

ALLEN

MODEL 43 (1920)

AUTO-LITE GENERATING, STARTING AND LIGHTING SYSTEM CONNECTICUT IGNITION

BATTERY.—U. S. L., Type HDN-311X, 6 volt, 80 ampere-hour. The negative (—) terminal is grounded.

IGNITION.—Breaker contacts separate .020 inch. When the condition of the contacts affects the ignition, renew the inner breaker mechanism. For temporary service, resurface contacts with fine emery cloth.

OILING.—Refill the cup under the breaker head with pure vaseline and turn down every month. If the car is driven more than 1000 miles in a month, this must be done every 1000 miles. Do not put grease or oil in the cup.

TIMING.—Breaker contacts begin to separate when the piston entering 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, 2, 4, 3.

SPARK PLUG GAPS.—Spark plug gaps are .025 inch.

STARTER.—Model MG-1015. Starter is connected to the engine through a Bendix drive. Starter cranks the engine at 96 R.P.M., taking 175 amperes.

Starter Data		
Torque	R.P.M.	Amperes
2 lb. ft.	1280	135
4 lb. ft.	900	210
6 lb. ft.	600	275
8 lb. ft.	400	335
10 lb. ft.	180	390
13 lb. ft.	Lock	500

OILING.—Put 4 or 5 drops of light engine oil in each of the starter bearing oilers every month.

GENERATOR.—Model GJ-1024. Generator current regulation is by third brush system. Maximum current output is 12-16 amperes, reached at 1700 R.P.M. of the armature or 22 miles per hour.

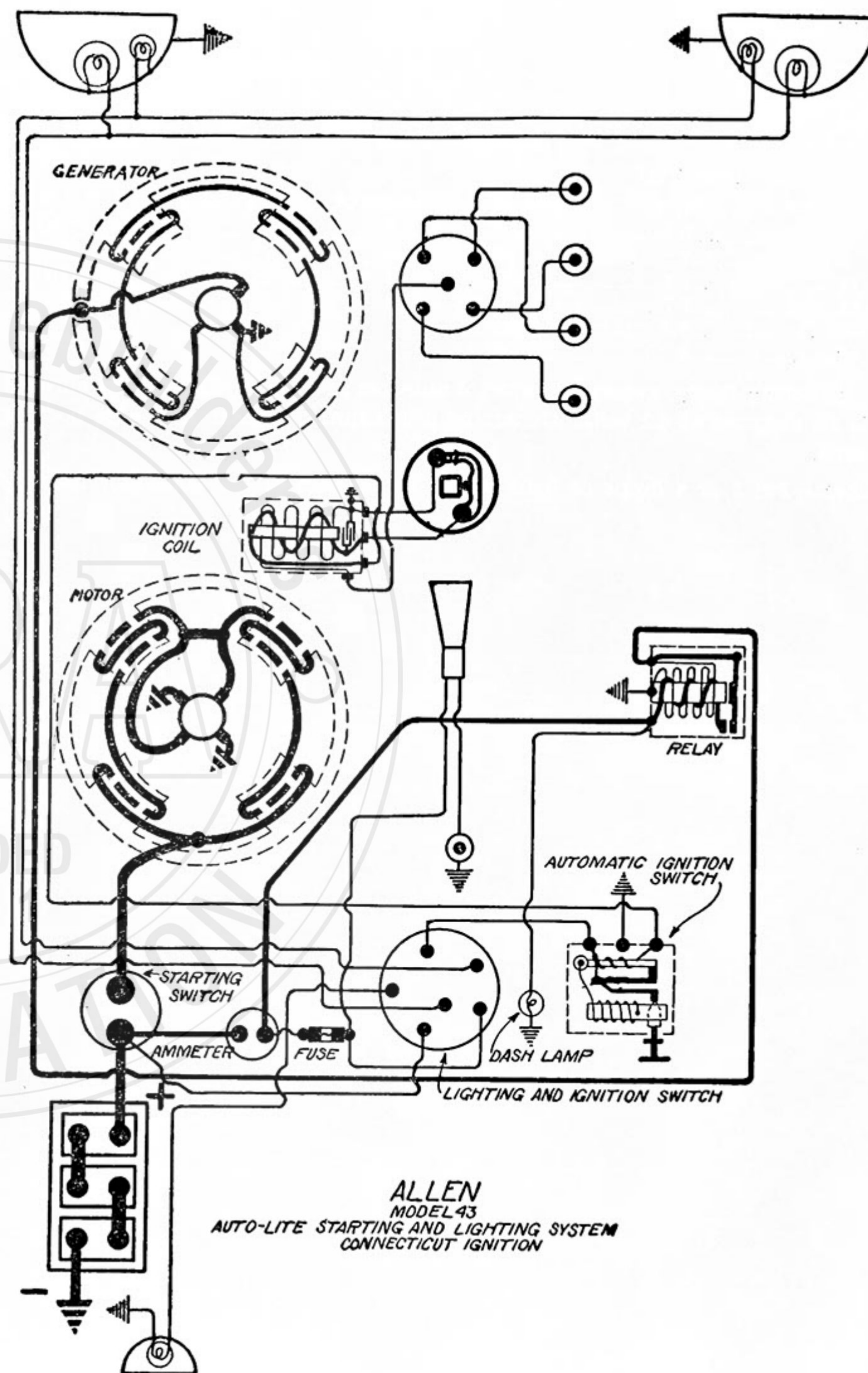
Cold Test		Generator Data		Hot Test	
Amperes	R.P.M.	Amperes	R.P.M.	Amperes	R.P.M.
0	500	0	460		
8	750	6	840		
12	960	9	1050		
16	1400	12	1360		
16.5	1700	12.7	1700		
12	3400	10	3400		

Above readings are obtained with generator charging a battery of 1300 solution.

OILING.—Put 4 or 5 drops of light engine oil in each of the generator bearing oilers every two weeks. If the car is driven more than 500 miles in two weeks, the oiling must be done every 500 miles.

RELAY.—Relay closes at 9 miles per hour or 580 R.P.M. of armature and opens at 7 miles per hour or 360 R.P.M. of armature. Relay contacts separate .030 to .045 inch. Clean relay contacts by drawing unglazed paper between them. If badly burned or pitted, resurface with well worn No. 00 sandpaper. Remove all grit. Adjust before again putting into service.

LAMPS.—Head lamps are 6-8 volt, 18 cp. Dimmer lamps are 6-8 volt, 5 cp. Dash and tail lamps are 6-8 volt, 2 cp.



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