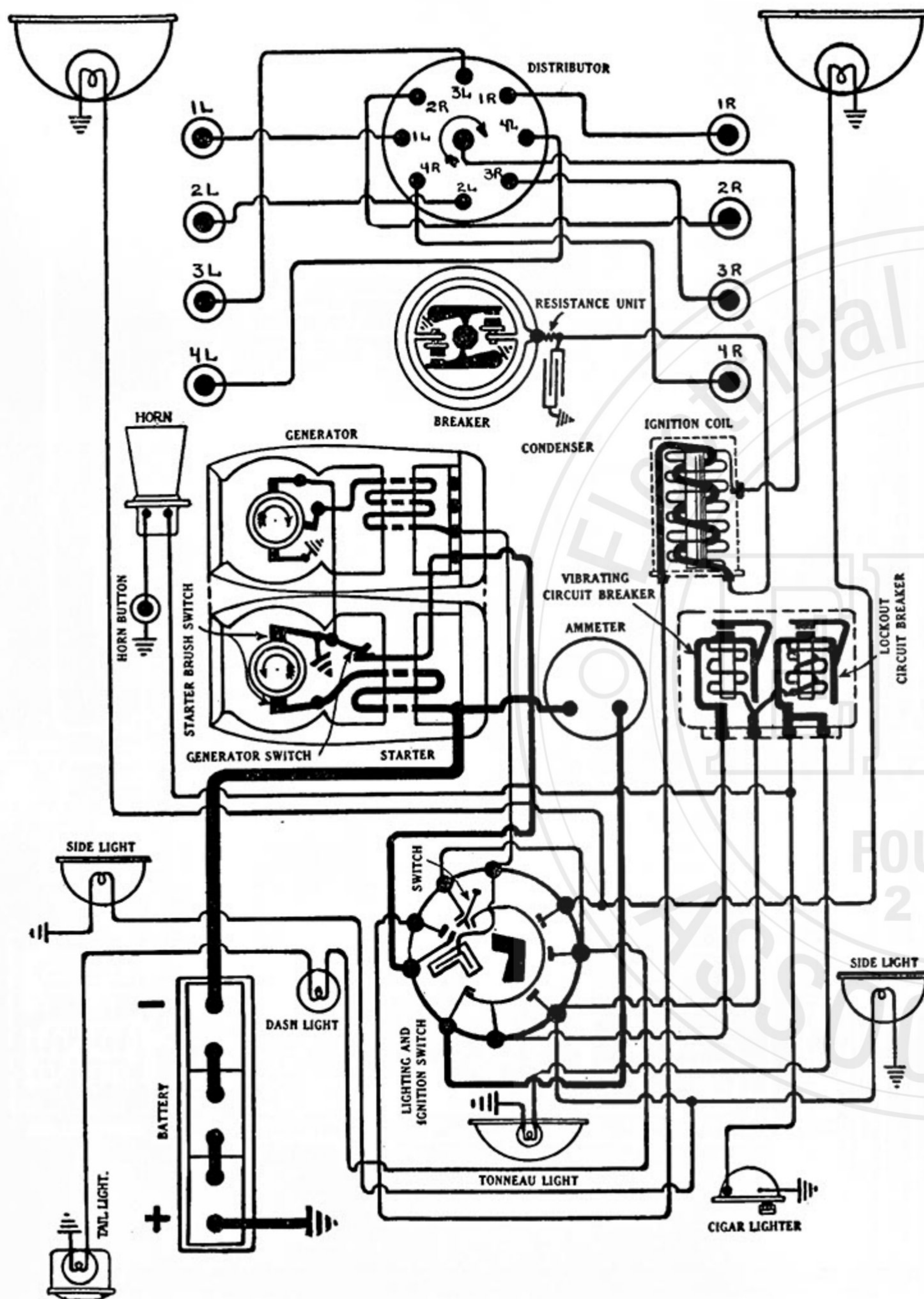




CADILLAC

MODEL 61 (1922-23)

DELCO GENERATING, STARTING AND LIGHTING SYSTEM

DELCO IGNITION

BATTERY.—Exide, Type 3-LXRV-15-2, 6 volt, 130 ampere-hour. The positive (+) terminal is grounded.

IGNITION.—Ignition Coil Model No. 2115. Distributor Model No. 5239. Breaker contacts separate .020 inch for new cars; or for a new set of contact arms, and set contact gaps to .015-.018 inch for cars having been driven over 2000 miles on the set of contact arms. They are made of tungsten. If the condition affects ignition, remove and resurface on a medium hard oilstone.

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.

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. 98. The direction of rotation is counter-clockwise, viewed from the starter commutator end. 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. Lock torque is 6 lb. ft. at 3 volts. Running free the starter takes 70 amperes at 6 volts. The tension of the starter brushes should be $2\frac{1}{4}$ to $2\frac{3}{4}$ pounds each.

GENERATOR.—Generator current regulation is by the third brush system. The direction of rotation is clockwise, viewed from the generator commutator end.

Amperes	Generator Data.—M.G. 98	R.P.M.
0		420
2		500
15		1000
17-19		1500
13-17		2000

To adjust the charging rate, loosen the generator cover band and the two screws holding the third brush mounting arm. Shift the third brush in the direction of armature rotation (clockwise) to increase the charging rate and in the opposite direction to decrease the charging rate. Tighten the screws after making the adjustment. The field current is 2.5 amperes at 6 volts. The tension of each of the generator brushes should be $1\frac{1}{4}$ - $1\frac{3}{4}$ pounds.

Oiling:—Put 8 or 10 drops of light engine oil in each of the motor-generator oilers every two weeks or each 500 miles. Once each year remove and clear the motor and generator clutches and repack with vaseline.

RELAY.—There is no relay. The circuit between the generator and battery is controlled by the ignition switch.

LAMPS.—Head lamps are 6-8 volts, 21 cp. Dimmer and side lamps are 6-8 volts, 4 cp. Dash and tail lamps are in series and are 3-4 volts, 2 cp. Tonneau lamps are 6-8 volts, 2 cp.

CIRCUIT-BREAKER.—A vibrating circuit-breaker takes the place of fuses. It requires 25 amperes to start the vibrator but 10-15 amperes will cause it to continue. A lock-out circuit breaker protects the horn, backing lamp and signal lamp circuits. A current of 25-30 amperes causes it to open the circuit.