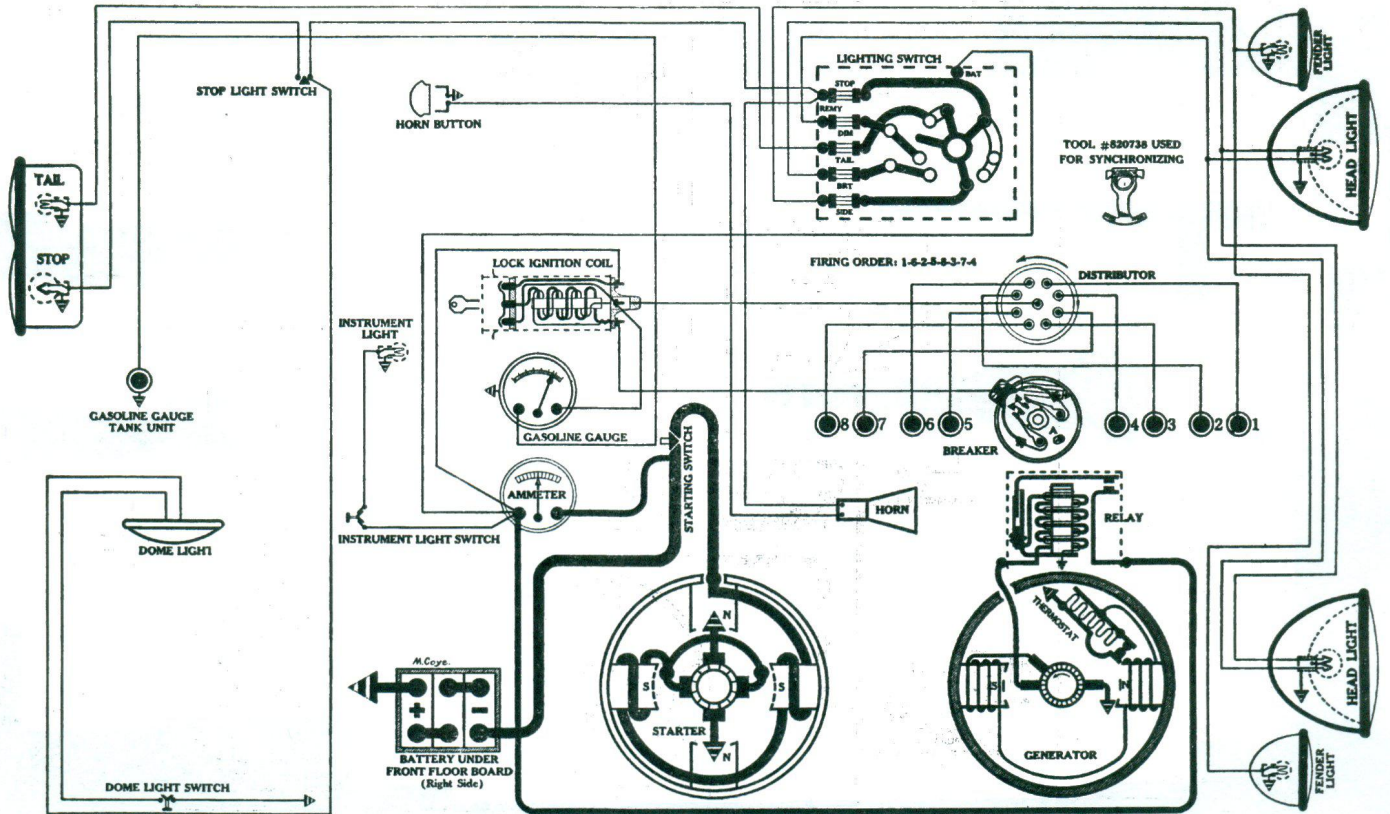


GARDNER

Model 140, Straight Eight, (1930-31)



BATTERY

Prest-O-Lite, 6-15-J, 6 volts. Positive Terminal Grounded
Starting Capacity—119 amps. for 20 minutes.
Lighting Capacity—5 amps. for 20 hours.
Box—Length, 10 5/16; width, 7; height, 9 1/8 inches.

STARTER

Rotation, R. H., Com. End
Delco-Remy, 716-A

Connection to Engine—Bendix drive.

NOTE: Gear reduction job. A 14 T. pinion cut on armature shaft drives 22 T. pinion on Bendix shaft.

Running Free—50 amps. at 5 volts, 4000 R.P.M.
Cranking Engine—175 to 180 amps. at 4.5 volts.
Lock Torque—14 pound-feet, 350 amps., 3.2 volts.
Brush Spring Tension—24 to 26 oz. on each.
Starting Switch—Delco-Remy, 406-D.

IGNITION

Rotation, L. H., Top View
Delco-Remy, 658-B

Breaker—Contact separation .022 inch.
Contact Spring Tension—18 to 20 oz. on each.
Timing—With No. 1 Piston on T.D.C., power stroke, fly-wheel mark "No. 1 T.D.C." opposite pointer, spark fully advanced, rotor opposite No. 1 Dist. Cap Terminal; breaker points just open.
Spark Plugs—7/8 inch (Champion No. 4); Gap .025 inch.
Firing Order—1-6-2-5-8-3-7-4.
Manual Advance—15 degrees (on Flywheel).
Automatic Advance—15 degrees (on Flywheel).

Eng. R.P.M.	Degrees Advance (on flywheel)	Dist. R.P.M.	Degrees Advance (on cam)
300	0-0	150	0-0
1000	2.5-6.5	500	1-3
1800	13-17	900	6.5-8.5

Lock Ignition Coil—Delco-Remy, 526-W.

NOTE: This unit is a combined ignition switch and coil. Impossible to "jump out" ignition switch with wire to run engine. Coil has three "primary" terminals marked "Bat.", "Gauge", and "Timer". Coil must be connected as marked.

GENERATOR

Rotation, L. H., Com. End
Delco-Remy, 955-H

Performance Data—Gen. cold. Thermostat closed.

Amps.	R.P.M.	Volts	Amps.	R.P.M.	Volts
0	575	6.5	15	1200	8.1
3	700	7.	20	1450 (Max.)	8.3
6	800	7.1	19	1700	8.3
11	1000	7.9			

NOTE: Thermostat opens about 165° F., reducing charging rate approx. 30-40%.

Motoring Freely—5 to 5 1/2 amps. at 6 volts.
Max. Stall Current—18-20 amps. at 6 volts.
Field Test—4 3/4 to 5 1/2 amps. at 6 volts, across field coils in series.
Brush Spring Tension—16 to 18 oz. on each.
Third Brush Adjustment—Loosen cover band. See Fig. 22, P. 7, Sec. AA.

RELAY

Delco-Remy, 265-B

Closes—7 to 7 1/2 volts.
Opens—0 to 2 1/2 amps. discharge.
Contact Gap—.015 to .025 inch.
Core Gap—.014 to .018 inch, contacts closed.

LIGHTING

Switch—Delco-Remy, 420-Q.
Location—Foot of steering column. Lights controlled by lever on steering wheel.
Fuses—Five, 10 amp. fuses under lighting switch cover.
Lamps—See P. 3, Sec. AA. **HEAD**—1110, (Bifocal); **FENDER**—63; **STOP**—87; **TAIL**—63; **INSTRUMENT**—63; **DOMES**—63.