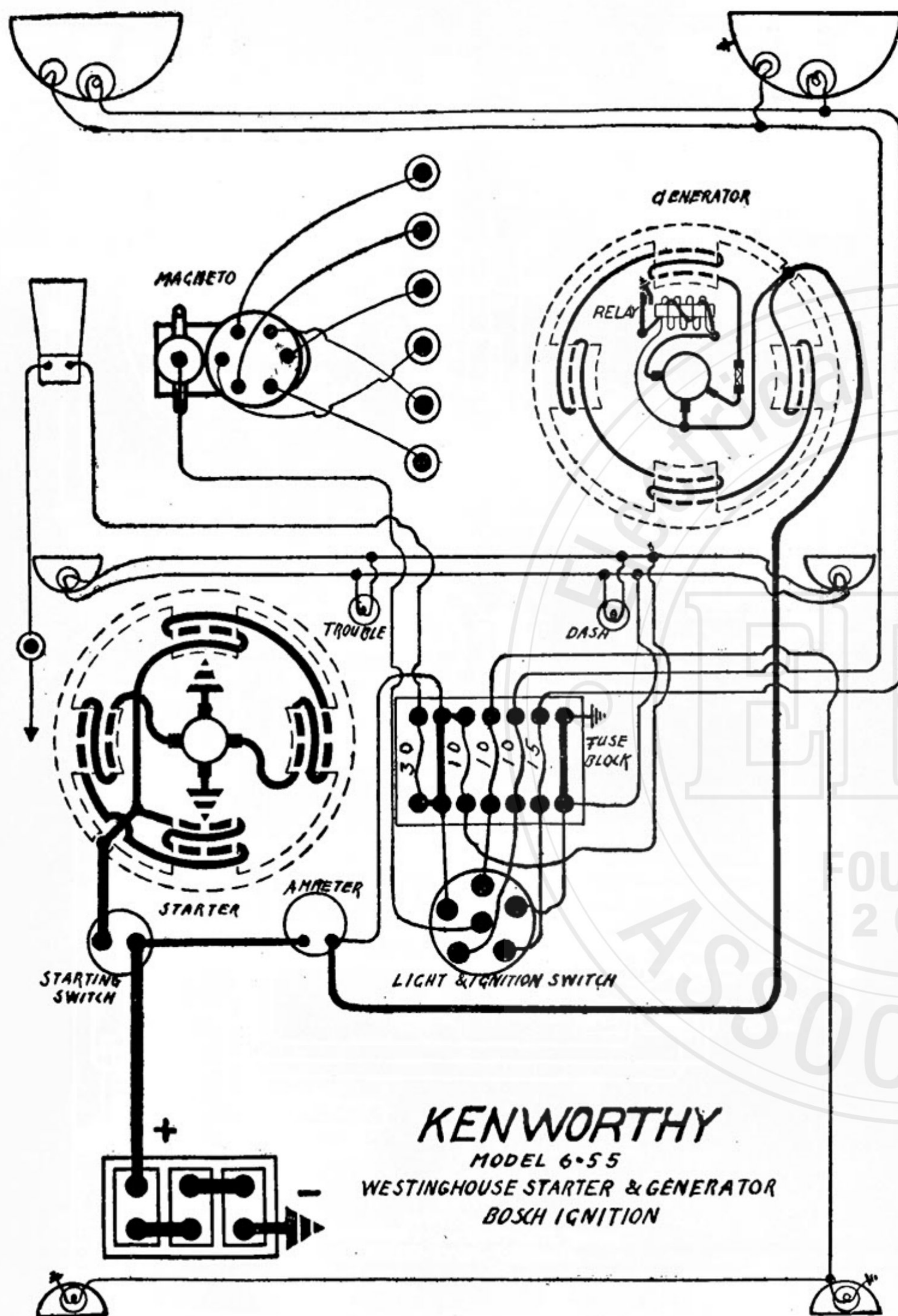




KENWORTHY

MODEL 6-55 (1920-21)

WESTINGHOUSE GENERATING, STARTING AND LIGHTING SYSTEM

BOSCH IGNITION

BATTERY.—Exide, 6 volt, 140 ampere-hour. The negative (—) terminal is grounded.

IGNITION.—Type DU-6. Breaker contacts separate .004 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 2 or 3 drops of light engine oil in the magneto oilers every two weeks. 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 500 miles in two weeks, these attentions must be given every 500 miles.

TIMING.—Breaker contacts 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 PLUGS.—Diameter, 7/8 inch. Spark gaps are .020 to .025 inch.

STARTER.—Frame No. 751. Starter is connected to the engine through a Bendix drive. Starter cranks the engine at 115-120 R.P.M.

Starter Data

Torque	R.P.M.	Amperes
2.5 lb. ft.	1450	140
7.5 lb. ft.	1150	200
12.5 lb. ft.	650	400
17.5 lb. ft.	500	530
21.0 lb. ft.	Lock	650

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

GENERATOR.—Frame No. 760.—Generator current regulation is by the third brush system. Maximum current output is 15-17 amperes, reached at 1250 R.P.M. of the armature or 16-20 miles per hour.

Generator Data

Amperes	Cold Test	R.P.M.	Amperes	Hot Test	R.P.M.
0		450	0		500
8		675	6		725
12		840	9		850
15-17		1250	12-14		1250
10		2000	7-8		2000

The cold test readings are obtained with a generator temperature under 95°F. The hot test readings are obtained after the generator has been operated one hour at 1800 R.P.M., charging a half-charged battery. Shunt field current is 2.8 to 3.25 amperes at 6 volts. When the generator is operating freely as a motor, current is 3.5 to 5 amperes at 6 to 6.6 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 is mounted in the generator frame. Relay closes at 500-550 R.P.M. of the armature or 7-9 miles per hour and opens at 450-500 R.P.M. of the armature or 5-7 miles per hour. Adjust the spring tension on the 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 to 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, 21 cp. Dimmer and side lamps are 6-8 volt, 5 cp. Dash and tail lamps 6-8 volt, 2 c.p.

FUSES.—Fuses are 10, 15 and 30 ampere. (See diagram.)