OMNII™ HAND-HELD COMPUTER KEYBOARD AND KEYPAD INSTALLATION

1. Preparation

Before replacing your Omnii Hand-Held Computer keyboard, make sure you have the tools and the parts that correspond to the keyboard type that you are going to install. To set the software for keyboard Models ST5001 or ST5002, you will also need BooST script software, a USB flash drive, and a desktop docking station. The following lists the parts included in the keyboard kits. Keypads (the keyboard elastomer) can be ordered separately.

- Keyboard Bezel: The protective cover of the keyboard assembly, through which the elastomer keys and hard caps protrude.
- Keyboard Overlay: A thin mylar overlay with artwork that indicates the shifted functions of the keys. It is attached to the bezel with adhesive.
- Keyboard Elastomer: The flexible mold which forms the physical body of the keys and provides a tactile feel to the user.
- Keyboard PCB (printed circuit board): Contains the circuitry to detect key presses and transmit information to the MLB (main logic board) via the PRB (power routing board). The microphone is located at the top left of the keyboard PCB.
- Four fasteners (M2.5x5 screws).

*Note:* *If a new keyboard bezel or overlay is required, both parts must be replaced.*

Components Needed for Installation	Model Number
Keyboard Module Kit (contains the PCB, keyboard bezel, keyboard elastomer with hard caps, and overlay) or, Keypad (keyboard elastomer) only.	Based on kit required. See order sheet. Based on keypad required. See order sheet.
Keyboard Bezel Removal Tool	ST5999
T6 Torx screwdriver	N/A
Small Flathead screwdriver	N/A
Desktop Docking Station, or Snap Module (USB Host/Client variant)	ST4002 or ST4003 ST4001

2. Replacing the Keyboard

Warning: Always disconnect Omnii from any power source (battery and A/C power) before servicing any components.

Figure 1 Keyboard Assembly Parts
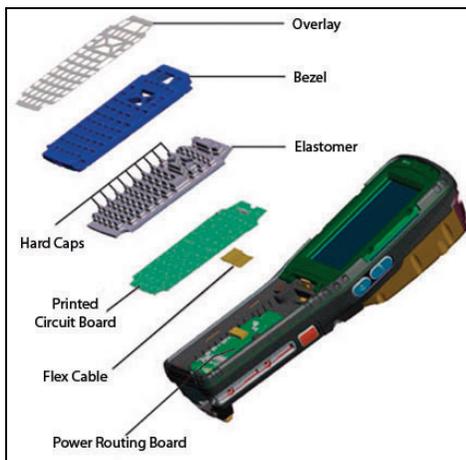
See Figure 2 for a pictorial of the main steps of these instructions.

1. Remove the four M2.5x5 Torx screws holding the keyboard bezel to the main unit.

2. Removing the bezel: There are six catches along the outline of the bezel that snap into the housing.
Put the end cap on the table. Insert the prongs of the keyboard bezel removal tool into the slots at the bottom of the keyboard bezel. Use the tool to clear the bottom catch by pulling the tool down towards the display. Then, in addition to the pulling motion, use a twisting motion towards one side to clear and pull the bezel side snap out of the housing. Once one side is out, you can wiggle the bezel to clear the snap on the opposite side and completely remove the bezel.

3. Pull up on the keyboard removal tool to lift the keyboard assembly out of the housing.

4. Remove the keyboard elastomer (avoid touching the contacts on the printed circuit board).

5. Gently lift the printed circuit board to expose the flex connector underneath.

6. Open the latch on the flex connector on the keyboard PCB (note that the latch flips up, it does not pull out) and remove the old keyboard flex cable, using a small flathead screwdriver if necessary.

7. Open the latch on the flex connector on the power routing board and remove the other end of the old keyboard flex cable.

8. Insert the end of the new keyboard flex cable labelled "PRB" into the flex connector port on the power routing board, with the exposed contacts facing down towards the board.

9. Close the connector latch to secure the cable in place.

10. Insert the other end of the new keyboard flex cable (labelled "KEYPAD") into the flex connector port on the back of the keyboard printed circuit board, with the exposed contacts facing towards the circuit board.

11. Close the connector latch to secure the cable in place.

12. Carefully fold the flex cable underneath the PCB and press the board into place on the main housing, using the two locating pins on the housing for alignment.

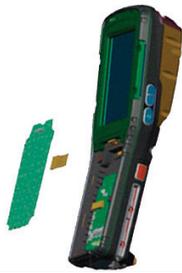13. Place the new keyboard elastomer over the PCB.

⚠️ *Important:* **The elastomer must be properly centered and sitting flat around the edges to ensure a proper IP seal when assembled.**

14. Place the keyboard bezel over the elastomer so that the hard caps protrude through the holes in the bezel, and press into place. Press firmly all the way around the bezel to ensure that all snaps fully engage into the housing. **Be sure there are no gaps between the keyboard bezel and the side of the terminal housing**.

15. Place the four M2.5X5 T6 screws on the bezel and torque them to 2.5 in.-lb (40 Oz-In or 0.28 Nm).

16. To set the Numeric keyboard type, connect the USB flash drive with the correct BooST script software to the docking station. Insert Omnii into the docking station and turn it on. The BooST script will automatically load.

📖 *Note:* *The installation of keyboard Model ST5001 or ST5002 requires that the BooSt script be installed for the respective keyboard to be properly detected. The BooST scripts can be found at:http://community.psionteklogix.com/downloads/default.aspx*

Figure 2 Keyboard Replacement Main Steps

Step 1 — Remove the Torx screws.
Step 2a
Step 2b — Removing the keyboard assembly.
Step 3
Step 4 — Keyboard elastomer removed.
Step 5 — Keyboard PCB and flex cable removed.
Step 13 — New keyboard elastomer positioned.
Steps 15/16 — New keyboard bezel secured.

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