

1921 Gardner

Specifications

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Main Technical Specifications

Car Name and Model	Price and Passenger Cap'ty	Engine Make and Model	Type of Engine	Brake H.P. and R.P.M. Peak	Av. Mge. per Gal. Gas	Number of Cylinders	Bore and Stroke Inches	Cylinders Cast	Diam. and L'gth Con'ct'ng Rod Bearings	Valve Head M'terial	Valve Diam.	Piston M'terial	Piston Clearances		Piston Rings Width and Depth	Wrist Pin Diam.	Camshaft Drive	No. Crankshaft B'r'gs	Is Crankshaft Drilled for Oil?	Cooling
													Top	Bot.						
Gardner, G.	1195-5	Lycmng K	L	35 at 2200	18	4	3½x5	Block†	2 x2¼	C I	1½	C I	.020	.003	.188x.100	¾	Hel	2	No	T S

NOTES AND ABBREVIATIONS: ENGINE MAKE: Cont, Continental; H-Spill, Hershell-Spillman; North, Northway; Lycmng, Locoming; Dueson, Duesenberg; Ruten, Rutenber; R&V, Root & Van Dervoort; Own, made by car manufacturer. TYPE OF ENGINE: L, L-head; O, overhead valve; L&O, one set in head, one set in side; RD, rotary disc valve engine; Slve, Knight sliding sleeve; T, T-head; * indicates cylinders and crankcase cast integral. AVERAGE MILEAGE PER GALLON: Figures supplied by car manufacturers. CYLINDERS CAST: † indicates detachable cylinder head. VALVE MATERIAL: CI, cast iron; Tung, tungsten; CS, cast steel; N, nickel steel; C Cr, cobalt chrome; Chr, N, chrome-nickel; Van, vanadium. VALVE DIAMETER: ** four valves per cylinder; *† has two exhaust valves, one intake. All valve sizes alike except where noted. PISTON MATERIAL: CI, cast iron; Al, aluminum alloy; Opt, optional with purchaser; Semi S, semi-steel; Al&CI, combination aluminum head iron skirt. CAMSHAFT DRIVE: Hel, helical gear; Spur, spur gearing; Vert, vertical shaft drive to overhead camshaft. Names indicate make of silent chain used, thus, Link, Link Belt; Whit, Whitney; where word chain appears, make is not known. COOLING: TS, thermo-syphon; *†, thermostatic control of air shutter; ††, thermostatic control of water. All transmissions selective except Ford, planetary; Stevens-Duryea, progressive.

of the 1921 Passenger Cars

Cap'ty Cooling Syst'm	Oiling System	Capacity Oiling System	M'th'd of Heating Intake	Chassis Lubrications		Is Pressure Grease Lubricator Supplied	Fuel Feed	Type of Clutch	Transmission		No. Universal Joints	Type Rear Axle	Final Gear Ratio	Braking System		Car Propulsion and Rear Axle Torque	Wheelbase	Tires	Rear Spr'gs	Spring and Shackle Bolt Lubrication	Touring Car Weight Ready for the Road	Car Name and Model	
				Points Req. Grease	Points Req. Oil				No. Speeds	Location				Location of Brakes	Total Lgth. and Width								
				Service Brake	Hand Brake																		
5	F & S	6	E & W	7	24	No	Vac	Disc	3	Unit	2	¾-Flt	4.42	R W	35¾x1½	35¾x1½	Hotch	112	32x3½	Semi	Oil	2480 Gardner, G

NOTES AND ABBREVIATIONS: OILING SYSTEM: F&S, force and splash or spray; Spl, non-circulating splash; Circ S, circulating splash. METHOD OF HEATING INTAKE: E&W, exhaust gas and water; Exst, exhaust gas heat applied; *** special manifold using burning gas ignited by spark plug. CHASSIS LUBRICATION: Grease lubrication where pressure lubricator is supplied is by Alemite system; Figures give individual cups or nipples. FUEL FEED: Vac, vacuum tank; Pres, pressure only; Grav, gravity direct from main tank under seat or cowl. TRANSMISSION LOCATION: Unit, unit power plant used; Amid, transmission mounted as a separate unit from engine and clutch; Axle, transmission and rear axle in unit; TT, on forward end torque tube. BRAKING SYSTEM: RW, rear wheels; 4W&P, four wheels and propeller shaft; RWP, rear wheels and propeller shaft; RWT, rear wheels and rear of transmission. TOTAL LENGTH LINING: If lining is in two parts both are added to obtain figure shown. CAR PROPULSION AND REAR AXLE TORQUE: Hotch, Hotchkiss drive; T-Tube, separate torque tube; RR, radius rods. REAR SPRINGS: Semi, semi-elliptic; Ell, elliptic; Cant, cantilever; Plat, platform; ½ Cant, quarter elliptic cantilever; Trans, semi-elliptic transverse; Comp S, compound semi-elliptic transverse; D Cl, double cantilever. SPRING AND SHACKLE BOLT LUBRICATION: Oilless, oilless bushings whether brake lining or ordinary graphite type; Oil, oil cup feed without wicks; Wick feed indicated; Grease, either grease cups or special nipples for pressure device.

Make of Chassis Units of the 1921 Passenger Cars

Name of Car and Model No.	Engine	Clutch	Transmission	Universals	Rear Axle	Front Axle	Brake Lining	Rims	Springs	Steering Gear	Wheels	Frame	Body	Radiator
Gardner, G.....	Lycmng	B & B	Mech	Peters	Flint	Flint	.....	Jaxon	Champion	Dit	Hayes	Hvdlic	Auto	Fedders

NOTES AND ABBREVIATIONS: **ENGINE:** Own, made by car manufacturer; H-Spill, Hershell-Spillman; Cont. Continental; Ruten, Rutenber; Lycmng, Lycoming; North, Northway; R&V, Root & VanDervoort. **CLUTCH:** B&B, Borg & Beck; North, Northway; B-Lipe, Brown-Lipe; DG&M, Detroit Gear & Machine; Mech, Mechanics Machine Co.; M&E, Merchant & Evans. **TRANSMISSION:** G-Lees, Grant-Lees; B-Lipe, Brown-Lipe; North, Northway; DG&M, Detroit Gear & Machine. **UNIVERSALS:** UM Co, Universal Machine Co.; UP, Universal Products Co.; Cont, Continental Parts Co. **REAR AXLE AND FRONT AXLE:** Salls, Salisbury; Columbia, Columbia; Stanpar, Standard Parts Co.; Own, made by car manufacturer. **BRAKE LININGS:** Ray, Raybestos; Ther, Thermoid; Mul, Multibestos. **SPRINGS:** DSP, Detroit Steel Products Co.; IC, Iron City; Pr, Perfection; Row, Rowland; Hrvy, Harvey; Kalzoo, Kalamazoo; Alloy, Alloy Steel Spring Co.; Per, Spring Perch Co.; G City, Garden City. **STEERING GEAR:** Dit, Ditwiler. **FRAME:** P&B, Parish & Bingham; Hydlic, Hydraulic Pressed-Steel Co.; Det., Detroit. **BODY:** Rac, Racine; Cent, Central; Col, Columbus. **WHEELS:** RW, Rudge-Whitworth; Hk, Houk; Mut, Mutual; Jns, Jones. * indicates wire wheels standard equipment; † indicates disc wheels standard equipment; ** wire wheels certain models; †† disc wheels certain models.

Make of Main Items of Standard Equipment of 1921 Cars

Car Name and Model No.	Speedometer and Method of Drive	Power Tire Pump	Clock	Top Material	Curtain Material	Upholstery	Tires	Shock Absorbers
Gardner, G.....	Stewart-Tr	None	None	Drednaut	Drednaut	Drednaut	Goodyear-Firestone	None

NOTES AND ABBREVIATIONS: *, Supplied for certain models only. FW, Tr and Pr, under speedometer drive indicate front wheel, transmission and propeller shaft take-offs respectively. Where the unit is not supplied as standard equipment at no extra charge the word None appears. Under upholstery, leather indicates natural leather.

Electrical Equipment of the 1921 Cars

Car Name and Model No.	Ignition	Spark Plugs	Starting and Lighting	Head Lamps	Headlamp Lenses	Ammeter or Indicator	Horn	Storage Battery	Batt'ry Volts & Capacity	Bulb Voltage and C. P.			
										Head	Dash	Tail	Dimmers
Gardner, G.	Westing	Champ	Westing	Victor	Plain	Westing	United	Willard	6-90	6-17	6-2	6-2	None

NOTES AND ABBREVIATIONS: IGNITION: Conn. Connecticut; Westing. Westinghouse; At Kent. Atwater Kent; NE, North East. STARTING-LIGHTING: Lesce-Nev. Nesce-Neville; G&D. Gray & Davis; Al Chalmers. Allis-Chalmers; Wag. Wagner. HORN: NE, North East; EA, E. A. Laboratories. STORAGE BATTERY: Presto, Prest-O-Lite. BULBS: **, uses side lamps.

Important Bearing Equipment of 1921 Cars

Car Name and Model	Front and Rear Wheels	Differential	Clutch	Transmission	Axle Shaft
Gardner, G.	Timken	Hyatt	N D	N D	Hyatt

NOTES AND ABBREVIATIONS: ND, New Departure; Gwill, Gwilliam; Hy, Hyatt; Faf, Fafuir; HB, Hess Bright; Schtz, Schatz; B, Br'k, Bound Brook oilless bearing; Gur, Gurney; Bow, Bower.

Important Units of Engine Equipment of 1921 Cars

Name and Model of Car	Cylinder Head Gasket	Piston Rings and No. per Piston	Fan	Fan Belt	Oil Gauge	Carbureter and Size	Vacuum Feed
Gardner, G.	Victor	Lycoming 3	Oakes	Motor	.....	Carter 1	Stewart

NOTES AND ABBREVIATIONS: PISTON RINGS: Own, manufactured by the car builder; Diagonal, ordinary diagonally-split type. Where engine maker's name appears rings are either step-joint or diagonal split. FAN BELT: HLB, Hide Leather & Belting Co.; DOB, Detroit Oak Belting Co. VACUUM FEED: Stromberg † indicates a fuel pump not a tank. Where none appears fuel feed is by straight gravity or pressure.