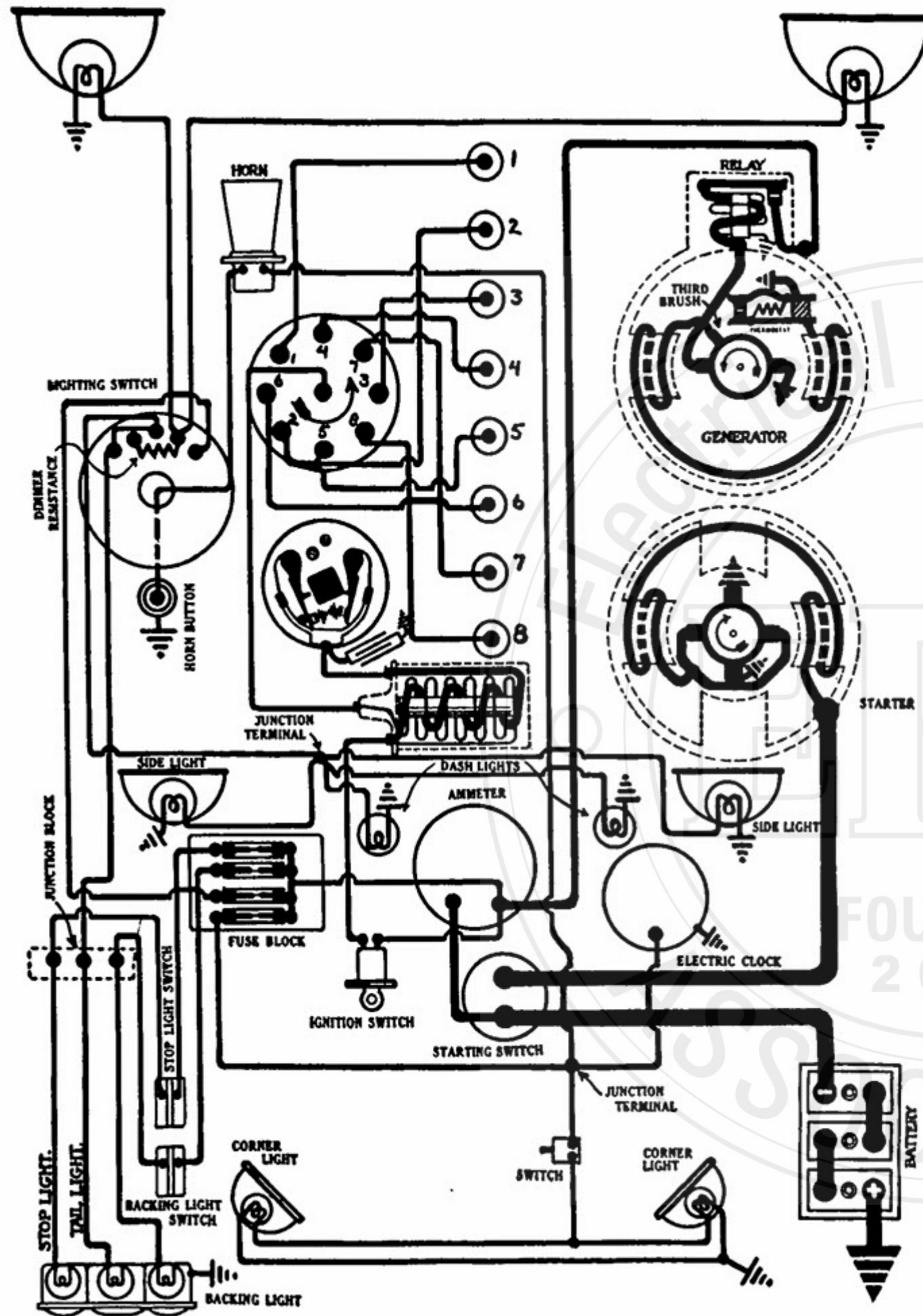


KISSEL

MODEL 8-80 (1928)

DELCO-REMY GENERATING, STARTING SYSTEM DELCO-REMY IGNITION



BATTERY:—Willard, Type SJWR-4, 6 volt. The positive (+) terminal is grounded. Starting capacity (20 minute rate) is 125 amperes for 20 minutes. Lighting capacity (5 ampere rate) is 5 amperes for 22 hours.

IGNITION:—Coil Model 525-C. Distributor Model 658-B. Breaker contacts separate .022 inch. Set contact gap by loosening lock screw on stationary contact plate and turning eccentric adjusting screw until proper setting is secured. Resurface contacts with a fine flat contact file or on a medium hard oilstone. Breaker arm spring tension is 17-21 ounces.

Timing:—Breaker has two sets of contacts on a four sided cam. Contacts open alternately at intervals of 45 degrees corresponding to 90 degrees of crankshaft rotation. To set timing, crank engine over until piston No. 1 reaches top dead center with the spark control and breaker assembly in the fully retarded position. Breaker contacts should separate at this point. If they do not, loosen the clamp screw on advance arm and rotate distributor until one set of contacts open. Tighten the screw. Then crank engine over until one set of contacts open. Tighten the screw. Then crank engine over 90 degrees from firing position of piston No. 1 when piston No. 6 will reach firing position. The second set of contacts should separate at this point. If they do not loosen lock screws and turn eccentric adjusting screw on breaker plate until contacts begin to open. Tighten the lock screws and check the contact gap with arm on lobe of cam. If gap is outside the limits of .020-.024 inch, reset at .022 inch and repeat synchronization.

Oiling:—Fill grease cup under distributor head with medium cup grease and turn down two turns every two weeks or each 500 miles. Every 5000 miles remove rotor and saturate wick oiler in center of shaft with light engine oil. Place a small bit of vaseline on the face of the breaker cam under the fiber bumper of the contact arm.

Firing Order:—The firing order is 1-6-2-5-8-3-7-4.

Spark Plugs:—Spark plugs are 7/8 inch Standard. Gaps are .025 inch.

STARTER:—Model 716-A. Starter is connected to the engine through a Bendix drive with gear reduction. The direction of rotation is clockwise, looking at the commutator end. Starter cranks the engine drawing 175-180 amperes at 4.5 volts. Brush spring tension is 24-28 ounces.

Starter Data

Torque	R.P.M.	Volts	Amperes
0 lb. ft.	3000	5	70
15 lb. ft.	Lock	3.7	450

Oiling:—Put 4 or 5 drops of light engine oil in the oiler on the commutator end of the starter every 1000 miles. The drive end bearing is oilless.

GENERATOR:—Model 949-C. The direction of rotation of the generator is counter-clockwise, looking at the commutator end. Current regulation is by third brush shunt field and thermostat. Thermostat contacts open at 150 degrees F. reducing the output approximately 40%. To adjust the generator output, loosen the screw on the generator end plate and shift the third brush mounting plate in a counter-clockwise direction to increase the charging rate and in the opposite direction to decrease the charging rate.

Generator Data

Cold Test			Hot Test		
Amperes	Volts	R.P.M.	Amperes	Volts	R.P.M.
19-21	8.5	1450	9-12	7.5	2000

Generator, motoring, draws 5.5 amperes at 6 volts. Shunt field current is 5 amperes at 6 volts. Generator brush spring tension is 24-28 ounces.

RELAY:—Model 265-B. Relay is mounted on the generator. Relay contacts close when the voltage of the generator reaches 6.75 volts and open with a discharge current of 2.5 amperes. Contacts separate .015-.025 inch. Air gap is .014-.021 inch with contacts closed.

LIGHTING:—Clum Switch Model 10677. Switch is mounted at the base of the steering column. Head lights are 6-8 volt, 21 cp. S.C. Mazda 1129. Side lights are 6-8 volt, 3 cp. S.C. Mazda 63. Dash and tail lights are 6-8 volt, 3 cp. S.C. Mazda 63. Stop and backing lights are 6-8 volt, 15 cp. S.C. Mazda 87.

FUSES:—Lighting fuses are 10 amperes.