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## GS3055/60(2G) to 3G3070(3G) PCB Replacement Guide

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These instructions must be used in conjunction with the 3G3070 Installation Manual. Observe all specified safety precautions during the board replacement.

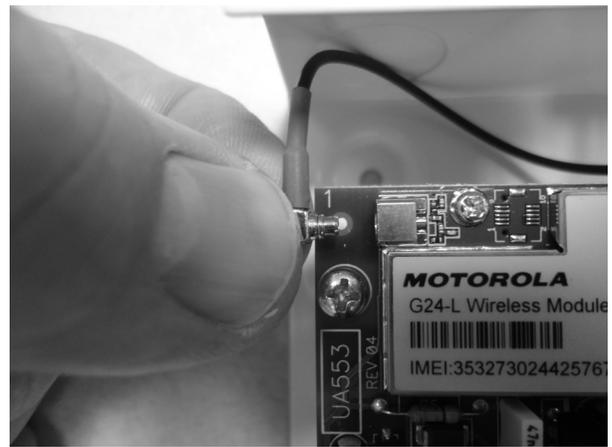
**NOTE:** The 3G3070/GS3055/60 PCB must be replaced by service persons only.

1. Completely power down the GS3055/60 by removing power to the +12V input terminal and disconnecting the battery leads (red and black wires).
2. Disconnect the telecommunications network wiring and any connection to the other terminals.
3. Carefully disconnect the GSM antenna from the GSM radio module on the GS3055/60. To remove the cable from the radio module, insert a small, flat head screwdriver between the antenna connector cable and the radio module (see figures 1 and 2) then gently pry the plug loose. Make sure that the screwdriver does not slip off.

**NOTE:** Any other method for removal of the antenna may cause permanent damage to the on-board connector or antenna connector cable.



**Figure 1**



**Figure 2**

4. The GS3055/60 PCB is secured by screws and/or plastic standoffs located at the four corners of the board. Carefully squeeze the top of each standoff to release the PCB from the standoff. Needle nose pliers are recommended.
5. If a standoff breaks, the cabinet may have to be unfastened from the wall to remove the broken part. Extra standoffs are provided with the replacement PCB.
6. Once the old PCB is removed from the cabinet, carefully remove the SIM card from the PCB. *Slide* the SIM card holder to the left, in the direction labeled "OPEN" on the SIM card holder.
7. Insert the SIM card into the 3G3070 PCB. The notch on the SIM card should face towards the LEDs. Once the card is properly seated in the connector, press down and *slide* it into the "LOCK" position as indicated on the SIM card holder.
8. Mount the 3G3070 PCB back into the cabinet. To mount, align the standoff holes and tighten the screws that were removed from step 4 (if applicable). When mounting the PCB onto the standoffs, only apply pressure to the corners of the PCB next to the standoff mounting hole. Do not apply pressure to the center of the PCB or any of the components.
9. Reconnect all the wiring to the terminals, removed in step 2, except power (i.e., do not attach the battery or apply power to the +12V terminal).

If the unit was previously installed in non current limited mode (i.e., GS3055-ICF) please ensure jumper JP3 is placed to the ON position on the 3G3070 PCB.

10. When upgrading from a GS30XX to 3G3070 communicator, replace the information label on the inside of the cabinet and the approvals label on the outside of the cabinet. Match the model number of the current GS30XX communicator with its corresponding 3G3070 replacement. (GS3060→3G3070, GS3055-ICF→3G3070-CF, GS3060-RF→3G3070-RF). From the labels provided, select the information label with matching model number and place over the information label applied to the inside of the cabinet, completely covering the old label. From the labels provided select the corresponding approvals label and apply, covering the top half of the approvals label (see figure 3), located on the outside of the cabinet. The bottom half contains the manufacturer's name, UL and ULC marks and must remain visible.



**Figure 3**

In order to remain compliant with regulatory approvals you must replace the labels.

11. Perform a hardware default on the unit by following these steps:
- Ensure the unit is still powered down.
  - Connect a wire between PGM1 (terminal 7) and Z1 (terminal 15).
  - Power up the radio by connecting the battery first and then primary DC power.
  - Wait for 40 seconds and then completely power down the unit.
  - Disconnect the wire between the PGM1 and Z1 terminals.

A hardware default must be performed when the SIM card is being replaced.

The red and yellow LEDs will flash indicating the unit is establishing a connection to get its programming from the network. This may take several minutes. Please refer to the 3G3070 Installation Manual if the red LED starts to flash on its own.

**DSC**

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