

AUBURN

MODEL 8-77 (1927)

DELCO-REMY GENERATING, STARTING AND LIGHTING SYSTEM DELCO-REMY IGNITION

BATTERY:—U. S. L., Type XY-13 X 6, 6 volt. Starting capacity is 90 amperes for 20 minutes. Lighting capacity is 5 amperes for 17.4 hours. The positive (+) terminal is grounded.

IGNITION:—Coil Model 525-A. Distributor Model 658-B. Breaker contacts separate .022 inch. They are made of tungsten. When the condition of the contacts affects the ignition, resurface on a medium hard oilstone or with a fine flat jeweler's file. Distributor is of the manual and automatic advance type. Manual advance is 22° and automatic advance is 25°.

Oiling:—Fill the grease cup under the distributor head with medium cup grease and turn down two turns every month or each 1000 miles.

Timing:—Breaker contacts begin to separate when the piston entering power stroke reaches top dead center with the spark control lever in the fully retarded position. Set timing with the mark on the flywheel opposite the rib in the chain case, with the distributor fully retarded. The other set of contacts should open exactly 45° after this point. They may be checked by a special tool furnished by the manufacturer.

Valve Timing:—INLET VALVES:—Head diameter, 1 3/8 inches; stem diameter, 11/32 inch; stem length, 5 7/8 inch; tappet clearance, .006-.008 inch hot; spring pressure, 36 pounds closed; valve lift, 11/32 inch; intake opens at top dead center, and closes 40° after lower dead center.

EXHAUST VALVES:—Head diameter, 1 1/4 inches; stem diameter, 11/32 inch; stem length, 5 7/8 inches; tappet clearance, .006-.008 inch hot; spring pressure, 36 pounds closed; valve lift, 11/32 inch; exhaust opens 50° before lower dead center, and closes 10° after top dead center. The guide stems are removable. Oversize valve stems are made.

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

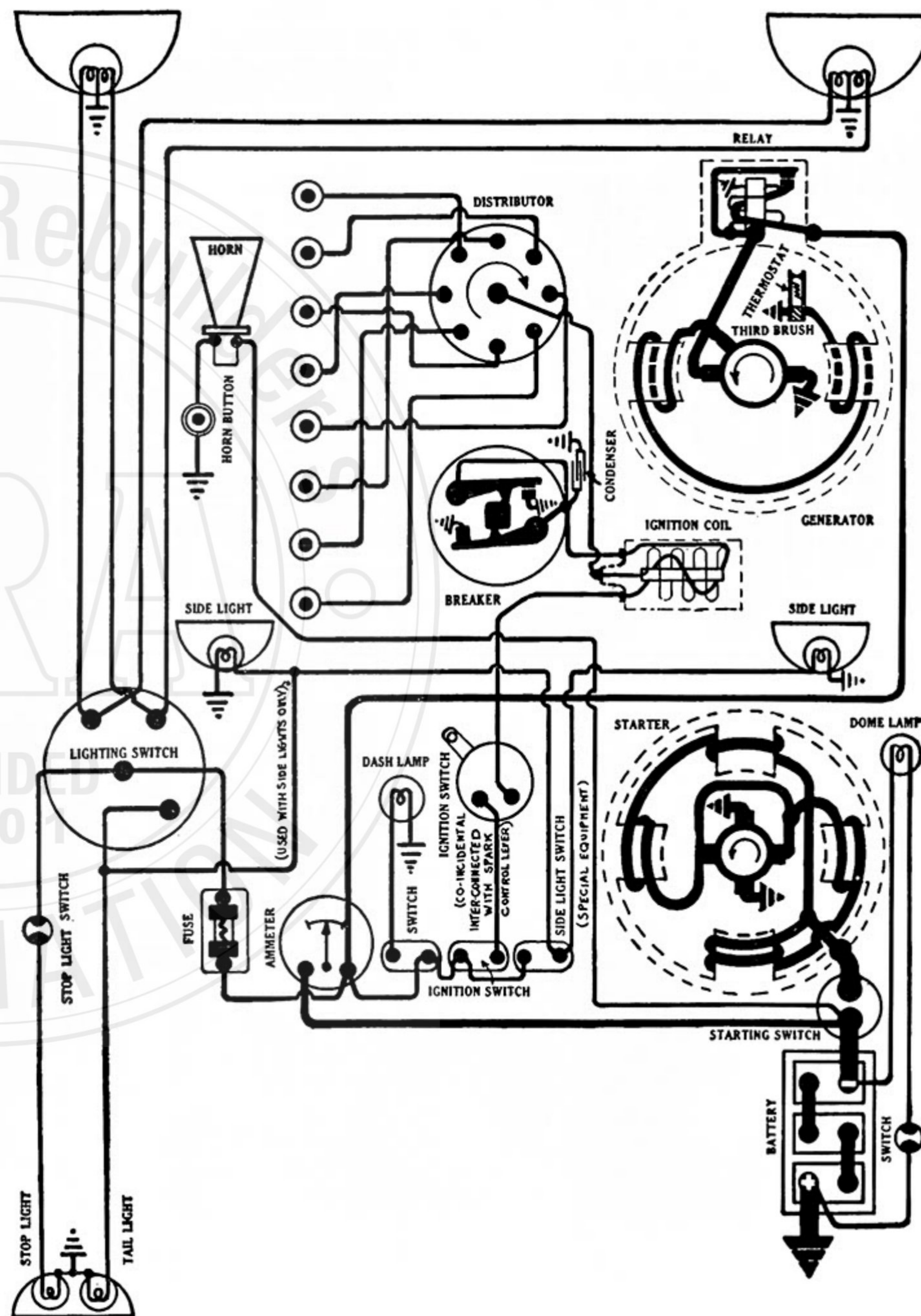
Spark Plugs:—Spark plug diameters are 7/8 inch. Gaps are .025 inch.

STARTER:—Model 716-A. 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 24-28 ounces.

Starter Data			
Torque	R.P.M.	Volts	Amperes
0 lb. ft.	5000	5	65
12 lb. ft.	Lock	3.63	475

Oiling:—Put 4 or 5 drops of light engine oil in the oiler on the commutator end of the starter every month or each 1000 miles.

GENERATOR:—Model 949-B. The direction of rotation is counter-clockwise, looking at the commutator end. Generator current regulation is by the third brush system. A thermostat located in the third brush circuit opens at 165°F. cutting a resistance into the shunt field and reducing the output approximately 50%. To adjust generator output loosen the small round-headed screw on the outside of the generator endplate and shift the third brush mounting arm. Shifting the third brush in the direction of armature rotation increases the charging rate and in the opposite direction decreases the charging rate. Tighten the screw after making the adjustment.



AUBURN

MODEL 8-77 (1927)

DELCO-REMY GENERATING, STARTING AND LIGHTING SYSTEM DELCO-REMY IGNITION

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

Shunt field current is 4 amperes at 6 volts. Generator brush tension is 24-28 ounces.

Oiling:—Put 4 or 5 drops of light engine oil in the oiler on the commutator end of the generator every month or each 1000 miles.

RELAY:—**Model 265-B.** Relay is mounted on top of the generator. Relay contacts close at 675 R.P.M. of the generator armature when the voltage reaches 7.25 volts

and open with a discharge current of 0-3 amperes. Contacts separate .020 inch. Air gap between relay armature and coil core is .016 inch, contacts closed.

LIGHTING:—**Briggs & Stratton Switch, Model 39720.** Head lamps are 6-8 volt, 21 cp. Head lamp bulbs have double filament. Dimmer filament is 6-8 volt, 2 cp. Dome lamp is 6-8 volt, 4 cp. D.C. Stop lamp is 6-8 volt, 4 cp. S.C. Dash and tail lamps are 6-8 volt, 2 cp. S.C.

FUSES:—Lighting fuse is 20 amperes.

ACCESSORIES:—National Gauge gas gauge; Cuno cigar lighter; National Gauge ammeter.

