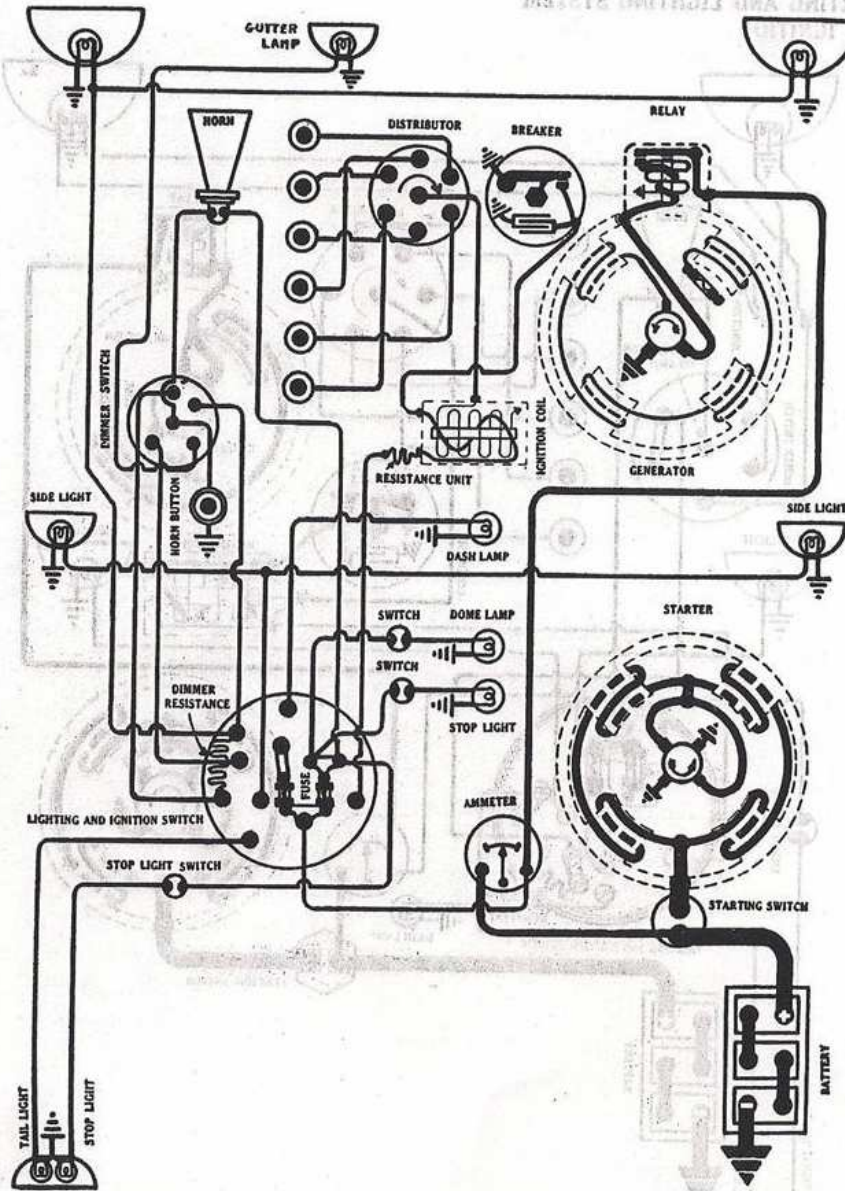


WILLYS KNIGHT

MODEL 66 (1925-26)

DEJON GENERATING, STARTING AND LIGHTING SYSTEM

DEJON IGNITION



BATTERY:—U.S.L. Type 3-HVX-8X. 6 volt. The starting capacity is 170 amperes for 20 minutes. The lighting capacity is 5 amperes for 33.2 hours. The negative (—) terminal is grounded.

IGNITION:—Coil Model CA-4010. Distributor Model IA-4010. Breaker contacts separate .018-.020 inch. They are made of tungsten. When the condition of the contacts affects the ignition, remove and resurface on a medium hard oilstone or with a fine, flat jeweler's file. Automatic advance begins at 150 R.P.M. of the distributor and reaches a maximum of 15° at 1500 R.P.M. Ignition current is 5 amperes with the resistance unit cold which decreases to 4-4.25 amperes within 30 seconds.

Oiling:—Put 4 or 5 drops of light engine oil in the oiler on the side of the distributor housing every week or each 250 miles if the car is driven more than 250 miles in a week. Keep the grease cup on the distributor shaft filled with pure vaseline and turn down one turn every week.

Timing:—Breaker contacts begin to separate when the piston entering power stroke reaches a position 8° before top dead center (measured on the flywheel) with the manual spark control lever in the fully advanced 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 SB-4008. Starter is connected to the engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at the commutator end.

Torque	R.P.M.	Volts	Amperes
0 lb. ft.	Free	5.	40
1.2 "	2200	5.5	100
4.1 "	1150	5.	200
7.3 "	760	4.5	300
10.5 "	500	4.	400
28.4 "	Lock	4.	930

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

GENERATOR:—Model DB-4003. 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, insert a screwdriver in the slotted end of the third brush shifting shaft which is located on the generator end plate above the bearing retainer and turn the shaft in a clockwise direction to increase the charging rate and in the opposite direction to decrease the charging rate. The maximum charging rate is 16 amperes at 8 volts reached at 1600 R.P.M. of the generator armature or 20 M.P.H. Shunt field current is 2.5 amperes at 6 volts.

Generator Data.

Cold Amperes	R.P.M.	Hot Amperes
0	500	0
2.75	600	1.5
10.5	1000	8.5
15.5	1600	13.0
11.75	2400	11.0
9.5	3600	8.75

Oiling:—Put 4 or 5 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 RA-4001-A. Relay contacts close at 480-510 R.P.M. with a generator voltage of 7-7.5 volts and open with a discharge current of 0-2 amperes. Contacts separate .025-.035 inch. Air gap between relay armature and coil core is .010 inch, contacts closed.

LIGHTING:—Head and stop lamps are each 6-8 volt, 21 cp.S.C. Side, tail, dash and dome lamps are each 6-8 volt, 3 cp.S.C.

Switch:—Lighting switch is Briggs and Stratton Model No. 38360.

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