JEWETT

MODEL 23-25, 26-27 (1923-24-25)
REMY GENERATING AND STARTING SYSTEM
ATWATER KENT IGNITION

BATTERY:—Westinghouse (1923-24). Type SWB-15. 6 volt. The positive (+) terminal is grounded. Starting capacity (20 minute rate) is 126 amperes for 20 minutes. Lighting capacity (5 ampere rate) is 5 amperes for 25 hours. **(1925) Type 6-OB-13.** 6 volt. The positive (+) terminal is grounded. Battery capacity is 115 ampere hours.

IGNITION:—Coil Model N-3. Ignition current is 3.5 amperes at 6 volts with the engine running and 1-2 amperes at 6 volts with engine stopped.

Distributor Model LA. Breaker contacts separate .015 inch with breaker arm on lobe of cam. When the condition of the contacts affects the ignition, resurface contacts with a fine flat contact file or on a medium hard oilstone. Distributor is semi-automatic. Manual advance is 30 degrees. Automatic advance is 24 degrees.

Mounting:—Distributor is mounted at right of engine and is driven by the extension of the oil pump shaft. To remove distributor, remove head with cables attached and loosen advance arm clamp screw. Then lift distributor from place.

Oiling:—Fill the oil cup under the distributor head with light cylinder oil every two weeks or each 500 miles. Put a small bit of vaseline on the face of the breaker cam under the fiber block on the breaker arm every month.

Timing:—Breaker contacts begin to separate when the piston entering power stroke reaches a position 11½ degrees after top dead center with the manual spark control lever and breaker assembly in the fully retarded position. This position is approximately 1½ inches on the flywheel past top dead center. To set timing, crank engine over until piston No. 1 enters compression stroke. This is the upstroke with both valves closed. Fully retard the spark control lever and continue to crank engine until the flywheel mark I.O.1-6 is 1½ inches past the indicator on the flywheel case (visible through the inspection hole in the right front of the flywheel case directly above the starter). The piston will be approximately 3/64 inch down on power stroke. Loosen advance arm clamp, place advance yoke over stop and rotate distributor in a counter-clockwise direction until contacts begin to separate. Then hold distributor in place and rotate advance arm in a clockwise direction until the yoke rests against the stop. Then tighten the clamp screw and connect the segment opposite the rotor to the spark plug in cylinder No. 1. Connect the remaining plugs in order 5-3-6-2-4 clockwise around the distributor head.

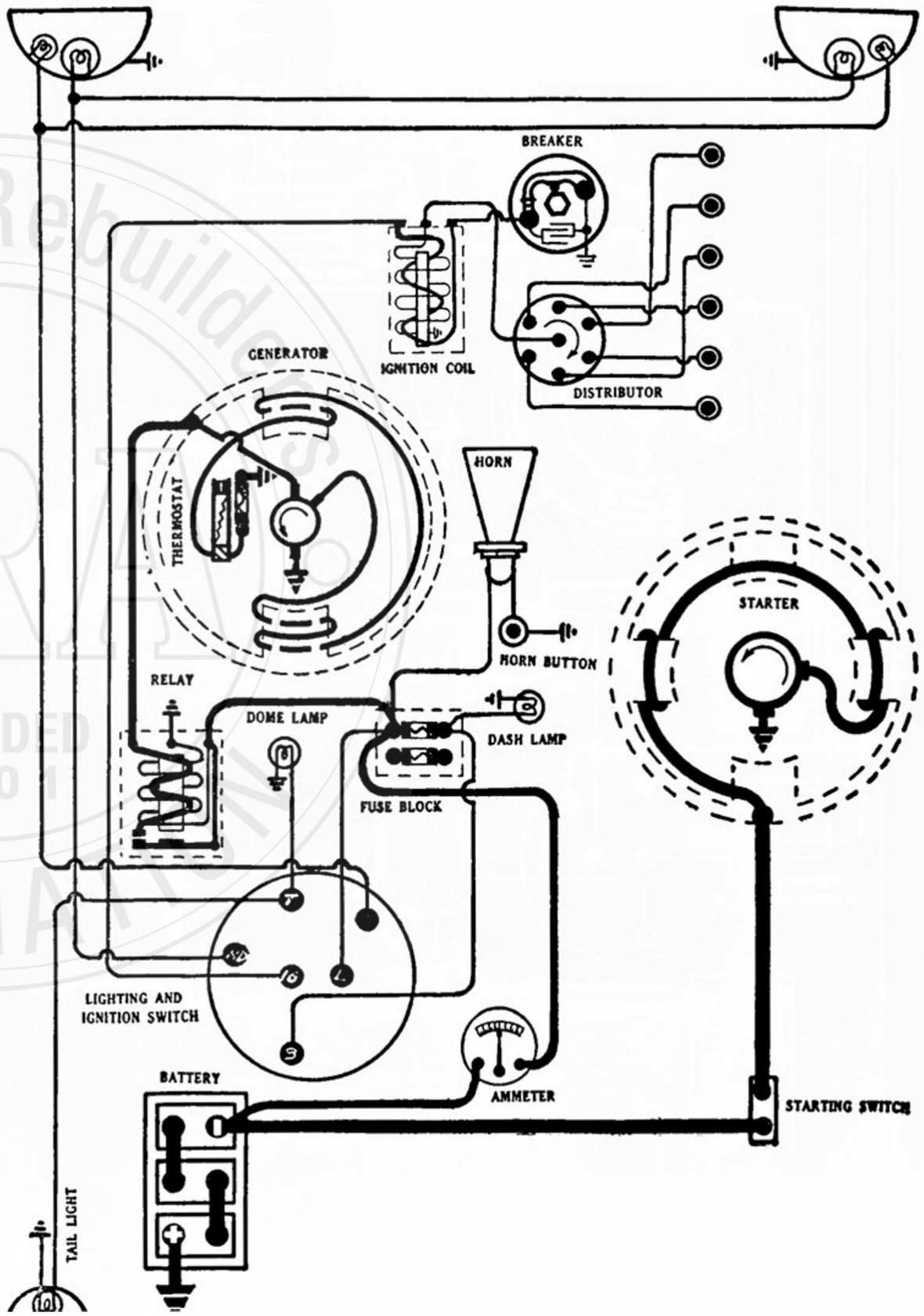
Firing Order:—The firing order is 1-5-3-6-2-4.

Spark Plugs:—Spark plugs are AC ⅞ regular. Gaps are .020-.025 inch.

VALVE TIMING:—Inlet Valves:—Head diameter is 1 9/16 inches; stem diameter is ⅜ inch; stem length is 6⅜ inches. Tappet clearance is .006 inch (hot). Spring pressure is 50 pounds. Inlet valves open at top dead center and close at 40 degrees after lower dead center.

Exhaust Valves:—Head diameter is 1 9/16 inches; stem diameter is ⅜ inch; stem length is 6⅜ inches. Tappet clearance is .010 inch (hot). Spring pressure is 50 pounds. Exhaust valves open at 40 degrees before lower dead center and close at 10 degrees after top dead center.

STARTER:—Model 713-A, -C 713-AC and 713-F. 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 1650 R.P.M. drawing 100 amperes. Starter brush spring tension is 24-28 ounces. **Starter 713-AC** is wound as shown but has four brushes, two positive and two negative, connected in parallel.



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Starter Data

Torque	R.P.M.	Volts	Amperes
0 lb. ft.	5000	5	65
12 lb. ft.	Lock	3.6	475

Mounting:—Starter is flange mounted on forward side of flywheel housing at right of engine. To remove starter, disconnect cable and remove nuts from three flange mounting studs. Then pull starter forward and lift from place.

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

GENERATOR:—Model 913-E and 917-U, Z, ZA. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by third brush shunt field and thermostat. To adjust the generator output, remove the cover band and loosen the small screw on the generator end plate holding the third brush mounting plate. Then shift the third brush in a counter-clockwise direction to increase the charging rate and in the opposite direction to decrease the charging rate. Tighten the screw after making the adjustment. Thermostat contacts open at approximately 165 degrees F. and reduce the output 40-50%.

Generator Data—Model 913-E

Cold Test			Hot Test		
Amperes	Volts	R.P.M.	Amperes	Volts	R.P.M.
0		675	11	8.2	1900
7	7.1	825			
20	8.5	1800			

Generator Data—Model 917-ZA

Cold Test			Hot Test		
Amperes	Volts	R.P.M.	Amperes	Volts	R.P.M.
7	7-7.3	850	12	7.65	2000
20	8.4	1900			

Generator motoring draws 5 amperes at 6 volts. Shunt field current is 5 amperes at 6 volts. Brush spring tension on **Model 913-E** is 16 ounces. On **Model 917-ZA** the brush tension is 22-28 ounces.

Mounting:—Generator is base mounted at right of engine and is driven by extension of the water pump shaft. To remove generator, disconnect drive coupling and take out base mounting bolts. Then lift the generator from place.

Oiling:—Put 4 or 5 drops of light engine oil in the generator bearing oilers every two weeks or each 500 miles if the car is driven over 500 miles in two weeks.

RELAY:—Model 266-A, B, F. Relay closes at 6.9-7.25 volts or 675 R.P.M. of armature, and opens at 6 volts. Relay contacts separate .014 inch. Air gap between armature and coil core is .014 inch with contacts closed. Clean relay contacts by drawing unglazed paper between them. If badly burned or pitted, resurface on a hard oilstone.

LIGHTING:—Briggs and Stratton Swtich. Head lights are 6-8 volt, 21 cp. S.C. Mazda 1129. Dimmer lights are 6-8 volt, 6 cp. S.C. Mazda 81. Dash and dome lights are 6-8 volt, 3 cp. D.C. Mazda 64. Tail light is 6-8 volt, 3 cp. S.C.

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