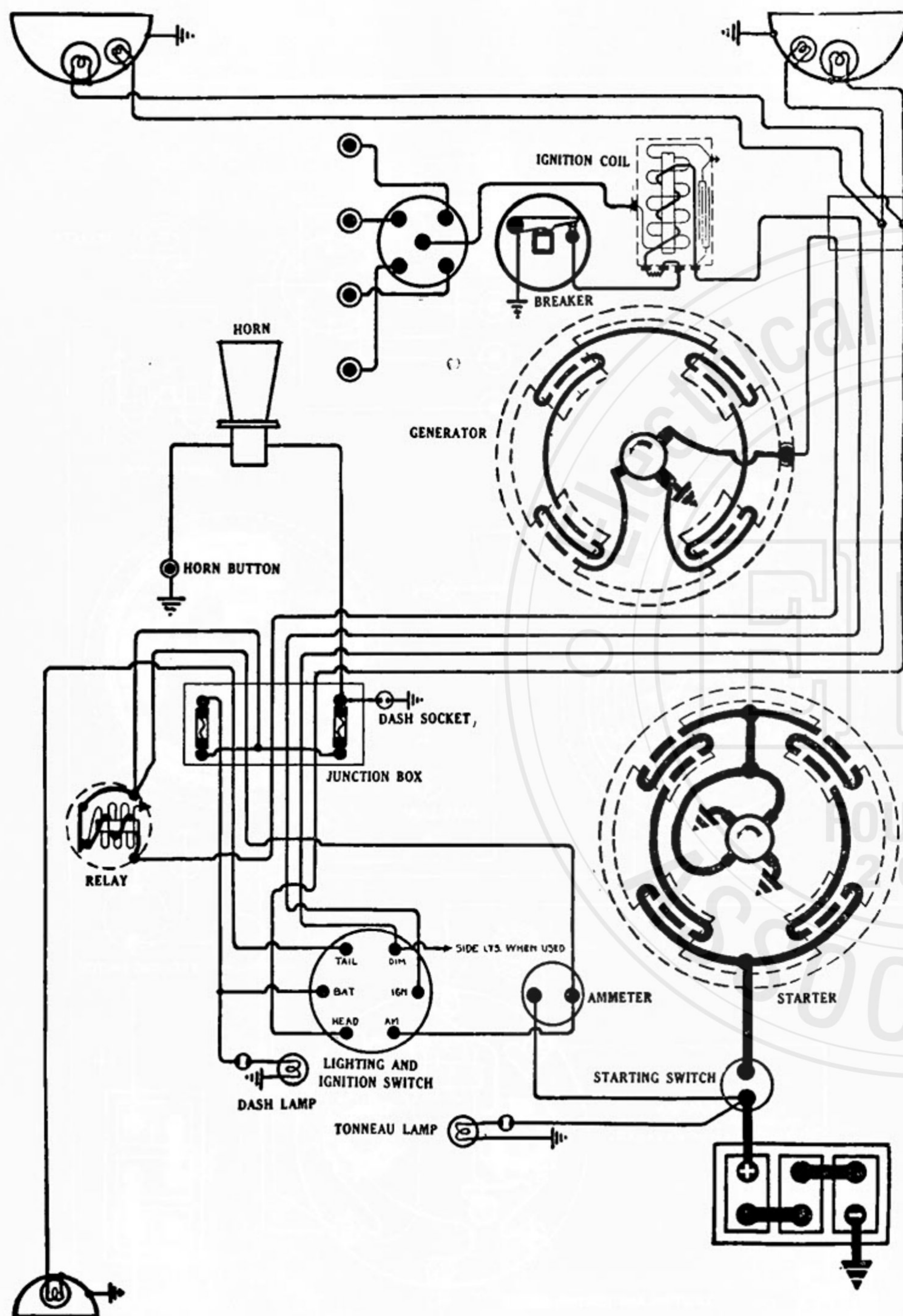




HANDLEY-KNIGHT

MODEL A (1921) B (1922)

AUTO-LITE GENERATING, STARTING AND LIGHTING SYSTEM CONNECTICUT OR AUTO-LITE IGNITION

BATTERY.—U. S. L., Type HDN-317-X, 6 volt, 162.6 ampere-hour. The negative (—) terminal is grounded.

IGNITION.—Breaker contacts separate .025 inch. When the condition of the contacts affects the ignition resurface them with fine sandpaper. Remove all grit.

Oiling.—Fill the oil cup at the side of the distributor with a good grade of light machine oil every 1000 miles, and put 1 drop on the breaker arm bearing every 3000 miles.

Timing.—Breaker contacts begin to separate when the piston entering the power stroke is on top dead center, spark control lever and breaker assembly in the fully retarded position.

Firing Order.—The firing order is 1, 3, 4, 2.

Spark Plug Gaps.—The spark plug gaps are .025 inch.

STARTER.—Model M.H. 1022. Starter is connected to the engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at the commutator end.

Starter Data—MH.

Torque	R.P.M.	Amperes	Volts
2.0 lb. ft.	1160	110	5.8
6 lb. ft.	700	225	5.3
8 lb. ft.	580	275	5.0
10 lb. ft.	460	325	4.7
12 lb. ft.	375	365	4.4
17.5 lb. ft.	Lock	600	3.5

Oiling.—Put 5 or 6 drops of light engine oil in the starter oilers every two weeks.

GENERATOR.—Model G.K. 1011. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system. The maximum charging rate is 13 to 16 amperes, reached at 1200 to 1400 R.P.M. of the armature.

Generator Test Data.—GK.

Amperes	Hot Test	R.P.M.	Amperes	Cold Test	R.P.M.
0.0		420	0		350
4		540	4		420
8		700	8		540
12		1000	12		710
13		1200-1400	16		1200-1400
11		2000	13		2000
9.4		2800	11		2800

Move the third brush in the direction of armature rotation to increase the charging rate, and in the opposite direction to decrease the charging rate.

Oiling.—Put 5 or 6 drops of light engine oil in the generator bearing oilers every week. If the car is driven more than 250 miles in a week, the oiling should be done every 250 miles.

RELAY.—The relay is mounted on the dash. Relay closes when the voltage of the generator reaches 6.5 to 7.5 volts, and opens when there is a discharge current of 0 to 2 amperes. Relay contacts separate .030 to .045 inch. Clean relay contacts by drawing unglazed paper between them. If badly burned or pitted resurface with worn No. 00 sand paper. Remove all grit. Adjust before again putting into service.

LAMPS.—Head lamps are 6-8 volt, 15 cp. Dimmer, dash and tail lamps are 6-8 volt, 2 cp.

FUSES.—Fuses are 20 amperes.