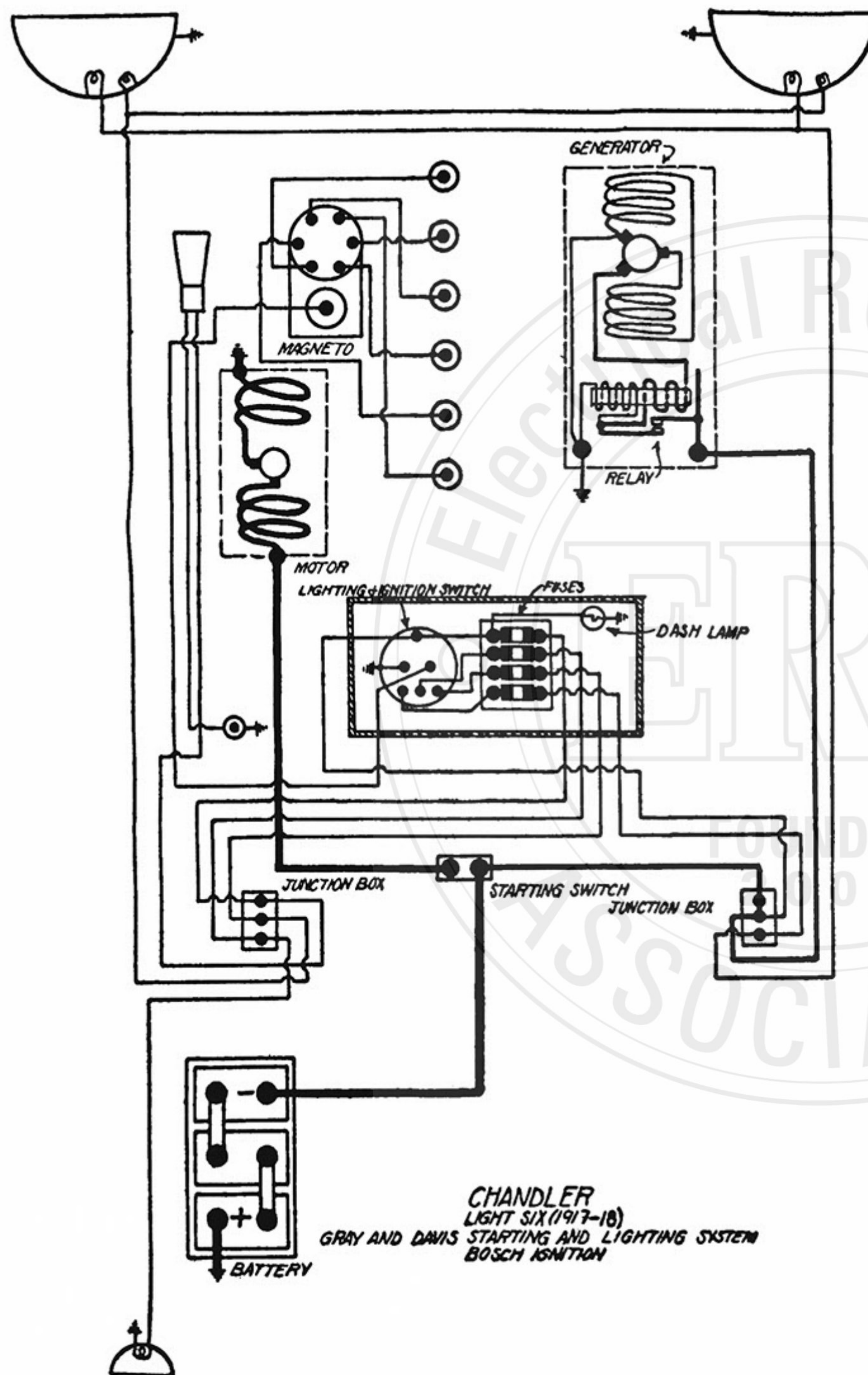




CHANDLER
LIGHT SIX (1917-18)
GRAY AND DAVIS STARTING AND LIGHTING SYSTEM
BOSCH IGNITION

Chandler

Light Six (1917-18) (Serial Nos. 35,001 and up)
Gray and Davis Generating, Starting and Lighting
System

Bosch Magneto Ignition

Battery.—Battery is 6 volt, 80 ampere-hour. The positive (+) terminal is grounded.

Ignition.—Breaker contacts separate .014 inch to .016 inch. When the condition of the points affects the ignition, resurface with a fine, flat jeweler's file or worn No. 00 sand paper.

Oiling.—Put 2 or 3 drops of light machine oil in magneto oilers every month. If car is driven more than 1000 miles in a month, the oiling must be done every 1000 miles.

Timing.—Breaker contacts separate when piston entering power stroke is on top dead center spark control lever and breaker assembly in the fully retarded position.

Firing Order.—The firing order is 1, 5, 3, 6, 2, 4.

Spark Plug Gaps.—Spark plug gaps are .026 inch.

Starter.—Starting motor is No. 126. It is connected to the engine through a Bendix drive. Operating freely, starter takes 35 amperes at 3 volts, and runs at 2200 R. P. M. With the same current starter runs at 4500 R. P. M., with 5.5 volts, and at 5000 R. P. M., with 6 volts. The torque is 1.5 pound-feet at 1660 R. P. M., taking 100 amperes at 5.75 volts. Pressure of motor brushes on commutator is $2\frac{1}{4}$ pounds.

Oiling.—Put 4 or 5 drops of light engine oil in each of the starter bearing oilers every month.

Generator.—Generator current regulation is by third brush system.

GENERATOR DATA, TYPE No. 400

Amperes	R. P. M.	Miles per Hour
0.0	400	6
6.0	600	9
12.0	800	12
13.5	1000	15
14.4	1200	18
14.8	1400	21
14.4	1600	24
14.0	1800	27
12.0	2400	36
10.0	3000	45
8.0	3600	54

Generator is driven at $1\frac{1}{2}$ times engine speed. Rotation is counter-clockwise, looking at commutator end. Position of third brush is adjustable by means of a rack and pinion movement operated by turning a screw, accessible through an opening in the end plate. Turn the screw to the right to increase the charging rate and to the left to decrease the charging rate.

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.

Relay.—Relay closes at 7 miles per hour and opens at 5 miles per hour. Charging current is 1 to 3 amperes at closing, and discharge current 0 to 2 amperes at opening of relay contacts. Contacts separate .015 inch. Minimum air gap between armature (moving member) and coil core is .020 inch. Clean relay contacts by drawing unglazed paper between them. If badly burned or pitted, resurface with well worn No. 00 sand paper. Remove all grit. Adjust before again putting into service.

Lamps.—Head lamps are 6-8 volt, 18 cp. Dimmer lamps are 6-8 volt, 4 cp. Dash lamp is 6-8 volt, 4 cp. Tail lamp is 6-8 volt, 2 cp.

Fuses.—Fuses are 20 ampere.