

GHT SIX MODEL (1924-25)

AUTO-LITE IGNITION

IGNITION.—Breaker contacts separate .018-.020 inch. The contact points are made of tungsten. If the condition of the contact points affects the ignition, remove and re-surface on a medium hard oilstone.

Oiling.—Fill the oiler at the side of the distributor housing with light engine oil once a month, or every 1000 miles. Put a few drops of oil on the breaker arm bearing every 3000 miles.

Timing.—Breaker contacts begin to separate when piston No. 1 entering power stroke is at top dead center, spark control lever and breaker assembly fully retarded.

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

Spark Plugs.—Spark plug diameters are $\frac{7}{8}$ inch. Gaps are .030 inch.

STARTER:—Model MG-4007. Starter is connected to engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at commutator end. Starter running free at 4000 R.P.M., takes a current of 40-60 amperes at 6 volts. Cranking the engine at 125 R.P.M., takes a current of 150 amperes, 5 volts. Lock torque is 18 pound-feet, current being 600-650 amperes, 3-4 volts.

Torque	R.P.M.	Amperes
2 lbs. ft.	1160	110
4 lbs. ft.	880	170
6 lbs. ft.	700	225
8 lbs. ft.	580	275
10 lbs. ft.	460	325
12 lbs. ft.	375	365
17.5 lbs. ft.	Lock	600

Oiling.—Put 4 or 5 drops of light engine oil in each of starter bearings once in two weeks. If car is driven over 500 miles in two weeks, this attention must be given every 500 miles.

GENERATOR:—Model GJ-4012, 4031. The direction of rotation is counter-clockwise, looking at commutator end. Generator motoring freely at 6 volts, 4-5 amperes. Field test current being 2.2 amperes, 6 volts. Each coil separately, 8.8 amperes, 6 volts. The third brush system is used for current regulation. To increase generator output, move third brush in a counter-clockwise direction, to decrease, vice versa. The maximum charging rate is reached at 20-25 M.P.H., or 1600-1700 R.P.M. of armature.

Amperes	Cold Test	R.P.M.	Amperes	Hot Test	R.P.M.
0.0		500	0.0		550
4.0		600	4.0		730
8.0		750	6.0		850
12.0		950	8.0		950
16.0		1400	12.0		1350
16.5		1600	12.6		1700
15.0		2400	11.6		2400
13.0		3000	10.6		3000

Oiling.—Put 4 or 5 drops of light engine oil in each of the generator oilers once every two weeks. If car is driven over 500 miles in two weeks, this attention must be given once to every 500 miles.

RELAY.—Relay closes at 500-550 R.P.M. of armature, or 7-9 M.P.H., at 6.5 volts, and opens at 450-500 R.P.M. or armature, or 5-7 M.P.H., or 0-1 ampere discharge. The contact gap is .025-.030 inch. The air gap between relay armature and coil core is .010-.015 inch, contacts closed.

LAMPS.—Head lamps are 6-8 volts, 21 cp. Side lamps are 6-8 volts, 4 cp. Tail lamp is 6-8 volts, 2 cp. All have single contact base, except dash lamp. Dash lamp is 6-8 volts, 2 cp., D.C.

COMBINATION SWITCH.—Briggs & Stratton Model No. 1927.

