

# 1920 Gardner

## Specifications

Source – Factory Literature

SEE: 1921 Specifications for equipment used



## Details of the Gardner-Light-Four

### Specifications

**Motor**—Four-cylinder, L-head type. Bore, 3½ inches; stroke, 5 inches. Cylinders cast en bloc, separate from crank case. Detachable cylinder head. Easily detached, as is lower half of crank case and cylinder block, making whole motor very accessible.

**Carburetor**—Carter, fed by Stewart vacuum system from 13-gallon tank at rear of chassis. Fitted with gauge.

**Ignition**—Distributor and high-tension coil. Westinghouse.

**Starting and Lighting**—Westinghouse two-unit system. Willard battery.

**Cooling**—Thermo-syphon with extra liberal water jackets and ample cellular type radiator with large four-blade belt-driven fan.

**Transmission**—Unit power plant construction with center control, three speeds and reverse, nickel-steel gears and shaft. Main shaft mounted on annular ball bearings.

**Clutch**—Borg & Beck disc type.

**Propeller Shaft** fitted with double universal joints.

**Rear Axle**—¾ floating type. Nickel-steel beveled gears. Timken and Hyatt roller bearings. Chrome nickel-steel drive shaft.

**Front Axle**—Drop forged 1-beam. .30-.40 carbon steel spindles and steering arms. Timken roller bearings in wheels.

**Brakes**—Ample in size and efficiency.

**Springs**—Semi-elliptic front and rear. Vanadium steel. Extra long rear springs underslung.

**Steering Gear**—Worm and sector type, irreversible, with 17-inch walnut wheel. Horn button on steering column.

**Wheels**—Wood, artillery type.

**Rims**—Straight side demountable.

**Tires**—32x3½, non-skid rear.

**Wheelbase**—112-inch.

**Top**—One-man top, beveled glass rear window. Hand-fitted curtains opening with doors on right-hand side. Outside nickel door handles.

**Finish**—Body, black enamel; hood and fenders, black enamel; wheels, red.

**Weight**—Approximately 2200 lbs. complete ready for shipment.

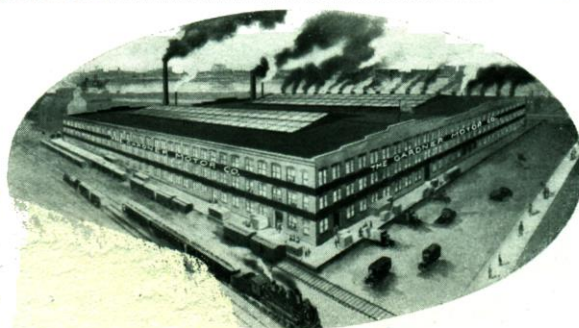
**Equipment**—Tools, tire outfit, Stewart-Warner speedometer driven from transmission, electric horn, extra tire rim, dash light, etc.

Price, Touring Car and Roadster \$1,125, F. O. B. St. Louis

### The Organization—Its Officers

Nearly Half a Century in Business

RUSSELL E. GARDNER.....	President
R. E. GARDNER, JR.....	Vice-President for Sales
F. W. GARDNER.....	Vice-President for Production
L. A. MOORE.....	Factory Manager
E. H. BEHRLE.....	Treasurer



GARDNER FACTORY  
125 Cars a Day



"IT SPEAKS FOR ITSELF"

## MECHANICAL SPECIFICATIONS

*Motor*—Four-cylinder, L-head type. Bore,  $3\frac{1}{2}$  inches; stroke, 5 inches. Cylinders cast en bloc, separate from crank case. Detachable cylinder head. Easily detached, as is lower half of crank case and cylinder block, making whole motor very accessible.

*Carburetor*—Special Carter, fed by Stewart vacuum system from 13-gallon tank at rear of chassis. Fitted with gauge.

*Ignition*—Distributor and high-tension coil. Westinghouse.

*Starting and Lighting*—Westinghouse two-unit system. Willard battery.

*Cooling*—Thermo-syphon with extra liberal water jackets and ample cellular type radiator with large four-blade belt-driven fan.

*Transmission*—Unit power plant construction with center control, three speeds and reverse, nickel-steel gears and shaft. Main shaft mounted on annular ball bearings. Extra long shifting lever.

*Clutch*—Borg & Beck disc type.

*Propeller Shaft* fitted with double universal joints.

*Rear Axle*— $\frac{3}{4}$  floating type. Nickel-steel beveled gears. Timken and Hyatt roller bearings. Chrome nickel-steel drive shaft.

*Front Axle*—Drop forged I-beam. .30-.40 carbon steel spindles and steering arms. Timken roller bearings in wheels.

*Brakes*—Ample in size and efficiency.

*Springs*—Semi-elliptic front and rear. Each leaf vanadium steel. Extra long rear springs underslung.

*Steering Gear*—Worm and full gear type, irreversible, with 17-inch walnut wheel. Horn button on steering column.

*Wheels*—Wood, artillery type.

*Rims*—Straight side demountable.

*Tires*—32 x  $3\frac{1}{2}$  non-skid rear.

*Wheelbase*—112-inch.

*Top*—One-man full gypsy top, beveled glass rear window. Hand-fitted curtains opening with doors on right-hand side. Outside nickel door handles.

*Finish*—Body, black enamel; hood and fenders, black enamel.

*Weight*—Approximately 2,270 lbs. complete ready for shipment.

*Equipment*—Tools, tire outfit, Stewart-Warner speedometer driven from transmission, electric horn, extra tire rim, dash light, etc.





"IT SPEAKS FOR ITSELF"

## BODY SPECIFICATIONS

### OPEN MODELS

*Design*—Exclusive Gardner straight line. Touring car, five passenger; Roadster, three passenger. Outside nickel door handles. Moulded doors.

*Upholstery*—Pipe pattern with coil springs knotted on ventilated wooden base insuring fine riding qualities. Front seat, 39 x 17; rear seat, 44 x 19. Roadster, 41 x 17.

*Finish*—Baked enamel—black.

*Top*—Genuine dreadnaught full gypsy, one-man style; rear curtain fitted with beveled plate glass window; side curtains hand fitted, arranged to open with doors.

*Special Features*—Curtains may be stowed in compartment in back of front seat; extra wide doors; double ventilated windshield; fuse box on dash; extra liberal leg room in both front and rear seats; large locker in back of seat of roadster in addition to compartment in rear deck.

*Equipment*—Speedometer, ammeter, lighting and ignition switch with locking attachments; set of tools, tire outfit, pump and jack; full lamp equipment, horn and extra rim.

### CLOSED MODELS

*Design*—Exclusive Gardner straight line. Sedan, five passenger, four door, with undivided front seat. Three-piece plate glass windshield.

*Upholstery*—Heavy velour of special pattern with head lining of same material. French fold over genuine full, heavy springs.

*Finish*—Special Gardner blue—black fenders.

*Mountings*—Serviceable, stylish mountings throughout include artistic dome light operated by automatic door switch as well as push button; lever-lock handles and pull-to handles.

*Special Features*—Sashless windows and doors fitted with noiseless automatic lifters. Rear quarter glasses drop into compartments in body panels. Perfection heater. Florentine cushion in tonneau. Handy pockets.

*Equipment*—Speedometer, ammeter, lighting and ignition switch with locking attachments; set of tools, tire outfit, pump and jack; full lamp equipment, horn and extra rim, tires 32 x 4 non-skid rear.