

GARDNER

MODEL 8-B (1926)

REMY GENERATING, STARTING AND LIGHTING SYSTEM REMY IGNITION

BATTERY:—Prest-O-Lite, Type 617-RHK. 6 volt, 135 ampere hour. The starting capacity is 152 amperes for 20 minutes. The lighting capacity is 5 amperes for 27 hours. The positive (+) terminal is grounded.

IGNITION:—Coil Model 284-L. Distributor Model 648-B. Breaker contacts separate .020-.028 inch. They are made of tungsten. Resurface contacts with a fine, flat jeweler's file or on a medium hard oilstone. Distributor is semi-automatic. Manual advance is 20°. Maximum automatic advance is 15°. Breaker arm spring tension is 17-21 ounces. The breaker uses two sets of contacts with an eight lobed cam. The contacts must be synchronized so that they open at the same instant.

Oiling:—Screw up the grease cup on the side of the distributor housing one or two turns every two weeks or each 500 miles if the car is driven more than 500 miles in two weeks. Every 5000 miles place a small bit of vaseline on the face of the breaker cam and oil the wick oiler exposed when the rotor is removed with light engine oil.

Timing:—Breaker contacts begin to separate when the dead center mark for cylinders 1 and 8 on the flywheel is 10° or approximately one inch past the mark on the chain case cover. The ignition mark is on the front flywheel. To set timing, fully retard the manual advance lever. Then crank engine until piston No. 1 reaches top dead center on compression stroke. This is at the end of the upward stroke of the piston with both valves closed. Then turn the engine over 8° until the mark on the flywheel is opposite the mark on the chain case cover. Loosen the locknut in the center of the cam and shift cam until stationary set of contacts begin to separate. Tighten the locknut. Check contacts on movable plate to see that they open at the same instant. If they do not, loosen two screws holding mounting plate in position and rotate plate and contacts until they begin to separate. Then tighten the two screws. To make a close check on the contact opening, connect 6 volt lamps in the primary circuit and watch when they go out. When they do this the contacts are separating.

Firing Order:—The firing order is 1-6-2-5-8-3-7-4.

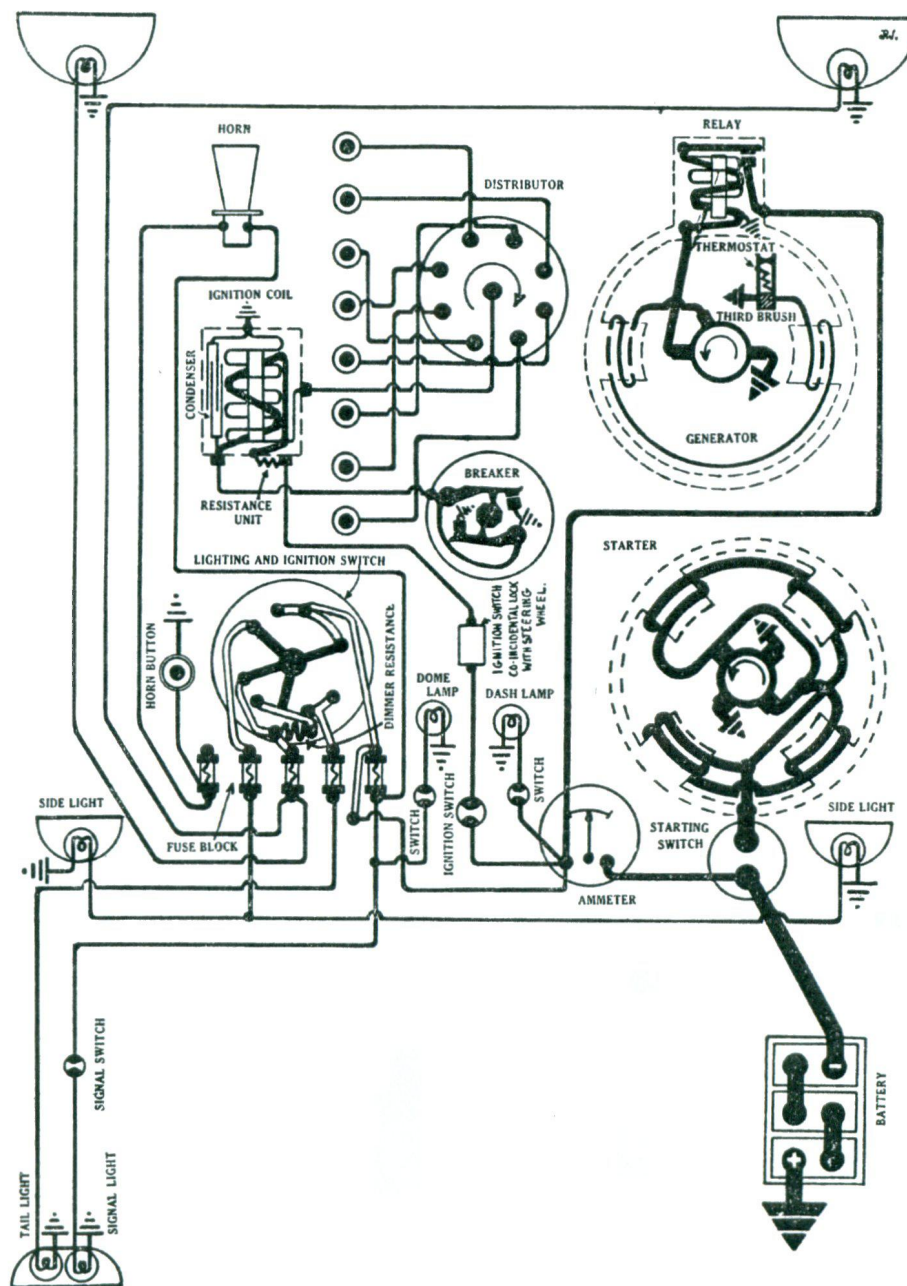
Spark Plugs:—The spark plug diameters are $\frac{7}{8}$ inch. Gaps are .025 inch.

STARTER:—Model 720-Q. Starter is connected to the engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at the commutator end. Starter brush tension is 24 ounces each.

Starter Data.			
Torque	R.P.M.	Volts	Amperes
0 lb. ft.	6000	5	65
15 "	Lock	3.15	570

Oiling:—Put 4 or 5 drops of light engine oil in the oiler on the commutator end of the starter every month or each 1000 miles if the car is driven more than 1000 miles in a month.

GENERATOR:—Model 941-D. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system combined with a thermostat. Thermostat contacts open at approximately 160° and reduce the generator output 50%. To adjust the charging rate loosen the screw on the generator end plate holding the third brush mounting plate and shift the third brush. Shifting the third brush in the direction of armature rotation increases the charging rate and in the opposite direction decreases the charging rate. The maximum charging rate is 18-20 amperes reached at 1450 R.P.M. of the generator.



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Amperes	Cold Test Volts	R.P.M.	Amperes	Hot Test Volts	R.P.M.
7.....	7.3.....	750			
21.....	8.35-8.5.....	1450	11.....	7.5.....	1900

The shunt field current is 5 amperes at 6 volts. The generator brush tension should be 22-28 ounces.

Oiling:—Put 4 or 5 drops of light engine oil in each of the generator bearing oilers every month or each 1000 miles if the car is driven more than 1000 miles in a month.

RELAY:—Model 265-B. Relay contacts close at 675 R.P.M. of the armature with a generator voltage of 7.25 volts and open with a discharge current of 0-2.5 amperes. The charging current is approximately 3 amperes at closing of contacts. Relay contacts separate .020 inch. Air gap between relay armature and coil core is .016 inch, contacts closed.

LIGHTING:—Combination Switch Model 420-H. Head and stop lamps are each 6-8 volt, 21 cp.S.C. Dash, tail and side lamps are each 6-8 volt, 3 cp.S.C. Dome lamp is 6-8 volt, 4 cp.D.C.

FUSES:—Lighting fuses are 20 ampere.