

FRANKLIN

SERIES 9-B, LATE 1921-1922 MODEL

NORTH-EAST GENERATING, STARTING AND LIGHTING SYSTEM

ATWATER KENT IGNITION

BATTERY.—Willard, Type SXR-27, 12 volt, 60 ampere-hour. The two-wire system is used.

IGNITION.—Type CAF. Breaker contacts separate .006 inch. They are made of tungsten. When the condition of the contacts affects the ignition, remove and resurface with fine emery cloth or against the flat side of an emery wheel, finishing on a hard oil stone.

Oiling.—Remove the distributor cap and put 4 or 5 drops of light engine oil in the exposed oil hole every two weeks. Put a small amount of vaseline on the cam applying with a toothpick. If the car is driven more than 500 miles in two weeks, these attentions must be given every 500 miles.

Timing.—Breaker contacts separate when the top dead center mark "C-L" on the fly-wheel is $1\frac{1}{2}$ inches before the indicator, breaker fully retarded. Spark control is automatic.

Firing Order.—The firing order is 1, 4, 2, 6, 3, 5.

Spark Plug Gaps.—Spark plug gaps are .032 inch.

STARTER-GENERATOR.—Model GF, Type 24841. Armature shaft is chain connected to the engine crankshaft. The lock torque is 45 pound-feet.

Starter Data—Model GF

Torque	R.P.M.	Amperes
5 pound feet	420	37
8 pound feet	360	53
12 pound feet	300	75
17 pound feet	240	99

Current when locked is 240 amperes. The brush tension of all brushes is $\frac{1}{2}$ pounds.

GENERATOR.—Generator current regulation is by the third brush system. Generator begins to supply current at 9 miles per hour. The maximum charging rate is 12 amperes, reached at 18 to 20 miles per hour, or 1500 R.P.M. of the armature.

Generator Data—Model GF

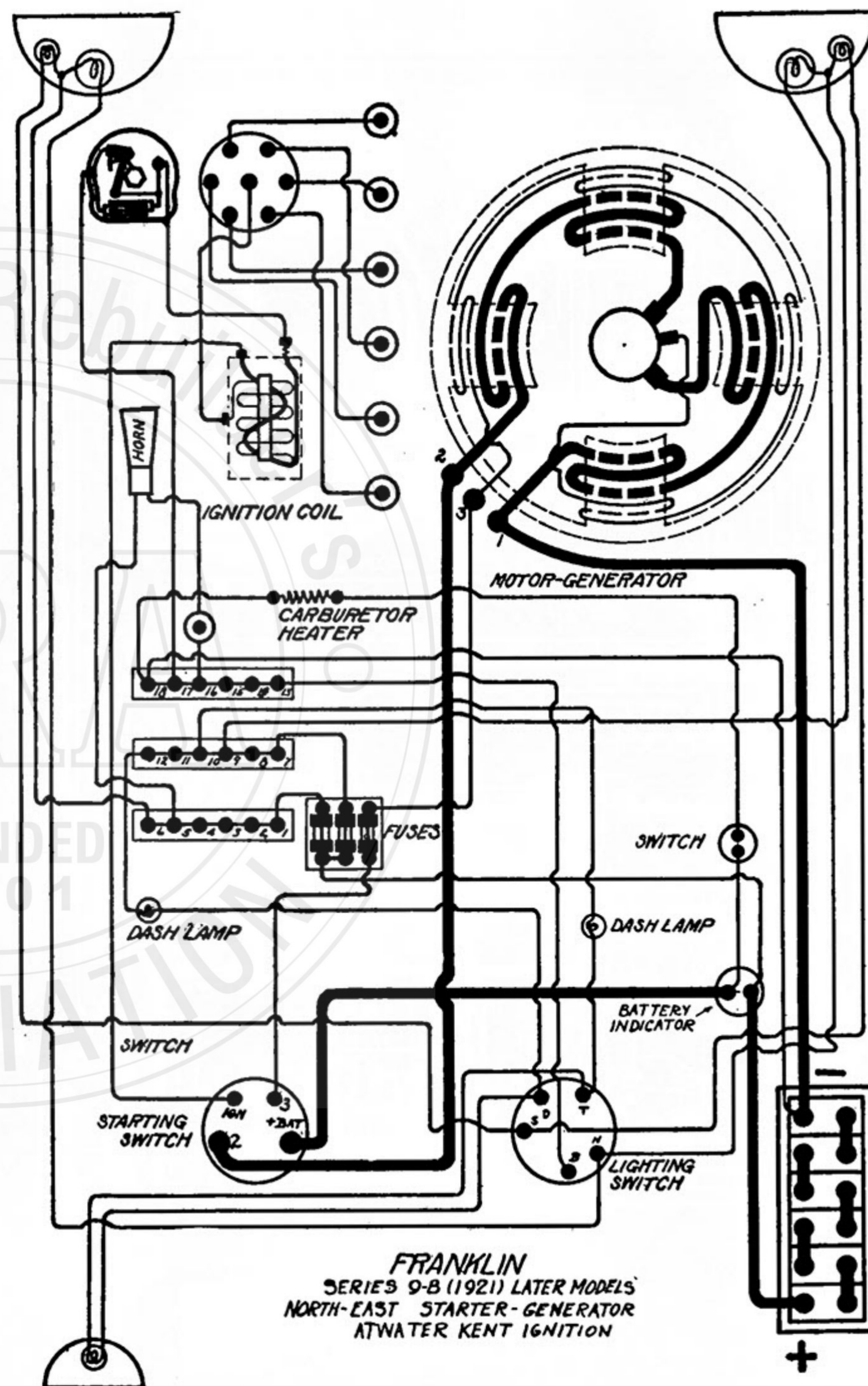
Amperes	R.P.M.	Amperes	R.P.M.
Hot Test		Cold Test	
0	780	0	730
6	1050	6	930
8	1200	10	1130
10	1750	12	1500
9	2500	10	2760

Oiling.—Put 4 or 5 drops of light engine oil in the rear bearing oiler of the starter-generator every month. If the car is driven more than 1000 miles in a month, the oiling must be done every 1000 miles.

RELAY.—There is no relay. The circuit between the generator and battery is controlled by the starting switch.

LAMPS.—Head lamps are 14 volt, 21 cp. Dimmer, dome and tonneau lamps are 14 volt, 4 cp. Dash and tail lamps are 8 volt, 2 cp.

FUSES.—Fuses are 10 ampere.



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