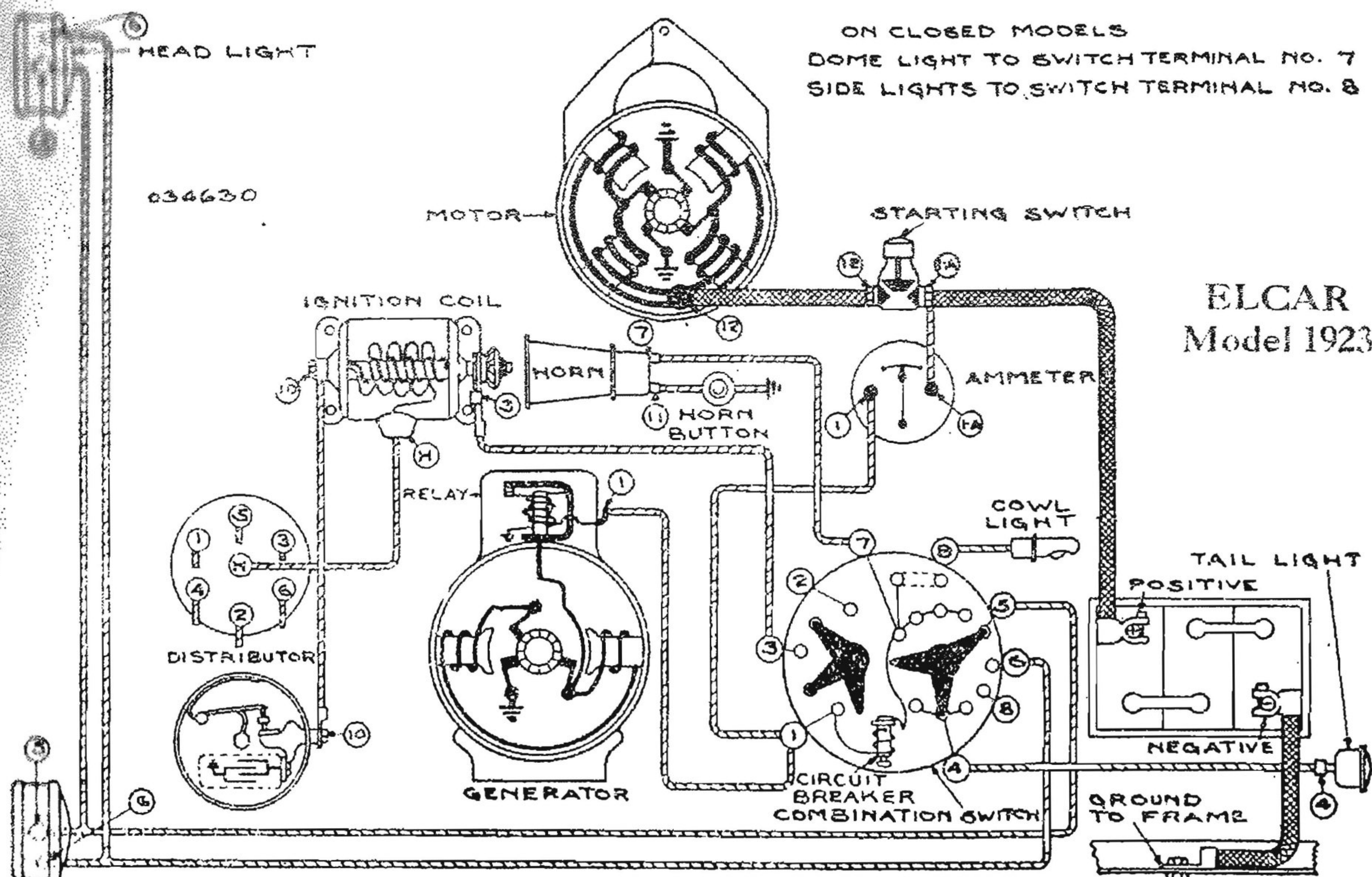


ELCAR, MODEL 1923 (8-R Continental)

Courtesy Delco-Remy Corp., Anderson, Ind.



TEST DATA

Elcar Model 1923, 8-R Continental

STARTING MOTOR No. 181, Delco-Remy

Stall Torque—27 Ft. lbs., 2.75 volts at motor.

Brush Spring Tension—2¼-2¾ lbs. on each.

Bearings and Lubrication—Plain bearing on commutator end of armature shaft; bronze bearing on opposite end. Apply 8-10 drops engine oil in the two oilers every 1,000 miles. Bendix gear shaft runs in oilless bearing.

GENERATOR No. 258, Delco-Remy

Generator Test—Hot, 4 Amperes minimum at 800 r.p.m. Maximum 17 Amperes at 1,600 r.p.m. Average output required, 15 Amperes.

Brush Spring Tension—1¼-1¾ lbs. each.

To Adjust Charging Rate—Loosen generator cover band. Shift third brush mounting plate in direction of armature rotation by means of handle on plate, to increase charging rate. Plate held in any position by friction clamp washers.

Note—Above readings taken at generator. Readings at ammeter on dash will be 2 Amperes lower. If generator is tested COLD, add 3 Amperes to above readings.

DISTRIBUTOR No. 5256, Delco-Remy

Firing Order—1-5-3-6-2-4.

Contact Separation—.020-.025".

Contact Spring Tension—13-16 oz.

Manual Advance—30 degrees.

Automatic Advance—Starts operating at 600 r.p.m.

Maximum Advance—30 degrees.

Total Manual and Automatic—51 degrees.

Timing Operation (How Done)—Fully retard spark lever. Place No. 1 piston in position represented by 1¼" past T.D.C. on flywheel. Loosen advance lever clamp screw. Turn distributor cup anti-clockwise until rotor segment occupies a position under the H.T. terminal connected to No. 1 spark plug. Then carefully adjust distributor cup until lobe of distributor cam is just separating the contact. Tighten clamp screw.

LIGHTING AND IGNITION SWITCH.

Circuit Breaker—Vibrating type. Starts 25-30 Amps. Operates 10-15 Amps.

Switch Circuit Tests—

Both levers "OFF"—1 & 7-4 & 5... Connected
Ignition lever "ON"—1, 2, 3 & 7... Connected
Light lever, 1st position—1, 7 & 4... Connected
Light lever, 2nd position—1, 7, 4 & 8... Connected
Light lever, 3rd position—1, 7, 6 & 4... Connected
Light lever, 4th position—1, 7, 5 & 4... Connected
Cowl button "ON"—1, 7 & 9... Connected