

# DAGMAR

MODELS 6-60, 6-70 (1925)

## DELCO GENERATING, STARTING AND LIGHTING SYSTEM

### DELCO IGNITION

**BATTERY:**—Prest-O-Lite, Type 615-RHK. 6 volt. Starting capacity is 135 amperes for 20 minutes. Lighting capacity is 5 amperes for 24 hours. The positive (+) terminal is grounded.

**IGNITION:**—Coil Model 2178. Distributor Model 5208. Breaker contacts separate .020-.025 inch. Resurface contacts with a fine flat jeweler's file or on a medium hard oilstone. Distributor is of the semi-automatic type. Manual advance is 30°. Automatic advance begins at 600 R.P.M. and reaches a maximum of 16-22° at 2000 R.P.M. The tension of the breaker arm spring is 16-20 ounces.

**Oiling:**—Put 8 or 10 drops of light engine oil in the oiler on the side of the distributor housing every two weeks or each 500 miles if the car is driven more than 500 miles in two weeks. Wipe out the distributor head with a small bit of heavy grease and polish with a soft clean cloth. Place a small bit of heavy grease on the face of the breaker cam under the fiber bumper of the contact arm every 1000 miles.

**Timing:**—Breaker contacts begin to separate when the piston entering power stroke reaches top dead center with the spark control lever and breaker assembly in the fully retarded position.

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

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

**STARTER:**—Model 181. Starter is connected to the engine through a Bendix drive. The direction of rotation is clockwise, looking at the commutator end. Starter brush tension should be  $2\frac{1}{4}$ - $2\frac{3}{4}$  pounds each.

| Starter Data   |            |            |         |
|----------------|------------|------------|---------|
| Torque         | R.P.M.     | Volts      | Amperes |
| 0 lb. ft. .... | Free ..... | 6 .....    | 36      |
| 27 " .....     | Lock ..... | 2.75 ..... | —       |

**Oiling:**—Put 8 or 10 drops of light engine oil in the oiler on the commutator end of the starter every month or each 1000 miles. The drive end bearing is oilless. Once each year saturate the wick in the oiler in the end of the Bendix housing with light engine oil.

**GENERATOR:**—Model 258. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system. To adjust generator output, remove the commutator cover band and shift the third brush mounting plate by means of the lug or handle on the plate. Shifting the third brush in a counter-clockwise direction increases the charging rate and in the opposite direction decreases the charging rate. Generator brush tension is  $1\frac{1}{4}$ - $1\frac{3}{4}$  pounds each.

| Generator Data |        |
|----------------|--------|
| Amperes        | R.P.M. |
| 7 .....        | 800    |
| 17 .....       | 1600   |

**Oiling:**—Put 8 or 10 drops of light engine oil in each of the generator bearing oilers every two weeks or each 500 miles if the car is driven more than 500 miles in two weeks.

**RELAY:**—Relay is mounted on top of the generator. Relay contacts close when the voltage of the generator reaches 6.75-7.5 volts and open with a discharge current of 1-3 amperes. Relay contacts separate .025-.035 inch. Air gap between relay armature and coil core is .015-.020 inch, contacts closed.

**LIGHTING:**—Switch Model 1260. Head and stop lamps are each 6-8 volt, 21 cp. S.C. Dimmer lamps are 6-8 volt, 2 cp. S.C. Dash and tail lamps are each 6-8 volt, 2 cp. S.C.

**CIRCUIT BREAKER:**—A vibrating circuit breaker is mounted on the back of the switch. A current of 25-30 amperes causes this device to operate. While vibrating the current is 10-15 amperes.

