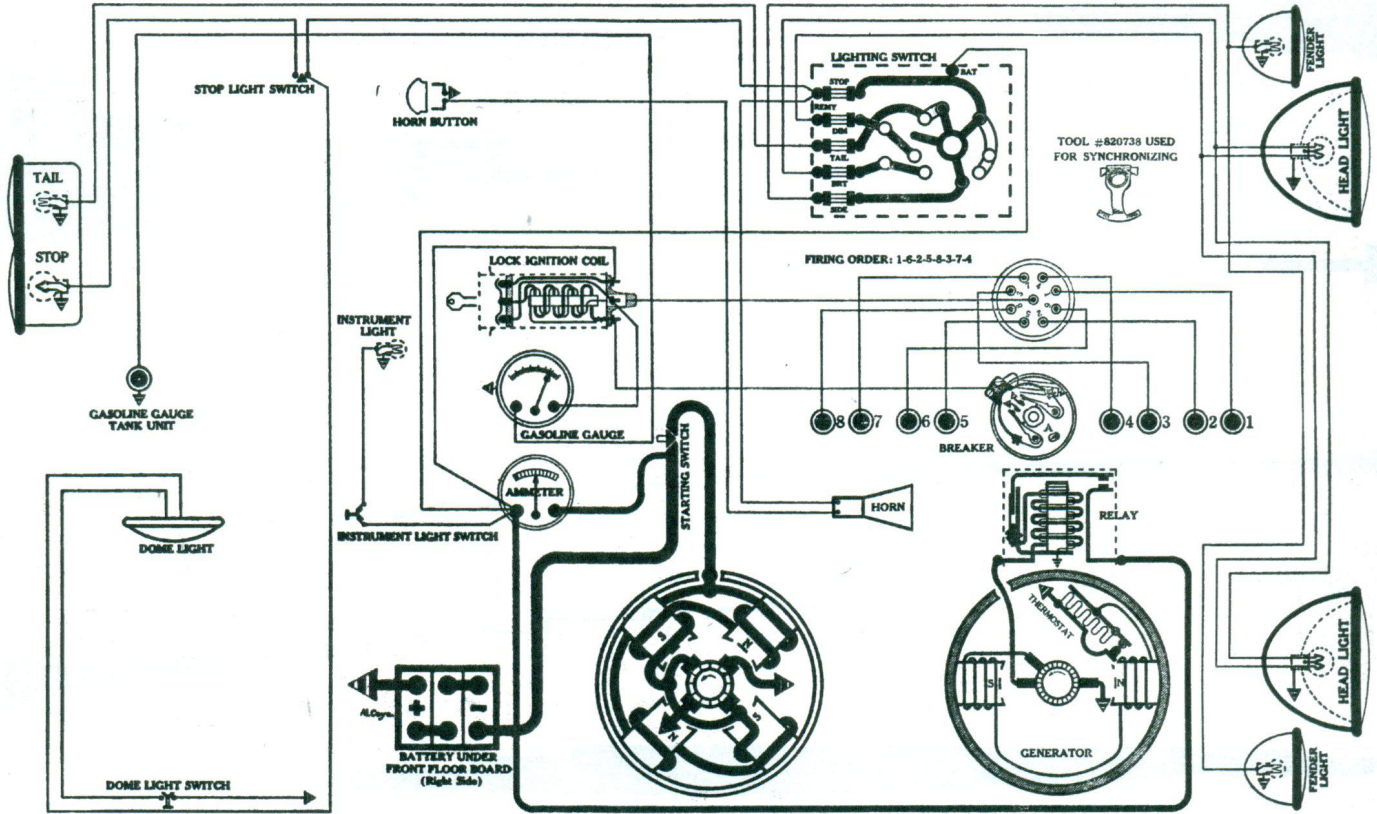


# GARDNER

Model 150, Straight Eight, (1930-31)



### BATTERY

**Prest-O-Lite, 6-17-RF, 6 volts. Positive Terminal Grounded**  
**Starting Capacity**—150 amps. for 20 minutes.  
**Lighting Capacity**—5 amps. for 25 hours.  
**Box**—Length, 13; width, 7; height, 9 1/8 inches.

### STARTER

**Rotation, L. H., Com. End**  
**Delco-Remy, 720-V**

**Connection to Engine**—Bendix drive.  
**Running Free**—65 amps. at 5 volts, 6000 R.P.M.  
**Cranking Engine**—185-190 amps. at 4.1 volts.  
**Lock Torque**—15 pound-feet, 570 amps., 3.1 volts.  
**Brush Spring Tension**—24-28 oz. on each.  
**Starting Switch**—Delco-Remy, 406-D.

### IGNITION

**Rotation, R. H., Top View**  
**Delco-Remy, 658-R**

**Breakers**—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 should just open.  
**Spark Plugs**—1/8 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	0-1	150	0-5
1000	2.5-6.5	500	1.25-3.75
1800	13-16	900	6.5-8

**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-K**

**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.