

WHIPPET SIX

(1927)

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

BATTERY:—U.S.L. Type 3-CVX-6x, 6 volt. Starting capacity is 115 amperes for 20 minutes. Lighting capacity is 5 amperes for 21 hours. The negative (—) terminal is grounded.

IGNITION:—Coil Model IG-4065. Distributor Model IG-4116-B. Breaker contacts separate .020-.024 inch. They are made of tungsten. Resurface contacts on a medium hard oilstone or with a fine, flat contact file. Ignition current is 1-3 amperes with engine running and 3.4-5 amperes with engine stopped. Distributor is semi-automatic. Manual advance is 30° (on flywheel). Automatic advance begins at 400 R.P.M. and reaches a maximum of 20° (on flywheel) at 2800 R.P.M. of the engine.

Oiling:—Put 5 drops of light engine oil in the oiler on commutator every 1000 miles. Drive end is oiled by splash from gears.

Timing:—Breaker contacts begin to separate when the piston entering power stroke reaches top dead center with the spark control lever and 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.

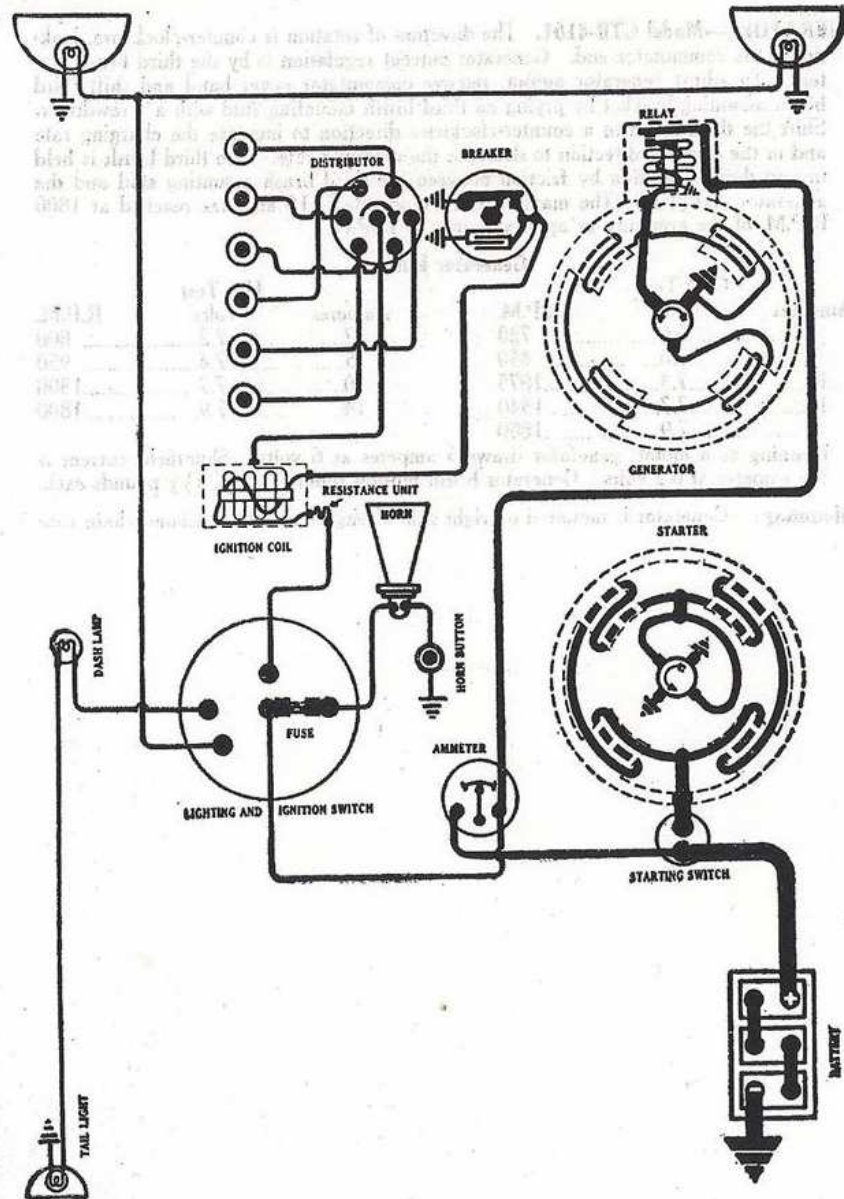
STARTER:—Model MN-4104. Starter is connected to the engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at the commutator end. Starter cranks the engine at 228 R.P.M. taking 160 amperes at 5.25 volts. Starter brush tension is 1 1/4-1 1/2 pounds each.

Starter Data.

Torque	R.P.M.	Volts	Amperes
0 lb. ft.	Free	5.5	45 (Without Bendix)
0 "	Free	5.5	50 (With Bendix)
.5 "	2800	5.5	100
2.4 "	1450	5.0	200
4.8 "	950	4.5	300
7.2 "	650	4.0	400
13.6 "	Lock	3.0	540

Oiling:—Put 5 to 10 drops of light engine oil in the oiler on the drive end of the starter every month or each 1000 miles. The commutator end bearing is oilless.

GENERATOR:—Model GP-4105. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system. To adjust generator output, loosen the commutator cover band and shift the third brush mounting plate by tapping on the third brush mounting stud with a screwdriver. Shift the third brush in a counter-clockwise direction to increase the charging rate and in the opposite direction to decrease the charging rate. The third brush is held in any desired position by friction between the third brush mounting stud and the generator end plate. The maximum charging rate is 17 amperes at 8 volts.



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Cold Test			Hot Test		
Amperes	R.P.M.	M.P.H.	Amperes	R.P.M.	M.P.H.
2.....	440.....	8	2.....	660.....	11.5
5.....	540.....	9.5	5.....	700.....	12
10.....	760.....	13	10.....	1200.....	21
14.....	1050.....	18.4			

Motoring freely, generator draws 5 amperes at 6 volts. Shuntfield current is 3 amperes at 6.2 volts. Generator brush spring tension should be 1¼-1½ pounds each.

Oiling:—Put 4 or 5 drops of light engine oil in the oiler on the commutator end of

the generator every two weeks or each 500 miles. The drive end bearing is oiled by splash from the gear case.

RELAY:—Model CB-4007. Relay is mounted on the generator. Relay contacts close when the voltage of the generator reaches 7-7.5 volts and open with a discharge current of ½-2½ amperes. Contacts separate .025-.035 inch; air gap between relay armature and coil core is .010-.030 inch, contacts closed.

LIGHTING:—Briggs and Stratton Switch Model 39320. Head lamps are 6-8 volt, 21 cp. S. C. Dash and tail lamps are connected in series. They are each 3-4 volt, 2 cp. S. C.

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

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