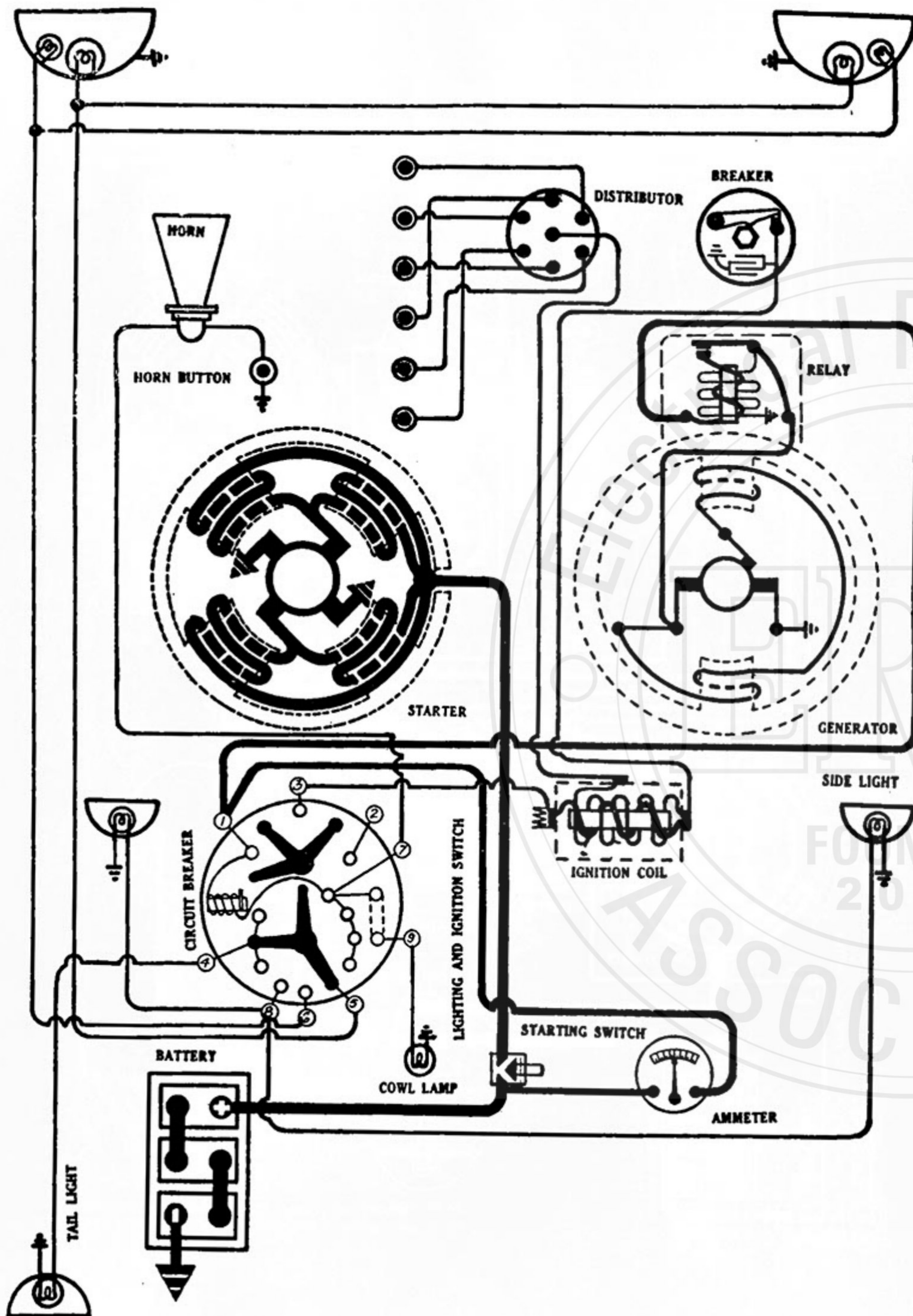




# JORDAN

MODELS MX AND H (1923)  
MODELS K AND L (1924-25)  
DELCO GENERATING, STARTING AND LIGHTING SYSTEM  
DELCO IGNITION

**BATTERY.**—Willard Type XR-15. 6 volt, 110 ampere hour, The starting capacity is 125 amperes for 20 minutes. Lighting capacity is 5 amperes for 22 hours. The negative (—) terminal is grounded.

**IGNITION.**—Coil Model No. 2178. Distributor Model 5255. Breaker contact gap is .022 inch. They are made of tungsten. If the condition of the contact points affects the ignition, remove and resurface on a hard oilstone.

**Oiling.**—Place 8 or 10 drops of light engine oil in distributor oilers every two weeks. If the car is driven more than 500 miles in two weeks, this attention must be given every 500 miles. Repack distributor shaft housing with soft cup grease up to advance ring and yoke once each season.

**Timing.**—Breaker contact points begin to separate when No. 1 piston is  $3\frac{5}{8}$  inch past top dead center, measured on flywheel, spark control lever and breaker assembly fully retarded; or  $25^\circ$  early, measured on the flywheel, with spark control lever and breaker fully advanced.

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

**Spark Plugs.**—The spark plug gaps are .025-.030 inch.

**STARTER.**—Starter Model No. 208. The direction of rotation is clockwise, looking at commutator end. Starter cranks engine at 800 R.P.M. of motor armature, or 120 R.P.M. of engine, taking a current of 85 amperes (hot) or 105 amperes (cold). Lock torque is 27 pound-feet at 2.75 volts. Starter running free draws 36 amperes at 6 volts. The brush tension of the starter brushes should be from  $2\frac{1}{2}$  to  $2\frac{3}{4}$  pounds each.

**Oiling.**—Repack once or twice a season with soft cup grease by means of the grease plugs on the side of the gear housing. Put 8 or 10 drops of light engine oil into each starter oiler every two weeks. If the car is driven over 500 miles in two weeks, this care must be given every 500 miles. The wick under the oiler on the outward bearing of the splined shaft should be saturated with light engine oil every 2000 miles. The starting motor must be withdrawn from the engine for this purpose.

**GENERATOR.**—Model No. 256. The direction of rotation is counter-clockwise, looking at the commutator end. The third brush is used for current regulation. The maximum charging rate is 15 amperes, reached at 15 miles per hour.

## Generator Test Data

| Amperes | Hot Test | R.P.M. | Amperes | Cold Test | R.P.M. |
|---------|----------|--------|---------|-----------|--------|
| 5       |          | 700    | 6       |           | 700    |
| 11      |          | 1000   | 12      |           | 1000   |
| 14-16   |          | 1600   | 15-18   |           | 1600   |
| 15 Max. |          | 1800   | 17 Max. |           | 1800   |

**Oiling.**—Refill the two oil cups with light engine oil every two weeks. If the car is driven over 500 miles in two weeks, this care must be given every 500 miles. Avoid lubricating in such amount that the oil would eventually foul the generator commutator, and perhaps interfere with the proper amount of current generated.

**RELAY.**—Model No. 5754. Relay closes at approximately 8 miles per hour, and opens at approximately 5 miles per hour. The contact gap is .025-.035 inch. The air gap between the relay armature coil core is .025-.035 inch, contacts closed.

**LIGHTING.**—Delco Combination Switch No. 1243 is used. Head lights are 6-8 volts, 21 cp. Auxiliary lights are 6-8 volts, 4 cp. Dash and tail lights are 6-8 volts, 2 cp.

**CIRCUIT BREAKER.**—A circuit breaker is used in the place of fuses. The circuit breaker is mounted on the back of the switch. In operation, the circuit breaker intermittently cuts off the flow of current and produces an audible clicking sound, giving warning of an abnormal condition in one of the lighting circuits. This action will continue until the ground is removed or the switch operated to cut off the circuit on which the ground exists. In this manner the circuit breaker protects the wiring, switch and storage battery. Circuit breaker begins to operate with a current flow of 25 to 30 amperes, and will continue to operate with a current flow of not more than 15 amperes. Length of plunger which changes the maximum break between contacts is normally .012-.030 inch. Air gap, totally, between the disc and the walls of the U-shaped