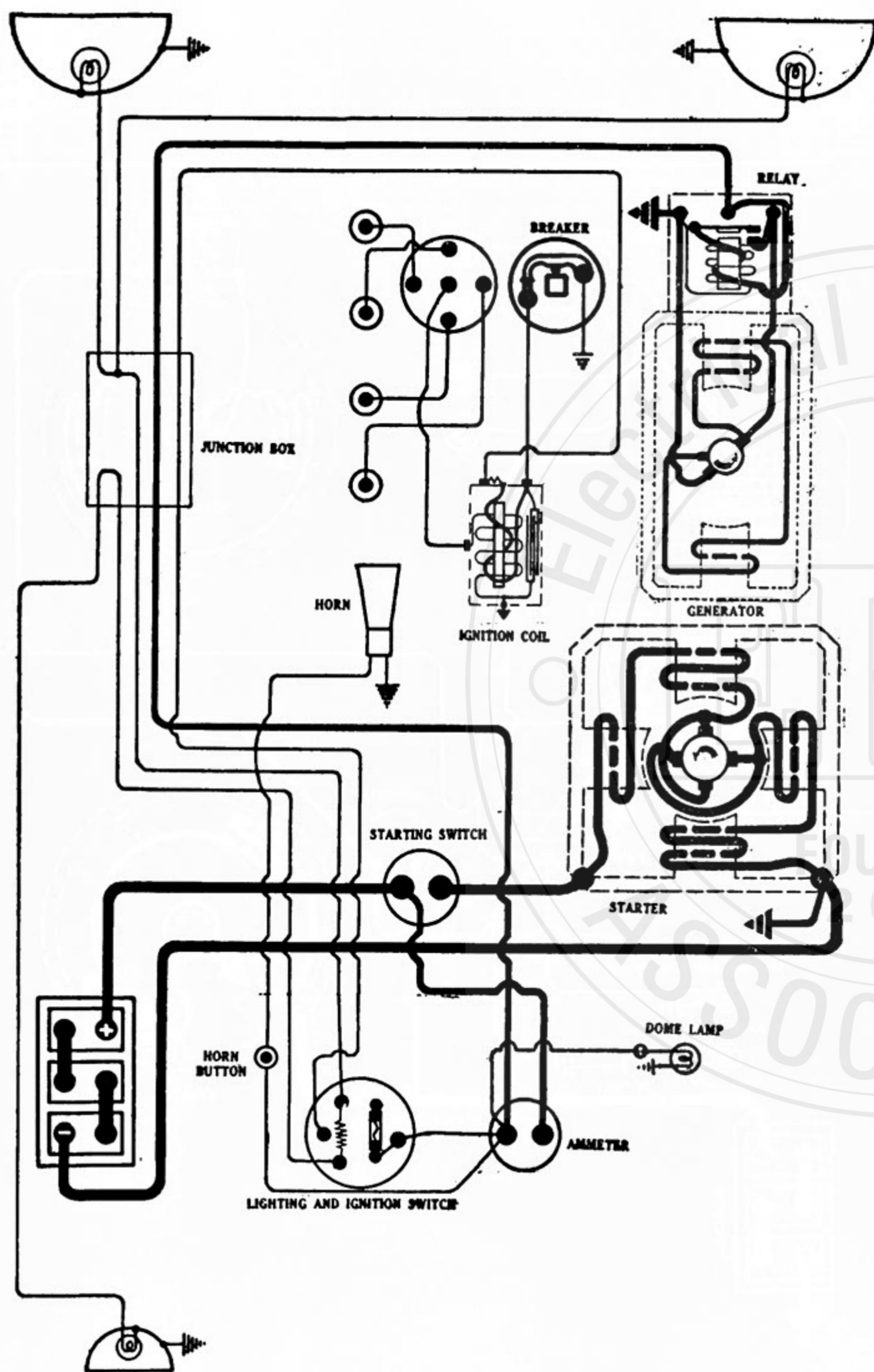




CHEVROLET

MODEL 490 (1922)

AUTO-LITE GENERATING, STARTING AND LIGHTING SYSTEM REMY IGNITION

BATTERY:—Willard, Type SJXR-3. 6 volt, 80 ampere-hour. The negative (—) terminal is grounded at the starting motor.

IGNITION:—Breaker contacts separate .030 inch. When the condition of the contacts affects the ignition, resurface with a fine, flat jeweler's file or worn No. 00 sandpaper.

Oiling:—Refill the grease cup under the breaker head with soft cup grease and turn down two turns every two weeks. Put a small amount of vaseline on the fiber bumper of the contact arm, 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 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 1-2-4-3.

Spark Plug Gaps.—Spark plug gaps are .030 inch.

STARTER:—Model MF. Rotation is counter-clockwise, looking at the commutator end. Starter is connected to the engine through a Bendix drive. Starter cranks the engine at 150 to 160 R.P.M., normally, taking 160 amperes.

Starter Data—Model MF

Torque	R.P.M.	Volts	Amperes
2.0 lb. ft.	1550	190	5.1
4 lb. ft.	960	295	4.5
5 lb. ft.	500	390	4.0
7.5 lb. ft.	100	460	3.7

Stalled Torque Data

Volts	Lock Torque
2.0	5.6 lb. ft.
3.5	10.4 lb. ft.
5.0	15.0 lb. ft.

The brush tension is 2 pounds.

Oiling:—Thoroughly clean out and repack the starter bearings with soft cup or ball-bearing grease every six months.

GENERATOR:—G.H. 1012. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system.

Generator Test Data

Amperes	Hot Test	R.P.M.	Amperes	Cold Test	R.P.M.
0	700		0	660	
6	1200		6	1000	
10	1700		10	1300	
12	2000		12	1500	
13	2400		16	2400	

The brush tension is 2 pounds. Charging rate is varied by adjustment of the third brush setting. Move the third brush in a counter-clockwise direction, looking at the commutator end, to increase the charging rate and in the opposite direction to decrease the charging rate. Reseat the brush after adjusting the position. Operating freely as a motor, generator takes 2.7 amperes, armature revolving at 450 R.P.M. Shunt field winding takes 1.7 amperes.

Oiling:—Put 5 or 6 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 10 miles per hour or 700 R.P.M. of the armature, and opens at 9 miles per hour or 600 R.P.M. of the armature. The discharge current is 0 to 2 amperes at opening of relay contacts. Clean the relay contacts by drawing unglazed paper between them. If badly burned or pitted, resurface them with well worn No. 00 sandpaper. Remove all grit. Adjust before again putting into service.

LAMPS:—Head lamps are 6-8 volt, 17 cp. Tail lamp is 6-8 volt, 2 cp. Dome lamp is 4 cp. (used only in closed bodies).