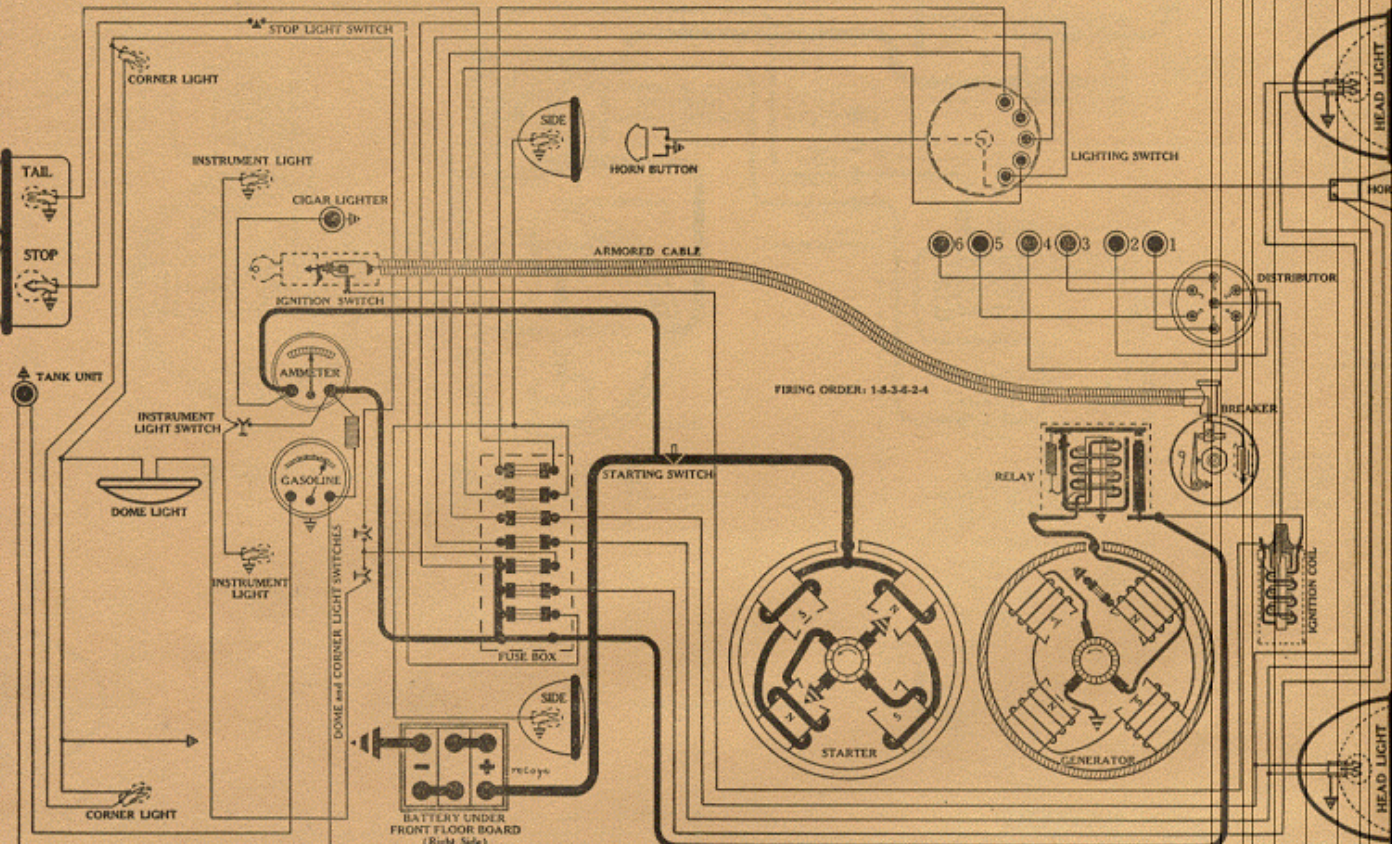


STEARNS-KNIGHT

Series Eighty, (1929)
 Model M—126 inch Wheelbase
 Model N—134 inch Wheelbase



BATTERY

U. S. L., 3-HVX-8X-4, 6 volts. Negative Terminal Grounded

Starting Capacity—170 amps. for 20 minutes.
 Lighting Capacity—5 amps. for 33 hours.
 Box—Length, 13 1/16; width, 7 7/16; height, 9 3/4 inches.

STARTER

Rotation, L. H., Com. End
 Auto-Lite, MAB-4001

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—24-28 oz. on each.
 Starting Switch—Auto-Lite, SW-4001.

IGNITION

Rotation, R. H., Top View
 Auto-Lite, IGA-4035

Breaker—Contact separation .018 to .022 inch.
 Contact Arm Spring Tension—18 to 20 oz.
 Timing—Set spark 12 degrees before top dead center.
 1 31/64 inches measured on Flywheel with spark lever fully advanced.

Spark Plugs—7/8" regular (AC type A); Gap .025 inch.
 Firing Order—1-5-3-6-2-4.

Manual Advance—22 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)
450	Start	225	Start
600	1-5	300	5-2.5
1000	5-8.5	500	2.5-4
1400	9-12	700	4.5-6
1800	12-15	900	6-7.5
2200	15-18.5	1100	7.5-9
2400	19-22	1200	9.5-11

Coil—Auto-Lite, IG-4065.

Ignition Switch—"Electrolock", Type A. For theory of operation and instructions on servicing see P. 17, Sec. AA.

GENERATOR

Rotation, L. H., Com. End
 Auto-Lite, GRE-4207

Performance Data—Gen. cold.

Amps.	R.P.M.	Volts	Amps.	R.P.M.	Volts
0	425	6.5	14	1000	7.9
3	475	7.	18	1200 (Max.)	8.3
6	550	7.1	17	1700	8.3
10	650	7.6			

Motoring Freely—4 1/2-5 amps. at 6 volts.
 Max. Stall Current—17-19 amps. at 6 volts.
 Field Test—2.1 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—Loosen cover band. See Fig. 13, P. 7, Sec. AA.

RELAY

Auto-Lite, CB-4007

Closes—7-7.5 volts.
 Opens—1/2-2 1/2 amps. discharge.
 Contact Gap—.025-.035 inch.
 Core Gap—.010-.030 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—1129; CORNER—63; DOME—63.