

FLINT

MODEL E-80 (1926)

DE JON GENERATING, STARTING, LIGHTING SYSTEM.

DE JON IGNITION.

BATTERY: — U. S. L. Type 3-HVX-6X 6 volt, 117 ampere hour capacity. The starting capacity is 127 amperes for 20 minutes. The lighting capacity is 5 amperes for 23.4 hours. The negative (-) terminal is grounded.

IGNITION: — Coil Model No. CA 4001. Distributor Model No. 1A-4001. Breaker contacts separate .015 inch. They are made of tungsten. When the condition of the contacts affects the ignition remove and resurface with a fine, flat jeweler's file. Ignition current is 6.3-6.5 amperes at 6 volts with ballast resistance cold. With resistance hot, ignition current is 3.5-3.6 amperes. On bench test secondary current will jump .391 inch between needle points and at atmospheric pressure with a distributor R.P.M. of 1000.

OILING: — Put 4 or 5 drops of light engine oil in the oiler on the side of the distributor housing every week or each 250 miles.

TIMING: — Breaker contacts separate when 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. SAE standard. Gaps are .022 to .025 inch.

STARTER: — Model No. SA-4001. The starter is connected to the engine by means of a Bendix drive. The direction of rotation is counter-clockwise looking at the commutator end.

Starter Data			
Torque.	R. P. M.	Volts.	Amperes.
0 lb. ft.	2800	5.0	40
.5 "	1600	5.5	100
2.5 "	1000	5.0	200
4.7 "	600	4.5	300
7.3 "	400	4.0	400
20.0 "	Lock.	4.0	800

OILING: — Put 4 or 5 drops of light engine oil in each of the starter bearing oilers every two weeks or each 500 miles.

GENERATOR: — Model No. DA-4001. The direction of rotation is counter-clockwise looking at the commutator end. Current regulation is by the third brush system. To adjust the charging rate turn the third brush screw located on the generator end plate. Turning the screw to the right increases the charging rate and to the left decreases the charging rate.

Cold Test		Hot Test	
Amperes	R. P. M.	Amperes	R. P. M.
3.75	500	1.2	500
12.25	800	9.0	800
15.5	1200	12.0	1200
13.75	1600	7.0	2400
5.5	3600	4.75	3600
8.25	2400		

Motoring freely at 150 R.P.M. generator draws 5 amperes at 6 volts. Shunt field current is 2.4 amperes at 6 volts. Each coil tested separately draws 9.6 amperes at 6 volts. Brush tension should be 1-1 $\frac{1}{4}$ pounds each.

OILING: — Put 4 or 5 drops of light engine oil in each of the generator bearing oilers every two weeks or each 500 miles.

RELAY: — De Jon Model RA-4001. Relay contacts close at 425 R. P. M. of the generator armature when the voltage of the generator reaches 7-8 volts, and open at 375 R. P. M. of the armature or 0-2 amperes discharge. Relay contacts separate .025-.035 inch. The air gap between the relay armature and coil core is .015 inch, contacts closed.

LIGHTING: — Clum Switch Model 10549. Head and stop lamps are each 6-8 volts, 21 cp. S. C. Dash, dome, side and tail lamps are each 6-8 volt, 2 cp. S. C.

FUSES: — Generator field fuse is 5 amperes. Lighting fuse is 20 ampere.

