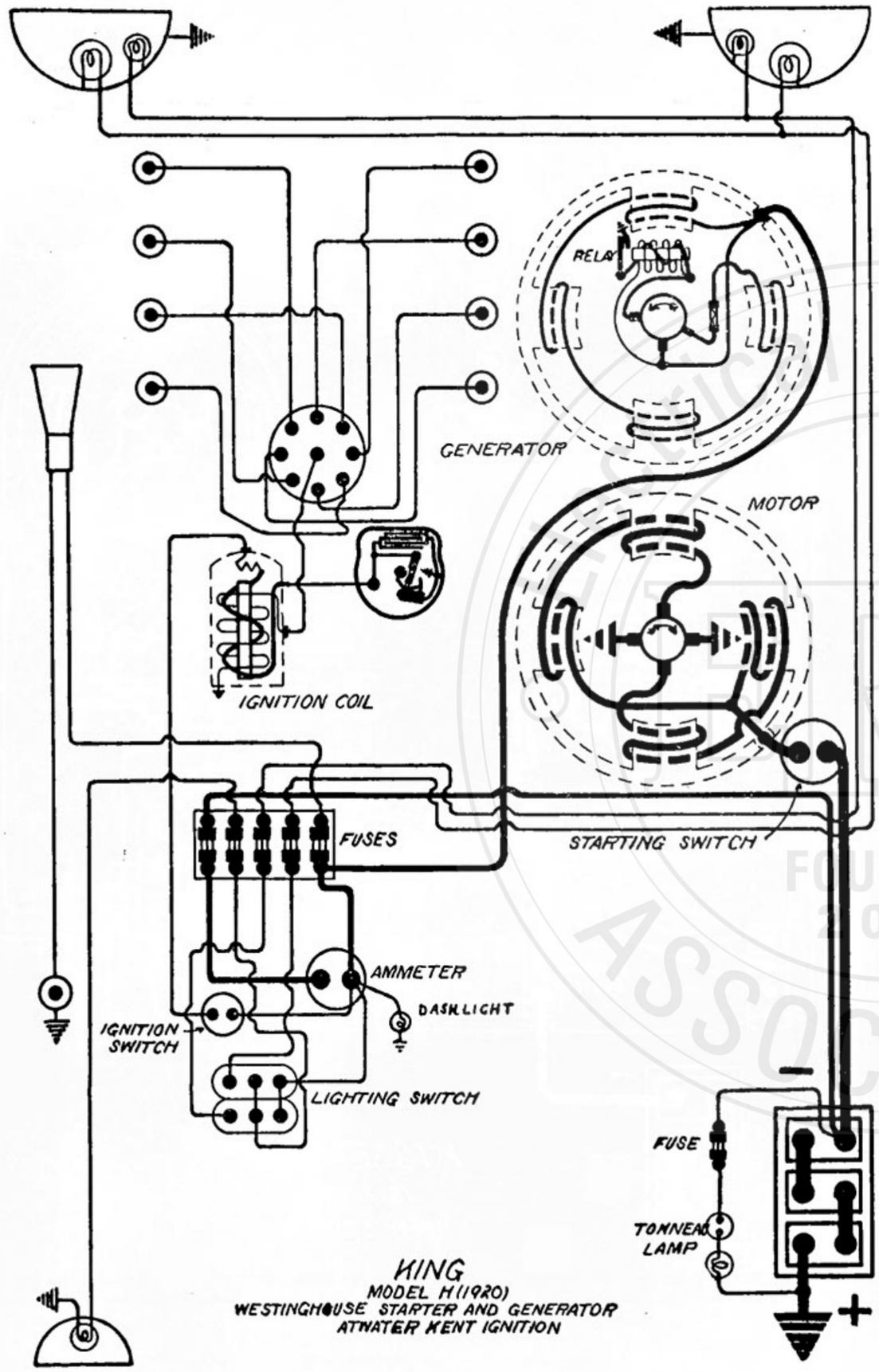

KING

MODEL G, H, J, K (1920-21-22-23)
WESTINGHOUSE GENERATING, STARTING AND LIGHTING SYSTEM
ATWATER KENT IGNITION

BATTERY.—Prest-O-Lite, Type 615-RHN, 6 volt, 120 ampere-hour. The positive (+) terminal is grounded.

IGNITION.—Type CC. Breaker contacts separate .006 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 oilstone.

OILING.—Remove the distributor cap every two weeks and put 4 or 5 drops of light engine oil in the exposed oil hole. Put a small amount of vaseline on the cam, applying with a toothpick. If the car is driven more than 500 miles in two weeks, these attentions must be given every 500 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 1R, 4L, 3R, 2L, 4R, 1L, 2R, 3L.

SPARK PLUG GAPS.—Spark plug gaps are .025 inch.

STARTER.—Frame No. 100. Starter is connected to the engine through a Bendix drive. Starter cranks the engine at 125 R.P.M., taking 250 amperes. Lock torque is 12 pound-feet, current being 475 amperes at 4 volts. Running freely, starter takes 75 amperes, armature revolving 4000 R.P.M.

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

GENERATOR:—Frame No. 150 and 35-AT. Generator current regulation is by the third brush system. Maximum current output is 15-16 amperes at 7.5 volts, reached at 1450-1750 R.P.M. of the armature or 25 miles per hour.

Generator Data

Amperes	R.P.M.	Volts
0	575	6.5
8.5-10.5	1000	7-7.5
15-16	1450-1750	7.5

Shunt field winding takes 3.25 to 4 amperes at 6 to 6.3 volts. Move the third brush in the direction of armature rotation to increase the charging rate, and in the opposite direction 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 the car is driven more than 500 miles in two weeks, the oiling must be done every 500 miles.

RELAY.—Relay is mounted in the generator frame. Relay closes at 575-625 R.P.M. of the armature or 7-9 miles per hour and opens at 525-575 R.P.M. of the armature or 5-7 miles per hour. Adjust the spring tension on relay armature so that the contacts open with a discharge current of 0-3 amperes. Adjust the air gap between the relay armature and coil core so that the contacts close when the voltage of the generator reaches 6.2-6.5 volts. Air gap between relay armature and coil core is .005 inch, contacts closed. Contacts separate .030 to .035 inch. Resistance of the shunt coil is 68 ohms. 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, 18 cp. Dimmer lamps are 6-8 volt, 4 cp. Dash and tail lamps are 6-8 volt, 2 cp.