

JEWETT

'NEW DAY' MODEL 6-40 (1925) 6-45 (1926-27)

DELCO-REMY GENERATING, STARTING AND LIGHTING SYSTEM DELCO-REMY IGNITION

BATTERY:—Westinghouse, Type 6-OB-13, 6 volt, 115 ampere hour. Starting capacity is 114 amperes for 20 minutes. Lighting capacity is 5 amperes for 19 hours. The positive (+) terminal is grounded.

IGNITION:—Coil Model 525-A. Distributor Model 637-A. Breaker contacts separate .025 inch. They are made of tungsten. Resurface contacts with fine, flat jeweler's file or on a medium hard oilstone. Distributor is semi-automatic. Manual advance is 30°. Automatic advance is 20°. The tension of the breaker arm spring is 15-20 ounces. The stationary contact is mounted on a special crescent-shaped arm which moves in same arc as the breaker arm. To adjust contacts, loosen the screw holding the contact mounting arm and turn eccentric adjusting screw until desired contact opening is secured. Then tighten the mounting screw to hold adjustment.

Oiling:—Refill the grease cup under the distributor head and turn down two turns each month or each 1000 miles. Put a small bit of vaseline on the face of the breaker cam under the fiber bumper every month.

Timing:—Breaker contacts begin to separate when piston No. 1 entering power stroke reaches a position at which the marking '10-1-6' on the flywheel is 1½ inches past the indicator on the flywheel housing. This position is 11° 21' after top dead center. The manual spark control lever and breaker assembly must be in the fully retarded position.

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

Spark Plugs:—Spark plugs are ⅞ S.A.E. Standard. Gaps are .030 inch.

VALVE TIMING:—**INLET VALVES:**—Head diameter, 1⅜ inches. Stem diameter, ⅜ inch. Stem length, 5 13/32 inches. Tappet clearance, .006 inch (hot). Spring pressure, 50-55 pounds. Valve lift, 5/16 inch. Inlet opens 4° after top dead center and closes 46° after lower dead center.

EXHAUST VALVES:—Head diameter, 1¼ inches. Stem diameter, ⅜ inch. Stem length, 5 13/32 inches. Tappet clearance, .006 inch (hot). Spring pressure, 50-55 pounds. Valve lift, 5/16 inch. Exhaust opens 41° before lower dead center and closes 1° after top dead center. Valve stem guides are removable. Oversize valve stems are not made.

STARTER:—Model 711-E. Starter is connected to the engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at the commutator end. Starter cranks the engine at 120 R.P.M. drawing 175 amperes. Starter brush tension is 20-28 ounces. Starter switch is Model 404-U.

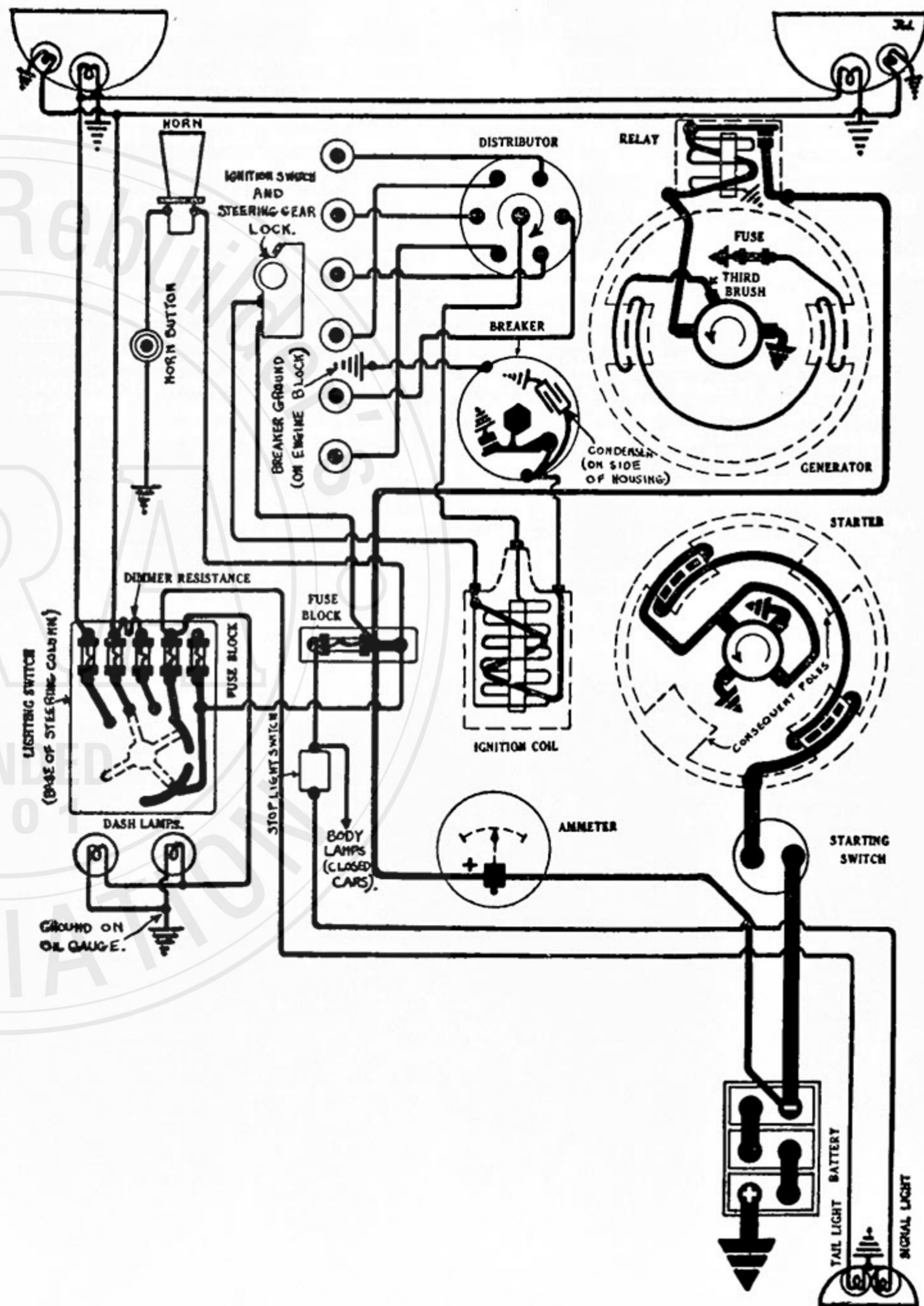
Starter Data

Torque	R.P.M.	Volts	Amperes
0 lb. ft.....	4500.....	5.....	70
10 ".....	Lock.....	3.7.....	450

Mounting:—Starter is mounted at right of engine by a modified S.A.E. No. 2 flange mounting. To remove starter, remove three mounting screws and slide starter from place.

Oiling:—Put 4 or 5 drops of light engine oil in the starter bearing oilers every month or each 1000 miles.

GENERATOR:—Model 943-A. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system. To adjust the generator output, loosen the small round headed screw on the generator end plate and shift the third brush mounting bracket by hand. Shift the third brush in a counter-clockwise direction to increase the charging rate and in the opposite direction to decrease the



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charging rate. The maximum charging rate of 17 amperes is reached at 1600 R.P.M.

Generator Data

Cold Test			Hot Test		
Amperes	Volts	R.P.M.	Amperes	Volts	R.P.M.
7.....	7-7.3.....	850			
17.....	8	1600	11-13.....	7.7.....	1800
11.....		2500			

Motoring freely, generator draws 5 amperes at 6 volts. Shunt field current is 4-6 amperes at 6 volts. Generator brush tension is 16-18 ounces.

Mounting:—Generator is mounted at right front of engine by special mounting.

Oiling:—Put 4 or 5 drops of light engine oil in the oiler on the commutator end of the generator every month or each 1000 miles.

RELAY:—Model 265-B. Relay is mounted on top of the generator. Relay closes when the voltage of the generator reaches 7-7.5 volts and opens with a discharge current of 0-2.5 amperes. Relay contacts separate .020 inch. Air gap between relay armature and coil core is .016 inch, contacts closed.

LIGHTING:—Remy Lighting Switch Model 420-F. Head and stop lamps are each 6-8 volt, 21 cp. S.C. Side lamps are 6-8 volt, 3 cp. S.C. Dash lamp is 6-8 volt, 2 cp. D.C. Tail lamp is 6-8 volt, 2 cp. S.C.

FUSES:—Generator field fuse is 6 amperes. Lighting fuse is 20 amperes.

