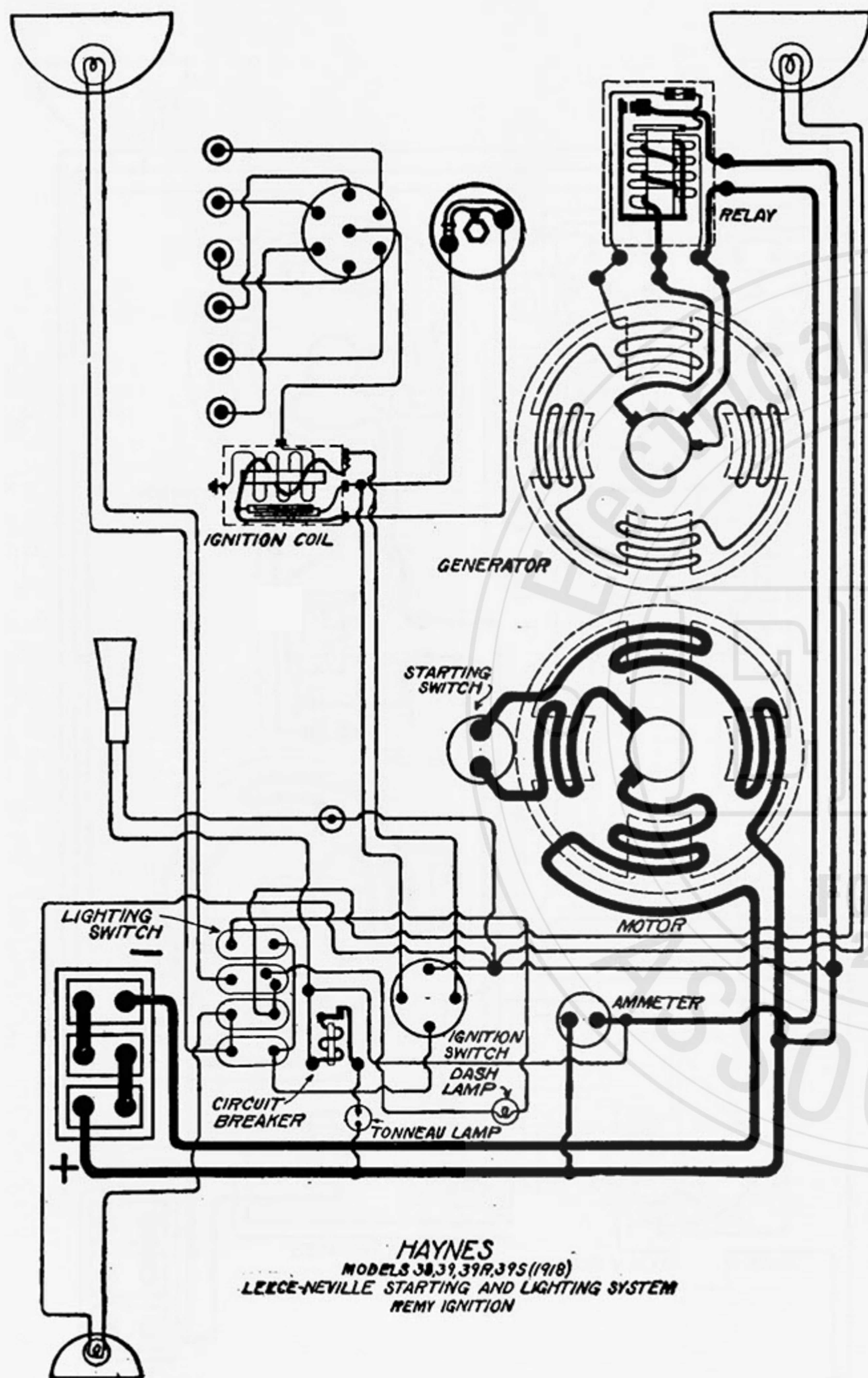


# HAYNES

## MODEL 36, 36-R, 37 (1916-17) 38, 39, 39-R, 39-S (1918)

### LEECE-NEVILLE STARTING AND LIGHTING SYSTEM REMY IGNITION.



HAYNES  
MODELS 36, 37, 39, 39S (1918)  
LEECE-NEVILLE STARTING AND LIGHTING SYSTEM  
REMY IGNITION

- Battery.**—Battery is 6 volt, 100 ampere-hour. The two wire system is used.
- Ignition.**—Breaker contacts should open .018 inch to .020 inch.
- Care.**—If they become badly burned or pitted, resurface them with a fine, flat jeweler's file or a small strip of worn No. 00 sand paper. Every month put a small trace of vaseline on the fiber bumper.
- Timing.**—Contacts should begin to separate when the top dead center mark on the fly-wheel is 1 inch past the indicator, spark control lever and breaker assembly in the fully retarded position.
- Firing Order.**—The firing order is 1, 4, 2, 6, 3, 5.
- Spark Plug Gaps.**—The proper spark plug gap is .020 inch to .025 inch.
- Oiling.**—Use soft cup grease in the grease cup under the distributor head and turn down two turns every two weeks. If the car is driven more than 500 miles in two weeks, screw down the grease cup every 500 miles.
- Starter.**—The starter is connected to the engine through a Bendix drive. Put several drops of light engine oil in each of the motor oilers every month. The starter should crank the engine at a speed of 125 to 150 R. P. M. Although the motor may take as large a current as 550 amperes when starting to turn the engine over, the current during full cranking speed should not exceed 200-225 amperes.
- Generator.**—Voltage regulation is by third brush system. The third brush is adjusted by turning the thumb nut, on the commutator end of the generator, with a pair of pliers. Relay is mounted on the generator. Relay should close at 6-8 and open at 5-7 miles per hour, high gear car speed.
- Charging Rates.**—The maximum charging rate should not exceed 16 amperes. The maximum rate should be reached at 18-20 miles per hour.
- Fuse.**—There is a 5 ampere fuse in shunt field circuit, on relay base. Should this fuse burn out, look first for open circuits or defective connections in the charging circuit.
- Trouble Shooting.**—To test the field windings, lift the third brush and impress 6 volts on the field terminals. If the current flow is more than 4 amperes a short or ground exists. If less than 4 amperes flow look for broken wires or poor connections. Before replacing a burned fuse, always locate the fault which caused it to melt. Brushes which do not move freely in their holder will cause this fuse to burn out.
- Lamps.**—Head lamps are 6-8 volts, 16 cp. Dimmer lamps are 6-8 volts, 12 cp. Dash lamp is 6-8 volts, 2 cp. Tail lamp is 6-8 volts, 2 cp. Dome lamp is 6-8 volts, 4 cp. Tonneau lamp is 6-8 volts, 2-4 cp.
- Circuit Breaker.**—Circuit breaker takes the place of fuses in the lighting and ignition circuits.

