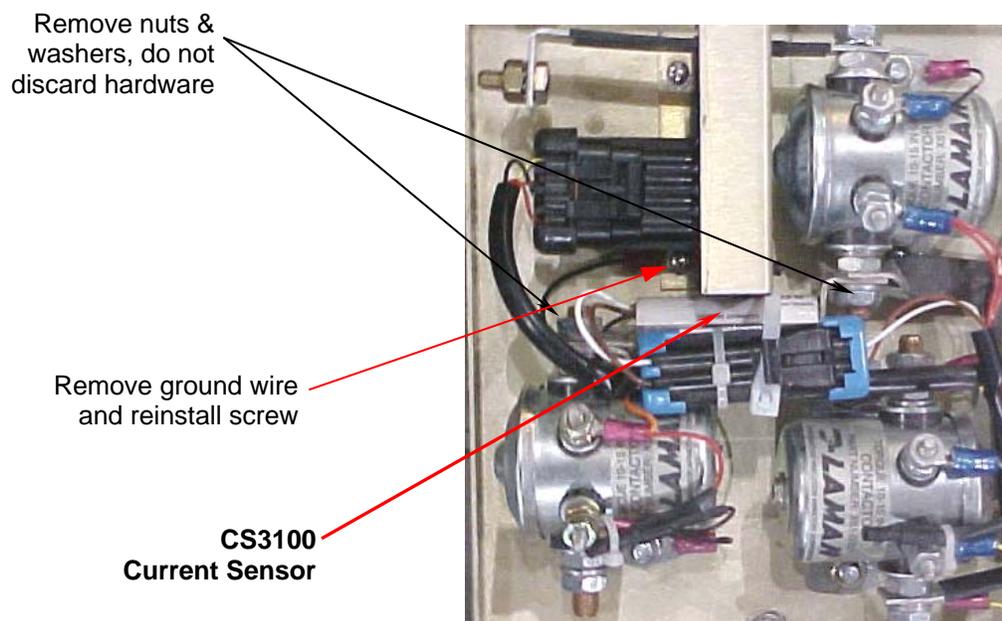


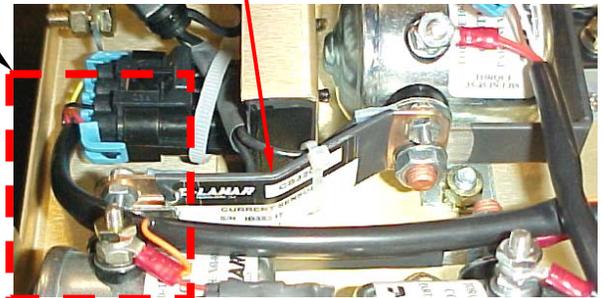
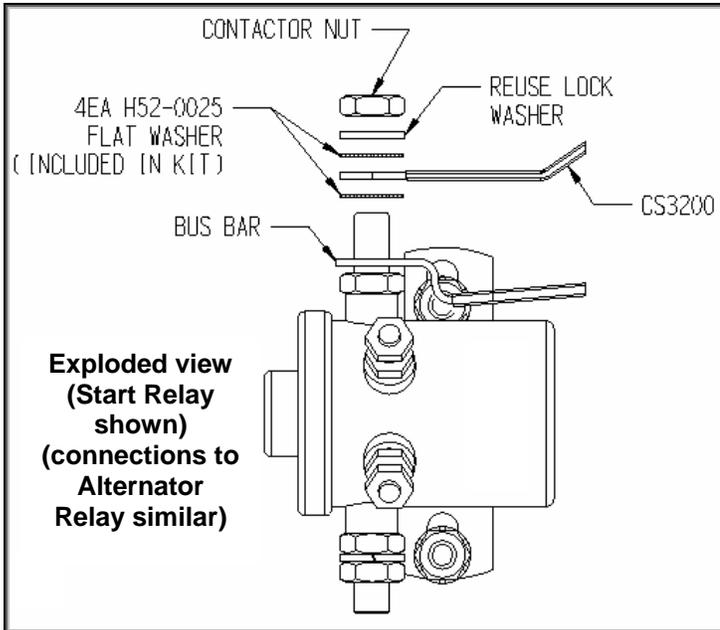
- SUBJECT:** This letter is to inform you that Lamar P/N CS3200 Current Sensor Kit is a direct replacement to Lamar P/N CS3100 Current Sensor.
- REASON:** To provide instructions for removing and replacing the CS3100 Current Sensor with a CS3200 Current Sensor Kit.
- MODELS:** This change affects the following Lamar MCU models: MC01-1, MC01-2, MCO1-3, MC01-2A, and MC01-3A (up through IC9) MC01-3A (IC10 and on) includes the CS3200 as standard equipment inside the MCU.
- INFORMATION:** In later versions of the MC01 Master Control Unit the C3100 Current Sensor (electronic Hall Effect style) was replaced by CS3200-1 Current Sensor (resistive shunt style) as standard equipment. The shunt style sensor, by its simplicity in design, has been shown to be a reliable form of current sensing. Although the output performance characteristics are the same for both units the CS3100 is not approved to be used in later versions of the Master Control Unit (MC01-3A IC10 and on). CS3200 kit includes one CS3200-1 Current Sensor, four H52-0025 washers, one tie wrap to support fuse holders and this document. If a replacement fuse is needed for CS3200-1, use Lamar P/N F51-0014 or Bussman ATM-5 (not part of this kit).
- PROCESS:** To remove and replace your CS3100 with a CS3200, simply remove the nuts and washers attaching the unit to the contactors. Save the nuts and washers as you will need them to attach the CS3200-1. Remove the screw that attaches the CS3100 black ground wire. Disconnect CS3100 wedge connector from MCU harness. Remove CS3100 from the MCU and reattach the screw that was used for the ground wire. Torque the screw to 10-15 in-lbs. See Figure 1.

FIGURE 1: Removing CS3100



Install your CS3200 as shown in Figures 2 & 3 utilizing the hardware provided in the kit as well as the hardware left over from removal of the CS3100. Torque contactor nuts to 35-45 in-lbs.

Figure 2: Hardware Sequence (2 Places)



CS3200
Current Sensor

Figure 3: Finished Installation

Tie wrap to support fuse holder



Wedge connector between the CS3200-1 and bus bar as shown.