	.....	131-BG	215-A	
B-40	4.78	30x5.77	1799-66	30592	4	11434	11	11092	13418	.....	131-BG	.....	
E-55	4.-1	32x6.20	1799-72	31053	4	31054	10	11092	16661	.....	131-BG	.....	
E-80 All B-60 All Z-18 All	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	215-U 215-V	1926

FORD

1918 TO 1925 ALL PASSENGER CARS

Speedometer Head	Tire Size	Shaft	Road Gear	Swivel Joint	Pinion	Bar	Clamp	Cotter Pin
160	30 x 3½	1799-66"	11077-60-T	1913	2301	4007-A	3988 Replaces Ford Spindle Nut	1861
160	30 x 3½	1799-66"	13800-36-T	13900	2301	4007-A	1516 Clamps on Spindle Arm (Old)	1861

1918 to 1925 truck models same as above, except Shaft No. 1799-54".

1925 TO 1926 ALL PASSENGER CARS

Speedometer Head	Tire Size	Shaft	Road Gear	Swivel Joint	Pinion	Bar	Clamp	Cotter Pin
160	30 x 3½ C	1799-64"	11077-60-T Wood Wheels	1913	2301	4007-A	3988	1861
160	29 x 4.40 B	1799-64"	30333-58-T Wood Wheels	1913	2301	4007-A	3988	1861
160	29 x 4.40 B	1799-64"	31376-58-T Wire Wheels	1913	2301	4007-A	3988	1861

FORD (Contd.)

1926 ALL PASSENGER CARS—SPIRAL FRONT WHEEL DRIVE

Speedometer Head	Tire Size	Shaft	Road Gear	Drive Joint	Pinion	Clamp	Cotter Pin
490	30 x 3½ P	32200—63"	32255 17-T—8-P	33384	33382 11-T—8-P	34999	2534
490	29 x 4.40 B	32200—63"	32166 16-T—8-P	33384	33381 11-T—8-P	34999	2534

1926 (old) Truck same as above, except Shaft No. 32200—66".

1926 SWIVEL JOINT FRONT WHEEL DRIVE

Speedometer Head	Type of Wheel	Tire Size	Shaft	Road Gear	Swivel Joint	Pinion	Bar	Clamp	Cotter Pin
490	Wood Wheel	30 x 3½ P	33400—66"	11077—60-T	1913	2301	4007-A	3988	1861
490	Wood Wheel	29 x 4.40 B	33400—66"	30333—58-T	1913	2301	4007-A	3988	1861
490	Wire Wheel	29 x 4.40 B	33400—66"	31376—58-T	1913	2301	4007-A	3988	1861

1927 ALL PASSENGER CARS—SPIRAL FRONT WHEEL DRIVE

Speedometer Head	Type of Wheel	Tire Size	Shaft	Road Gear	Drive Joint	Pinion	Clamp	Cotter Pin
490	Wood Wheel	30 x 3½ P	34300—63"	32251 17-T—8-P	33384	33382 11-T—8-P	34999	34455
490	Wood Wheel	29 x 4.40 B	34300—63"	32166 16-T—8-P	33384	33382 11-T—8-P	34999	34455
490	Wire Wheel	29 x 4.40 B	34300—63"	35010 16-T—8/10-P	33384	35011 11-T—8/10-P	35013	34455
160	Wire Wheel	29 x 4.40 B	35000—62"	35010 16-T—8/10-P	33384	35011 11-T—8/10-P	35013	34455

Trucks same as above, except Shaft 34300—66".

GARDNER

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Thrust Washer	Key or Washer	Adapt-or	Speedometer Model	Vacuum Tanks	Year
All Models, except Sedan.	4.8	32x3½ F	1799-50	12252	4	11597	11	5080	843	.....	.....	131-B	122-D	1921
Sedan.....	4.8	32x4 F	1799-50	12252	4	11597	11	5080	843	.....	.....	131-B	122-D	
All cars to 10464-A.....	4.42	32x4 C	1799-50	12252	4	11597	11	5080	843	.....	.....	131-B	122-D	1922
All cars to 10884-A.....	4.6	32x4 C	1799-50	12252	4	11597	11	5080	843	.....	.....	131-B	122-D	
Sedans after 10885-A.....	4.8	32x4 C	1799-50	12252	4	11597	11	5080	843	.....	.....	131-B	122-D	
All Models.....	4.8	32x4 C	1799-50	15935	6	12175	17	11092	15936	.....	.....	131-B	189-D	1923
All Models—28984-C.....	4.8	32x4 C	1799-50	15835	6	12175	17	11092	15936	.....	.....	131-B	189-D	1924
All Models after 28985-C..	4.8	32x4 C	1799-50	15935	6	12175	17	11092	15936	.....	.....	131-B	215-A	
All Models, except Radio..	.....	32x4 C	1799-50	15935	6	12175	17	11092	15936	.....	.....	131-B	.....	1925
Sedan and Tour. De Luxe.	4.8	32x4 C	1799-50	15935	6	12175	17	11092	15936	.....	.....	131-B	.....	
Tour. De Luxe and Radio	.....	32x4 C	1799-50	15935	6	12175	17	11092	15936	.....	.....	131-B	.....	
Sedan.....	4.8	31x5.25 B	1799-50	15935	6	12175	17	11092	15936	.....	.....	131-B	215-A	
8-Cylinder.....	4.6	30x5.77 B	13700-44	19714	6	19715	17	20312	.....	15937	.....	131-DE	187-S	

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

GARDNER—(Contd.)

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Thrust Washer	Key or Washer	Adapt-or	Speed-ometer Model	Vac-uum Tanks	Year	
6-Cylinder.....	4.9	31x5.25	13700-44	15895	5	14338	16	20312	.....	15937	.....	280-S	.....	1926	
8-Cylinder.....	4.63	32x6.00	13700-44	16114	6	17958	17	20312	.....	15937	.....	280-S	.....		
8-Cylinder.....	5.1	32x6.00	13700-44	15895	5	14338	16	20312	.....	15937	.....	280-S	.....		
6-8-Cylinder.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30880	.....	.....		
										<b>Bush.</b>					
Small, 8-Cylinder.....	4.56	30x6.00 30x5.25	13700-44	15778	4	14340	12	20312	1870	3213	30880	280-S	216-K	1927	
Small, 8-Cylinder.....	4.9	30x6.00 30x5.25	13700-44	17120	3	31406	10	20312	1870	3213	30880	280-S	216-K		
Small, 8-Cylinder.....	5.3	30x6.00 30x5.25	13700-44	34637	3	18903	11	20312	1870	3213	30880	280-S	216-K		
Big, 8-Cylinder.....	4.25	32x6.00 32x6.20	13700-44	16232	6	19559	16	20312	1870	3213	30880	280-S	187-S		
Big, 8-Cylinder.....	4.6	32x6.00 32x6.20	13700-44	15778	4	14340	12	20312	1870	3213	30880	280-S	187-S		
Big, 8-Cylinder.....	5.1	32x6.00 32x6.20	13700-44	17120	3	31406	10	20312	1870	3213	30880	280-S	187-S		
.....	4.3	30x6.00	13700-44	16114	6	17958	17	20312	1870	3213	30880	280-S	.....		

HUDSON

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Swivel Joint	Clamp	Angle Bar	Misc.	Adaptor	Speed-ometer Model	Vac-uum Tank	Year
Super Six.....	4.9	34 C	1799-42	280	63	2363	19	1962 Sleeve	3614 Bushing	2398-B Key	.....	.....	131-A	113-U	1921
Super Six.....	4.9	34 C	1799-52	13594	4	13595	11	11092	.....	.....	13596	.....	131-A	113-R	
Super Six.....	4.81	34 C	1799-52	13594	4	13595	11	11092	.....	.....	13596	.....	131-A	113-R	
Super Six.....	4.45	34 C	1799-52	13594	4	13597	10	11092	.....	.....	13596	.....	131-A	113-R	
Super Six.....	4.81	34 C	13600-54	13594	4	14525	11	20312	.....	.....	13596	.....	131-A	113-AD	1922
Super Six.....	4.9	34 C	13600-54	13594	4	14525	11	20312	.....	.....	13596	.....	131-A	113-AD	
Super Six.....	4.08	32 C	13600-54	13594	4	14524	10	20312	.....	.....	13596	.....	131-A	113-AD	
Super Six.....	4.9	33 C	13600-54	15241	6	14108	17	20312	.....	.....	13596	.....	131-A	113-AD	
Super Six.....	4.81	33 C	13600-54	15241	6	14108	17	20312	.....	.....	13596	.....	131-A	113-AD	
Super Six.....	4.45	34 C	13600-54	13594	4	14524	10	20312	.....	.....	13596	.....	131-A	113-AD	
Super Six.....	4.45	34 C	13600-54	13594	4	14524	10	.....	.....	.....	13596	.....	131-A	177-R	1923
Super Six—Early	4.45	34 C	13600-54	13594	4	14524	10	20312	.....	.....	13596	.....	131-A	216-A	1924
Super Six—Late.	4.45	34 C	13600-60	13594	4	14524	10	20312	.....	.....	13596	.....	131-A	216-A	
Super Six.....	4.45	32 C	13600-54	18143	6	18144	16	20312	.....	.....	13596	.....	131-A	216-A	
Super Six.....	4.45	33x6.2 B	13600-60	18143	6	18144	16	20312	.....	.....	13596	.....	131-A	216-A	1925
Super Six.....	4.45	32 C	13600-59	18143	6	18144	16	20312	.....	.....	13596	.....	131-A	216-A	
Hudson Six.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	216-W	1926
Super Six.....	4.45	33x600	13600-60	18143	6	18144	6	30212	.....	.....	13596	.....	280-X	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	280-BG	.....	
Super Six.....	4.08	31x6.00	13600-60	34924	5	34925	13	30212	.....	.....	13596	.....	280-BG	216-W	1927

HUPMOBILE

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Key	Misc. Grom-met	Speed-ometer Model	Vac-uum Tanks	Year
Early Series R—All.	4.875	32x4 C	22000-45	20248	9	20247	11	20312	11012	3213	33847	250-AH	113-AK	1921
Late Series R—All.	4.875	32x4 C	13600-48	13562	4	13633	12	20312	11012	3213	33847	131-BH	113-AK	



HUPMOBILE (Contd.)

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Key	Misc. Grommet	Speedometer Model	Vacuum Tanks	Year
Early Series R—All.	4.875	32x4 C	13600-48	13562	4	13633	12	20312	11012	3213	33847	131-BH	177-N	1922
Late Series R—All..	4.875	32x4 C	13600-54	13562	4	13633	12	20312	11012	3213	33847	131-BH	177-N	
Early Series R—All.	4.875	32x4 C	13600-54	13562	4	13633	12	20312	11012	3213	33847	131-BH	177-N	1923
Late Series R—All..	4.875	32x4 C	13600-54	13562	4	13633	12	20312	11012	3213	33847	131-BH	177-N	
Early Series R—All.	4.875	32x4 C	13600-54	13562	4	13633	12	20312	11012	3213	33847	131-BZ	177-AD	1924
Late Series R—All..	4.90	31x5.25 B	13600-54	13562	4	13633	12	20312	11012	3213	33847	131-BZ	177-AD	
Early Series E—All.	4.63	33x6 B	13600-58	11538	6	13647	17	20312	.....	3213	33847	131-CV	216-A	1925
Early Series E—All.	4.64	31x5.77 B	13600-58	14601	4	14602	12	20312	.....	3213	33847	131-CV	216-A	
E—8-cylinder.....	4.64	33x6	13600-62	11538	6	13647	17	20312	.....	3213	33847	131-CV	216-L	
E—8-cylinder.....	4.90	33x6	13600-62	19090	5	19091	15	20312	.....	3213	33847	131-CV	216-L	
A-1.....	4.89	30x5.25	13600-60	30963	5	13648	16	20312	.....	3213	33847	280-H	216-L	1926
E2—8-cylinder.....	4.3	33x600	13600-62	11316	6	13648	16	20312	.....	3213	33847	131-CV	187-V	
A—6-cylinder.....	5.22	30x5.25	13600-60	32361	4	32362	13	20312	.....	3213	33847	280-H	216-L	
E2—8-cylinder.....	4.9	33x6.00	13600-62	32361	4	32362	13	20312	.....	3213	33847	280-H	187-V	
E2—8-cylinder.....	4.9	33x6.00	34333-62	32361	4	32362	13	20312	.....	3213	33847	280-H	187-W	
A-1—6-cylinder....	4.89	30x5.25	13600-60	33417	4	32362	13	20312	.....	3213	33847	280-H	216-Y	
A-1—6-cylinder....	5.22	30x5.25	13600-60	33417	4	32363	14	20312	.....	3213	33847	280-H	216-Y	
A—6-cylinder.....	4.89	30x5.25	13600-60	33417	4	32362	13	20312	.....	3213	33847	280-BC	216-Y	
E-3—8-cylinder....	4.9	32x6.	13600-62	34873	5	34874	16	20312	.....	.....	33847	280-BH	.....	
E-3—8-cylinder....	5.3	32x6.00	13600-62	34873	5	34874	17	20312	.....	.....	33848	280-BH	.....	

Note: 34333 shaft is the same as 13600, except that it has a spring steel band re-enforcement at upper end.

INTERNATIONAL HARVESTER CO.

1925

NOTE:—On all "S" and "SL" models the adaptor is put on at the head end of flexible shaft.

The following equipment is used on "S" and "SL" models.

- 131-A Speedometer Head
- 13600-50 Shaft
- 18643-(4) Drive Gear
- 18644-(13-T) Driven Gear
- 20312 Sleeve
- 11012 Bushing
- 3213 Key

Axle Ratio	Tire Size	Adaptor	Axle Ratio	Tire Size	Adaptor
5.38	32x4 1/2 P	None	7.07	32x4 1/2	14421
5.38	33x5-6 P	13000	7.07	33x6-7 P	14414
5.38	30x5	14411	7.07	34x5-7 P	14413
5.38	34x5-7 P	14420	7.07	36x6 P	14418
5.38	36x6 P	14409	7.07	30x5	16670
6.38	32x4 1/2 P	14418			
6.38	33x5-6 P	14412			
6.38	30x5	14413			
6.38	34x5-7 P	14419			
6.38	36x6 P	14411			

1925

NOTE:—On all "S" and "SL" models the adaptor is put on at the head end of flexible shaft.

The following equipment is used on "S" and "SL" models:

- 131-A Speedometer Head
- 13600-50 Shaft
- 18643-(4-T) Drive Gear
- 18644-(13-T) Driven Gear
- 20312 Sleeve
- 11012 Bushing
- 3213 Key

Axle Ratio	Tire Size	Adaptor	Axle Ratio	Tire Size	Adaptor
5.33	30x5	None	6.3	34x5-7	13000
5.33	32x4-6	14420	6.3	36x6	None
5.33	34x5-7	14408	7.07	30x5	14414
5.33	36x6	14407	7.07	32x4 1/2-6	14418
6.3	30x5	14412	7.07	34x5-7	14412
6.3	32x6	14419	7.07	36x6	14419

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

INTERNATIONAL HARVESTER CO. (Contd.)

1926

The following equipment is used on all the "Fourteen Special Delivery" models:

131-DV Speedometer Head  
13600-50 Shaft  
3213 Key  
20312 Sleeve  
11012 Bushing

Axle Ratio	Tire Size	Drive Gear	Driven Gear
4.45	32x4½	33034—(4-T)	30987—(11-T)
4.1	32x4½	33036—(4-T)	33037—(10-T)
4.9	32x4½	30473—(4-T)	14602—(12-T)

1926

Model	Shaft	Drive Gear	Driven Gear	Sleeve	Bushing	Key	Speedometer Head
.....	13600-52	34422-2	34423-10	11092	11012	3213	280-X

1926

The following equipment is used on all "Fourteen Special Delivery" models.

280-X Speedometer Head  
13600-50" Shaft (L. H. Drive)  
13600-60" Shaft (R. H. Drive)  
33034-4 Drive Gear  
20312 Sleeve  
11012 Bushing  
15937 Key  
30987-11 Driven Gear

Note:—All adaptors to be installed at upper end of shaft.

Tire Size	Axle Ratio	Adaptor	Tire Size	Axle Ratio	Adaptor
32x4½	4.45	None	33x5	4.9	14411
33x5	4.45	14410	32x4½	4.9	14419

"Fourteen Special Delivery"

Note:—All adaptors to be installed at upper end of shaft.

Same equipment as above, except substituting the below listed parts.

131-DV Speedometer Head  
13600-52 Shaft (L. H. Drive)  
13600-40 Shaft (R. H. Drive)

1926

The following equipment is used on all "S," "SD," "SL" models.

280-X Speedometer Head  
13600-52 Shaft (R. and L. H. Drive)  
18643-4 Drive Gear  
3213 Key  
18644-13 Driven Gear  
11012 Bushing  
20312 Sleeve

Note:—All adaptors to be installed at upper end of shaft.

Axle Ratio	Tire Size	Adaptor	Axle Ratio	Tire Size	Adaptor	Axle Ratio	Tire Size	Adaptor
5.33	32x4½	None	6.125	34x7	14411	6.625	32x6	14418
5.33	30x5	14411	6.125	36x8	14411	6.625	33x5	14418
5.33	32x6	None	6.25	30x5	14421	6.625	34x7	14412
5.33	33x5	None	6.25	32x4½	14413	6.625	36x8	14419
5.33	34x7	14410	6.25	32x6	14418	6.878	30x5	14415
5.33	36x8	14409	6.25	33x5	14418	6.878	32x4½	14421
5.66	30x5	14412	6.25	34x7	14412	6.878	32x6	14413
5.66	32x4½	14411	6.25	36x8	14411	6.878	33x5	14413
5.66	32x6	14411	6.375	30x5	14414	6.878	34x7	14418
5.66	33x6	13000	6.375	32x4½	14418	6.878	36x8	14412
5.66	34x7	None	6.375	32x6	14412	7.57	30x5	14423
5.66	36x8	14410	6.375	33x5	14412	7.57	32x4½	16670
6.125	30x5	14414	6.375	34x7	14419	7.57	32x6	14415
6.125	32x4½	14413	6.375	36x8	14411	7.57	33x6	14415
6.125	32x6	14418	6.625	30x5	14421	7.57	34x7	14421
6.125	33x5	14409	6.625	32x4½	14413	7.57	36x8	14413

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

JEWETT

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush	Key	Adapt-or	Speed-ometer Model	Vacuum Tanks	Year
18-22-6-60	4.54	31x4 C	1799-54	14630	5	11294	14	11092	.....	7213	.....	131-A	122-D	1922
18-22-6-60	4.54	31x4 C	1799-52	14630	5	11294	14	11092	.....	3213	.....	131-A	.....	
18-22-6-60	4.54	31x4 C	1799-58	14630	5	11294	14	11092	.....	3213	.....	131-A	189-A	1923
23-25-6-60	4.54	5.25/21 B	13600-58	15778	4	14340	12	20312	.....	3213	.....	131-DB	216-A	1924
6-55.....	4.54	5.2	13600-58	15778	4	14340	12	20312	.....	3213	.....	131-DB	216-A	1925
23-25.....	4.45	31x5.25	13600-58	14630	5	15467	14	20312	.....	3213	.....	131-DB	.....	1926
25-26.....	4.9	29x4.75	13600-58	17120	3	314 6	10	20312	.....	3213	.....	280-P	.....	

JORDAN

Model	Axle Ratio	Tire Size	Shaft	Core	Sleeve	Bush'g	Drive Gear	Teeth	Driven Gear	Teeth	Speed-ometer Model	Inst. Pan'l	Vacuum Tanks	Year	
M.....	4.66	32x4	13600-45	13637	.....	.....	20238	2	20243	12	250-CH	.....	113-V	1921	
F.....	4.08	32x4 1/2 C	13600-45	13637	.....	.....	20238	2	20243	12	250-CJ	.....	113-V		
MX Open Car.....	4.41	32x4 C	13600-48	13637	.....	.....	11315	6	13648	16	131-BJ	.....	113-V		
MX Closed Car.....	4.66	32x4 C	13600-48	13637	.....	.....	11538	6	13647	17	131-BJ	.....	113-V		
MX Special Equipment.....	5.09	32x4 C	13600-48	13637	.....	.....	14601	4	14602	12	131-BJ	.....	113-V	1922	
MX Open Car Send Up 22797	4.41	32x4 C	13600-48	13637	.....	.....	11315	6	13648	16	131-BJ	.....	113-V		
MX Closed Cars Send Up 22797.....	4.66	32x4 1/2 C	13600-48	13637	.....	.....	11538	6	13647	17	131-BJ	.....	113-V		
MX Open Cars Above 22797	4.41	32x4 C	13600-44	13637	.....	.....	11315	6	13648	16	131-BJ	.....	113-V		
MX Closed Cars Above 22797	4.66	32x4 1/2 C	13600-44	13637	.....	.....	11538	6	13647	17	131-BJ	.....	113-V		
MX Special Equipment.....	5.09	32x4 C	13600-44	13637	.....	.....	14601	4	14602	12	131-BJ	.....	113-V		
MX Special H—Special.....	5.09	32x4 C	13600-44	13637	.....	.....	14601	4	14602	12	131-BJ	.....	113-V		
MX H Open Car.....	4.41	32x4 C	13600-48	13637	.....	.....	11315	6	13648	16	131-BJ	.....	113-V		
MX H Closed Car.....	4.66	32x4 1/2 C	13600-48	13637	.....	.....	11538	6	13647	17	131-BJ	.....	113-V		
F Touring.....	4.08	32x4 1/2 C	13600-51	13637	.....	.....	9743	6	14716	15	131-BJ	.....	113-V		
MX or H Open Car.....	4.42	32x4 C	13600-44	13637	.....	.....	11315	6	13648	16	131-BJ	.....	113-V		1923
MX or H Closed Car.....	4.67	32x4 1/2 C	13600-44	13637	.....	.....	11538	6	13647	17	131-BJ	.....	113-V		
MX or H Special Ratio Closed	5.09	32x4 1/2 C	13600-44	13637	.....	.....	14601	4	14602	12	131-BJ	.....	113-V		
MX or 2 Wheel Brake Open.	4.41	32x4 C	13600-44	13637	.....	.....	11315	6	13648	16	131-BJ	.....	177-J	1924	
MX or H 2 Wheel Brake Cl.	4.67	32x4 1/2 C	13600-44	13637	.....	.....	13538	5	13647	17	131-BJ	.....	177-J		
MX or H 2 Wheel Special Ratio Closed.....	5.09	32x4 1/2 C	13600-44	13637	.....	.....	14601	4	14602	12	131-BJ	.....	177-J		
K or L 4 Wheel Brake Open.	4.66	32x6.2 B	13600-46	13637	.....	.....	11538	6	13647	17	131-BJ	.....	177-J		
K or L 4 Wheel Brake Closed	4.64	32x6.2 B	13600-46	13637	.....	.....	11538	6	13647	17	131-BJ	.....	177-J		
K or L 4 Wheel Brake Special Ratio Closed.....	5.1	32x6.2 B	13600-46	13637	.....	.....	14601	4	14602	12	131-BJ	.....	177-J		
K or L 4 Wheel Brake Open.	4.46	32x4 C	13600-44	13637	.....	.....	11315	6	13648	16	131-BJ	.....	177-J		
K or L 4 Wheel Brake Closed	4.64	32x4 1/2 C	13600-44	13637	.....	.....	11538	6	13647	17	131-BJ	.....	177-J		
K or L 4 Wheel Brake Special Ratio Closed.....	5.1	32x6.2 B	13600-46	13637	.....	.....	14601	4	14602	12	131-BJ	.....	177-J		
J-Line 8.....	4.45-1	30x5.77	13600-48	13637	20312	11012	11538	6	13647	17	221-B	30800	216-A	1926	
Special Ratio J-Line 8.....	4.63-1	30x5.77	13600-48	13637	20312	11012	11315	6	34261	15	221-B	30800	216-A		

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

MARMON MOTOR CAR CO.

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Key	Adaptor	Speedometer Model	Vacuum Tanks	Year
Touring and Sedan Speedster			22035-72								250-CR		1921
			22035-72								252-BA		
			22024-72								252-U		
			22024-72								250-AT		
			22024-72								250-BR		
			22024-72								250-BT		
			22024-72								251-BB		
			22024-72								252-AU		
			22035-72								252-AU		1922
			22035-72								250-BR		
			22035-72								252-BC		
			13700-78								79-F	178-D	1923
			13700-78								79-F	178-D	1924
												178-D	1925
												178-D 178-V	1926
"L" Roadster	4.7	29x5.25	13600-50	34755	4	18644	13	20312	3213		280-BD	216-B	
"L" Closed Car	5.1	29x5.25	13600-50	34756	4	30167		20312	3213		280-BD	216-B	
"L" Mountain Country	5.56	29x5.25	13600-50	34802	4	34803	15	20312	3213		280-BD	216-B	
"L" Ex. Cars	4.9	29x5.25	13600-50	34754	5	13647	17	20312	3213		280-BD		

GEARS ARE FURNISHED BY NOR DYKE & MARMON

MOON

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Bush.	Sleeve	Key	Adaptor	Speedometer Model	Vacuum Tanks	Year
6-48	4.66	32x4 1/2 F	1799-57	10608	6	10609	17		11092			131-J	122-D	1921
6-48	4.66	32x4 1/2 F	1799-57	10608	6	10609	17		11092			131-B	122-AF	
6-40	4.625	31x4 C	1799-56	14629	4	5379	12		11092	3213		131-B	177-X	1922
6-40	4.45	31x4 C	1799-56	13993	5	11294	14		11092	3213		131-B	177-X	
6-48	4.66	32x4 1/2 F	1799-56	14660	6	16609	17		11092	3213		131-J	177-X	
6-40	4.45	31x4 C	1799-48	13993	5	11294	14		11092	3213		131-B	177-X	
6-58	5.09	32x4 1/2 C	1799-56	14660	6	10609	17		11092	3213		131-B	113-V	
6-40	4.8	31x4 C	1799-54	15778	4	5379	12		11092	3213		131-B	189-A	
6-50	4.8	31x4 C	1799-56	15778	4	5379	12		11092	3213		131-B	189-A	1923
6-58	5.09	32x4 1/2 C	1799-56	14660	6	10609	17		11092	3213		131-B	113-V	
Series A	4.7	31x4 C	13600-50	15778	4	14340	12		20312	3213		131-CJ	215-A	
6-40	5.1	31x4 C	1799-54	15778	4	5379	12		11092	3213		131-B	215-A	1924
6-50	5.1	31x4 C	1799-54	15778	4	5379	12		11092	3213		131-B	215-A	
Series A	4.7	30x5.25 B	13600-50	15778	4	14340	12		20312	3213		131-CJ	215-A	
6-40 Newport	5.1	31x5.25 B	1799-54	15778	4	5379	12		11092	3213		131-B	215-A	1925
6-50 Metropolitan	5.1	31x5.25 B	1799-54	15778	4	5379	12		11092	3213		131-B	215-A	
6-58 London	5.09	32x6.20 B	1799-56	14660	6	10609	17		11092	3213		131-B	113-V	
Diana, 8-cylinder	4.8-1	32x6 B	13600-50	16114	6	17958	17		20312	3213		131-DF	216-A	
W.	4.8	32x6000	13600-50	16114	6	17958	17		20312	3213		131-DF	216-T	
W.	4.7	31x4	13600-50	16114	6	17958	17		20312	3213		131-DF		
Diana	5.1	32x6 B	13600-50	15778	4	14340	12		20312	3213		280-M		
Small 6													215-A 216-A	1926
Diana														
6-60 Roadster	4.3	29x4.95	13600-50	16114	6	17958	17		20312	3213		280-AX		
6-60	4.88	29x4.95	13600-50	17120	3	31406	10		20312	3213		280-AX		

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

NASH SIX

Model	Asle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Wash. or Key	Adapt- or	Speed-ometer Model	Vac-uum Tanks	Year
691—5-Pass. Touring Prior to Serial No. 209845.....	4.5	33x4	1799-50	13649	5	13650	13	5080	1870	9916	.....	131-P	143-A	1921
692—7-Pass. Touring Prior to Serial 208557.....	4.909	34x4½	1799-50	13649	5	13650	13	5080	1870	9916	.....	131-P	143-A	
696 Roadster Prior to Serial 207920.....	4.5	33x4	1799-50	13649	5	13650	13	5080	1870	9916	.....	131-P	143-A	
697—5-Pass. Sport Prior to Serial 205918.....	4.5	33x4	1799-50	13649	5	13650	13	5080	1870	9916	.....	131-P	143-A	
691—5-Pass. Touring Prior to Serial 209845.....	4.5	33x4	1799-50	13649	5	13650	13	5080	1870	9916	.....	131-P	143-A	1922
691—5-Pass. Touring Beginning Serial 209845—256987.....	4.5	33x4	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-P	143-A	
692—7-Pass. Touring Prior to 208557.....	4.909	34x4½	1799-50	13649	5	13650	13	5080	1870	.....	.....	131-P	143-A	
692—7-Pass. Touring Beginning 208557 to 22668.....	4.909	34x4½	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-P	143-A	
693—5-Pass. Sedan all up to 248504.....	4.909	34x4½	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-P	143-A	
694—7-Pass. Sedan Prior to Serial 198490.....	4.909	34x4½	1799-50	13704	6	13705	17	5080	1870	.....	.....	131-P	143-A	
695 Victoria Beginning Serial 200186.....	4.909	34x4½	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-P	143-A	
695 Victoria Prior to Serial 201186.....	4.909	34x4½	1799-50	13704	6	13705	17	5080	1870	.....	.....	131-P	143-A	
696 Roadster Prior to 207920..	4.5	33x4	1799-50	13649	5	13650	13	5080	1870	.....	.....	131-P	143-A	
697—5-Pass. Sport Prior to 205718.....	4.5	33x4	1799-50	13649	5	13650	13	5080	1870	.....	.....	131-P	143-A	
691—5-Pass. Touring Beginning 209845 to 256987.....	4.5	33x4	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-P	143-A	1923
692—7-Pass. Touring Beginning 226668 to 248120.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-P	143-A	
693—5-Pass. Sedan up to 248504	4.909	34x4½	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-P	143-A	
694—7-Pass. Sedan Prior to 198490.....	4.909	34x4½	1799-50	13704	6	13705	17	5080	1870	.....	.....	131-P	143-A	
694—7-Pass. Sedan Beginning 198490 to 240423.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-P	143-A	
695 Victoria Beginning 201186 to 240718.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-P	143-A	
696 Roadster Beginning 207920 to 254852.....	4.5	33x4	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-P	143-A	
697—5-Pass. Sport Beginning 205919 to 251417.....	4.5	33x4	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-P	143-A	
698 Brougham Beginning 242693 to 259009.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-P	143-A	
691—5-Pass. Touring Beginning 256987 and up.....	4.5	33x4	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-CA	216-C	
692—7-Pass. Touring Beginning 248120 and up.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-CA	216-C	
693—5-Pass. Sedan Beginning 248594 and up.....	4.909	34x4½	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-CA	216-C	
694—7-Pass. Sedan Beginning 240423 and up.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-CA	216-C	
695 Victoria Beginning 240718 and up.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-CA	216-C	
696 Roadster Beginning 207920 and up.....	4.5	33x4	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-CA	216-C	
697—5-Pass. Sport Beginning 251417.....	4.5	33x4	1799-50	13974	5	13650	13	5080	1870	.....	.....	131-CA	216-C	
698 Brougham Beginning 259009.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-CA	216-C	
699 Special Sedan all.....	4.909	34x4½	1799-50	13973	6	13705	17	5080	1870	.....	.....	131-CA	216-C	

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

NASH SIX (Contd.)

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Speedometer Model	Vacuum Tanks	Year
161—5-Pass. Touring.....	4.5-1	33x6.00	13600-50	18284	4	13783	11	20312	1870	280-AP	242-A	1925
162—7-Pass. Touring.....												
163—5-Pass. Sedan.....												
166 Roadster.....												
169—5-Pass. Special.....												
164—4-Door Coupe.....	4.909-1	33x6.00	13600-50	18284	4	13783	11	20312	1870	280-AP	242-A	1926
164—7-Pass. Sedan.....												
165 Victoria.....												
*261—5-Pass. Touring.....	4.5-1	33x6.00	13600-50	18284	4	13783	11	20312	1870	280-AP	242-A	1926
*262—7-Pass. Touring.....												
*263—5-Pass. Touring.....												
*266 Roadster.....												
*269—5-Pass. Special.....												
*264—7-Pass. Sedan.....	4.909-1	33x6.00	13600-50	34632	5	34633	15	20312	1870	280-AP	242-A	1927
*265 Victoria.....												
*268—4-Pass. Sedan.....												
271 Sport Model.....	4.15-1	6.00x19	13600-50	34631	6	19075	16	20312	1870	280-AP	.....	1927

\*NOTE—On 261 series having 4.33-1 Axle Ratio and some with 4.909-1 Axle Ratio 31450—5-T Drive Gear and 15984—13-T Driven Gear were used. To correct Speedometer Reading with the 4.33-1 Axle Ratio, use Adaptor 21931. On cars with 4.909-1 Axle Ratio that were equipped with the above gears, use Adaptor 2193-A.

NASH LIGHT SIX

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bushing	Vacuum Tank	Speedometer Head	Year
21-41.....	4.77	4.75x21	13600-48	30173	5	30174	16	20312	11012	215-A	131-DM	1925
21-41.....	4.77	4.75x21	13600-48	30173	5	30174	16	20312	11012	.....	280-AG	1926
.....	3.91	4.75x21	.....	33323	5	33324	13	.....	.....	.....	.....	

NASH FOUR

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Bushing	Sleeve	Speedometer Model	Vacuum Tanks	Year
4-Cyl. 41-42-43-44....	4.88-1	32x3½	1799-50	12027	4	12028	12	1870	5080	131-P	143-A	1921
4-Cyl. 41-42-44-45....	4.88-1	33x4	1799-50	9917	6	11068	17	1870	5080	131-P	122-W	1922
4-Cyl. 41-42-46-47-48-49.....	4.88-1	33x4	1799-50	15263	6	11068	17	1870	5080	131-P	189-V	1923-24
4-Cyl. 41-42-46-47-48-49.....	5.5-1	33x4	1799-50	17270	5	11982	.....	1870	5080	131-CP	189-V	
Spec. 6, 131-132-133-134.....	4.88-1	31x5.25	13600-50	17270	5	18144	16	1870	5080	131-CZ	215-A	1925
Spec. 6, 231-232-233-234-235-236-239....	4.88-1	31x5.25	13600-50	30349	4	17325	13	1870	5080	280-W	215-A	1926
Spec. 6, 231-232-233-235-236-237-239....	4.88-1	31x5.25	13600-50	34928	5	18144	16	1870	5080	280-AP	215-S	1927
Spec. 6, 231-232-233-235-236-239.....	4.66-1	31x5.25	13600-50	30349	4	17325	13	1870	5080	280-AP	215-S	
Spec. 6.....	4.89-1	31x5.25	13600-50	30349	4	18144	16	15264	20312	280-BJ	.....	

## OAKLAND

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Vacuum Tanks	Year
34-C—4 Passenger	4.5	32 F	1799-60	10998	5	10999	14	131-B	122-L	1921
34-C—Sedan and Coupe	4.66	32x4 C	1799-63	14341	6	11074	17	131-B		
34-C—Open	4.66	32x4 C	1799-60	14341	6	11074	17	131-B		
6-44 Open	4.66	32x4 C	1799-60	14341	6	11074	17	131-B		1922
6-44—Sedan and Coupe	4.66	32x4 C	1799-63	14341	6	11074	17	131-B		
34-D—Touring and Roadster, Early Model	4.66	32x4 C	1799-60	14341	6	11074	17	131-B		
34-D—Sedan and Coupe, Early Mod.	4.66	32x4 C	1799-63	14341	6	11074	17	131-B		
6-44—All Bodies Open	4.7	31x4 C	1799-60	11287	4	10981	12	131-B		1923
6-44—All Bodies Closed	4.7	31x4 C	1799-63	11287	4	10981	12	131-B		
6-54—All Models									215-A	1924
6-54—All Models									215-A	1925
6-54—All Models									215-A	1926

## OLDSMOBILE

Model	Axle Ratio	Tire Size	Shaft	Swivel Joint	Clamp	Angle Bar	Pinion	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Vacuum Tanks	Year
46—Big 8	4.91	33x4½ C	1799-38					11287	4	10981	12	131-H	122-D	1921
43-A	4.66	32x4 C	1799-46					12462	6	11068	17	131-H	122-D	
47—Light 8	4.66	32x4 C	1799-46					12462	6	11068	17	131-H	122-D	
43-A—4 Cylinder	4.22	32x4 C	1799-46					13300	5	10762	13	131-H	122-D	
43-A—4 Cylinder	4.18	32x4 C	1799-46					13300	5	10762	13	131-H	122-D	
46—Big 8	4.91	32x4 C	1799-38					11287	4	10981	12	131-H	122-D	1922
43-A—4 Cylinder	4.66	32x4 C	1799-46					12462	6	11068	17	131-H	122-D	
47—Light	4.66	32x4 C	1799-46					12462	6	11068	17	131-H	122-D	
43-A—4 Cylinder	4.22	32x4 C	1799-46					13300	5	10762	13	131-H	122-D	
43-A—4 Cylinder	4.18	32x4 C	1799-46					13300	5	10762	13	131-H	122-D	
47—Light 8	5.1	32x4 C	1799-46					14120	5	9142	15	131-H	122-D	1923
43-A—4 Cylinder	4.7	32x4 C	1799-46					12462	6	11068	17	131-H	189-N	
Economy 1 T. Trk.	6.5	35x5 C	1799-36	1963	9551	4007-A	3372	7352	52			74-A	189-N	
Economy 1 T. Trk.	6.5	35x5 C	1799-36	1963	9551	4007-A	2443	7352	52			74-A	189-N	
Replacement of A. C. Speedometer			18600-39									131-CM		
47—Light 8	5.1	32x4 C	1799-46					14120	5	9142	15	131-H	189-N	1924
43-A—4 Cylinder	4.7	32x4 C	1799-46					12462	6	11068	17	131-H	189-N	
Economy 1 T. Trk.	6.5	35x5 C	1799-36	1963	9551	4007-A	3372	7352	52			74-A	189-N	
Economy 1 T. Trk.	6.5	35x5 C	1799-36	1963	9551	4007-A	2443	7352	52			74-A	189-N	
Replacement of A. C. Speedometer		32x4 C	18600-39									131-CM	189-N	
Replacement of A. C. Speedometer													215-A	1925

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

OVERLAND

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Key	Adapt.	Vacuum Tank	Speedometer Model	Yr.
Little Four—All...	4.5	30x3½ F	1799-48	10930	4	10934	12	11092	.....	.....	.....	.....	131-AT	1921
Little Four—All...	4.5	30x3½ F	1799-48	10930	4	10934	12	11092	.....	.....	.....	.....	131-AT	1922
91—All.....	4.5	30x3½ F	1799-48	10930	4	10934	12	11092	.....	.....	.....	.....	131-AT	1923
91—All.....	4.5	30x3½ F	1799-48	10930	4	10934	12	11092	.....	.....	.....	.....	131-AT	1924
93 6-Cyl.—All....	5.11	31x5.25 B	16700-44	19408	5	19407	17	20312	.....	.....	.....	215-A	131-DA	1925
93 6-Cyl.—All....	5.11	30x5.25 B	16700-44	19408	5	19407	17	20312	.....	.....	.....	215-A	131-DA	
91 4-Cyl.—All....	4.5	30x3½ C	13600-48	19403	6	19404	17	20312	.....	.....	.....	215-A	131-AP	
91 4-Cyl.—All....	4.5	30x5.25 B	13600-48	19403	6	19404	17	20312	.....	.....	.....	215-A	131-AP	
93 6-Cyl.—All....	4.5	30x5.25 B	16700-44	10930	4	19282	12	20312	.....	.....	.....	215-A	131-DA	
93 6-Cyl.—All....	4.77	30x5.25 B	13600-44	19409	5	15348	16	20312	.....	.....	.....	215-A	131-DA	
93-1925-All Mod.	5.11	30x5.25	13600-44	19408	5	19407	17	20312	.....	.....	.....	215-A	131-DA	
6-Cyl.....												216-H	131-DA	
70 Small (C.H.Dr.)	5.11	31x5.25	13600-44	19408	5	19407	17	20312	.....	.....	.....	215-A	131-AT	
6-Cyl.....												216-H		
4-Cyl.....												215-S		
93.....	5.11	(29x4.95) 30x5.25 (29x4.75)	13600-44	19408	5	19407	17	20312	.....	.....	.....		280-AB 131-DA	1926
96.....	4.55	(27x4.40) (29x4.95)	13600-52	32595	4	32596	13	20312	.....	.....	.....		280-AA	
96.....				32595	4	32596	13		.....	.....	.....	216-AB 215-Z		

PAIGE

Model	Axle Ratio	Tire Size	Shaft	Swivel Joint	Clamp	Angle Bar	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Vacuum Tanks	Year
52-19 1½ Ton.....	7	38 C	1799-78	1965	8684	1391-A	8686	60	2378	.....	74-A	122-D	1921
22-19 1½ Ton.....		34 S	1799-78	1965	8682	1391-A	8686	60	2368	.....	74-A	122-D	
17-20 Sales Model 6-66.	4.5	33x4½	1799-54	.....	1870	5080	9990	6	9991	16	131-D	187-A	
17-20, 6-66 Daytona....	3.5	33x4½ C	1799-63	.....	1870	5080	13275	6	13276	12	131-BF	127-B	
17-20 Sales Model 6-66.	4.5	33x4½	1799-54	.....	1870	5080	9990	6	9991	16	131-A	187-A	
17-26, 6-66 Daytona....	3.5	33x4½ C	1799-63	.....	1870	5080	13275	6	13276	12	131-BF	127-B	
15-19 Light Six 6-44....	4.75	32x4 C	1799-63	.....	1870	5080	11230	6	11231	17	131-BA	.....	
6-66 Daytona.....	3.5	33 C	1799-63	3213	.....	11092	15326	6	15327	12	131-BF	.....	
6-66 Standard.....	4.454	33x4½ C	1799-54	3213	.....	11092	15324	5	15325	13	131-A	.....	
6-66 Daytona.....	3.5	33x4½ C	1799-54	3213	.....	11092	15326	6	15327	12	131-A	.....	
21-24.....	4.9	33x4½ C	1799-54	3213	.....	11092	15726	6	16574	17	131-BS	216-A	1924
21-24.....	4.9	6.75-21 B	13600-54	3213	.....	11092	16778	4	16779	12	131-BS	178-P	
25-26.....	4.9	29x4.75	13600-58	3213	.....	20312	17120	3	31406	10	280-G	.....	1925
24-26.....	4.9	32x600	13600-58	3213	.....	20312	15778	4	14340	12	280-P	.....	1926
24-26.....	5.1	32x600	13600-58	3213	.....	20312	17119	4	19205	13	280-P	216-A	
28-26-115 Wh. Base..	4.45	31x5.25	13600-58	3213	.....	20312	14630	5	15467	14	280-P	216-AA	

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES



THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

REO

Model	Axle Ratio	Tire Size	Shaft	Swivel Joint	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Vacuum Tanks	Year
T6-21, U6-21, T6-20.....	4.7	33x4	1799-58	1959	4421	33	3378	63	131-E	122-M	1921
Replacement Job Speed Wagon	4.7	34	1799-56	1959	4421	33	3375	35	131-B	.....	1923
.....	4.7	33	1799-56	1959	4421	33	3378	26	131-B	.....	
.....	4.7	32	1799-56	1959	4421	33	3381	37	131-B	.....	
T6, Taxi V.....										189-M	
T6 Series CO Taxi Y (parcel delivery) W Bus.....										215-A	1924
Replacement Job all models except Speed Wagon.....	4.7	.....	18600-57	.....	.....	.....	.....	.....	131-B	.....	
Speed Wagon.....	4.7	34	18600-54	.....	.....	.....	.....	.....	131-B	.....	
T6-20, U6-21.....	4.7	33x4	1799-58	1959	4421	33	3378	36	131-B	.....	
Replacement Job, all models except Speed Wagon.....	4.7	.....	18600-57	.....	.....	.....	.....	.....	131-B	.....	1925
Speed Wagon.....	4.7	34	18600-54	.....	.....	.....	.....	.....	131-B	.....	
A.....			18600-58	.....	.....	.....	.....	.....	280-BA	.....	1926

RICKENBACKER

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Bush'g	Sleeve	Key or Washer	Adaptor	Speedometer Model	Vacuum Tanks	Year
.....	4.7	32x4 C	1799-54	13993	5	11294	14	.....	11092	3213	.....	131-AS	.....	1921
.....													189-W	1922
.....	5.1	32 C	1799-58	14629	4	5379	12	.....	11092	3213	.....	131-AS	189-W	1923
.....	4.63	32 C	1799-58	14630	5	11294	14	1870	11092	3213	.....	131-AS	.....	
.....	5.1	32 C	1799-58	15778	4	5379	12	1870	11092	3213	.....	131-AS	.....	
.....	4.63	32 C	1799-58	14923	6	11069	17	11012	11092	3213	.....	131-AS	.....	
.....	5.10	32 C	13600-58	15778	4	14340	12	1870	20312	3213	.....	131-AS	.....	
.....	4.63	32 C	13600-58	14923	6	16872	17	11012	20312	3213	.....	131-AS	.....	
.....	5.10	32 C	13700-58	14630	5	15467	14	1870	20312	3213	.....	131-AS	189-W	
.....	5.0	32 C	14000-58	15778	4	5379	12	1870	11092	3213	.....	131-AS	.....	
E-1.....	4.63	33x4 1/2	13700-58	14630	5	15467	14	.....	20312	3213	.....	221-A	216-A	1924
Series C.....	5.10	32 C	13700-58	15778	4	14340	12	.....	20312	3213	.....	131-AS	215-A	
E-8-cylinder.....	5.10	33x4 1/2 C	13700-58	15778	4	14340	12	.....	20312	3213	.....	221-A	216-B	
.....	5.1	5.77-22 B	13700-58	15778	4	14340	12	.....	20312	3213	.....	221-A	.....	
Series D, Mid-season change...								1870	20312	3213	.....		215-G	1925
Series E, 8-cylinder	5.1	33x4 1/2	13700-58	15778	4	14340	12	1870	20312	3213	.....	221-A	216-J	
Series E, 8-cylinder	4.7	33x6.00	13600-52	14630	5	15467	14	1870	20312	3213	.....	131-AS	.....	
Series D.....	4.7	33x6.00	13600-52	30881	5	17145	14	.....	.....	.....	.....	131-AS	.....	
A-8-D-6.....	4.63	31x5.25	13600-58	30473	4	14602	12	11012	20312	15937	.....	131-AS	.....	
8-Cylinder.....													187-A	
Series D, 6-cylinder	4.7	31x5.25	13600-52	15778	4	14340	12	11012	20312	15937	.....	131-AS	.....	1926
6-cyl. Phaet. Coach														
Coupe and Road.	4.7	31x5.25	13600-52	30473	4	14602	12	11012	20312	15937	.....	280-R	.....	
8-cyl.—6-cyl Sedan	4.7	33x6.00	13600-52	33009	5	17145	14	11012	20312	.....	.....	280-R	.....	
6-cyl. Phaet. Coach														
Coupe and Road.	4.7	31x5.25	13600-52	15778	4	14340	12	1870	20312	.....	.....	280-R	.....	
8-cyl.—6-cyl.Sedan	4.7	33x6.00	13600-52	14630	5	15467	14	1870	20312	.....	.....	280-R	.....	
6-cylinder.....													215-U	
8-cylinder.....													187-Y	
6-70 and 8-80.....	4.88	32x6.00	13600-52	33009	5	17145	14	11012	20312	15937	17520	280-AZ	.....	1927
6-70 and 8-80.....	4.88	32x6.00	13600-52	34507	5	13648	16	1870	20312	3213	.....	280-AZ	.....	
8-90.....	4.7	33x6.00	13600-52	14630	5	15467	14	.....	20312	3213	.....	280-AZ	.....	

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

STAR

Model	Axle Ratio	Tire	Shaft	Swivel Joint	Clamp	Misc.	Angle Bar	Drive Gear	Teeth	Driven Gear	Teeth	Speedometer Model	Vacuum Tanks	Yr.
Tour., Roadster, Sedan and Coupe.....	F. W. D.	30	1799-58	1913	1516	.....	4007-A	16077	60	2301	16	160-W	189-G	1922
All Mod. Mid-Season Chgs.			1799-60										188-H	
All Mod. Mid-Season Chge. Touring and Roadster.....	4.875	30	1799-60					16995	5	11316	16	160-W		1923
Sedan and Coupe.....	4.875	30	1799-58		16450	8515	4007-A	16451	56	2348	22	160-W		
	4.875	30	1799-60		16450	8515	4007-A	16451	56	2348	22	160-W		
Star.....	4.33	30	1799-66	Key	Adpt.	Sle'e	Wash.							1924
						20312	13418	18995	6	18996	17	131-BG	215-E	
Star.....	4.33	30	1799-66			11092	13418	18995	6	18996	17	131-BG	215-E	1925
Star.....	3.98	30	13600-60			20312	13418	16995	5	13648	16	131-BG	215-E	
Star, 4-6 Cyl.....	4.87	30x3½ 30x4.95	13600-60			20312	13418	32534	4	18644	13	280-X		1926
Star, 4-6 Cyl.....	4.87		13600-66			20312	13418	16995	5	13648	16	280-X		

STUDEBAKER

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Key	Adapt-or	Speedometer Model	Vacuum Tanks	Year
19-4.....	4.36	32	1799-69	10091	4	10092	11	5080		3213		68		1918
19-6.....	4.	32	1799-69	10095	6	10094	15	5080		3213		68		
19-L6.....	4.33	32	1799-69	10091	4	10092	11	5080		3213		68		
19-L6.....	4.08	32	1799-69	10095	6	10094	15	5080		3213		68		
19 Bep.....	4.	33	1799-69	10093	5	10096	12	5080		3213		68		
19-B-68-TD.....	3.71	33	1799-69	10089	5	10090	11	5080		3213		68		
EGB-6.....	4.	33	1799-69	10093	5	10096	12	5080		3213		68-F		1919
EGB-6.....	3.7	34	1799-69	10089	5	10090	11	5080		3213		68-F		
SH-4.....	4.33	33	1799-69	10706	5	10707	13	5080		3213		131-B		
SH-4.....	4.8	32-33	1799-69	10095	6	10094	15	5080		3213		131-B		
SH-4.....	4.36	32-33	1799-69	10091	4	10092	11	5080		3213		131-B		
EJ.....	4.55	32	11500-54	11950	6	11951	17	5080		3213		131-AS		1920
EJ.....	5.	33	11500-54	11953	4	10096	12	5080		3213		131-AS		
Special 6 Touring and Roadster.....	4.33	32 C	22000-56	20309	9	20311	10	20312		3213		250-AW	177-L	1921
Special 6 Sedan.....	4.33	33 C	22000-56	20309	9	20311	10	20312		3213		250-BB	177-L	
Big 6.....	3.7	33 C	22000-56	20309	9	20311	10	20312		3213		250-BC	177-L	
EJ Light 6 Early.....	4.55	32 C	11500-63	11950	6	11951	17	11092				131-AS	189-R	
Special 6.....	4.33	33 C	22000-56	20309	9	20311	10	20312		3213		250-CS	177-L	
EJ Light 6 Late.....	4.55	32 C	13600-63	11950	6	13783	11	20312				131-AS	189-R	
EJ Light 6 Late.....	5.0	32 C	13600-63	11953	4	13784	12	20312				131-AS	189-R	
EL Tour. and Roadster Spl. 6.....	4.33	32x4 C	13600-58	21597	9	21598	16	20312		3213		250-CN	177-L	
EL Sedan, Coupe Spl. 6.....	4.33	33x4½ C	13600-58	21597	9	21598	16	20312		3213		250-CP	177-L	
EK Sedan, Coupe Big 6.....	4.33	33x4½ C	13600-58	21597	9	21598	16	20312		3213		250-CP	177-L	
EK Tour. and Roadster, Big 6.....	3.71	33x4½ C	13600-58	21597	9	21598	16	20312		3213		250-CM	177-L	
EL Coupe and Sedan Spl. 6.....	3.71	33x4½ C	13600-58	21597	9	21598	16	20313		3213		250-CM	177-L	
EL Touring Special 6.....	3.71	32x4 C	13600-58	21597	9	21598	16	20312		3213		250-CO	177-L	
EJ Light 6.....	4.08	32x4 C	13600-63	12488	6	14327	15	20312		3213		131-AS	189-R	1922
EJ Light 6.....	5.0	32x4 C	13600-53	11953	4	13784	12	20312		3213		131-AS	189-R	
EJ Light 6.....	4.55	32x4 C	13600-63	11950	6	13783	11	20312				131-AS	189-R	
EM Light 6.....	4.08	31x4 C	13600-63	15983	5	15984	13	20312				131-AS	189-R	
EM Light 6.....	4.55	41x4 C	13600-63	15547	6	15548	17	20312				131-AS	189-R	
EM Light 6.....	5.0	31x4 C	13600-63	15981	5	15982	16	20312				131-AS	189-R	

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

STUDEBAKER (Contd.)

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Key	Adapt-or	Speed-ometer Model	Vac-uum Tanks	Year
Early Tour. and Road. Spl. 6.....	4.33	32x4 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CN	177-L	1923
Early EL Sedan Coupe Spl. 6.....	4.33	33x4 1/2 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CP	177-L	
Early EK Sedan Coupe Big 6.....	4.33	33x4 1/2 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CP	177-L	
Early EK Tour. and Road. Big 6...	3.71	33x4 1/2 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CM	177-L	
Early EL Coupe and Sedan Spl. 6...	3.71	33x4 1/2 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CM	177-L	
Early EL Tour. Spl. 6.....	3.71	32x4 C	13600-58	21597	9	21598	16	20312	.....	.....	.....	250-CO	177-L	
EJ Light 6 Early.....	4.08	32x4 C	13600-63	12488	6	14327	15	20312	.....	.....	.....	131-AS	189-R	
EJ Light 6 Early.....	5.0	32x4 C	13600-63	11953	4	13784	12	20312	.....	.....	.....	131-AS	189-R	
EJ Light 6 Early.....	4.55	32x4 C	13600-63	11950	6	13783	11	20312	.....	.....	.....	131-AS	189-R	
EM Light 6 Early.....	4.08	31x4 C	13600-63	15983	5	15984	13	20312	.....	.....	.....	131-AS	189-R	
EM Light 6 Early.....	4.55	31x4 C	13600-63	15547	6	15548	17	20312	.....	.....	.....	131-AS	189-R	
EM Light 6 Early.....	5.0	31x4 C	13600-63	15981	5	15982	16	20312	.....	3213	.....	131-AS	189-R	
EK Tour. and Roadster Late.....	3.71	32x4 C	13600-52	17056	6	17057	15	20312	.....	3213	17030	131-CD	177-L	
EL Tour. and Roadster Late.....	4.33	33x4 1/2 C	13600-58	17056	6	17057	15	20312	.....	3213	17930	131-CD	177-L	
EL Tour. and Roadster Late.....	4.33	32x4 C	13600-58	17056	6	17058	16	20312	.....	3213	17030	131-CD	177-L	
EL Sedan and Coupe.....	4.33	33x4 1/2 C	13600-58	17056	6	17057	15	20312	.....	3213	17030	131-CD	177-L	
EK Sedan and Coupe.....	4.33	33x4 1/2 C	13600-52	17056	6	17057	15	20312	.....	3213	.....	131-CD	189-R	
EK Tour. and Roadster.....	3.71	33x4 1/2 C	13600-52	17056	6	17057	15	20312	.....	3213	17030	131-CD	177-L	
EL Tour. and Road. Spl. 6 Early ..	4.33	32x4 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CN	177-L	
EL Sedan Coupe Spl. 6 Early.....	4.33	33x4 1/2 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CP	177-L	
EK Sedan Coupe Big 6 Early.....	4.33	33x4 1/2 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CP	177-L	
EK Tour. and Road. Big 6 Early ..	3.71	33x4 1/2 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CM	177-L	
EL Coupe and Sedan Spl. 6 Early ..	3.71	33x4 1/2 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CM	177-L	
EL Tour. Spl. 6 Early.....	3.71	32x4 C	13600-58	21597	9	21598	16	20312	.....	3213	.....	250-CO	177-L	
EJ Light 6 Early.....	4.08	32x4 C	13600-58	12488	6	14327	15	20312	.....	.....	.....	131-AS	189-R	
EJ Light 6 Early.....	5.0	32x4 C	13600-63	11953	4	13784	12	20312	.....	.....	.....	131-AS	189-R	
EJ Light 6 Early.....	4.55	32x4 C	13600-63	11950	6	13783	11	20312	.....	.....	.....	131-AS	189-R	
EM Light 6 Early.....	4.08	31x4 C	13600-63	15983	5	15984	13	20312	.....	.....	.....	131-AS	189-R	
EM Light 6 Early.....	4.55	31x4 C	13600-63	15547	6	15548	17	20312	.....	.....	.....	131-AS	189-R	
EM Light 6 Early.....	5.0	31x4 C	13600-63	15981	5	15982	16	20312	.....	.....	.....	131-AS	189-R	
EK Tour. and Road. Late.....	3.71	32x4 C	13600-52	17056	6	17057	15	20312	.....	3213	17030	131-CD	177-L	
EL Tour. and Road. Late.....	4.33	33x4 1/2 C	13600-58	17056	6	17057	15	20312	.....	3213	.....	131-CD	177-L	
EL Tour. and Road. Late.....	4.33	32x4 C	13600-58	17056	6	17058	16	20312	.....	3213	.....	131-CD	177-L	
EL Sedan and Coupe.....	4.33	33x4 1/2 C	13600-58	17056	6	17057	15	20312	.....	3213	.....	131-CD	177-L	
EK Sedan and Coupe.....	4.33	33x4 1/2 C	13600-58	17056	6	17057	15	20312	.....	3213	.....	131-CD	189-R	
EK Tour. and Roadster.....	3.71	33x4 1/2 C	13600-52	17056	6	17057	15	20312	.....	3213	17030	131-CD	177-L	
ER Standard 6 Sedan and 5 Pass. Coupe—2 Wh. Bks.....	4.18	5.25 B	13600-43	18936	4	18954	12	19669	.....	19657	17500	131-CS	215-D	1925
ER Standard 6 Sedan and 5 Pass. Coupe—2 Wh. Bks.....	4.6	5.25 B	13600-43	18936	4	18954	12	19669	.....	19657	18200	131-CS	215-D	
ER Standard 6 Sedan and 5 Pass. Coupe—2 Wh. Bks.....	5.11	5.25 B	13600-43	18936	4	18954	12	19669	.....	19657	18500	131-CS	215-D	
ER Standard 6 Sedan and 5 Pass. Coupe—4 Wh. Bks.....	4.18	5.25 B	13600-43	18660	4	18661	12	19669	.....	.....	17500	131-CS	215-D	
ER Standard 6 Sedan and Road.—4 Wh. Bks.....	4.6	5.25 B	13600-43	18660	4	19439	12	19440	.....	.....	18200	131-CS	215-D	
ER Standard 6 Sedan and Road.—4 Wh. Bks.....	5.11	5.25 B	13600-43	18660	4	18661	13	19669	.....	.....	18500	131-CS	215-D	
ER Standard 6 Phaeton Road.—2 Wh. Bks.....	4.18	5.25 B	13600-43	18936	4	18954	12	19669	.....	19657	17500	131-CS	215-D	
ER Standard 6 Phaeton Road.—4 Wh. Bks.....	4.18	5.25 B	13600-43	18660	4	19439	12	19440	.....	.....	17500	131-CS	215-D	
ER Standard 6 Sedan and 5 Pass. Coupe—4 Wh. Bks.....	4.18	5.25 B	13600-44	18660	4	19439	12	19440	.....	.....	17500	131-CS	215-D	
EP Big 6 Phaeton—2 Wh. Bks.....	3.69	7.30 B	13600-44	18964	5	18965	11	19669	.....	.....	18200	131-CS	216-C	
EP Big 6 Sedan—2 Wh. Bks.....	3.69	7.30 B	13600-44	18964	5	19865	11	19669	.....	.....	18200	131-CS	216-C	
EP Big 6 Sedan and 5 Pass. Coupe—2 Wh. Bks.....	4.36	7.30 B	13600-44	18964	5	18965	11	19669	.....	19657	17900	131-CS	216-C	
EP Big 6 Phaeton—4 Wh. Bks.....	.....	7.30 B	13600-44	18662	5	18663	11	19669	.....	3213	18200	131-CS	216-C	
EP Big 6 Sedan—4 Wh. Bks.....	3.69	7.30 B	13600-44	18662	5	18663	11	19669	.....	3213	18200	131-CS	216-C	
EP Big 6 Sedan and 5 Pass. Coupe—4 Wh. Bks.....	4.36	7.30 B	13600-44	18662	5	18663	11	19669	.....	19657	17900	131-CS	216-C	
EP All Models—2 Wh. Bks.....	4.08	7.30 B	13600-44	18964	5	18965	11	19669	.....	3213	18500	131-CS	216-C	
EP All Models—4 Wh. Bks.....	4.08	7.30 B	13600-44	18662	5	18663	11	19669	.....	3213	18500	131-CS	216-C	

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

STUDEBAKER (Contd.)

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Bush.	Key	Adapt-or	Speed-ometer Model	Vacuum Tanks	Year
EP Big 6—2 Wh. Bks.....	4.9	7.30 B	13600-44	18964	5	18965	11	19669	.....	19657	19400	131-CS	216-C	1925
EP Big 6—4 Wh. Bks.....	4.9	7.30 B	13600-44	18662	5	18663	11	19669	.....	3213	19400	131-CS	216-C	
"EPD" Dual Wheel Chassis.....	4.7-1	32.600	13600-44	18662	5	18663	11	19669	.....	3213	30421	131-CS	.....	
"EPH" Hearse Chassis.....	4.33-1	34x7.30	13600-44	18662	5	18663	11	19669	.....	3213	17900	131-CS	.....	
"EPN" Bus. Chassis, 158" W. B. ....	4.71	34x7.30	13600-44	18662	5	18663	11	19669	.....	3213	30421	131-CS	.....	
"EPA" Bus. Chassis, 184" W. B. ....	4.71	34x7.30	13600-44	18662	5	18663	11	19669	.....	3213	30421	131-CS	.....	
"EPZ" Bus. Chassis, 194" W. B. ....	4.71	34x7.30	13600-44	18662	5	18663	11	19669	.....	3213	30421	131-CS	.....	
"EQ" All Models, 2 Wh. Bks. ....	4.36-1	33x5	13600-44	18964	5	18965	11	19669	.....	19657	19600	131-CS	.....	
"EQ" All Models, 4 Wh. Bks. ....	4.36-1	33x5	13600-44	18662	5	18663	11	19669	.....	3213	19600	131-CS	.....	
EQ Spl. 6 all Models—4 Wh. Bks. ....	4.36	32x6.20	13600-44	18662	5	18663	11	19669	.....	3213	18100	131-CS	216-C	
EQ Spl. 6 all Models—2 Wh. Bks. ....	4.36	32x6.20	.....	18964	5	18965	11	19669	.....	19657	18100	131-CS	216-C	
EQ Spl. 6 all Models—2 Wh. Bks. ....	3.69	32x6.20	.....	18964	5	18965	11	19669	.....	19657	18400	131-CS	216-C	
EQ Spl. 6 all Models—4 Wh. Bks. ....	3.69	32x6.20	.....	18662	5	18663	11	19669	.....	3213	18400	131-CS	216-C	
EQ Spl. 6 all Models—2 Wh. Bks. ....	4.08	32x6.20	.....	18964	5	18965	11	19669	.....	19657	17900	131-CS	216-C	
EQ Spl. 6 all Models—4 Wh. Bks. ....	4.08	32x6.20	.....	18662	5	18663	11	19669	.....	3213	17900	131-CS	216-C	
EQ Spl. 6 all Models—2 Wh. Bks. ....	4.9	32x6.20	.....	18662	5	18965	11	19669	.....	3213	19300	131-CS	216-C	
EQ Spl. 6 all Models—4 Wh. Bks. ....	4.9	32x6.20	.....	18662	5	18663	11	19669	.....	3213	19300	131-CS	216-C	

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Key	Adapt-or	Vacuum Tanks	Speed-ometer Head	Year
"EP", Big 6, 127 Inch Wheel Base, 4 Wheel Brakes.....	4.08	32x6.75	13600-50	18662	5	18965	11	19669	19657	17900	.....	280-L	1926
	3.69	32x6.75	13600-50	18662	5	18965	11	19669	19657	18400	.....	280-L	
	4.36	32x6.75	13600-50	18662	5	18965	11	19669	19657	18100	.....	280-L	
	4.9	32x6.75	13600-50	18662	5	18965	11	19669	19657	19300	.....	280-L	
	4.08	32x6.75	13600-50	18964	5	18965	11	19669	19657	17900	.....	280-L	
	3.69	32x6.75	13600-50	18964	5	18965	11	19669	19657	18400	.....	280-L	
	4.36	32x6.75	13600-50	18964	5	18965	11	19669	19657	18100	.....	280-L	
	4.9	32x6.75	13600-50	18964	5	18965	11	19669	19657	19300	.....	280-L	
	4.36	32x6.00	13600-46	18662	5	18965	11	19669	.....	30421	.....	280-AE	
	4.08	32x6.00	13600-46	18662	5	18965	11	19669	.....	33000	.....	280-AE	
"EQ" Spec. 6, "EP" 120 Inch Wheel Base, 4 Wheel Brakes.....	3.69	32x6.00	13600-46	18662	5	18965	11	19669	.....	18500	.....	280-AE	
	4.9	32x6.00	13600-46	18662	5	18965	11	19669	.....	33200	.....	280-AE	
	4.36	32x6.00	13600-46	18964	5	18965	11	19669	19657	30421	.....	280-AE	
	4.08	32x6.00	13600-46	18964	5	18965	11	19669	19657	33000	.....	280-AE	
"EQ" Spec. 6, "EP" 120 Inch Wheel Base, 2 Wheel Brakes.....	3.69	32x6.00	13600-46	18964	5	18965	11	19669	19657	18500	.....	280-AE	
	4.9	32x6.00	13600-46	18964	5	18965	11	19669	19657	33200	.....	280-AE	
	4.18	30x5.25	13600-46	32984	6	32985	17	19669	3213	18200	.....	280-AE	
"ER", 2 Wheel Brakes	4.6	30x5.25	13600-46	32984	6	32985	17	19669	3213	18500	.....	280-AE	
	4.18	30x5.25	13600-46	32982	6	32983	17	19440	.....	18200	.....	280-AE	
"ER", 4 Wheel Brakes	4.6	30x5.25	13600-46	32982	6	32983	17	19440	.....	18500	.....	280-AE	
"ER", 4 Wheel Brakes, Special Export.....	5.11	30x5.25	13600-46	32982	6	32983	17	19440	.....	33000	.....	280-AE	
"ER", 2 Wheel Brakes, Special Export.....	5.11	30x5.25	13600-46	32984	6	32985	17	19669	.....	.....	.....	.....	
"EP"—"EQ".....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	216-AB	.....	
"ET"—H Hearse.....	4.9	34x7.30	13600-50	18964	5	18965	11	19669	19657	19400	.....	280-AT	
"ET"—D Bus.....	5.3	32x6	13600-50	18964	5	18965	11	19669	19657	19300	.....	280-AT	
"ET"—N, "ET"—A Bus.....	4.67	34x7	13600-50	18964	5	18965	11	19669	19657	18100	.....	280-AT	
"ET"—P Bus.....	4.67	32x6	13600-50	18964	5	18965	11	19669	19657	30421	.....	280-AT	
"ES", Big 6, 127 Inch Wheel Base.....	3.69	32x6.75	13600-50	18964	5	18965	11	19669	19657	18200	.....	280-AT	
	4.9	32x6.75	13600-50	18964	5	19965	11	19669	19657	30423	.....	280-AT	
	4.08	32x6.75	13600-50	18964	.....	18965	11	19669	19657	33900	.....	270-AT	
	4.08	32x6.00	13600-48	18964	.....	18965	11	19669	19657	33000	.....	280-AT	
"EU" Standard Six....	4.36	32x6.75	13600-50	18965	.....	18965	.....	19669	19657	33000	.....	280-AT	
	4.69	32x6.00	13600-48	18964	.....	18965	.....	19669	19657	18500	.....	280-AT	
	4.6	31x5.25	13600-48	18936	4	18954	12	19669	3213	18200	.....	280-AT	
"EU" Standard Six....	4.18	31x5.25	13600-48	18936	.....	18954	.....	19669	3213	17500	.....	280-AT	
"EU" Standard Six....	5.11	31x5.25	13600-48	18936	.....	18954	.....	19669	3213	18500	.....	280-AT	

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

STUDEBAKER (Contd.)

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Key	Adapt-or	Vacuum Tanks	Speed-ometer Head	Year
"ES", Big 6, 127 Inch Wheel Base.....	3.69	32x6.00	13600-48	18964	5	18965	11	19669	19657	18500	.....	280-AT	1927
	4.36	32x6.75	13600-50	18964	5	18965	11	19669	19657	33000	.....	280-AT	
	4.08	32x6.00	13600-48	18964	5	18965	11	19669	19657	33000	.....	280-AT	
	4.08	32x6.75	13600-50	18964	5	18965	11	19669	19657	33900	.....	280-AT	
	4.9	32x6.75	13600-50	18964	5	18965	11	19669	19657	30423	.....	280-AT	
	3.69	32x6.75	13600-50	18964	5	18965	11	19669	19657	18200	.....	280-AT	
50.....	4.77	28x4.40	13600-52	34834	3	34835	10	20312	3213	.....	Bush. 1870	280-BE	
50.....	5.12	28x4.40	13600-52	34833	3	17996	11	20312	3213	.....	1870	280-BE	

VELIE

Model	Axle Ratio	Tire Size	Shaft	Swivel Joint	Clamp	Angle Bar	Drive Gear	Teeth	Driven Gear	Teeth	Speed-ometer Model	Vacuum Tanks	Year
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	122-D	1921
.....	5.09	32x4 C	1799-56	1962	2552	4007-A	11661	53	2378	27	131-BL	.....	1922
Mid-Season Change.....	.....	32x4 C	1799-58	1962	2552	.....	11661	53	3294	28	131-B	189-A	1923
	.....	32x4 C	1799-58	1962	2552	4007-B	11661	53	2378	27	131-B	.....	
.....	.....	32x4 C	1799-58	1962	.....	4007-B	2378	27	2386	26	131-B	.....	1924
.....	5.1	30x5 B	.....	.....	.....	.....	18128	3	18129	10	.....	.....	
.....	5.1	32x6 B	.....	.....	.....	.....	18128	3	18129	10	.....	.....	
.....	5.1	32x4	1799-58	.....	.....	.....	17743	4	12022	12	.....	215-A	
.....	.....	33x4 1/2	1799-58	.....	.....	.....	17743	4	12022	12	131-B	.....	
.....	5.1	31x5.25	1799-58	.....	.....	.....	14091	5	11246	16	281-A	.....	1925
.....	.....	33x6	1799-58	.....	.....	.....	14091	5	11246	16	281-A	.....	
60 Roy Sedan.....	4.7	32x600	13600-60	20312	11012	15937	30881	5	17145	14	289-B	.....	1926
60 Club Phaeton...	4.7	30x6.25	13600-60	20312	11012	15937	30473	4	14602	12	289-B	.....	
60 Brougham, Coupe and Std. Phaeton.	4.7	30x5.25	13600-60	20312	11012	15937	30473	4	14602	12	476-A	.....	
50-Small Car.....	4.9	29x4.95	13600-42	20312	.....	3213	17120	3	31406	10	280-AW	.....	1927
Large 6-Cyl.....	4.7	32x6.00	13600-60	20312	11012	15937	30473	4	14602	12	280-AW	.....	
Large 6-Cyl.....	4.9	32x6.00	13600-60	20312	11012	15937	31472	5	13648	16	280-AW	.....	

WHITE MOTOR CO.

Note: The following equipment is used on all late 1921 Models 15-45—3/4 Ton with G. M. C. Transmission.

Speedometer.....74-A	Drive Gear.....14358	Teeth.....5
Shaft.....1799-60	Driven Gear....14359	Teeth.....16
Bushing.....11012	Sleeve.....11092	

Model	Axle Ratio	Tire Size	Adaptor	Year
Late 15-45—3/4 Ton with G. M. C. Trans.	3.92-1	34 P	14415	1921
	3.92-1	36 P	14416	
	4.66-1	34 P	14412	
	4.66-1	36 P	14413	
	5.36-1	34 P	None	
	5.36-1	36 P	14411	

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

WHITE MOTOR CO. (Contd.)

Note—The following equipment is used on all 1922 Salesmen's Cars, Models 15— $\frac{3}{4}$  Ton, and 20, 2 Ton.  
 Speedometer....131-Y Shaft.....1799-60

Model	Asle Ratio	Tire Size	Swivel Joint	Clamp	Bar	Drive Gear	Teeth	Driven Gear	Teeth	Year
15-45— $\frac{3}{4}$ Ton.....	F. W. D.	34 P	1913	952	4007-A	8668	68	2301	16	1922
15— $\frac{3}{4}$ Ton.....	F. W. D.	35 P	1913	952	4007-A	8668	68	2345	15	
20—2 Ton.....	F. W. D.	36 S	1913	952	4007-A	8677	72	2301	16	
Salesmen's Car.....	3.92	34 P	1962	6836	4007-B	3545	62	2391	23	

Note—The following equipment is used on all early 1922 Models 15-45— $\frac{3}{4}$  Ton with G. M. C. Transmission.  
 Speedometer....74-A Drive Gear....14358 Teeth.....5  
 Shaft.....1799-60 Driven Gear....14359 Teeth.....16  
 Bushing.....11012 Sleeve.....11092

Model	Asle Ratio	Tire Size	Adaptor	Year
Early 15-45— $\frac{3}{4}$ Ton with G. M. C. Trans.	3.92-1	34 P	14415	1922
	3.92-1	36 P	14416	
	4.66-1	34 P	14412	
	4.66-1	36 P	14413	
	5.36-1	34 P	None	
	5.36-1	36 P	14411	

Note—The following equipment is used on all late 15-45 Models— $\frac{3}{4}$  Ton with G. M. C. Transmission.  
 Speedometer....74-A Drive Gear....14072 Teeth.....6  
 Shaft.....1799-46 Driven Gear....14073 Teeth.....16  
 Bushing.....11012 Sleeve.....11092

Model	Asle Ratio	Tire Size	Adaptor	Year
15-45— $\frac{3}{4}$ Ton with G. M. C. Transmission	3.92	34 P	14412	1922
	3.92	36 P	14418	
	4.67	34 P	None	
	4.67	36 P	13000	
	5.36	34 P	14408	
	5.36	36 P	14409	

Note—The following equipment is used on all 1923 Models 15 and 15-A— $\frac{3}{4}$  Ton having fabric type universal joint. Gear welded to hub.  
 Speedometer....74-A Drive Gear....17337 Teeth.....62  
 Shaft.....1799-56 Swivel Joint....1962  
 Clamp.....6836 Bar.....4014

Model	Asle Ratio	Tire Size	Driven Gear	Teeth	Asle Ratio	Tire Size	Driven Gear	Teeth	Year
15 and 15-A— $\frac{3}{4}$ Ton	4.67	30 x 5 P	2368	32	5.36	30 x 5 C	3382	37	1923
	4.67	32 x 6 P	2443	30	5.36	32 x 6 C	2383	34	
	4.67	33 x 4 $\frac{1}{2}$ P	3281	29	5.36	33 x 4 $\frac{1}{2}$ C	3372	33	
	4.67	34 x 5 P	3294	28	5.36	34 x 5 C	2368	32	
	4.67	34 x 7 P	2378	27	5.36	34 x 7 C	2364	31	
	4.67	36 x 6 P	3286	26	5.36	36 x 6 C	2443	30	

Note—The following equipment is used on all 1923 Models 15-45— $\frac{3}{4}$  Ton with G. M. C. Transmission.  
 Speedometer....74-A Drive Gear....15270 Teeth.....4  
 Shaft.....1799-46 Driven Gear....15271 Teeth.....15  
 Bushing.....11012 Sleeve.....11092

Model	Asle Ratio	Tire Size	Adaptor	Year
15-4—5 $\frac{3}{4}$ Ton with G. M. C. Trans. Serial Numbers 18141 to 22485	3.92	34 x 5	18491	1923
	3.92	36 x 6	14422	
	4.67	34 x 5	14415	
	4.67	36 x 6	14416	
	5.36	34 x 5	14418	
	5.36	36 x 6	14413	

WHITE MOTOR CO. (Contd.)

Note—The following equipment is used on all 1923 Model 50-A Bus.

Speedometer ..131-CB	Drive Gear.....15270	Teeth.....4
Shaft.....1799-48	Driven Gear.....15271	Teeth.....15
Bushing.....11012	Sleeve.....11092	

Model	Axle Ratio	Tire Size	Adaptor	Axle Ratio	Tire Size	Adaptor	Year
50-A Bus with G. M. C. Trans. Serial Numbers 18137 to 22478	4.67	34	14415	6.83	38	14411	1923
	4.67	36	14416	6.83	40	14462	
	4.67	38	14423	7.53	34	14408	
	4.67	40	18491	7.53	36	14409	
	5.67	34	14412	7.53	38	14410	
	5.67	36	14418	7.53	40	13000	
	5.67	38	14414	9.25	34	14403	
	5.67	40	14415	9.25	36	14417	
	6.83	34	14420	9.25	38	14406	
	6.83	34	None	9.25	40	14407	

Note—The following equipment is used on all 1924 Models 15, 15-A— $\frac{3}{4}$  Ton, having Spicer Type Metallic Joint. Gear bolted to the flange.

Speedometer.....74-A	Drive Gear.....30616	Teeth.....53
Shaft.....1799-56	Clamp.....6836	Bar.....4014
Swivel Joint.....1962		

Model	Axle Ratio	Tire Size	Driven Gear	Teeth	Axle Ratio	Tire Size	Driven Gear	Teeth	Year
15, 15-A— $\frac{3}{4}$ Ton	4.67	30 x 5 P	3290	27	5.36	30 x 5 P	3365	31	1924
	4.67	32 x 6 P	3283	25	5.36	32 x 6 P	2380	29	
	4.67	33 x 4 $\frac{1}{2}$ P	3283	25	5.36	33 x 4 $\frac{1}{2}$ P	2353	28	
	4.67	34 x 5 P	2305	24	5.36	34 x 5 P	3290	27	
	4.67	34 Cush	2305	24	5.36	34 Cush	3290	27	
	4.67	36 x 6 P	3273	22	5.36	36 x 6 P	3392	26	

Note—The following equipment is used on all 1924 Models 15, 45— $\frac{3}{4}$  Ton with G. M. C. Transmission.

Speedometer.....74-A	Drive Gear.....5282	Teeth.....5
Shaft.....1799-46	Driven Gear.....5284	Teeth.....13
Bushing.....11012	Sleeve.....11092	

Model	Axle Ratio	Tire Size	Adaptor	Axle Ratio	Tire Size	Adaptor	Year
15-45— $\frac{3}{4}$ Ton with G. M. C. Trans. Serial Numbers 22486 and up	3.92	32 x 6	14411	4.67	36	None	1924
	3.92	34	14412	5.36	32 x 6	14406	
	3.92	36	14418	5.36	34	14407	
	4.67	32 x 6	14409	5.36	36	14409	
	4.67	34	14410				

Note—The following equipment is used on all 1924 Model 50-A Bus.

Speedometer ..131-CB	Drive Gear.....5282	Teeth.....5
Shaft.....1799-48	Driven Gear.....5284	Teeth.....13
Bushing.....11012	Sleeve.....11092	

Model	Axle Ratio	Tire Size	Adaptor	Axle Ratio	Tire Size	Adaptor	Year
20, 45, 50, 50-A, 51 with G. M. C. Transmission Serial Numbers 22479 and up	4.67	32	14409	6.83	38	14417	1924
	4.67	34	14410	6.83	40	14405	
	4.67	36	None	7.53	32	18598	
	4.67	38	14411	7.53	34	17834	
	4.67	40	14412	7.53	36	17835	
	5.67	32	14404	7.53	38	17836	
	5.67	34	14406	7.53	40	14403	
	5.67	36	14407	9.25	32	30593	
	5.67	38	14409	9.25	34	30594	
	5.67	40	14420	9.25	36	17833	
	6.83	32	17835	9.25	38	18598	
	6.83	34	17836	9.25	40	17834	
	6.83	36	14403				

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

WHITE MOTOR CO. (Contd.)

Note—The following equipment is used on all 1925 Models 15— $\frac{3}{4}$  Ton with TBC Split Transmission. After Trans. Serial No. 44957.

Speedometer.....74-A	Drive Gear.....30118	Teeth.....4
Shaft.....1799-54	Driven Gear.....14531	Teeth.....12
Bushing.....11012	Sleeve.....11092	Spacer.....30120

Model	Axle Ratio	Tire Size	Adaptor	Year
15— $\frac{3}{4}$ Ton with TBC Split Trans. after Trans. Serial No. 44957	4.67	30 x 5 P	None	1925
	4.67	32 x 6 P	13000	
	4.67	33 x 4 $\frac{1}{2}$ P	14411	
	4.67	34 x 5 P	14419	
	4.67	34 x 7 P	14419	
	4.67	36 x 6 P	14418	
	5.36	30 x 5 P	14408	
	5.36	32 x 6 P	14420	

Note—The following equipment is used on all 1925 Models 15— $\frac{3}{4}$  Ton with TBC Split Transmission. After Trans. Serial No. 44957.

Speedometer.....74-A	Drive Gear.....30118	Teeth.....4
Shaft.....1799-54	Driven Gear.....14531	Teeth.....12
Bushing.....11012	Sleeve.....11092	Spacer.....30120

Model	Axle Ratio	Tire Size	Adaptor	Axle Ratio	Tire Size	Adaptor	Year
15— $\frac{3}{4}$ Ton with TBC Split Trans. after Trans. Serial No. 44957	4.67	30 x 5 P	None	5.36	33 x 4 $\frac{1}{2}$ P	14420	1925
	4.67	32 x 6 P	13000	5.36	34 x 5 P	None	
	4.67	33 x 4 $\frac{1}{2}$ P	14411	5.36	34 x 7 P	None	
	4.67	34 x 5 P	14419	5.36	36 x 6 P	13000	
	4.67	34 x 7 P	14419	5.36	33 x 4 $\frac{1}{2}$ P	14420	
	4.67	36 x 6 P	14418	5.36	34 x 5 P	None	
	5.36	30 x 5 P	14408	5.36	34 x 7 P	None	
	5.36	32 x 6 P	14420	5.36	36 x 6 P	13000	

Model 50-B Bus.

Speed. Head....79-W	Drive Gear...32486-6	Bushing.....11012
Speed. Shaft.13700-54	Driven Gear.32487-13	Sleeve.....20312
13700-56 after Feb. 24, 1926—Key 3213		

Tire Size	Axle Ratio	Adaptor	Tire Size	Axle Ratio	Adaptor	Tire Size	Axle Ratio	Adaptor	Year
32	3.92	21931	32	4.67	17520	32	5.70	21927	1926
34	3.92	21934	34	4.67	21931	36	5.70	21930	
36	3.92	21935	36	4.67	None	34	5.70	21929	
38	3.92	21936	38	4.67	21932	34x7.5 Ball	5.70	21929	
40	3.92	21938	40	4.67	21934	32	6.33	21924	
32	4.071	14100	32	4.75	17520	36	6.33	21927	
36	4.071	21934	36	4.75	None	39	6.33	21926	
34x7.5 Ball	4.071	21933	34	4.75	21931	34x7.5 Ball	6.33	21925	
34	4.071	21933	34x7 Ball	4.75	16522	40	6.83	21920	
32	4.25	None	32	5.182	17340	32	6.83	21922	
34	4.25	14100	36	5.182	16522	32	7.12	21921	
36	4.25	21933	34	5.182	17526	36	7.12	21924	
38	4.25	21934	34x7.5 Ball	5.182	21930	34	7.12	21923	
40	4.25	21936	32	5.67	21927	34x7.5 Ball	7.12	21922	
32	4.33	21931	34	5.67	21929	32	8.14	21918	
36	4.33	21932	36	5.67	17340	36	8.14	21920	
34	4.33	14100	38	5.67	17520	34	8.14	21929	
34x7.5 Ball	4.33	None	40	5.67	16522	34x7 Ball	8.14	21919	

Model 53 Bus.

Same equipment as 50-B Bus., except shaft is 13700-60'.....1926



## WILLYS-KNIGHT

Model	Axle Ratio	Tire Size	Shaft	Drive Gear	Teeth	Driven Gear	Teeth	Sleeve	Speedometer Model	Vacuum Tanks	Year
W-K-20 Touring.....	5.	33x4 C	11500-52	11954	4	11955	12	11092	131-AT	116-K	1921
W-K-20 Sedan Coupe.....	5.	34x4½ C	11500-48	11410	6	11411	17	11092	131-AT	116-K	
W-K-20 Roadster.....	4.58	33x4 C	11500-52	11300	6	11333	16	11092	131-AT	116-K	
W-K-27 P Pass. Tour. and Sedan	5.125	32x4½ C	13600-52	15347	5	15348	16	20312	131-AT	188-F	1922
W-K-20-A Touring and Roadster.	4.44	32x4 C	13600-52	14330	6	14331	16	20312	131-AT	188-F	
W-K-20-A Coupe and Sedan.....	4.44	32x4 C	13600-50	14330	6	14331	16	20312	131-AT	188-F	
W-K-67 7 Pass. Sedan.....	5.125	32x4½ C	13600-52	15347	5	15348	16	20312	131-AT	188-F	1923
W-K-64 Tour., Road. and Coupe.	4.44	32x4 C	13600-52	14330	6	14331	16	20312	131-AT	188-F	
W-K-64 Sedan.....	4.44	32x4½ C	13600-52	14330	6	14331	16	20312	131-AT	188-F	
W-K-67 7 Pass. Touring.....	5.125	32x4½ C	13600-52	15347	5	15348	16	20312	131-AT	188-F	
W-K- Tour., Road. and Coupe...	5.125	32x4 C	13600-52	15347	5	15348	16	20312	131-AT	215-A	1924
W-K-64 Sedan.....	5.125	32x4½ C	13600-52	15347	5	15348	16	20312	131-AT	215-A	
W-K-64 Tour., Road. and Coupe.	5.125	33x4.95 B	13600-52	15347	5	15348	16	20312	131-AT	215-A	
W-K-64 Sedan.....	5.125	33x5.77 B	13600-52	15347	5	15348	16	20312	131-AT	215-A	
W-K-64 Tour., Road. and Sedan.	5.125	32x6.2 B	13600-52	15347	5	15348	16	20312	131-AT	215-A	
W-K-64 Tour., Road. and Coupe.	4.44	32x4 C	13600-52	14330	6	14331	16	20312	131-AT	215-A	
W-K-64 Sedan.....	4.44	32x4½ C	13600-52	14330	6	14331	16	20312	131-AT	215-A	
W-K-64 Tour., Road. and Coupe.	4.44	33x4.95 B	13600-52	14330	6	14331	16	20312	131-AT	215-A	
W-K-64 Sedan.....	4.44	33x5.77 B	13600-52	14330	6	14331	16	20312	131-AT	215-A	
W-K-64 Tour., Road. and Sedan.	4.44	32x6.2 B	13600-52	14330	6	14331	16	20312	131-AT	215-A	
W-K-64 67 Touring and Sedan..	5.125	32x4½ C	13600-52	15347	5	15348	16	20312	131-AT	215-A	
W-K-64 Touring and Sedan.....	5.125	33x5.77 B	13600-52	15347	5	15348	16	20312	131-AT	215-A	
W-K-65 All—Four Cylinder.....	5.125	30x5.77 B	13600-52	15347	5	15348	16	20312	131-CX	215-A	1925
W-K-65 All—Four Cylinder.....	4.44	30x5.77 B	13600-52	19405	6	19404	17	20312	131-CX	215-A	
W-K-66 All—Six Cylinder.....	5.11	32x6.2 B	13600-52	19410	5	15348	16	20312	280-AD	216-A	
WK-70—Six Cylinder.....	5.11	30x5.25	13600-52	19408	5	19407	17	20312	280-AD	.....	1926
WK-70—R. H. Drive.....	5.11	30x5.25	13600-52	31865	5	31865	17	20312	280-AD	.....	

## Notice

THE very complete specifications furnished in this catalog will enable you to determine readily just what parts you require, and to order them by number. This will insure greater accuracy and even quicker handling of your orders.

However, if for any reason you do not find here the information you want, relative to any part or parts, write to the Stewart-Warner Products Service Station in your territory. They have complete specification information covering every Stewart-Warner product for years back and will be able to fill your order readily and accurately. Be sure to specify the make, model and year of car, when ordering.

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

Specifications Previous to 1921 for Cars Using  
Fibre Pinions with Swivel Joint Drive

BUICK

Year	Model	Pinion	Rear Gear	Swivel	Clamp	Cable, Inches	Tire Size, Inches	Rear Axle Ratio
1915	C-54; C-55 (Big Six)	2303	1326	1913	575	81	36	
1915	C-36; C-37 (Little Six)	2302	1325	1913	575	72	34	
1915	C-24; C-25 (Little Four)	2302	1324	1913	512	54	32	
1916	D-54; D-55 (Big Six)	2303	1326	1913	6847	84	36	
1916	D-44; D-45 (Little Six)	2302	1324	1913	7021	72	32	
1917	D-44; D-45 (Little Six)	2302	1325	1913	7021	72	34	
1917	D-34; D-35 (Little Four)	2302	8643	1913	7021	66	31	
1918	E-49; E-50 (Big Six)	2301	9468	1913	9469	76	34	
1918	E-44; E-45; E-46; E-47	2302	1325	1913	7021	75	34	
1918	E-34; E-35 (Little Four)	2302	8643	1913	7021	54	31	
1919	H-49; H-50 (Big Six)	2301	9468	1913	9469	75	34	
1919	H-44; H-45; H-46; H-47	2302	1325	1913	7021	75	34	
1920	K-44; K-45							
1921	44, 45, 48	Transmission	Driven			63	33	
1922	44, 45, 46, 47	Transmission	Driven			63	34	
1922	48, 49, 50	Transmission	Driven			66	33 Cord	
1922	34, 35 (Little Four)	2301	8695	1913	7021	66	34 Cord	
							31 Cord	

BRISCOE

17-18-19	4-24	2301	9524	1913	7394	63	30	
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CHANDLER

1917	25	2368	273	1961	2398	54	34	53-12
1917	25	2443	273	1961	2398	54	34	53-13
1917	25	3294	273	1961	2398	54	34	53-14
1918		2364	273	1961	2398	54	32	53-13
1919-20		3372	11777	1961	11078	57	33	4.42.1
1921		3376	11661	1961	11078	57	33	53-12

CHEVROLET

1917-18	490	2301	189	1959	9909	60	30	
1917-18	F. B.	2301	234	1959	7248	61	33	

DORT

1917	M-9; M-6	2301	8619	1913	512	54	30	
1918		2345	10313	1913	512	54	30	
1919		2301	8619	1913	512	54	30	

FORD

1914 to 1922	T	2301	11077	1913	1516 or 11297	54	30	
		1922				60	63	

HUDSON

17-18-19		2082	280	1962	2614	42	35	4-1/2
		2197	280	1962	2614	42	35	4-5/11
		1947	280	1962	2614	42	34	3-1/2
		3291	280	1962	2614	42	35	4-5/11
		2824	280	1962	2614	42	34	3-1/2
		2354	280	1962	2614	42	34	3.78
		3203	280	1962	2614	42	34	4.08
		3291	280	1962	2614	42	34	4.45
		3297	280	1962	2614	42	34	4.09

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## MAXWELL

Year	Model	Pinion	Rear Gear	Swivel	Clamp	Cable, Inches	Tire Size, Inches	Rear Axle Ratio
1917-19	.....	2301	10101	1913	1512	66	30	.....
1918	.....	2301	8696	1913	1512	66	30	.....
1920-21	.....	2301	8696	1913	1512	66	30	.....

## MITCHELL

1917	.....	2301	184	1913	512	72	34	.....
1917-18	.....	2301	8625	1913	512	66	32	.....
1918	C-12.....	2301	149	1913	512	72	35	.....
1919	.....	2301	197	1913	512	72	33	.....

## OAKLAND

1916-17	32.....	2302	188	1913	512	63	32	.....
1916	50.....	2302	1325	1913	980	75	34	.....

## OVERLAND

1916	75.....	2303	7096	1913	6860	60	31	.....
1916	82-86.....	2303	3987	1913	1374	72	35	.....
1916	83.....	2303	241	1913	585	60	33	.....
1916	84.....	2303	7131	1913	585	63	34	.....
1917	90 R.....	2303	7096	1913	.....	60	31	.....
1917	89 T. S. N.....	2303	8652	1913	.....	72	33	.....

## PAIGE

1916	G. 6-46.....	2301	215	1913	2287	69	34	.....
1917	J-6.....	2301	8384	1913	980	72	35	.....
1917	K. 6 Lin P 18.....	2301	8695	1913	980	66	32	.....

## PACKARD

14-15-16-17	.....	2368	385	9072	8649	72	36 Cord	.....
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## STUDEBAKER

1915	4 Cylinder.....	2302	2426	1913	1502	60	33	.....
15-16	6 Cylinder.....	2301	215	1913	1502	69 & 72	34	.....

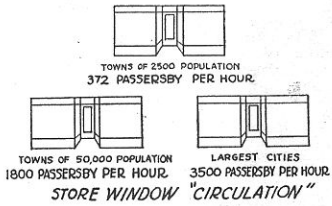
## VELIE

17-18	25 A.....	2301	1334	1959	512	72	36	.....
.....	22 and 28.....	2304	8659	1962	7291	54	32	4.25
.....	22.....	3286	8659	1962	7291	54	32	4.75
19 and 20	.....	3286	8750	1963	2552	48	32	4.66

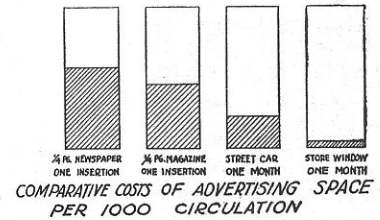
WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## A DISPLAY CAMPAIGN THAT WILL CREATE SALES OF STEWART-WARNER PRODUCTS *for YOU*



THIS DISPLAY SERVICE FROM  
THE STEWART-WARNER FACTORY



GOOD Window and Store Displays are not mere theory or pet fancies, but an important factor to successful Modern Day Merchandising. The progressive merchant knows full well that his newspaper and other forms of advertising become even more valuable when his window and store displays tell an interesting story, too. The tie-up between good advertising and good displays yields the best dividends. Do not overlook your sales possibilities through "Better Window Displays." Put real "human interest" into your displays; make them as attractive as you know how—keep them interesting, clean, neat and well lighted. Do not be backward about making the right kind of investment for necessary display equipment; decoratives and material that will help make your displays a credit to your store and the entire community. No investment will bring back greater dividends in actual sales and good will.

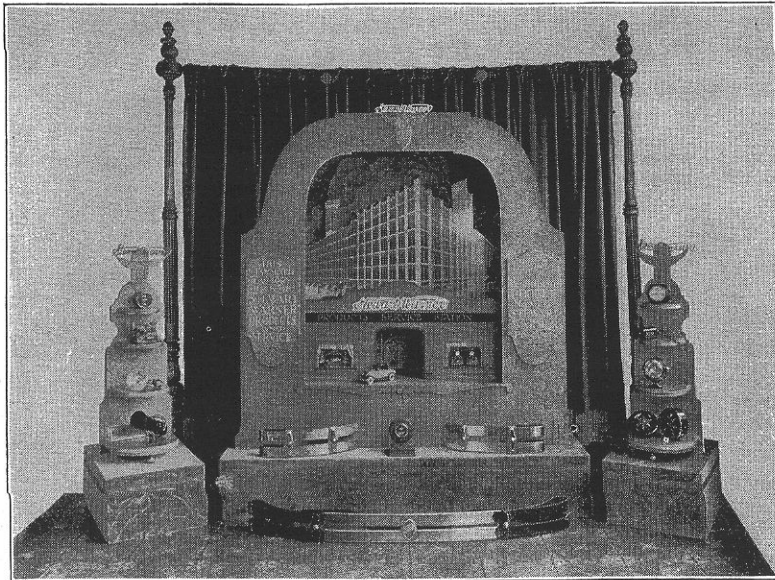
The Stewart-Warner Corporation is anxious to help its dealer organization have better displays. To this end "The Display Division" has been created. The personnel chosen for this division are men of real, practical display experience; men who know how to help you solve your display problems in a practical way.

Such men are in a position to help you have displays that are not merely pretty to look upon, but displays that actually help sell merchandise for you. The Stewart-Warner Corporation is interested in your making a profit, and the more merchandise they can help you sell, the greater the success of the entire organization.

Stewart-Warner salesmen are at your service and will help you have better window and store displays. The Display Division will prepare sketches for you, without charge, showing how your windows can be made most effective, or how your store interior might better be arranged, what type of sign for your building, how to place your show exhibit, etc. Many attractive displays are offered you at a small rental charge per week or month. This enables you to have displays that would otherwise be out of reach—due to their original cost. Display equipment is offered you at wholesale—in general, a super-display service is offered you by the Stewart-Warner Speedometer Corporation. Any questions concerning your display problems may be referred to the Display Division. "Better Displays Mean Better Business." Let us help you.

*The circular printed in color and enclosed with this catalog further illustrates these Display Helps*

### A DISPLAY THAT SELLS SERVICE



Display No. AH

THIS display is intended to impress the public with the value of Stewart-Warner service and the size of the factory behind Stewart-Warner products.

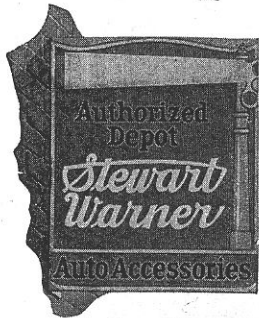
Again we have reverted to the power of motion to put this message over most forcibly—as we know motion attracts most. There are miniature autos; one drives in unequipped, the other drives out equipped with Stewart-Warner Bumpers. This is driven by a motor, and certainly helps put across the message. The miniature service station is in stone finish, with show windows, etc. There is an oil painting of the factory, illuminated behind the service station.

The unit sets on a green velour covered base, on which may be placed bumpers and other accessories. At either side is a gold finish accessory display—height about five feet six inches. Requires space about seven feet, or more, long. Rental charges are \$22.50 per month, \$12.50 for two weeks, f. o. b. nearest available shipping point. Velour curtain and gold finished posts in background are not included with this display, but may be rented as additional display material.

State whether alternating or direct current is to be used. Ask your Service Station for further details or write the Display Division.

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES

# Display Helps that Increase Profits

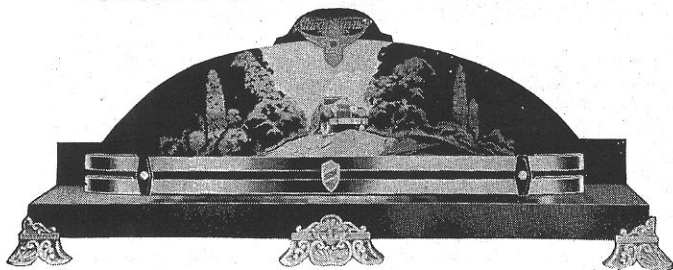


Display No. 60

## Authorized Depot Sign

for Stewart-Warner Authorized Dealers

Lithographed in colors for use outside your store, marks you as a dealer who handles Better Accessories and genuine parts for the repair of Stewart-Warner equipment. Dealer Helps and advertising tie-ups are furnished dealers who display this sign. Cash in on sales and service the use of this sign is sure to bring you.



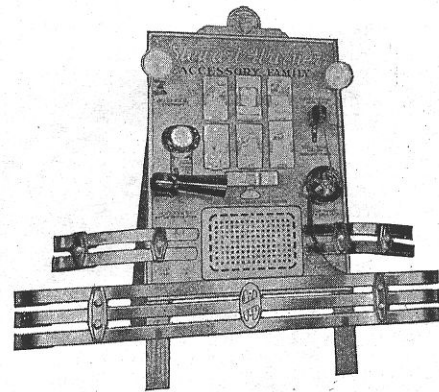
## Bumper Display—No. 140

Here is an attractive bumper display. The base is six feet long and twelve inches wide. It is covered with a good quality, black sateen with a high lustre. The background panel is about twenty-four inches high and is painted in eight oil colors. Three cast feet from carved models, finished gold polychrome, support this base.

This display may be used in a show window or on top of a show case to advantage. Adds value and sales appeal to the bumper.

Price, \$8.50 each, F. O. B. Chicago.

Send check, money order, or authority to ship C. O. D.



## Accessory Family Display—No. 50

An attractive steel stand, lithographed in colors, is a piece of equipment for your store that is a great sales-builder. It displays in a selling style the complete Stewart-Warner Accessory Family. This stand in your store ties up with the Depot Sign outside, and with our advertising, it means sales. Distributed through our Service Stations on an attractive proposition.

## Cut-Out Wing Emblems—No. A-20

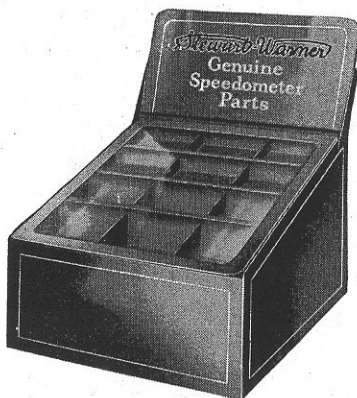
These wing emblems are cut out of heavy re-inforced wall board. They are done in attractive colors—gold, red and black.



The larger wings are fitted with brass chains for hanging. There are nine wings in the set—one sixty inches across—two forty-eight inches across and six twelve inches across. Price, per set of nine, \$5.75, F. O. B. Chicago. Send check,

money order, or authority to ship C. O. D.

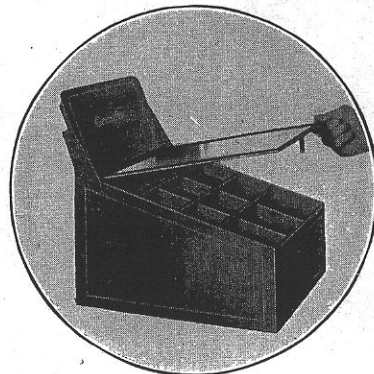
## Profit from the Sale of Parts with these Handy Sales-Making Cabinets



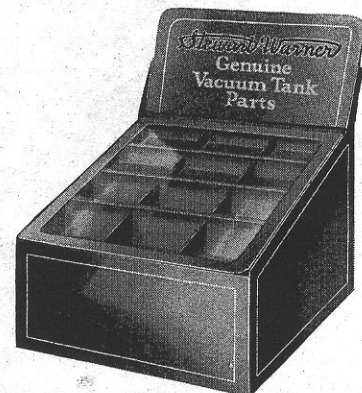
## Speedometer Parts—No. 110

This cabinet, pictured above, is constructed for counter use, for the purpose of displaying Genuine Stewart-Warner Parts. The cabinets are arranged with the idea of giving a convenient place to keep a reasonable stock of quick moving parts.

Here are our two cabinet containers for parts, showing the convenient little bins and the easy operation of the glass lid. The lid is secured by a special lock catch operated from the rear of the cabinet.



Illustrating how easy it is to sell parts from these cabinets



## Vacuum Tank Parts—No. 120

You can get a cabinet for your store from our Service Station in your locality on a very attractive proposition. With a reasonable order of parts, these cabinets are furnished you. Write your Service Station or the Display Division at factory.

# Display Stands for the Wall or Window

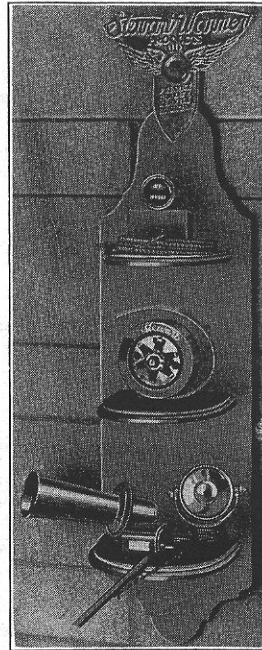
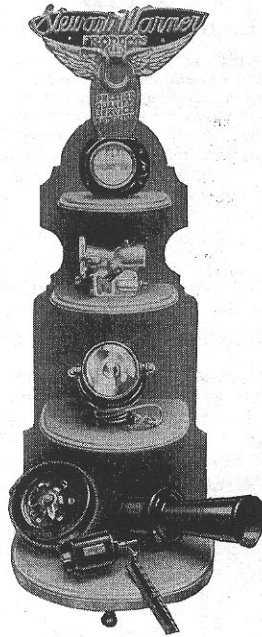
## Accessory Display Stand No. 130

This accessory display stand is forty-eight inches high with emblem. It is durably constructed of well-seasoned lumber, and is finished in an attractive gold lacquer with blue stripes. This display stand can be used in the window or any place in the store, and certainly affords an attractive background and sharp contrast for displaying the smaller automobile accessories.

If you will use two of these stands, in each of your display windows, you will be able to get proper balance and attractiveness in your displays.

### Display Stand No. 130

Price, each, \$6.50  
F. O. B. Chicago



## Hanging Shelf Displayer No. A-18

This display unit was especially designed for hanging on the wall, either in the window or in the store, so that the smaller accessory items might be prominently displayed.

The displayer is made of well-seasoned lumber, and finished in an attractive gold lacquer with metal-cast Stewart-Warner Emblem finished in gold to match, at the top.

This attractive piece of display equipment will be found very practical, and will keep small accessories prominently displayed in an efficient manner.

## Hanging Shelf Displayer No. A-18

Price, each, \$6.50  
F. O. B. Chicago

## Properly Lighted Display Windows and Show Rooms WILL WORK OVERTIME FOR YOU



Startling Window Effects with Powerful Color Lighting

"The Light With 100 Uses"

### WINDOW SPOT LIGHT or FLOOD LIGHT

with 6 color screens, 4-foot cord and plug offered to Stewart-Warner Dealers at this special price. Manufacturer's Guarantee for 25 years—light bulb not included.

**\$6.75**

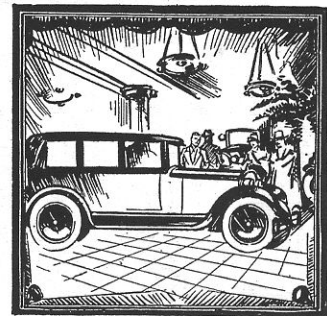
F. O. B. Chicago

DESCRIPTION—These Spot and Flood lights are made of "Rayalium," a metal that will not corrode, rust or tarnish. There is no breakage and they can not burn off like glass with mirror back. The SPOT LIGHT is made so as to focus its light rays on a small area. The FLOOD LIGHT spreads a wide ray of light. In ordering, specify Spot or Flood. These lights can be used with or without color screens—a 200-watt bulb is required for best results. Bulb not included.

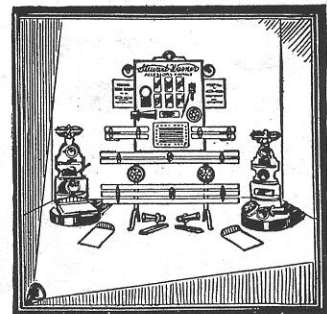
Shipping weight, 3½ lbs.

Flood Light No. R-7M.....\$6.75

Spot Light No. R-6M..... 6.75

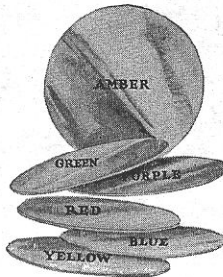
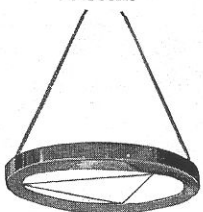


Automobile Sales Room



Window Display

Attachment to hold color Screens

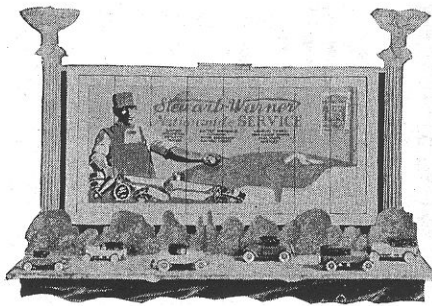


### 6 Gelatine Color Screens Included

This affords you the opportunity for creating striking color lighting effects. Extra color screens may be had for 15c each. The light may also be used without color effect, and will prove a very efficient fixture.

Check or money order should accompany all orders, otherwise shipments will be made C. O. D. Satisfaction guaranteed

More Than Two Hundred Feature Displays Offered Dealers on Rental Plan—  
Three are Illustrated Here—Ask Your Service Station About Others

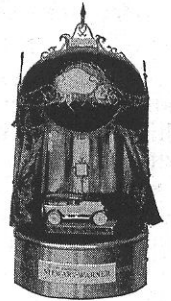


Display No. RAH

The miniature triangle motion sign shown at the left carries three messages about Stewart-Warner products and turns by motor at regular intervals to reveal a new message. The miniature autos are furnished with this display, also the painting representing the boulevard background. Rental per month, \$22.50; two weeks, \$12.50. Size about 3½ feet high, 5 feet long.

De Luxe Miniature Turn Table Display

This little unit attracts the attention of all who see it. It is full of life and color and is intended to be a little feature display for accessory or car dealers' windows, and for use in Show Exhibits. The dome is of hammered effect, silver-plated. The wrought iron is of Swedish steel finish. The outside drapes are of bright red plush, trimmed with gold braid and tassels. The lining is of gold cloth. It is wired for light in top. Motor in base slowly revolves the platform on which the car, bumper-equipped, stands. The floor of this platform is covered with a figured mohair, as is the base of the platform. The unit is about twenty-four inches in diameter and forty-two inches high. Each packed in durable shipping case and offered at a rental of \$12.50 per month, or \$7.50 for two weeks. F. O. B. nearest shipping point.



Display No. APC

Feature Mechanical Display for 490 Speedometer for Fords

The center unit of this display is about five feet six inches high and six feet wide at base. The circle is made of wood, shaped and silver finished as the rim of the speedometer itself. The dial of the speedometer has been cut out and through this opening we see an outdoor scene along the highway, where a motorcycle cop is chasing the Fords, operated by electric motor, and the dial registers forty-five miles per hour.

The base is covered with sunfast sateen, of a purple shade, and two small gold stands are furnished. On a gold finish ribbon effect at top, about the circle are cut-out letters, reading "Stewart-Warner Speedometer for Fords."

On either side of the center unit are electric signs, with gold cut-out letters, mounted on purple sateen backs.

It will be shipped to you from the nearest possible point, so that transportation costs to you will be kept at a minimum. Rental charge is \$22.50 per month, \$12.50 for two weeks. Ask your Service Station for further details.

Important—State whether alternating or direct current is used.

KEEP YOUR NAME BEFORE THE MOTORIST  
PLACE THIS SIGN ON HIGHWAYS, ABOUT YOUR CITY, IN YOUR STORE OR WINDOWS

In your place of business or on your truck this sign will prove itself worthy of the space you give it. The customer immediately remembers having seen it on the highway.



On barns, fences and buildings may be found excellent posting space, where the motorist can see the sign from the highway. Such space is available in both city and rural districts.



This sign is of a practical size and affords unlimited posting possibilities. Cash in on Out-Door Advertising—introduce yourself to the motorist on the highway, bring him to your store—let him know you are the Authorized Dealer for Stewart-Warner Better Accessories.

Size of sign, 24 x 28 inches—Attractive color combination—printed with genuine oil colors, on extra heavy paper fibre—folded edges for tacking—your firm name and city in bold black letters.

Copy must not exceed three lines, for instance, "Krieger Motor Co." top line, Buick Dealer, on second line. City, street or phone on third line. We will print any copy that does not exceed three lines.

Weather has no effect on the colors. This type of signs are being used by many of America's largest Out-Door Advertisers. They will place your name prominently before the motorist day and night.

100 to 500 cost you only 12½c each, less than 100 cost you only 15c each. This price includes freight prepaid. We can accept no orders for less than fifty.

THE STANDARD IS *Stewart-Warner* ON ACCESSORIES

## *Stewart-Warner* Authorized Sales and Service Stations

All carry a complete stock of Stewart-Warner Accessories and Matched-Unit Radio. Each Station is equipped with a corps of factory-trained experts, competent to give efficient service on all Stewart-Warner Equipment.

### ARIZONA—

Phoenix, 245-47 W. Adams St.

### CALIFORNIA—

Fresno, 1412 Broadway.  
Los Angeles, 1366 South Figueroa St.  
Oakland, 326 Twenty-third St.  
Sacramento, 1516 J St.  
San Diego, 811 Front St.  
San Francisco, 1450 Van Ness Ave.

### COLORADO—

Denver, 1153 Bannock St.

### CONNECTICUT—

Hartford, 45 Wells St.

### DISTRICT OF COLUMBIA—

Washington, 1117 Fourteenth St., N. W.

### FLORIDA—

Jacksonville, 907 Main St.

### GEORGIA—

Atlanta, 399 Peachtree St.

### ILLINOIS—

Chicago, 1826-52 Diversey Parkway  
(Executive Offices)  
Chicago, 2436 So. Michigan Ave.  
(Branch Office)  
Chicago, 5657 Broadway (Branch Office)

### INDIANA—

Indianapolis, 510 Capitol Ave.

### IOWA—

Des Moines, 1600-1606 Locust St.

### KENTUCKY—

Louisville, 953 South Third St.

### LOUISIANA—

New Orleans, 1322 St. Charles Ave.

### MARYLAND—

Baltimore, 1117 Cathedral St.

### MASSACHUSETTS—

Boston, 1111 Commonwealth Ave.  
Springfield, 609 Main St.

### MICHIGAN—

Detroit, 6050 Cass Ave. (Branch Office)  
Grand Rapids, 710-712 Monroe Ave.

### MINNESOTA—

Minneapolis, 1112-18 Second Ave., S.  
St. Paul, 231 W. Sixth St.

### MISSOURI—

Kansas City, 2600 Grand Ave.  
St. Louis, 3206-8-10 Locust St.

### NEBRASKA—

Omaha, 2043-45 Farnam St.

### NEW JERSEY—

Newark, 332 Plane St.

### NEW YORK—

Albany, 338 Central Ave.  
Brooklyn, 1060-1062 Bedford Ave.  
Buffalo, 1224 Main St.  
New York City, 37 W. Sixty-fifth St.  
(Branch Office)  
Rochester, 3 Charlotte St.  
Syracuse, 405 South Townsend St.  
Utica, 257 Elizabeth St.

### OHIO—

Cincinnati, Court and Sycamore Sts.  
Cleveland, 3855 Carnegie Ave.  
Columbus, 304 E. Long St.  
Toledo, 609-11 Huron St.

### OREGON—

Portland, 495 Burnside at Fourteenth St.

### PENNSYLVANIA—

Harrisburg, 42-44 N. Cameron St.  
Philadelphia, 1419 North Broad St.  
Pittsburgh, Baum Blvd. and Millvale Ave.  
Scranton, 325-27 Adams Ave.

### RHODE ISLAND—

Providence, 110 Broadway

### TENNESSEE—

Memphis, 319 Union Ave.

### TEXAS—

Dallas, 2122-24 Jackson St.  
El Paso, 711 Texas St.  
Houston, 1719 Preston Ave.  
San Antonio, North Alamo at Fifth St.

### UTAH—

Salt Lake City, 20 West Fourth South St.

### VIRGINIA—

Richmond, 1227 W. Broad St.

### WASHINGTON—

Seattle, 1509 Broadway  
Spokane, First and Jefferson Sts.  
Tacoma, 735-737 Broadway

### WISCONSIN—

Milwaukee, Van Buren at Martin St.

### CANADIAN SERVICE STATIONS

#### ALBERTA—

Calgary, Stewart-Warner Products  
Service Station, 303 7th Ave., West.  
Edmonton, Stewart-Warner Products  
Service Station, 10187 99th St.

#### BRITISH COLUMBIA—

Vancouver, Stewart-Warner Products  
Service Station, Ltd., 1209  
Burrard St.

#### MANITOBA—

Winnipeg, Stewart-Warner Products  
Service Station, 644 Portage Ave.

#### ONTARIO—

Toronto, Stewart-Warner Products  
Service Station, 587 Yonge St.

#### QUEBEC—

Montreal, Stewart-Warner Products  
Service Station, 328 University St.

### CENTRAL AMERICA

#### EL SALVADOR—

San Salvador, Livingston Bros., Apartado 86.

### EUROPE

#### BELGIUM—

Brussels, Mestre & Blatge, 10 Rue du Page.

#### DENMARK—

Copenhagen, Simonsen & Neilsen,  
Frederiksholm, Kanal 4.

#### ENGLAND—

London, The Cooper-Stewart Engineering Co., Ltd., 136-137 Long Acre.

#### FINLAND—

Helsingfors, Simonsen & Neilsen,  
A-S, Berggatan 9.

WORLD'S LARGEST MANUFACTURERS OF AUTOMOBILE ACCESSORIES



*Stewart-Warner* Authorized Sales and Service Stations

All carry a complete stock of Stewart-Warner Accessories and Matched-Unit Radio. Each Station is equipped with a corps of factory-trained experts, competent to give efficient service on all Stewart-Warner Equipment.

## FRANCE—

Paris, Markt & Co., 107 Avenue  
Parmentier.

## HOLLAND—

Schiedam, Stewart-Warner Products  
Holland Service Station, Lange  
Haven, 31.

## ITALY—

Milan, Enrico Rocco, 13 Via Cussani.

## NORWAY—

Oslo, Frode H. Mortensen, Ruselok-  
vejen 1.

## SPAIN—

Barcelona, E. Bertrand y Serra, Tra-  
falgar 52.

## SWEDEN—

Stockholm, Svenska Cykel och Motor  
Aktiebolaget, A-B Enterprise, 12  
B Riddaregatan.

## EAST AND FAR EAST

## AUSTRALIA—

Adelaide, Cornell, Ltd., 122 Pirie St.

Brisbane, Martin Wilson Bros., Ltd.,  
299 Adelaide St.

Melbourne, Berry & Roche, Pty.,  
Ltd., 347-349 Elizabeth St.

Perth, Arthur Christian, Esq., 806  
Hay St.

Sydney, Bennett & Wood, Ltd., 284  
Pitt St.

Sydney, The Cooper Engineering  
Co., Ltd., 129 Sussex St.

## CHINA—

Shanghai, Asiatic Supply Co., Wm.  
C. Rea, 2a Kiukiang Road.

## CEYLON—

Colombo, Rowland's Garage, Inc.

## HAWAII—

Honolulu, Von Hamm Young Co., Ltd.

## INDIA—

Bombay, Bombay Motor Exchange,  
67-69 Queens Road.

Bombay, Dodge & Seymour, Ltd.

Calcutta, Dodge & Seymour, Ltd.

Calcutta, G. McKenzie & Co., Ltd.,  
208 Lower Circular Road.

Madras, Addison & Co.

Rangoon, Dodge & Seymour, Ltd.

Rangoon, G. McKenzie & Co., Ltd.

## JAPAN—

Tokyo, Yanase & Co., Gofukubashi,  
Marunochi.

## JAVA—

Bandoeng, Bragaweg, Fuchs & Rens,  
Ltd.

Djocjakarta, Toegoe, Fuchs & Rens,  
Ltd.

Semarang, Bondjong, Fuchs & Rens,  
Ltd.

Batavia, Fuchs & Rens, Ltd.

Soerabaja, Toendjoengan, Fuchs &  
Rens, Ltd.

Wetevreden, Tanah Abang, Fuchs &  
Rens, Ltd.

## NEW ZEALAND—

Auckland, Hope Gibbons, Ltd.

Christchurch, Hope Gibbons, Ltd.

Wellington, Hope Gibbons, Ltd.

## PHILIPPINE ISLANDS—

Manila, The Manila Trading and  
Supply Co., The Escolta.

Manila, C. W. Rosenstock & Co.,  
T. Pin Pin 115.

## STRAITS SETTLEMENTS—

Singapore, United Motor Works and  
Dodge & Seymour, Ltd.

## SUMATRA—

Medan, Baleisweg, Fuchs & Rens, Ltd.

## AFRICA

## BRITISH EAST AFRICA—

Nairobi, Carr, Lawson & Co., Ltd.

## SOUTH AFRICA—

Capetown, Automobile Electric Sup-  
ply Co., Ltd.

Durban, Auto. Electric Supply Co.,  
Ltd.

Johannesburg, Automobile Electric  
Supply Co., Ltd.

Port Elizabeth, Arkell & Douglas, 22  
Strand St.

## MEXICO

## MEXICO CITY—D. F.—

G. Saavedra, Avenida Hidalgo, 120.

## SOUTH AMERICA

## ARGENTINE—

Buenos Aires, Arthur S. Hawtrey &  
Co., Santiago del Estero, 354.

Buenos Aires, Cooper-Stewart En-  
gineering Co., Diagonal Roque  
Saenz Pena 567.

## BRAZIL—

Rio de Janeiro, Mestre & Blatge, Rua  
Do Passeio, 48-54.

## CUBA—

Havana, The Electrical Equipment  
Company of Cuba, Avenida de  
Italia No. 29.

Havana, C. H. Mackay, Sales Agent,  
Avenida, 34 y 36, Reparto Mira-  
mar.

## URUGUAY—

Montevideo, Wm. Cooper & Nephews,  
Calle Uruguay, 820.