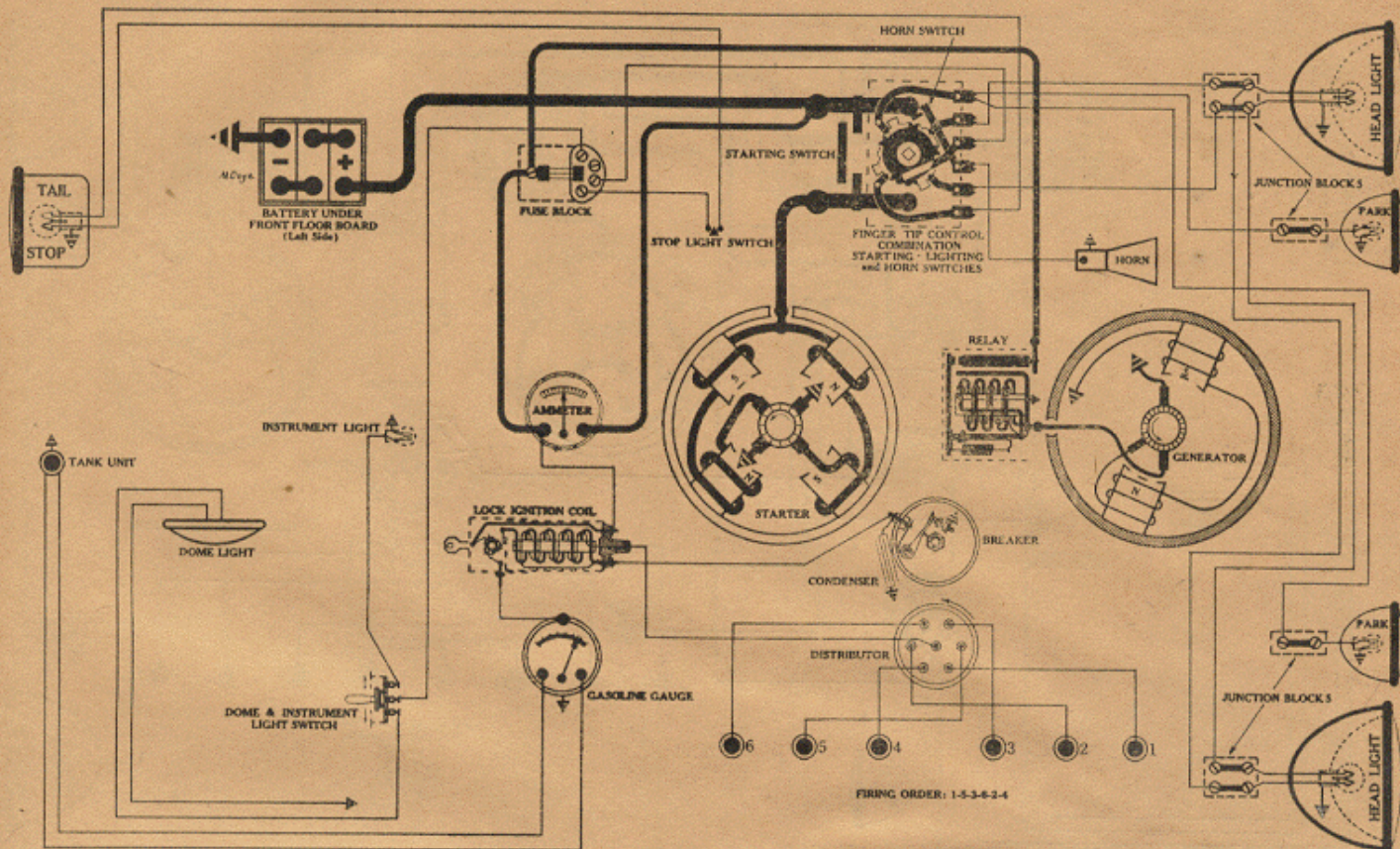


WILLYS

Model, 98-B, 6 cyl., (1930)



BATTERY

U. S. L., 3-CVX-6X-7A, 6 volts. Negative Terminal Grounded

Starting Capacity—115 amps. for 20 minutes.
Lighting Capacity—5 amps. for 21 hours.
Box—Length, 10 7/16; width, 7 7/16; height, 9 1/4 inches.

STARTER

Rotation, L. H., Com. End
Auto-Lite, MAJ-4002

Connection to Engine—Bendix drive.
Running Free—60 amps. at 5.5 volts.
Cranking Engine—180 amps. at 5.2 volts, 200 R.P.M.
Lock Torque—10 pound-feet, 490 amps., 3.6 volts.
Brush Spring Tension—20 to 24 oz. on each.
Starting Switch—Located foot of steering column. Operated by pulling up on horn button.

IGNITION

Rotation, L. H., Top View
Auto-Lite, IGB-4032

Breaker—Contact separation .020 inch.
Contact Spring Tension—17 to 19 oz.
Timing—With No. 1 Piston on T.D.C. power stroke, spark fully advanced, rotor opposite No. 1 Dist. Cap Terminal; breaker points should just open.
Spark Plugs—Metric (Champion No. 11); Gap .025 inch.
Firing Order—1-5-3-6-2-4.

Manual Advance—14 degrees (on Flywheel).
Automatic Advance—22 degrees (on Flywheel).

Eng. R.P.M.	Degrees Advance (on Flywheel)	Dist. R.P.M.	Degrees Advance (on cam)
400	0	200	0
800	3	400	1.5
1200	6	600	3
2000	12	1000	6
2400	16	1200	8
3200	22	1600	11

Lock Ignition Coil—Auto-Lite, IG-4083.

NOTE: This unit is a combined ignition switch and coil. Impossible to "jump out" ignition switch with wire, to run engine.

GENERATOR

Rotation, L. H., Com. End

Auto-Lite, GAL-4131 (Belt Drive)

Performance Data—Gen. cold.

Amps.	R.P.M.	Volts	Amps.	R.P.M.	Volts
0	650	6.5	10	1075	7.3
2	720	6.6	14	1340	7.7
5	850	7	16	1800 (Max.)	8

Motoring Freely—5-5 1/2 amps. at 6 volts.
Max. Stall Current—16-19 amps. at 6 volts.
Field Test—4.7 amps. at 6 volts across field coils in series.
Field Fuse—(None).
Brush Spring Tension—20 to 24 oz. on each.
Third Brush Adjustment—Loosen cover band. See Fig. 13, P. 7, Sec. AA.

RELAY

Auto-Lite, CB-4014

Closes—7 to 7 1/2 volts.
Opens—1/2 to 2 1/2 amps. discharge.
Contact Gap—.025 to .035 inch.
Core Gap—.010 to .012 inch, contacts closed.

LIGHTING

Switch—Briggs & Stratton No. 50160.
Location—Foot of steering column. This unit is a combination starting switch, lighting switch, and horn switch, all controlled by horn button on steering wheel.
Fuses—Single 20 amp. fuse mounted on block under engine hood (left side).
Lamps—See P. 3, Sec. AA. HEAD—1110 (Bifocal); PARK—63; INSTRUMENT—63; DOME—63; STOP and TAIL—1158.

NOTE: This is the old style Ford headlight bulb with two filaments. Make sure the 3 C.P. filament burns for tail light.