CUNNINGHAM

MODEL V, SERIES 2 (1917)

SERIAL NOS. V/2-1298 TO V/2-1597

WESTINGHOUSE GENERATING, STARTING AND LIGHTING SYSTEM

WESTINGHOUSE IGNITION

BATTERY.—Battery is 6 volt, 115 ampere-hour. The positive (+) terminal is grounded.

IGNITION.—Breaker contacts separate .006 inch. When the condition of the contacts affects the ignition, resurface with a fine, flat jeweler's file or worn No. 00 sandpaper. Adjust the distributor brush springs so that the brushes extend 1/4 inch from their holders when the distributor cap is removed but do not fall out. Brushes must move freely in their holders. See that the brushes on the top and bottom of the rotor are in place when installing the rotor.

OILING.—Put 3 or 4 drops of light engine oil in the oiler at the side of the ignition unit every month. If the car is driven more than 1000 miles in a month, the oiling must be done every 1000 miles.

BALLAST-RESISTOR.—There is a ballast resistor in the fuse box. A fuse must not be permanently substituted for this resistor. In case it is necessary to operate the car with the ballast defective, a 5 ampere fuse may be used temporarily, but the ballast must be replaced as soon as possible, as continued operation without it will result in serious burning of the breaker contacts. The resistor has a cold resistance of .43 to .47 ohms.

TIMING.—Breaker contacts begin to separate when the piston entering power stroke is on top dead center, spark control lever 2 inches from the fully retarded position. (First see that the breaker assembly is fully retarded when the control lever is in the fully retarded position. The breaker contacts are beginning to separate whne the end of the distributor rotor is directly opposite the V notch on the rim of the case.)

FIRING ORDER.—The firing order is 1R, 4L, 3R, 2L, 4R, 1L, 2R, 3L.

SPARK PLUG GAPS.—Spark plug gaps are .023 to .027 inch.

STARTER.—Frame No. 502. Starter is connected to the engine through a set of reduction gears meshed by the operator. Lock torque is 16 pound-feet, current being 550 amperes. Torque at 1500 R.P.M. is 2 pound-feet.

OILING.—Put 5 or 6 drops of light engine oil in the starter oilers every month.

GENERATOR.—Frame No. 256. Generator current regulation is by reverse series field. Maximum current output is 12-15 amperes, reached at 1500 R.P.M. of the armature or 20-25 miles per hour. Shunt field winding takes 1.5 to 2.5 amperes at 6 to 6.3 volts. Running freely as a motor, generator takes 2.5 to 3.5 amperes at 6.0 to 6.3 volts.

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

RELAY.—Relay closes at 380-430 R.P.M. of the armature or 7-9 miles per hour and opens at 330-380 R.P.M. of the armature or 5-7 miles per hour. Relay opens with a discharge current of 0-2 amperes. Relay closes when the voltage of the generator reaches 7.5 to 7.8 volts, battery disconnected.

LAMPS:—Head lamps are 6-8 volt, 21 cp. Fender lamps are 6-8 volt, 5 cp. Dome and pillar lamps are 6-8 volt, 4 cp. Dash lamp is 6-8 volt, 3 cp. Tail lamp is 6-8 volt, 2 cp.

