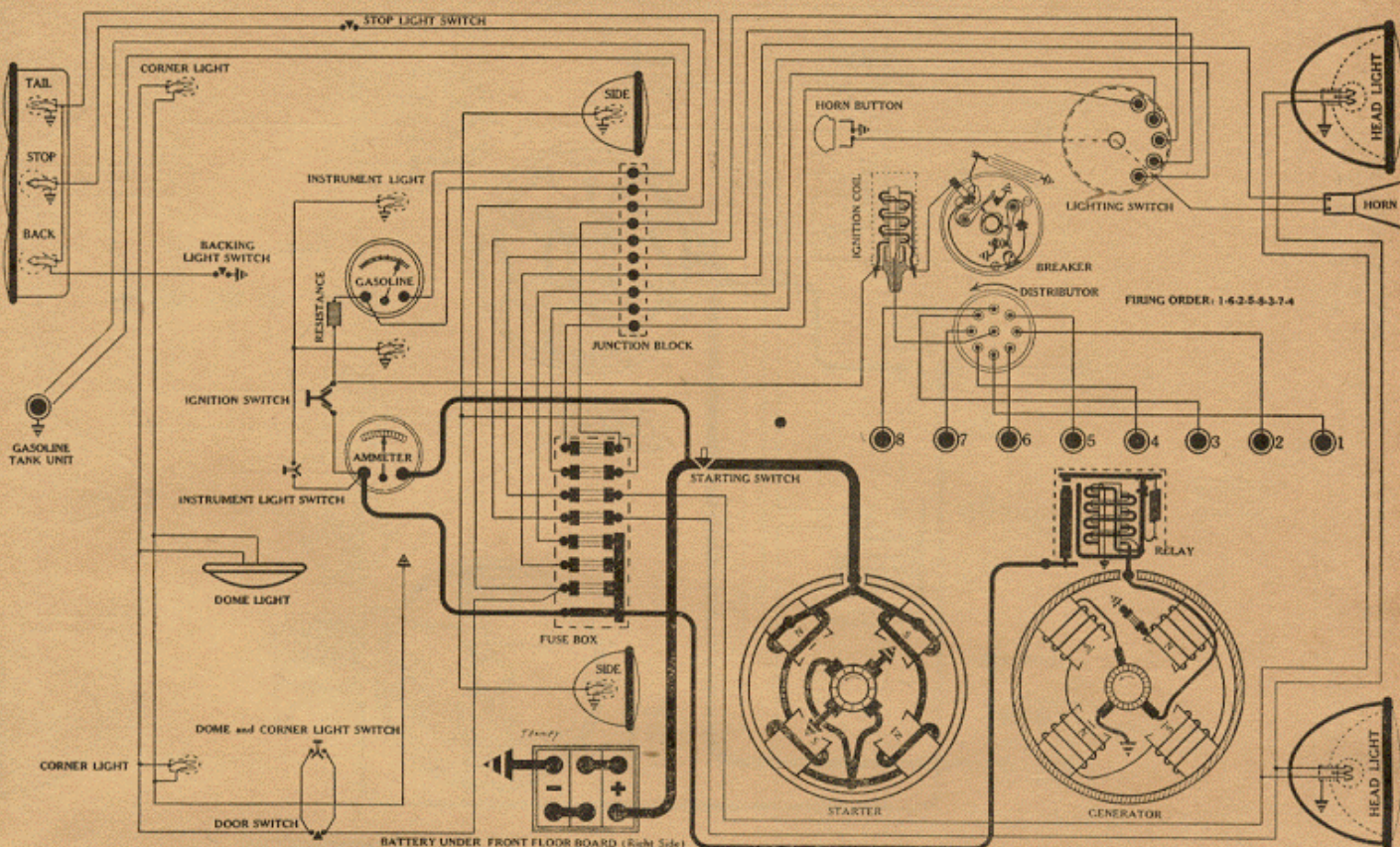


STEARNS-KNIGHT

De Luxe Series, (1929)
Models, H-8-90 and J-8-90



BATTERY

U. S. L., 3-CVX-10X, 6 volts. Negative Terminal Grounded
Starting Capacity—192 amps. for 20 minutes.
Lighting Capacity—5 amps. for 38 hours.
Box—Length, 16 $\frac{3}{8}$; width, 7 $\frac{7}{16}$; height, 9 $\frac{3}{8}$ inches.

STARTER

Rotation, L. H., Com. End
De' Jon, SD-4102

Connection to Engine—Bendix drive, type L-11-X-V.
Running Free—70 amps. at 5.8 volts, 1750 R. P. M.
Cranking Engine—270 to 290 amps. at 4.3 volts.
Lock Torque—29 pound-feet, 720 amps. at 3 $\frac{1}{2}$ volts.
Starting Switch—De' Jon, SW-4201.

IGNITION

Rotation, L. H., Top View
De' Jon, IAB-4001

IMPORTANT NOTE: This unit uses a four-lobe cam with two breaker arms connected in parallel. Cam is so designed that one point is open when other is just breaking but closes few degrees after break occurs. The arms must be accurately synchronized to operate at intervals of exactly 45 degrees of distributor travel, corresponding to 90 degrees on flywheel. An eccentric adjusting screw is provided which moves one breaker point assembly. For detailed instructions on synchronizing see P. 22, Sec. AA.

Breakers—Contact separation .018 to .022 inch.
Contact Spring Tension—18-22 oz. on each.
Timing—See detailed instructions, P. 1, Sec. AA.
1—Locate T. D. C. 2—Locate rotor. 3—Set spark.
Spark Plugs—SAE regular (AC type E); Gap .025 inch.
Firing Order—1-6-2-5-8-3-7-4.
Manual Advance—30 degrees (on Flywheel).
Automatic Advance—31 degrees (on Flywheel).

Eng. R.P.M.	Degrees Advance (on flywheel)	Dist. R.P.M.	Degrees Advance (on cam)
400	0	200	0
800	5	400	2.5
1200	10.4	600	5.2
1600	16	800	8
2000	21	1000	10.5
2400	26	1200	13

Coil—De' Jon, CA-4023.

Ignition Switch—Soreng Manegold, 1080-A.

GENERATOR

Rotation, L. H., Com. End
De' Jon, DA-4016

Performance Data—Gen. cold.

Amps.	R.P.M.	Volts	Amps.	R.P.M.	Volts
0	375	6.5	12	1100	7.8
3	500	7.	15	1200 (Max.)	8.
6	700	7.1	14	1500	8.
10	900	7.6			

Motoring Freely—4-4 $\frac{1}{2}$ amps. at 6 volts.
Max. Stall Current—16-18 amps. at 6 volts.
Field Test—2.5 amps. at 6 volts across field coils in series.
Field Fuse—5 amps.
Brush Spring Tension—20 to 24 oz. on each.
Third Brush Adjustment—Not necessary to loosen cover band. See Fig. 18, P. 7, Sec. AA.

RELAY

De' Jon, RA-4001-A, 6 volts

Closes—7-8 volts.
Opens— $\frac{1}{2}$ -2 $\frac{1}{2}$ amps. discharge.
Contact Gap—.025 to .035 inch.
Core Gap—.015 inch, contacts closed.

LIGHTING

Switch—Briggs & Stratton.
Location—Foot of steering column. Lights controlled by lever on steering wheel.
Fuses—All 20 amp. mounted in fuse box under engine hood (right side).
Lamps—See P. 3, Sec. AA. HEAD—1110 (Bifocal); SIDE—63; INSTRUMENT—63; TAIL—63; STOP—63.