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Installing the Workstation 5/5A Mini-PCI Wireless Kit

The Workstation 5 Mini-PCI Wireless Kit Revision C uses a 802.11 b/g wireless card from Abocom. Changes include a new WiFi antenna, and the addition of the Workstation 5A.

Two antenna options are provided. The Blue Diamond adhesive-backed antenna can provide excellent coverage in most situations. Optionally, you can install the included panel mount SMA connector, and supply an external antenna with mating SMA connector.
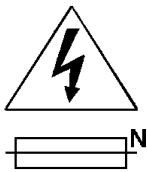
Platform Requirements

The Workstation 5 requires GR1.2 or later.

The Workstation 5A requires GR1.0 or later.

Open the Workstation

Refer to Figure 1.

⚠ 🗲 N	**CAUTION: SHOCK HAZARD - DOUBLE POLE/NEUTRAL FILTERING** A shock hazard exists when the cover is open and the AC power cord connected.

1. Remove all cables from the IO panel including the AC power cable.

2. Place a towel or soft cloth on your work surface to protect the touchscreen, then place the workstation face down.

3. Loosen the pair of captive screws that hold the top cover in place.

4. Return the unit to the normal operating position. Lift the front of the cover up and the back of the cover will release.

5. Remove the screw that fastens the LCD/Touchscreen assembly to the base.

6. Remove the LCD/Touchscreen and place it to the right side of the base.

7. Remove the LCD, Backlight and Touchscreen Interface Cables from the system board and place the LCD/Touchscreen assembly aside.
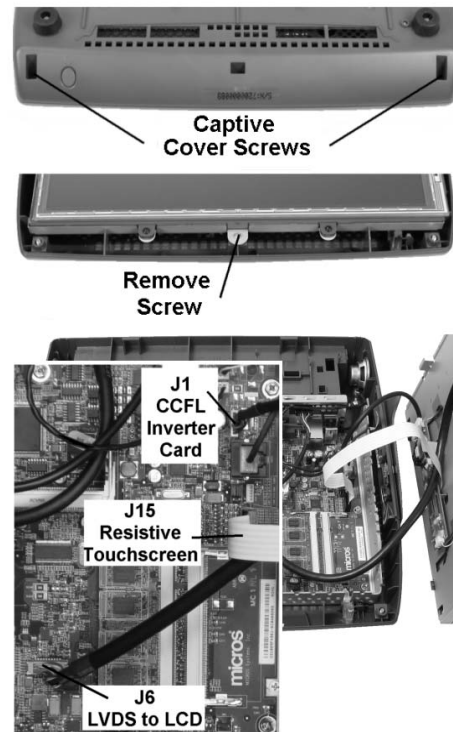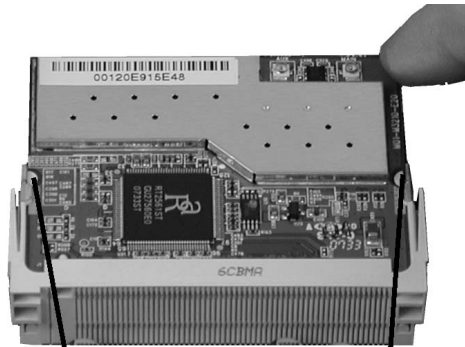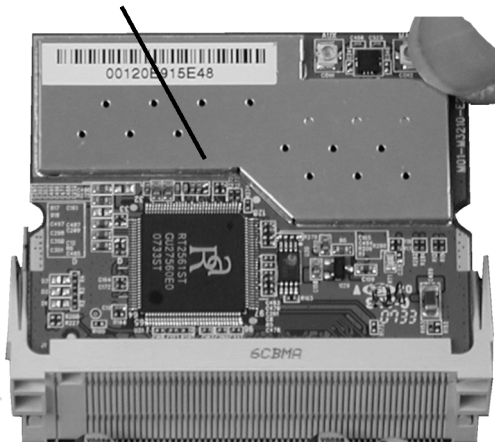

Figure 1: Removing the Cover

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Install the Wireless Card

8. Install the Abocom Mini-PCI Card. The socket is located near the center of the Workstation 5 or 5A system boards. Refer to Figure 2, below.

Figure 2: Installing the Mini-PCI Wireless Card

9. This step applies only to the Workstation 5 System Board. Install the enclosed 2-Pin header on J20, located to the right of the Mini-PCI Socket, near the LX800 Processor. See Figure 3, below. The Workstation 5A does not require a jumper change.
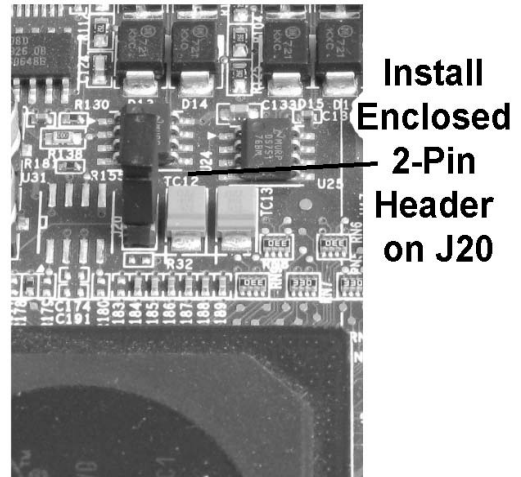

Figure 3: Installing Jumper J20 - WS5 Only

10. To install the Blue Diamond antenna, continue with Step 11 below. To install the panel mount SMA connector, see Step 13. Both antennas can be used.

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Antenna Placement

The kit includes one adhesive-backed Blue Diamond 2.4 GHz WiFi Antenna. Figure 4, below displays the recommended location for the antenna. examples of both horizontal and vertical.

Figure 4: Antenna Placement Recommendations

11. Remove the adhesive backing from the antenna and place in the location shown above.

12. For installations using a single antenna, always connect the lead to the wireless card 'Main' connector.

Be sure to route the antenna cable with the speaker cable so that stays below the chassis lip when the LCD/Touchscreen Assembly is reinstalled.

SMA Panel Mount Option

Using the SMA panel mount option requires a compatible antenna supplied by the user. It can be used in place of or in conjunction with the internal Blue Diamond antenna.

One example is connecting the SMA panel mount antenna to the 'MAIN' terminal and connecting the Blue Diamond antenna to the 'AUX' terminal to use the antenna diversity features of the card.

13. Insert the SMA connector into the 'ANT' cut-out in the IO Panel. The cut-out is in the same location on the Workstation 5 and 5A. Refer to Figure 5, below and install the lock washer and nut, then fasten securely.
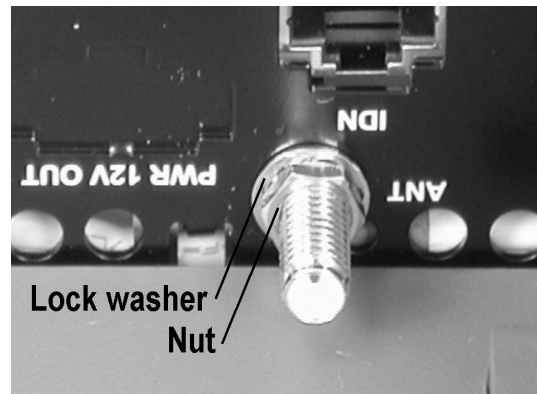Attach the user supplied antenna to the SMA connector.

Figure 5: Using the SMA Panel Mount

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Replace the Workstation Cover

To reassemble the workstation, reverse the steps performed to remove the cover while referring to Figure 1.

14. Install the LCD, Backlight, and Touchscreen Interface Cables as shown in Figure 1.

15. Install the LCD/Touchscreen Assembly in the base and fasten the single screw.

16. Check the gasket located in the cover to ensure it is seated properly then install the cover by attaching it to the rear of the base first. Place the unit face down and tighten the captive screws to secure the cover.

17. Re-cable the workstation as required and power-up.

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