

OMNII™ GPS RADIO (RA3060-GPS) & END-CAP KITS INSTALLATION



Warning: The installation of any components must be performed using the appropriate anti-static devices. If unavailable, discharge static from your body by touching a grounded metallic object before opening any covers on the hand-held.

This instruction sheet describes how to install a GPS Radio Kit Module (models RA3060-GPS or RA3061-GPS), and a corresponding GPS end-cap kit (models ST9401, ST9404, ST9407, ST9408 or ST9409).

The tools listed below are needed for this procedure:

- Torx T10 screwdriver
- Torx T6 screwdriver
- small needle-nose pliers

1. Getting Omnii™ Ready for GPS Installation



Warning: Always disconnect Omnii from battery & A/C power before servicing components.

1. Remove the battery.
2. Remove the blanking plate or pod if attached (four screws) using a Torx T10 screwdriver. In the case of a pod, disconnect the scanner flex cable from the pod.
3. Use a T6 Torx screwdriver to remove the two topmost screws on the front of the unit, above the display.
4. Use a T10 Torx screwdriver to remove the eight screws holding the back cover to the main unit.

Figure 1

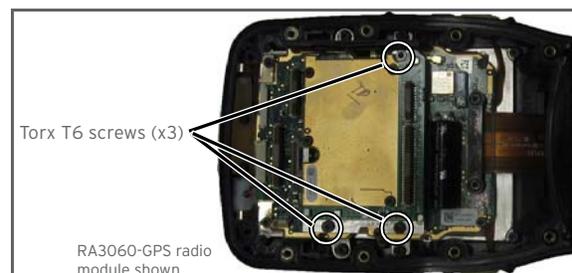


5. Carefully separate the back cover from the main housing. Disconnect any connecting wires.
6. Use a Torx T10 screwdriver to remove the four screws securing the existing end-cap to the back cover.
7. Separate the end-cap from the back cover.



2. Installing the GPS Module

1. Align the 100-pin connector on the GPS module with the connector on the main logic board, and press down to attach it.
2. Use a Torx T6 screwdriver to secure the GPS radio to the main logic board with three M2 x 5 mm screws, torqued to 2.5 in-lb (0.28 N-m).

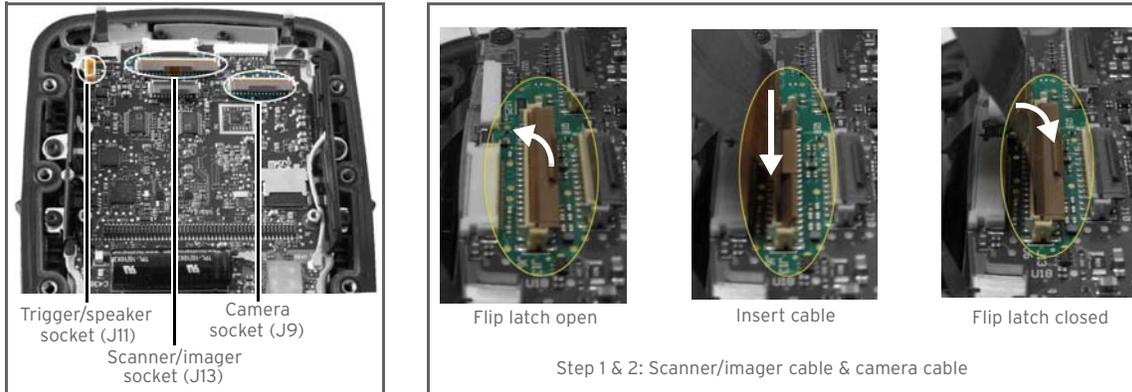


3. Attaching the GPS End-Cap

1. Run the antenna cable and scanner/imager flex cable (if present) through the opening at the top of the expansion back cover.
2. Use a Torx T10 screwdriver to secure the GPS end-cap to the expansion back cover with four M3 x 6 mm screws. Torque to 5 in-lb (0.56 N-m).

4. Reassembling Omnii

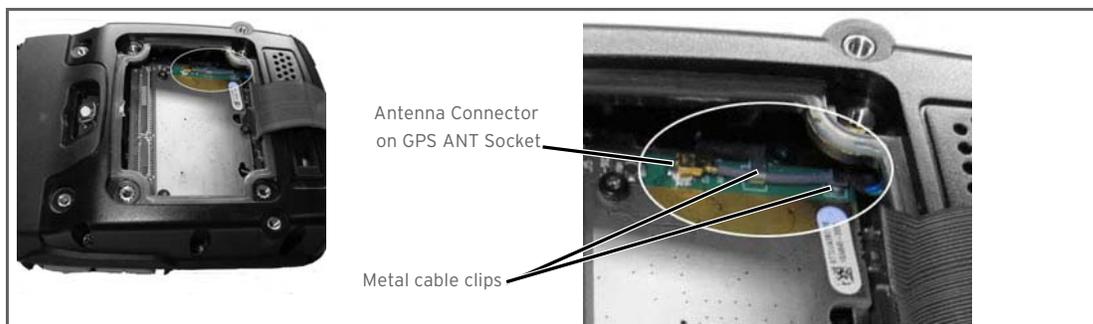
1. If a scanner/imager flex cable is present in the end-cap, install the cable in socket J13 on the main logic board as shown below. If no cable has previously been installed in this socket, there may be a piece of "dummy" stiffener material present in the socket, which must be removed before inserting the cable.



2. If a camera is installed in the back cover, repeat the instructions in the previous step to secure the camera flex cable in socket J9 of the main logic board.
3. Insert the pistol grip trigger/speaker wire harness in the beige socket on the left side of the main logic board.
4. Before reattaching the back cover, reconnect any other cables that may be present. Connect the pistol grip trigger/speaker wire harness to socket J11 on the main logic board. If a camera module is present, connect the camera flex cable to socket J9 on the main logic board.
5. Fit the back cover in place against the main housing, ensuring that no cables are caught in the seal. If the pod flex cable is installed, ensure that the free end can be accessed through the pod opening in the back cover.



6. Use a Torx T10 screwdriver to install and tighten the eight M3 x 6 mm screws that secure the back cover to the chassis. Torque the screws to 5 in-lb (0.56 N-m), in the sequence shown in **Figure 1** on the previous page.
7. Use a Torx T6 screwdriver to install the two M2 x 8 mm screws above the display on the front of the unit. Torque to 2.5 in-lb (0.28 N-m).
8. Through the scanner pod opening, use small needle-nose pliers to slide the antenna cable under the two metal clips on the edge of the GPS module.
9. Press the GPS antenna connector onto the *GPS ANT* socket on the GPS radio. Press down to snap it into place.



10. If you are reattaching a pod, connect the end of the pod flex cable to the pod.
11. Use a Torx T10 screwdriver to secure the pod or blanking plate to the back cover with four M3 x 5 mm screws.
12. Replace the battery.

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