

# Overland

Models 69 and 71 (1913)  
Auto-Lite Lighting System  
Remy Magneto Ignition

**Battery.**—Battery is 6 volt, 80 ampere-hour. The two wire system is used.

**Ignition.**—Magneto breaker contacts should separate .018 inch to .022 inch. Should they become badly burned or pitted, affecting the ignition, resurface with a very fine, flat jeweler's file or a strip of worn No. 00 sand paper.

**Timing.**—Contacts should begin to separate when the top dead center mark "U. P. 1 and 4" on the flywheel is 1-3/16 inches past the indicator, spark control lever and breaker assembly in the fully retarded position.

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

**Spark Plug Gaps.**—Spark plug gaps should be .020 inch to .025 inch.

**Oiling.**—Put 4 or 5 drops of light machine oil in each of the magneto bearing oilers every month. At the same time put a very small trace of vaseline on the fiber bumper of the contact arm, applying with a toothpick. If car is driven more than 1000 miles in a month these attentions must be given every 1000 miles.

**Starter.**—These cars were not equipped with electric starter as standard equipment. If car possesses electric starter, it has been added by the owner.

**Generator.**—The generator is of the permanent field type. Output regulation is by a mechanical governor. With proper adjustment of the governor the maximum armature speed should be 1850 R. P. M., and the output 12 amperes. The generator should deliver 5 amperes at 1100 R. P. M., and 10 amperes at 1620 R. P. M. If output falls considerably below 12 amperes, first clean out any oil or grease which may have collected within the governor drum. If that does not increase the output, move the weights on the governor arm inward until the desired output is obtained.

**Oiling.**—Generator bearings are packed with soft cup or ball bearing grease. They should be thoroughly cleaned out and repacked with grease every six months.

**Relay.**—Relay is mounted under the arch of the generator magnets. Relay should close at 800 R. P. M. of generator armature. Charging current should be .5 to 1.5 amperes at closing, and discharge current 0 to 1 ampere at opening of relay contacts. The relay may be removed from the generator for adjustment by removing the brush covers, taking the leads off the brush connections, taking out the screws in the end plate that carries the generator terminals, and then drawing the relay and the brush leads out from under the magnets. Clean relay contacts by drawing a piece of unglazed paper between them. If badly burned or pitted, resurface with a piece of well worn No. 00 sand paper, drawing a piece of unglazed paper between them to remove all grit. Adjust before again putting into service.

**Lamps.**—Head lamps are 6-7 volt, 5 cp. Side lamps are 6-7 volt, 4 cp. Dash lamp is 6-7 volt, 2 cp. Tail lamp is 6-7 volt, 2 cp.

**Model Number.**—Generator is No. C-60.

