

HAYNES

MODELS 40, 40-R, 41, 44, 46 (1917-18-19-20)

LEECE-NEVILLE GENERATING, STARTING AND LIGHTING SYSTEM DELCO IGNITION

BATTERY.—Battery is 6 volt, 115 ampere-hour. The two-wire system is used.

IGNITION.—Breaker contacts separate .020 to .025 inch. When the condition of the points affects the ignition, resurface with a fine flat jeweler's file or worn No. 00 sandpaper.

OILING.—Refill the cup under the distributor head with soft cup grease and turn down two turns every two weeks. Put a small amount of vaseline on the fiber bumper of the contact arm, using 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 top dead center mark on flywheel is $\frac{1}{2}$ inch past indicator, spark control lever and breaker assembly in the fully retarded position.

FIRING ORDER.—The firing order is 1R, 6L, 4R, 3L, 2R, 5L, 6R, 1L, 3R, 4L, 5R, 2L.

SPARK PLUG GAPS.—Spark plug gaps are .025 to .030 inch.

STARTER.—Starter is connected to engine through a Bendix drive. Starter cranks engine at 125 to 150 R.P.M. Current during cranking operation is 200 amperes, but current may reach 550 amperes when first starting to turn the engine over.

OILING.—Put 4 or 5 drops of light engine oil in each of starter oilers every month.

GENERATOR.—Generator current regulation is by third brush system. Third brush is moved by turning the nut on front head of generator with a pair of pliers. Maximum charging rate is 16 amperes, reached at 18-20 miles per hour.

TESTING GENERATOR.—To test for a short in the shunt field circuit, remove the third brush from its holder and connect it to the negative (—) terminal of a 6 volt storage battery. Then connect the positive (+) terminal of the battery to the positive (+) terminal of an ammeter and connect the negative (—) terminal of the ammeter to the screw at the end of the fuse clip. Four amperes should flow. A greater current indicates damp, grounded or short circuited field coils.

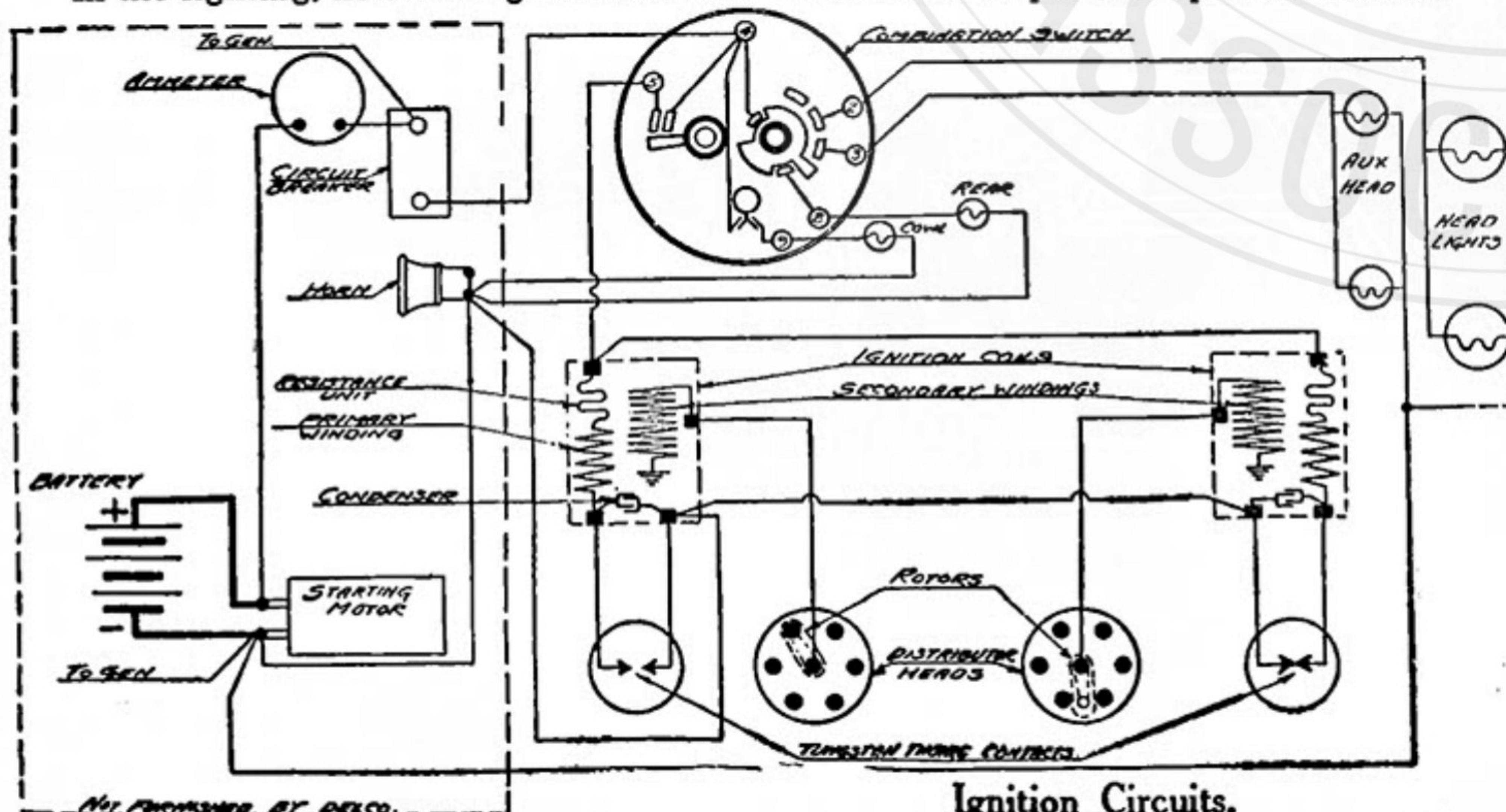
OILING.—Put 5 or 6 drops of light engine oil in each of generator oilers every two weeks. If car is driven more than 500 miles in two weeks, oiling must be done every 500 miles.

RELAY.—Relay closes at 7-9 and opens at 5-7 miles per hour. 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. Small head lamps are 6-8 volt, 12 cp. Dash lamp is 6-8 volt, 2 cp. Tail lamp is 6-8 volt, 2 cp.

FUSES.—Generator fuse is 5 ampere.

CIRCUIT BREAKER.—There is a locking type circuit breaker to take the place of fuses in the lighting, horn and ignition circuits. It takes 25 amperes to open this device.



Ignition Circuits.

