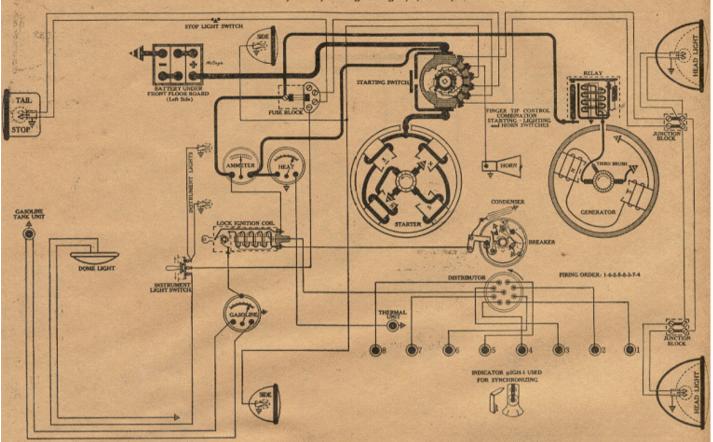
WILLYS

Model, 8-80, Straight Eight, (1930)



BATTERY

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

Starting Capacity-148 amps. for 20 minutes. Lighting Capacity—5 amps. for 28 hours.

Box—Length, 113/4; width, 7.7/16; height, 93/4 inches.

STARTER Rotation, L. H., Com. End Auto-Lite, MAB-4031

Connection to Engine-Bendix drive. Running Free—60 amps. at 6 volts. Cranking Engine—160-170 amps. at 5 volts.

Lock Torque-17 pound-feet, 520 amps. at 3 volts.

Brush Spring Tension-24 to 28 oz. on each.

Starting Switch-Located foot of steering column. ated by pulling up on horn button.

IGNITION

Rotation, L. H., Top View Auto-Lite, IGH-4013

Breakers—Contact separation .018 inch.

Contact Spring Tension-17 to 19 oz. on each.

Timing-With No. 1 Piston on compression stroke, bring flywheel mark "IGN" opposite pointer, spark fully advanced, rotor opposite No. 1 Dist. Cap Terminal; stationary set of breaker points should just open.

Spark Plugs—Metric (Champion No. 8); Gap .025 inch. Firing Order—1-6-2-5-8-3-7-4.

Manual Advance-12 degrees (on Flywheel).

Automatic Advance-20 degrees (on Flywheel).

| (on flywheel) (on ca | am) |
|-------------------------------------|-----|
| 800 0 400 0 | |
| 1600 | |
| 2400 | .5 |
| 3200 17 1600 8 | 5 |
| 3600 20 1800 10 | |
| ock Ignition Coil-Auto-Lite IG-4083 | |

TE: 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)

| 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 (Ma | x.) 8. | |
| Motoring Freely-5 to 51/2 amps. at 6 volts. | | | | | | |
| Max. Sta | all Current- | -16.to 19 | amps. at | 6 volts. | | |
| Field Te | est-4.7 am | ps. at 6 v | olts across | field coils in | series. | |
| Field Fu | se-(None |). | | | | |

Brush Spring Tension-20 to 24 oz. on each.

Third Brush Adjustment-Loosen cover band. See Fig. 13. P. 7, Sec. AA.

Performance Data-Gen. cold.

RELAY Auto-Lite, CB-4014

Closes—7 to 7½ volts. Opens—½ to 2½ amps. discharge. Contact Gap—.025 to .035 inch. Core Gap -. 010 to .012 inch, contacts closed.

LIGHTING

Switch-Aid Mfg. Co., No. 805,

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); SIDE -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.