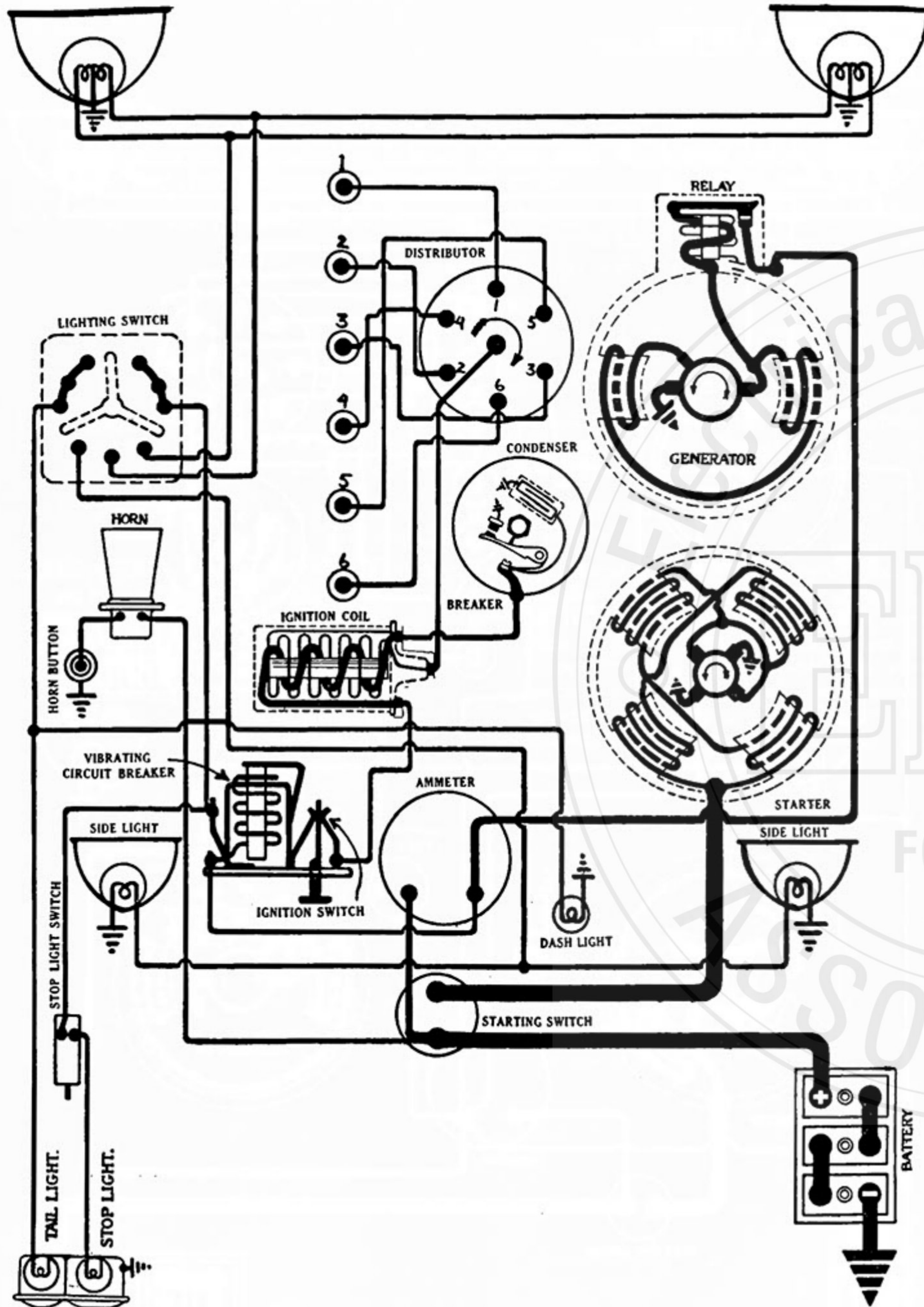


DAVIS

MODEL 94 (1927) DELCO-REMY GENERATING, STARTING SYSTEM DELCO-REMY IGNITION



BATTERY:—Willard, Type WR-13, 6 volt. The negative (—) terminal is grounded. Starting capacity (20 minute rate) is 98 amperes for 20 minutes. Lighting capacity (5 ampere rate) is 5 amperes for 17 hours.

IGNITION:—Coil Model 2182. Distributor Model 5294. Breaker contacts separate .018-.022 inch. They are made of tungsten. Resurface contacts with a fine contact file or on a medium hard oilstone. Automatic advance begins at 580 R.P.M. Maximum automatic advance is 30 degrees reached at 2800 R.P.M. Breaker arm spring tension is 16-20 ounces.

Oiling:—Put 8 or 10 drops of light engine oil in the distributor oilers every two weeks or each 500 miles. Put a small bit of vaseline on the face of the breaker cam every 2000 miles.

Timing:—Breaker contacts begin to separate when piston No. 1 reaches top dead center on the compression stroke, with the spark control and breaker assembly in the fully retarded position.

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

Spark Plugs:—Spark plugs are $\frac{7}{8}$ S.A.E. Standard. Gaps are .025 inch.

STARTER:—Model 313. Starter is connected to the engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at the commutator end. Brush tension is $2\frac{1}{4}$ - $2\frac{1}{2}$ pounds each.

Starter Data

Torque	R.P.M.	Volts	Amperes
0 lb. ft.	Free	6	50
13 lb. ft.	Lock	3.2	...

Oiling:—Starter bearings are oilless. They require no attention.

GENERATOR:—Model 332. The direction of rotation is counter-clockwise, looking at the commutator end. The maximum charging rate is 14-17 amperes reached at 1600 R.P.M. The third brush system is used for current regulation. To adjust generator charging rate, loosen the lock screw and shift the third brush in a counter-clockwise direction to increase the charging rate and in the opposite direction to decrease the charging rate. Generator brush tension is $1\frac{1}{4}$ - $1\frac{1}{2}$ pounds.

Generator Data

Amperes	R.P.M.	Volts
0	575	6.5
10	1000	7.8
14-17	1600	8.1

Motoring, generator draws 4.5-6 amperes at 6 volts. Shunt field current is 4 amperes at 6 volts.

RELAY:—Relay closes when the generator voltage reaches 7-7.5 volts and opens with a discharge current of 0-2 amperes. Contacts separate .025 inch. Air gap is .009-.010 inch with contacts closed.

LIGHTING:—Delco-Remy Switch Model 1300. Switch is mounted at the base of the steering column. Head lights are 21-21 cp. (double filament-double contact), Mazda 1110. Side lights are 6-8 volt, 3 cp. S.C. Mazda 63. Stop light is 6-8 volt, 15 cp. S.C. Mazda 87. Dash light is 6-8 volt, 3 cp. D.C. Mazda 64. Dome and tail lights are 6-8 volt, 3 cp. S.C. Mazda 63.

CIRCUIT BREAKER:—A vibrating circuit breaker is combined with the ignition switch on the dash. Circuit breaker begins to vibrate with a current of 25-30 amperes and continues to operate limiting the current to 10-15 amperes.