

Jackson

Model 34 (1916)

Auto-Lite Starting and Lighting System Connecticut Ignition

Battery.—Battery is 6 volt, 85 ampere-hour. The negative (-) terminal is grounded at the starting motor.

Ignition.—Breaker contacts should open .018 inch to .020 inch. The tungsten contacts cannot be properly resurfaced by filing or sand papering. Should they become badly worn, affecting the ignition, the inner breaker mechanism should be renewed as directed on Page 50. In an emergency, contacts may be resurfaced sufficiently to operate 300 or 400 miles by drawing a piece of fine emery cloth between them.

Timing.—Contacts should begin to separate when the piston entering power stroke is on top dead center, or a trifle past, spark control lever and breaker assembly in the fully retarded position.

Firing Order.—The firing order is 1, 3, 4, 2.

Spark Plug Gaps.—Spark plug gaps should be .027 inch to .030 inch.

Oiling.—The cup under the breaker head should be filled with pure vaseline and turned down every month. If car is driven more than 1000 miles in a month, this should be done every 1000 miles. Never put in grease or oil.

Starter.—Starter is connected to the engine through a Bendix drive. It should crank the engine at 125 to 150 R. P. M., taking about 250 amperes.

Oiling.—The starter bearings are packed with grease. Bearings should be cleaned out thoroughly and repacked with grease twice a season.

Generator.—Generator current regulation is by reverse series field. Relay should close at about 10 and open at about 8 miles per hour. Clean contacts by drawing a piece of soft paper between them. If they are burned or pitted, resurface with a piece of worn No. 00 sand paper.

Output.—Generator output should be 12½ amperes at 1120 to 1370 R. P. M., 15 amperes at 1875 to 1800 R. P. M., and 17-19 amperes at 2400 to 2800 R. P. M. Relay should close at 230 to 270 R. P. M., the charging current being about .5 ampere immediately after. Relay should open when the discharge current reaches .0 to .5 amperes.

Testing.—When operating freely as a motor, generator should run at about 200 R. P. M., taking about 1.8 amperes. Shunt field should take approximately 1 ampere.

Brushes.—Use only the special copper-carbon composition brushes as furnished by the manufacturers. Ordinary carbor brushes will only cause trouble.

Oiling.—Put 5 or 6 drops of light engine oil in each of the generator oilers every two weeks. If car is driven more than 500 miles in two weeks, the oiling must be done every 500 miles.

Lamps.—Head lamps are 6-8 volts, 15 cp. Dash and tail lamps are in series. They are each 3-4 volts, 2 cp.

Fuses.—Lighting fuse is 20 ampere.

Model Numbers.—Starter Model is MF. Generator is Model GA.

