

A J A X

1925-26

AUTO-LITE GENERATING, STARTING AND LIGHTING SYSTEM AUTO-LITE IGNITION

BATTERY:—U.S.L. Type 3-HVX-5X, 6 volt. The negative (—) terminal is grounded. The starting capacity is 105 amperes for 20 minutes. Lighting capacity is 5 amperes for 18.4 hours. The battery is 7 7/16 by 9 3/4 by 9 1/8 inches.

IGNITION:—Coil Model IG-4061. Distributor Model IG-4110. Breaker contacts separate .020 inch. They are made of tungsten. When the condition of the contacts affects the ignition, remove and resurface with a fine flat jeweler's file. The surface of the contacts should be flat and parallel. The distributor is of the full automatic type. Automatic advance begins at 200 R.P.M. of the distributor and reaches a maximum of 15° (distributor) at 1200 R.P.M. This is equivalent to a flywheel advance of 30°.

Oiling:—Refill the grease cup under the distributor head with medium cup grease and turn down one turn every two weeks. Put one drop of light engine oil on the breaker arm hinge and place a small amount of vaseline on the face of the breaker cam every month or each 1000 miles if the car is driven more than 1000 miles in a month.

Timing:—Breaker contacts begin to separate when piston entering power stroke reaches top dead center with the breaker assembly in the fully retarded position.

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

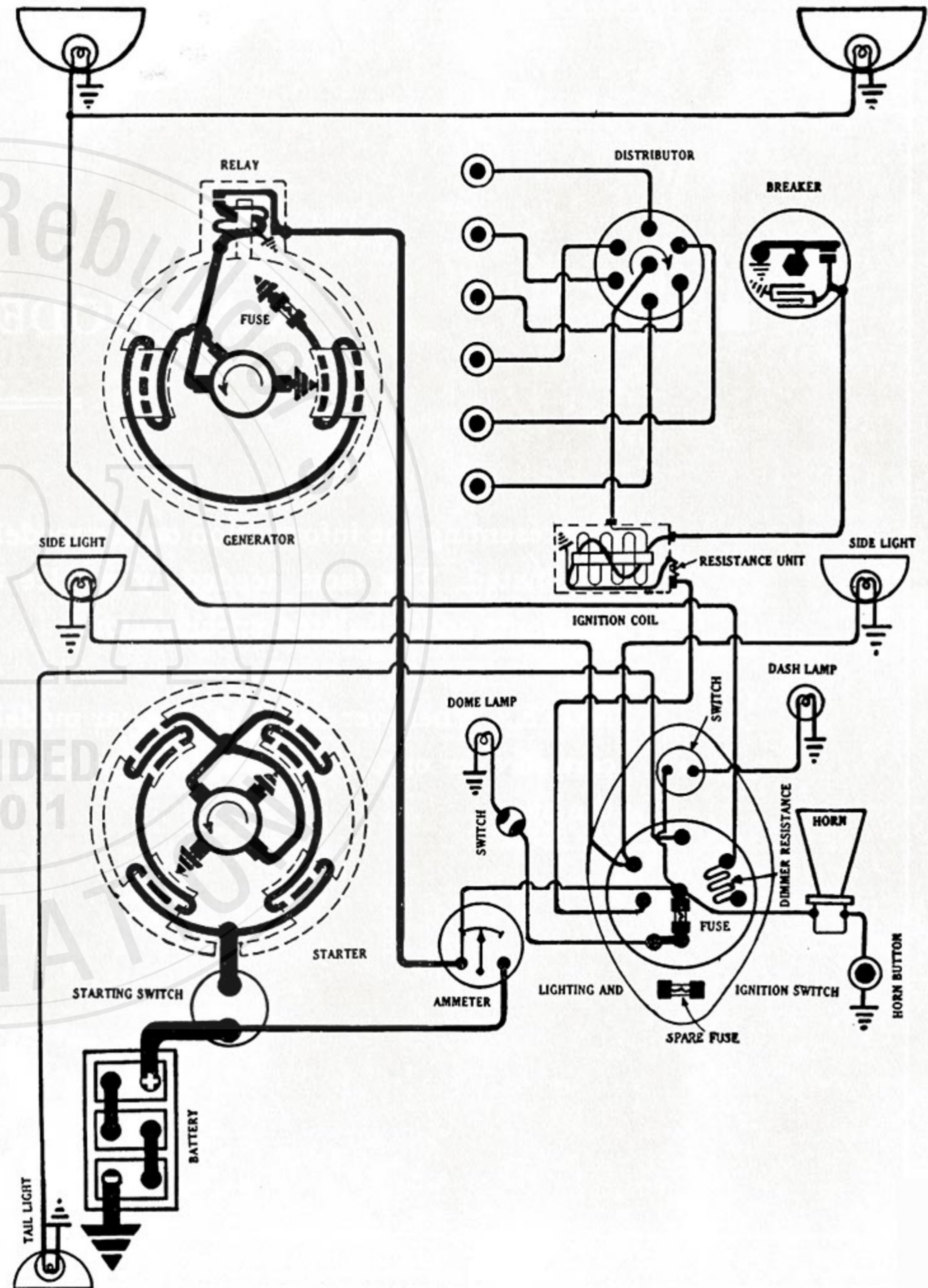
Spark Plugs:—Spark plug diameters are 7/8 inch. Gaps are .025 inch.

STARTER.—Model MP-4101. 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 185 R.P.M., taking 140 amperes at 4.8 volts. The starter brush tension should be 1 1/2-1 3/4 pounds each.

Starter Data			
Torque	R.P.M.	Volts	Amperes
0 lb. ft.	4000	5.5	75
1 lb. ft.	2800	5.25	150
2 lb. ft.	2000	5.0	200
4 lb. ft.	1250	4.5	300
5 lb. ft.	1000	4.2	350
12 lb. ft.	Lock	3.	650

Oiling:—Put 4 or 5 drops of light engine oil in the oiler on the drive end of the starter every month or each 1000 miles if the car is driven more than 1000 miles in a month. The commutator end bearing is of the self-lubricating type and requires no attention.

GENERATOR.—Model GTB-4004. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system. To adjust the charging rate, remove the commutator band and loosen the nut under the third brush holder. Then shift the third brush in the direction of generator rotation to increase the charging rate and in the opposite direction to decrease the charging rate. Tighten the nut after making the adjustment. The maximum output of 14 amperes is reached at 1700 R.P.M. of the armature or 22 M.P.H.



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Generator Data.

Cold Test (70°)			Hot Test (150°)		
Amperes	Volts	R.P.M.	Amperes	Volts	R.P.M.
0.....	6.5.....	700	0.....	6.5.....	825
4.....	6.9.....	850	4.....	6.9.....	1025
10.....	7.5.....	1200	9.....	7.45.....	1450
14.....	7.9.....	1800	11.....	8.....	1800
10.....	7.7.....	2900	8.....	7.5.....	2800

Motoring freely the generator draws 3.9 amperes at 6.3 volts while turning at 525 R.P.M. The shunt field draws 3.2 amperes at 6 volts. Each coil, tested separately takes 6.6 amperes at 6 volts. A fuse is located in the shunt field circuit. It is mounted on the commutator end plate and may be reached by removing the cover band.

Oiling:—Put 3 or 4 drops of light engine oil in each of the generator bearing oilers every two weeks or each 500 miles if the car is driven more than 500 miles in two weeks.

RELAY.—Model CB-4007. Relay contacts close at 700 R.P.M. of the generator armature or 10 M.P.H. with a generator voltage of 6.5 volts, and open at 650 R.P.M. with a discharge current of 0-1 ampere. Charging current at closing of relay is 1-2 amperes. Relay contacts separate .050 inch. Air gap between relay armature and coil core is .030 inch, contacts closed.

LIGHTING.—Switch Model B & S Type 39890. Head lamps are 6-8-volt, 21 cp. S. C. Cowl and tail lamps are 6-8-volt, 3 cp. S. C. dash lamp is 6-8-volt, 2cp. S. C. dome lamp is 6-8-volt, 4cp. S. C.

FUSES:—Generator field fuse is 5 amperes.

