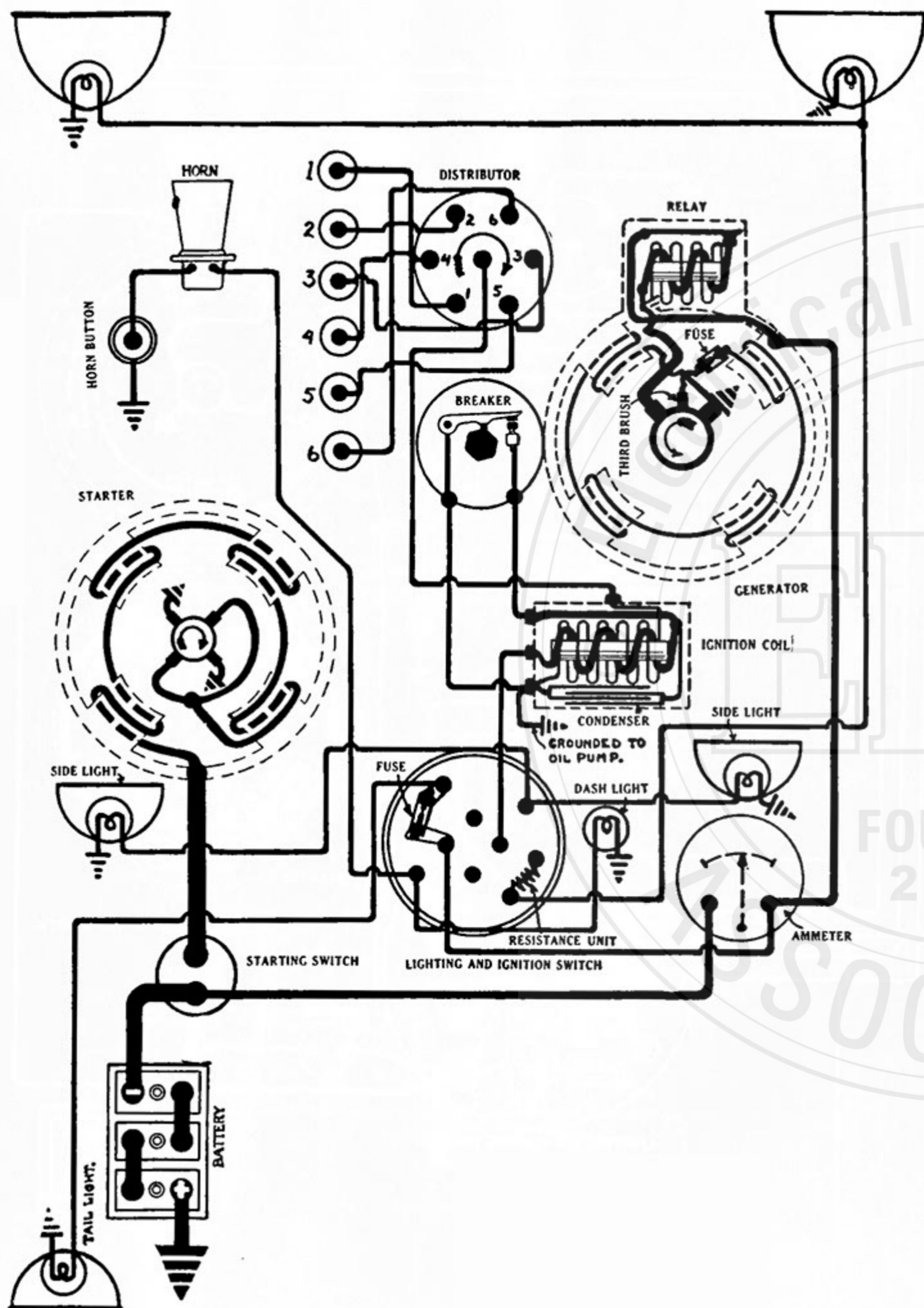




HAYNES

MODEL 60 (1923-24-25)

LEECE-NEVILLE GENERATING, STARTING AND LIGHTING SYSTEM KINGSTON IGNITION

BATTERY:—Prest-O-Lite. Type 615-SHC. 6 volt. The positive (+) terminal is grounded. Starting capacity (20 minute rate) is 150 amperes for 20 minutes. Lighting capacity (5 ampere rate) is 5 amperes for 27 hours.

IGNITION:—Coil Model 68. Distributor Model 42. Breaker contacts separate .018-.020 inch. They are made of tungsten. Resurface contacts with a fine flat contact file or on a medium hard oilstone.

Oiling:—Put 5 or 6 drops of light oil in each of the distributor oilers every two weeks or each 500 miles.

Timing:—Breaker contacts begin to separate when piston No. 1 entering power stroke is slightly past top dead center when the flywheel mark "Inlet open" is opposite the indicator mark on the flywheel housing. The spark control lever and breaker assembly must be in the fully retarded position.

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

Spark Plugs:—Spark plugs are S.A.E. $\frac{7}{8}$ -18. Gaps are .025 inch.

STARTER:—Model 447-M. Starter is connected to the engine through a Bendix drive. The direction of rotation is clockwise, looking at the commutator end.

Starter Data

Torque	R.P.M.	Volts	Amperes
0 lb. ft.	3100	6	40
15 "	Lock	4	420

Oiling:—Starter bearings do not require oiling.

GENERATOR:—Model 504-G. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by third brush shunt field. To adjust generator output, remove commutator cover band and loosen two nuts on third brush bracket. Then shift third brush in a counter-clockwise direction to increase the charging rate and in the opposite direction to decrease the charging rate. Tighten the nuts after making the adjustment. The maximum charging rate is 18 amperes (cold) reached at 1200 R.P.M.

Generator Data

Cold Test			Hot Test		
Amperes	Volts	R.P.M.	Amperes	Volts	R.P.M.
0	6.5	450	0	6.5	450
14	—	800	10	—	800
18	—	1200	15	—	1200

Oiling:—Put 4 or 5 drops of light oil in the generator oilers every two weeks or each 500 miles.

RELAY:—Type GC-6. Relay is mounted on the generator. Relay contacts close at 450 R.P.M. when the generator voltage reaches 6.5 volts and open with a discharge current of 0-4 amperes. Contacts separate .062 inch. Air gap is .016 inch with contacts closed.

LIGHTING:—Briggs and Stratton Switch Model 37200. Head lights are 6-8 volt, 21 cp. S.C. Dash, tail and side lights are each 6-8 volt, 3 cp. S.C.

FUSES:—Generator field fuse is 5 amperes. Lighting fuse on switch is 20 amperes.