

CADILLAC

MODEL 59 (1920-1921)

DELCO GENERATING, STARTING AND LIGHTING SYSTEM DELCO IGNITION

BATTERY.—Exide, 6 volt, 130 ampere-hour. The positive (+) terminal is grounded.

IGNITION.—Coil Model No. 2115. Distributor Model No. 5206. Breaker contacts separate .020 inch. They are made of tungsten. When the condition of the contacts affects the ignition, remove and resurface with fine emery cloth or against the flat side of an emery wheel, finishing on a hard oil stone.

Oiling.—Remove the breather pipe at the rear of the distributor housing and pack the gear compartment with soft cup grease every 2000 miles.

Timing.—Breaker contacts begin to separate when piston on compression stroke is $1 \frac{21}{32}$ inches in advance of top center, spark control lever and breaker assembly in the fully advanced position. On the Model 59 (1920) cars, breaker contacts begin to separate when the flywheel marking "1-GA" is at the indicator, No. 1 piston of the left hand block entering power stroke, and the spark control lever and breaker assembly fully retarded.

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

Spark Plug Gaps.—Spark plug gaps are .023 inch.

STARTER-GENERATOR.—Model No. 162. The direction of rotation looking at commutator end is clockwise. The starter cranks the engine at 90-100 R.P.M., taking 140-150 amperes. The starter is connected to the engine through a set of reduction gears meshed by the operator.

GENERATOR.—Generator current regulation is by the third brush system. Generator begins to supply current at 7 miles per hour, and reaches the maximum current output of 16 amperes at 25 miles per hour or 1500 R.P.M. of the armature. Charging rate is varied by adjustment of the third brush setting. To move the third brush, first loosen the clamp nut on the front end of the generator one or two turns. Remove the cover band over the brushes and turn the third brush adjusting screw. Turn in a clockwise direction to increase the charging rate and in a counter clockwise direction to decrease the charging rate. Reseat the brush and tighten the clamp after the adjustment is made.

Oiling.—Put 4 or 5 drops of light engine oil in each of the starter-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.—There is no relay. The circuit between the generator and battery is controlled by the ignition switch.

LAMPS:—Head lamps are 6-8 volt, 18 cp. Side and dome lamps are 6-8 volt, 2 cp. Dash and tail lamps are 3-4 volt, 2 cp. On the 1920 cars, the side and dome lamps are 6-8 volt, 6 cp.

CIRCUIT-BREAKER.—A vibrating circuit-breaker takes the place of fuses. It requires 25 amperes to start the vibrator, but 3-5 amperes will cause it to continue.

