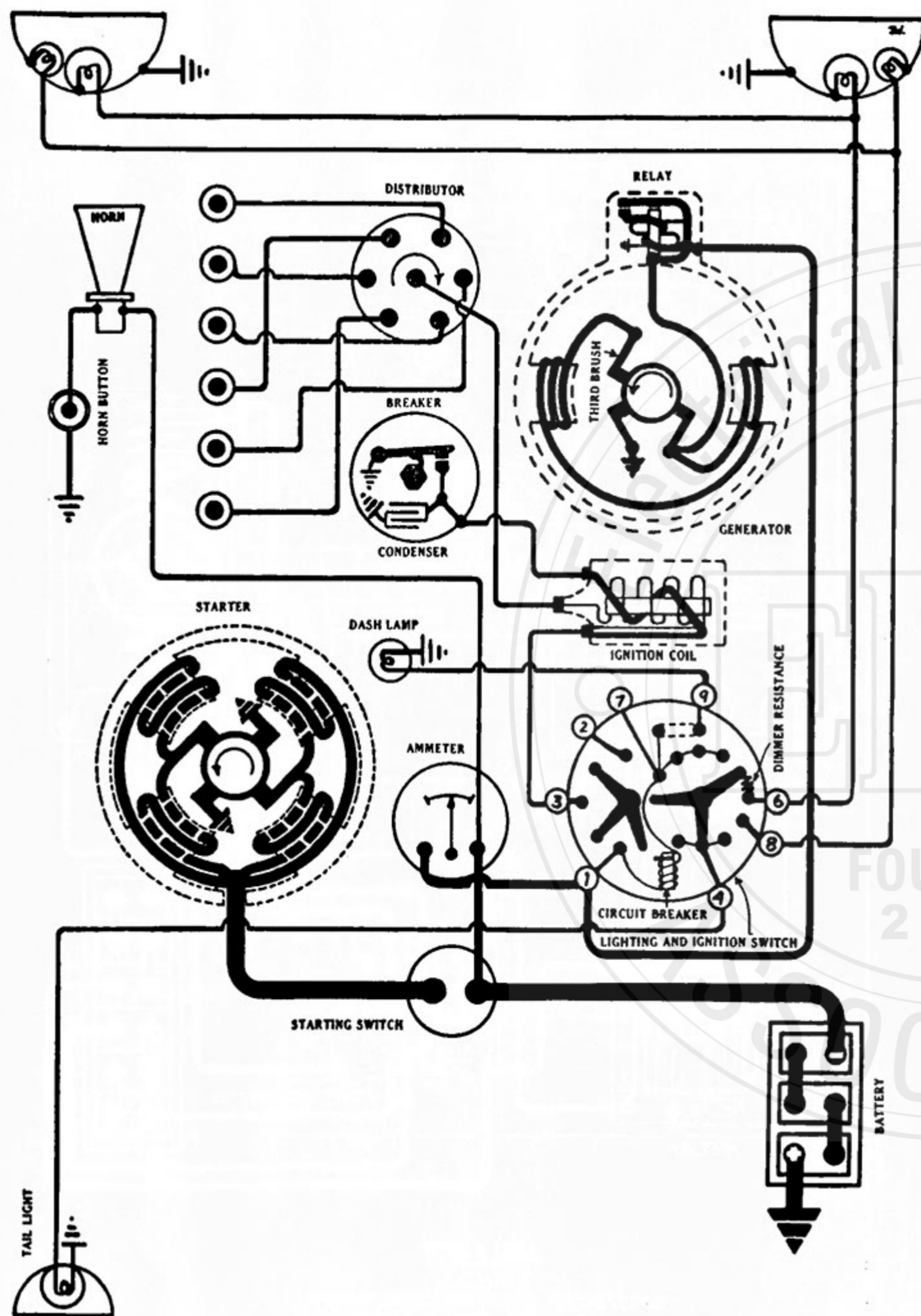




HERTZ

MODEL D1 (1925-26) DELCO GENERATING, STARTING AND LIGHTING SYSTEM DELCO IGNITION

BATTERY.—Vesta, Type R6-DJ-13Y Form 235. 6 volt. Starting capacity is 105 amperes for 20 minutes. Lighting capacity is 5 amperes for 12 hours. The positive (+) terminal is grounded.

IGNITION.—Coil Model 2182. Distributor Model 5278. Distributor is mounted on the generator. Breaker contacts separate .015-.0225 inch. They are made of tungsten. When the condition of the contacts affects the ignition, remove and resurface on a medium hard oilstone or with a fine, flat jeweler's file. The tension of the breaker arm spring should be 13-16 ounces.

Oiling.—Put 8 or 10 drops of light engine oil in the oiler on the side of the distributor housing every two weeks or each 500 miles if the car is driven more than 500 miles in two weeks.

Timing.—Breaker contacts begin to separate when piston entering power stroke reaches top dead center with the spark control lever and breaker assembly in the fully retarded position. To set timing, retard spark lever and crank engine until piston No. 1 reaches this position. Then loosen the adjustment nut on the side of the distributor housing and rotate the distributor until breaker contacts begin to separate. Then tighten the nut. Make certain that the rotor is under the segment connected to the spark plug in cylinder No. 1.

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

Spark Plugs.—Spark plug diameters are $\frac{7}{8}$ inch. Gaps are .025 inch.

STARTER.—Model 286 and 313. Starter is connected to the engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at the commutator end. Starter brush tension should be $2\frac{1}{4}$ - $2\frac{1}{2}$ pounds each. Starter switch is Model 1953.

Model 286 Starter Data

Torque	R.P.M.	Volts	Amperes
0 lb. ft.	Free	4	60
8 "	Lock	3	450

Model 313 Starter Data

Torque	R.P.M.	Volts	Amperes
0 lb. ft.	Free	4	60
11 "	Lock	3	450

Oiling.—Starter bearings are self oiling. They require no attention.

GENERATOR.—Model 301 and 312. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system. To adjust the generator output, loosen the generator cover band and shift the third brush mounting plate by means of the handle on the plate. Shifting the third brush in the direction of armature rotation increases the charging rate and in the opposite direction decreases the charging rate. The brush spring tension should be $1\frac{1}{4}$ - $1\frac{3}{4}$ pounds each.

Model 301 and 312 Generator Data (Hot)

Amperes	R.P.M.
5	800
15 min.	1600

Oiling.—Put 8 or 10 drops of light engine oil in each of the generator bearing oilers every two weeks or each 500 miles if the car is driven more than 500 miles in two weeks.

RELAY.—Relay is mounted on top of the generator. Relay contacts close when the voltage of the generator reaches 6.75-7.5 volts and open with a discharge current of 1-3 amperes. Relay contacts separate .025-.035 inch. Air gap between relay armature and coil core is .015-.020 inch, contacts closed.

LIGHTING.—Switch Model 1276. Head and stop lamps are 6-8 volt, 21 cp. S. C. Side lamps are 6-8 volt, 4 cp. S. C. Tail and dash lamps are each 6-8 volt, 2 cp. S. C.

CIRCUIT BREAKER.—A vibrating circuit breaker is mounted on the back of the switch. A current of 25-30 amperes causes this device to vibrate. While operating the current is 10-15 amperes.