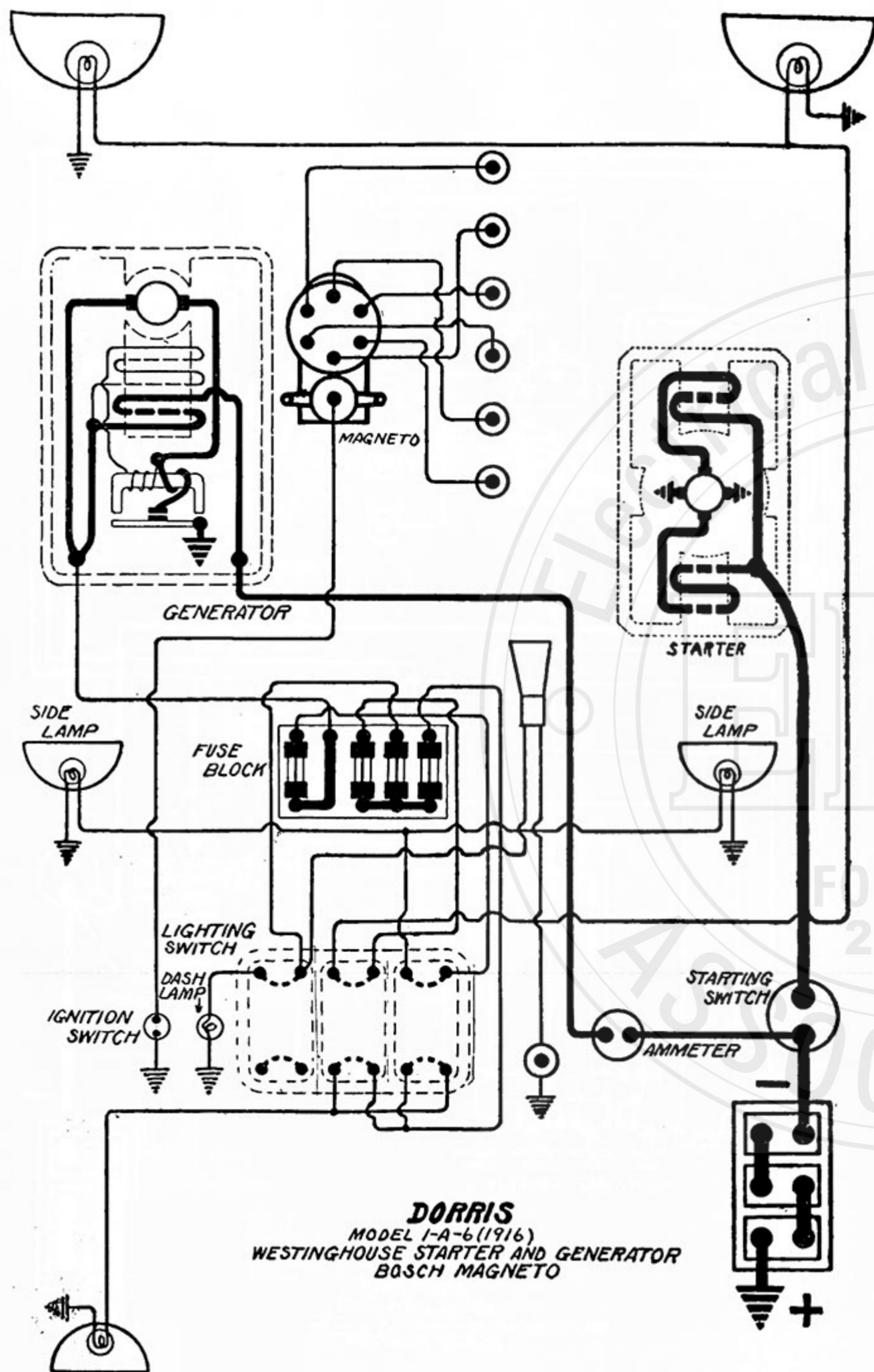




DORRIS

MODEL 1A-6 (1916)

WESTINGHOUSE GENERATING, STARTING AND LIGHTING SYSTEM BOSCH MAGNETO IGNITION

BATTERY.—Exide, 6 volt, 100 ampere-hour. The positive (+) terminal is grounded.

IGNITION.—Model DU6. Breaker contacts separate .014 to .016 inch. When the condition of the contacts affects the ignition, resurface with a fine, flat jeweler's file or worn No. 00 sandpaper.

OILING.—Put 3 or 4 drops of light engine oil in each of the magneto oilers every month. Put a small amount of vaseline on the fiber bumper of the contact arm, applying with a toothpick. If the car is driven more than 1000 miles in a month, these attentions must be given every 1000 miles.

TIMING.—Breaker contacts begin to separate when the 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 .025 inch.

STARTER:—Frame No. 315. Starter is connected to the engine through a Bendix drive. The lock torque developed by the starter is 11.5 pound-feet, current being 400 amperes at 4.25 volts. Torque at 1400 R.P.M. is 2 pound-feet, current being 125 amperes at 5.5 volts.

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

GENERATOR.—Model No. 208. Generator current regulation is by reverse series field. Maximum charging rate is 11-15 amperes, reached at 1500 R.P.M. of the armature or 25 miles per hour.

Amperes	Generator Data	R.P.M.
0		425
8		650
11-15		1500

With generator hot, the maximum charging rate reduces to 9-12 amperes. Running freely as a motor, the generator takes 2.5 to 3.5 amperes at 6 to 6.3 volts. The shunt field winding takes 1.5 to 2.5 amperes at 6 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 425-475 R.P.M. of the armature or 8 miles per hour, and opens at 375-425 R.P.M. of the armature or 6 miles per hour. Relay must be adjusted to close when the voltage of the generator reaches 7 to 7.5 volts, battery disconnected. Relay must open when the discharge current from the battery reaches 0-2 amperes. Clean relay contacts by drawing unglazed paper between them. If badly burned or pitted, resurface with well worn No. 00 sandpaper. Remove all grit. Adjust before again putting into service.

LAMPS.—Head lamps are 6-8 volt, 15 cp. Side lamps are 6-8 volt, 4 cp. Dash and tail lamps are 6-8 volt, 2 cp.