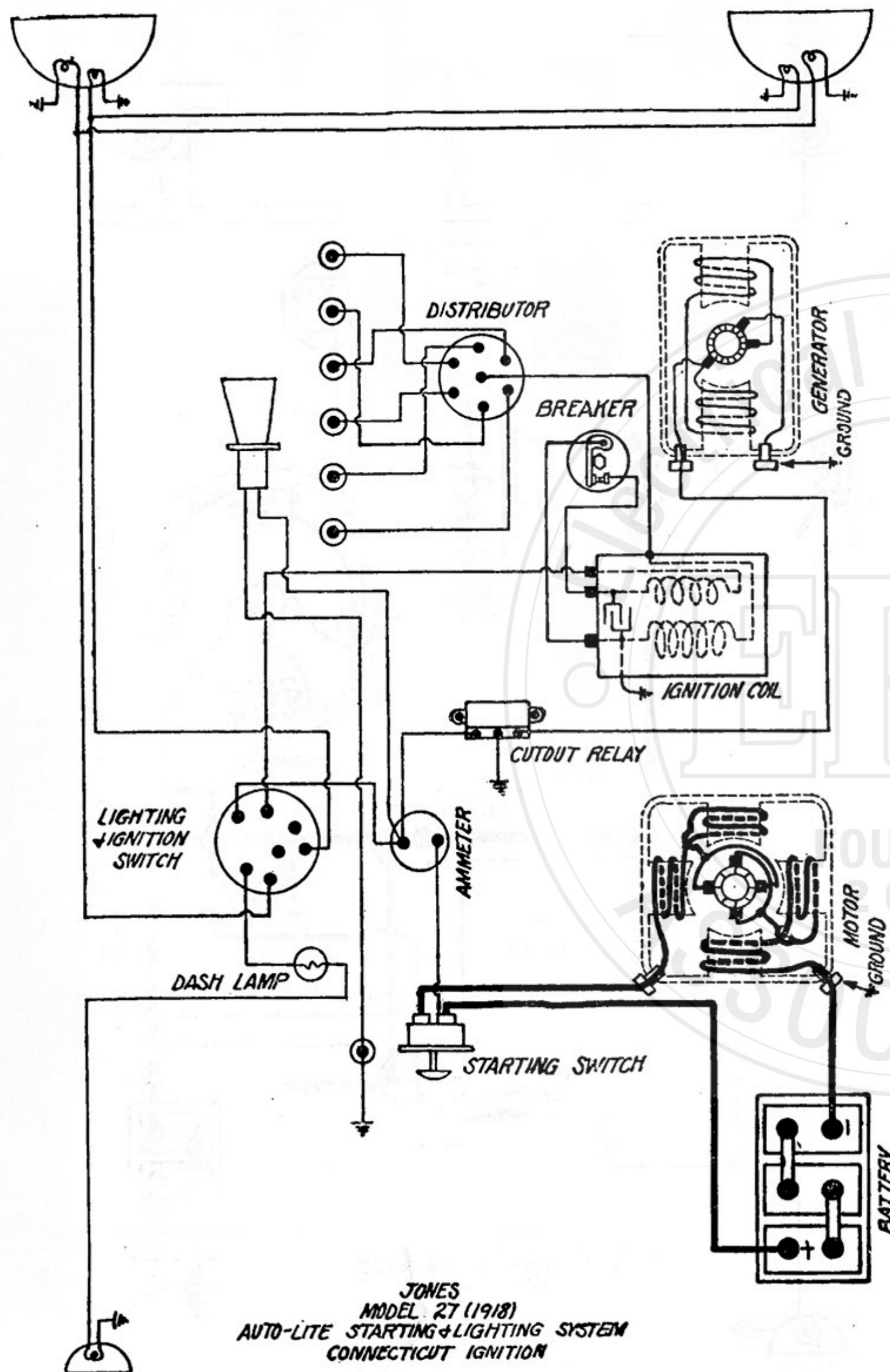




JONES

MODEL 27 AND 28 (1918-19-20)

AUTO-LITE GENERATING, STARTING AND LIGHTING SYSTEM

CONNECTICUT IGNITION

Battery.—Battery is 6 volt, 100 ampere-hour. The negative (—) terminal is grounded at the starting motor.

Ignition.—Breaker contacts should separate .023 inch. They are made of tungsten. They will operate properly even though quite rough. Should they become badly worn, affecting the ignition, the inner breaker mechanism should be renewed as directed on Page 50. In an emergency, contacts may be resurfaced enough to give service for 300 or 400 miles by drawing a piece of fine emery cloth between them.

Timing.—Contacts should begin to separate when piston entering power stroke is on top dead center, spark control lever $1\frac{1}{2}$ inch from the fully retarded position. (First see that breaker assembly is fully retarded when lever is in the fully retarded position.)

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

Spark Plug Gaps.—Spark plug gaps should be .027 inch.

Oiling.—Refill the cup under the breaker head with pure vaseline and turn down every month. If car is driven more than 1000 miles in a month, this must be done every 1000 miles. Do not put grease or oil in the cup.

Starter.—Starter is connected to the engine by a Bendix drive. Cold engine, heavy oil, tight bearings or other obstructions, or damp, grounded or short circuited windings will cause high current and low speed during the cranking operation. Discharged, dry or sulphated battery, defective battery connections, defective switch contacts, defective starter connections, dirty commutator, high mica, dirty or sticking brushes, defective connections between armature coil and commutator bars or open circuits are the chief causes of low speed and low current.

Oiling.—Starter bearings are packed with soft cup grease. Grease should be renewed twice a season. No oil is required.

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

Amperes	GENERATOR DATA, MODEL GH	R. P. M.
5.0		760- 820
10.0		1020-1100
12.5		1200-1300
15.0-17		1950-2250

If operated freely as a motor, generator armature should revolve at 450 R. P. M., generator taking 2.7 amperes. Much higher speed indicates damp, grounded or short circuited field coils. Greater current or lower speed indicates tight bearings or damp, grounded or short circuited armature windings or commutator. Shunt field should take 1.7 amperes.

Relay.—Relay should close at 550-600 R. P. M. of generator armature. Charging current should be .5 to 1.5 amperes at closing, and discharge current 0 to 1 ampere at opening of relay contacts.

Oiling.—Put 4 or 5 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 should be done every 500 miles.

Lamps.—Head lamps are 6-8 volt, 21 cp. Dimmer lamps are 6-8 volt, 4 cp. Dash and tail lamps are in series. They are each 3-4 volt, 2 cp.