

# INSTALLATION INSTRUCTIONS

## CPT Shielding Upgrade Kit

This kit will upgrade a CPT Controller to 0.1gph and 0.2gph leak detection and allow communication with a Prolink network.

The following terms are used throughout this document to bring attention to the presence of hazards of various risk levels, or to important information concerning use of the product.

### **Danger!!**

Indicates the presence of a hazard that **will** cause **severe** personal injury, death, or substantial property damage **if ignored**.

### **Warning!**

Indicates the presence of a hazard that **can** cause **severe** personal injury, death, or substantial property damage **if ignored**.

### **Caution**

Indicates the presence of a hazard that **will** or **can** cause **minor** personal injury or property damage **if ignored**.

### **Notice**

Indicates special instructions on installation, operation, or maintenance that are important but not related to personal injury hazards.

## Shield Installation

1. Disconnect AC power from the CPT Controller at the electrical service panel.

### **Warning!**

**Voltage stored in the capacitor bank of the CPT Controller presents a risk of POTENTIALLY LETHAL ELECTRICAL SHOCK EVEN AFTER THE POWER IS DISCONNECTED. After disconnecting the power, wait 5 minutes. Verify that the red Capacitor Charge LED on the Inverter board has gone out, before servicing or removing the controller.**

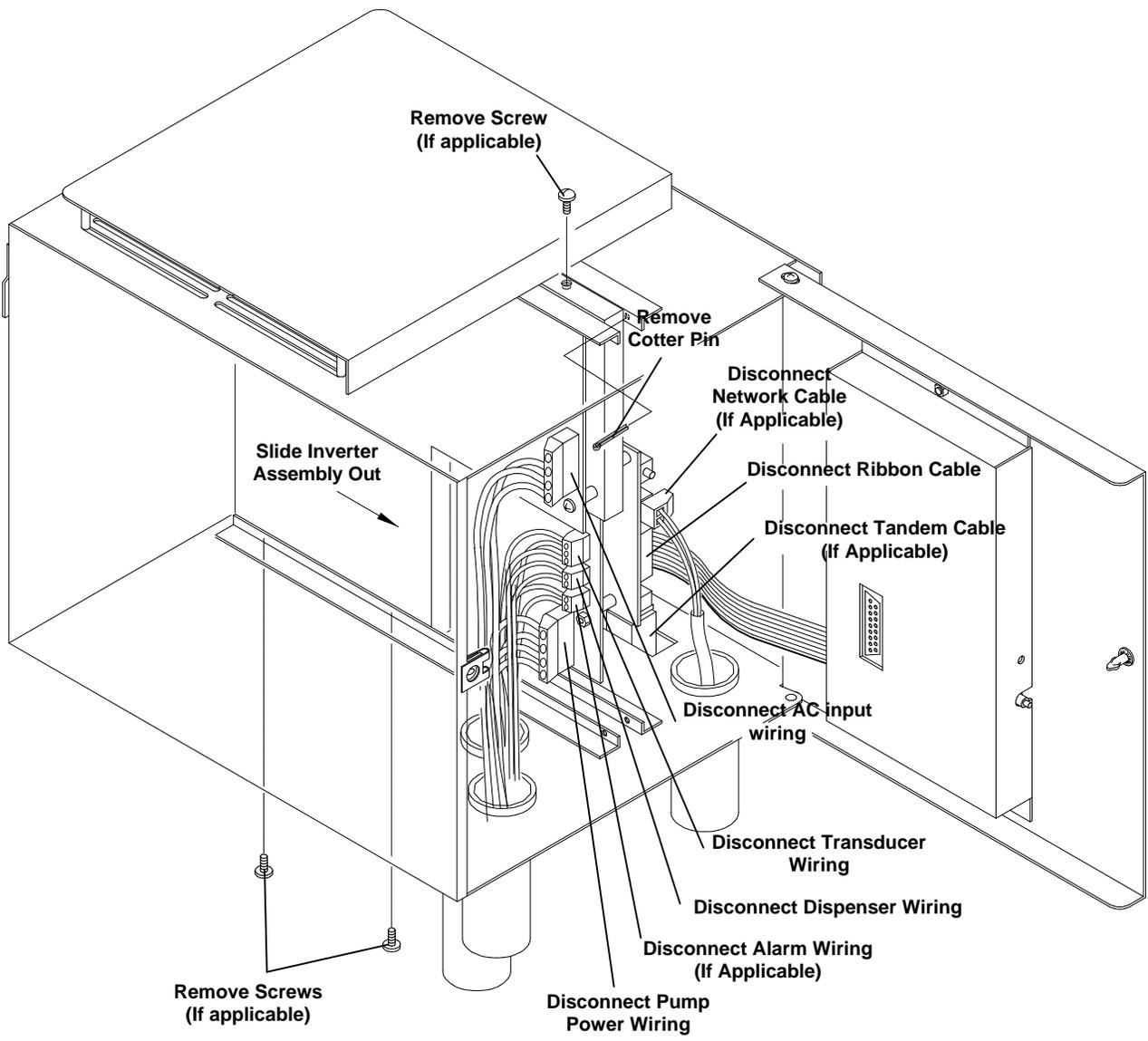
2. *Record the location of each wire before disconnecting.* Incorrect wiring can cause catastrophic failure of the inverter board. Disconnect the AC input lines. Disconnect dispenser, transducer, pump, and alarm wiring (if applicable).
3. Disconnect the ribbon cables from connector J5. (Refer to *figure 1*) Disconnect the network cable from connector J3 (if applicable).
4. Disconnect the tandem cable from the RS232 serial port (if applicable). Record pressure setting of rotary dial and the DIP switch settings of S1. (Refer to *figure 2*)
5. Remove mounting screws and cotter pin. Remove the CPT Controller inverter board assembly from the enclosure.
6. Disconnect the large ribbon cable from connector J2. (Refer to *figure 2*) Remove the old MPU board from the inverter assembly.
7. Remove (4) original steel standoffs from inverter board. When removing the standoffs, make sure not to lose the #6 hex nut and #6 lock washer for the lower left hand mounting hole.
8. Mount (4) ¼" Hex x 1.00" nylon standoffs to inverter board. When installing these nylon standoffs, be careful not to overtighten.
9. Make sure that the large ribbon cable is still **firmly** connected to the inverter board connector.
10. Mount the CPT MPU board shield to the (4) nylon standoffs (Refer to *figure 3*) with the (4) male ¼"hex x 1/8" standoffs.
11. Mount the CPT MPU board to the (4) 1/8" standoffs with (4) 6-32 hex nuts and (4) #6 lock washers. (Refer to *figure 4*)
12. Reconnect the large ribbon cable to connector J2. (Refer to *figure 5*)

### **Caution**

**Make sure that the large ribbon cable from connector J2 to the inverter board is FIRMLY connected. If this is not done, inverter board failure may occur.**

13. Set DIP switch S1 to the original settings. Set the rotary dial to the original pressure setting. (Refer to *figure 4*)
9. Install the cable clip to the front left hood mounting screw. (Refer to *figure 6*)
10. Replace the inverter assembly in the CPT Controller enclosure. Reinstall all mounting screws and cotter pin.
11. Reconnect network cable to connector J3 (if necessary) and reconnect the tandem serial cable (if necessary).
12. Reconnect the AC input and dispenser signal wiring by routing through the left front conduit, up through the clip and down to the proper connectors. (Refer to *figure 6*)
13. Route the pump wiring and transducer cable through the right rear conduit and reconnect to the proper terminals.
14. Recheck all wiring connections against the record of the original connections **BEFORE** applying power to the CPT Controller.
15. Install one of the enclosed neuron ID labels over the old label on the heat sink. The second label is a duplicate to be used if the first label is damaged or lost.

**Installation Drawings:**



**Figure 1** Disconnecting and removing the inverter assembly

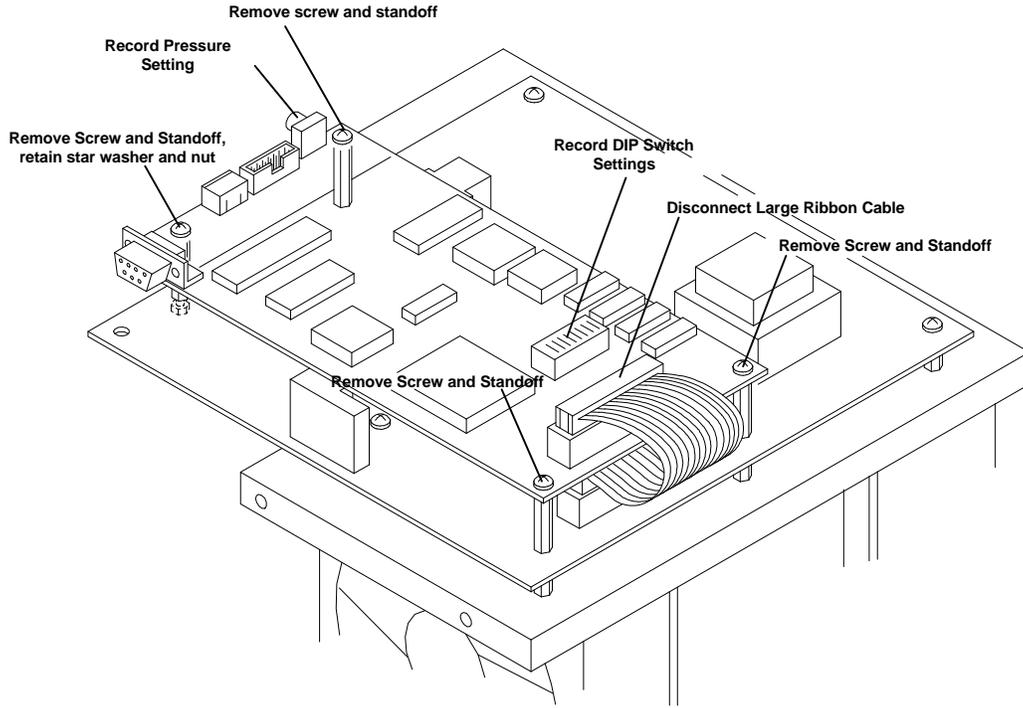


Figure 2 Removing the old MPU board

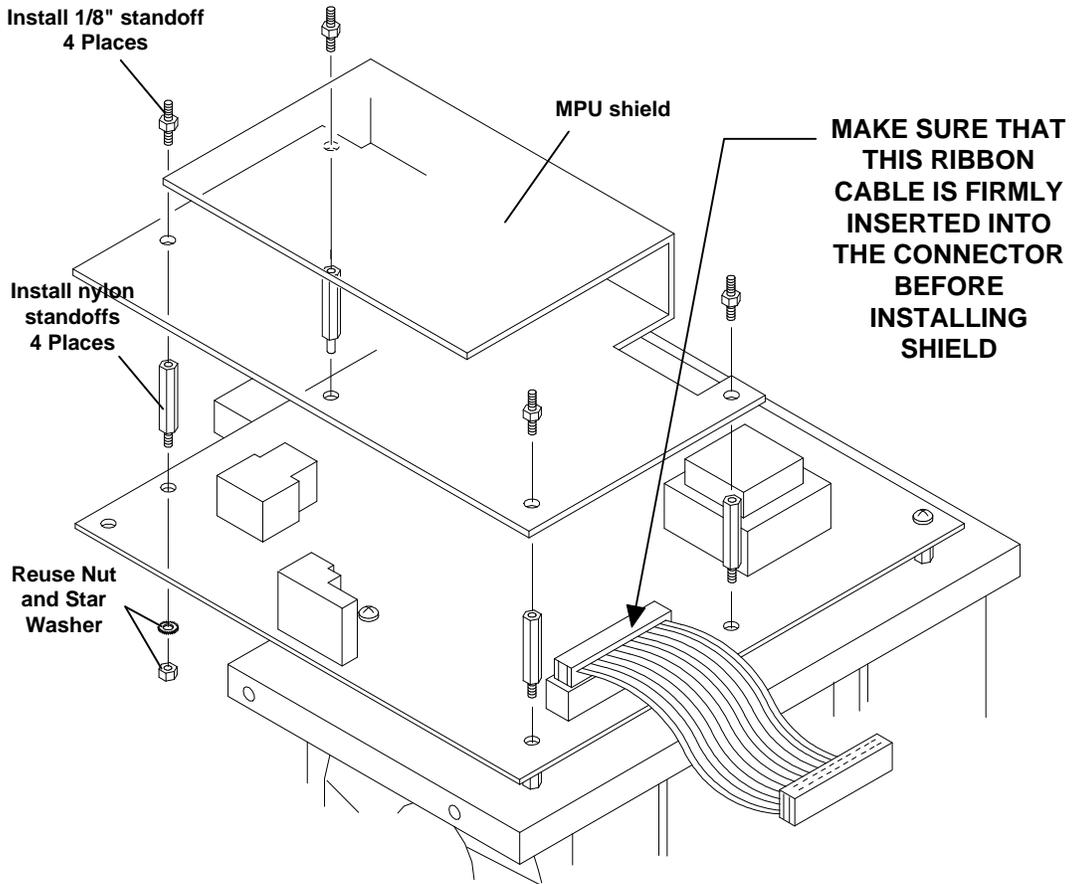


Figure 3 Installing the nylon standoffs and shield

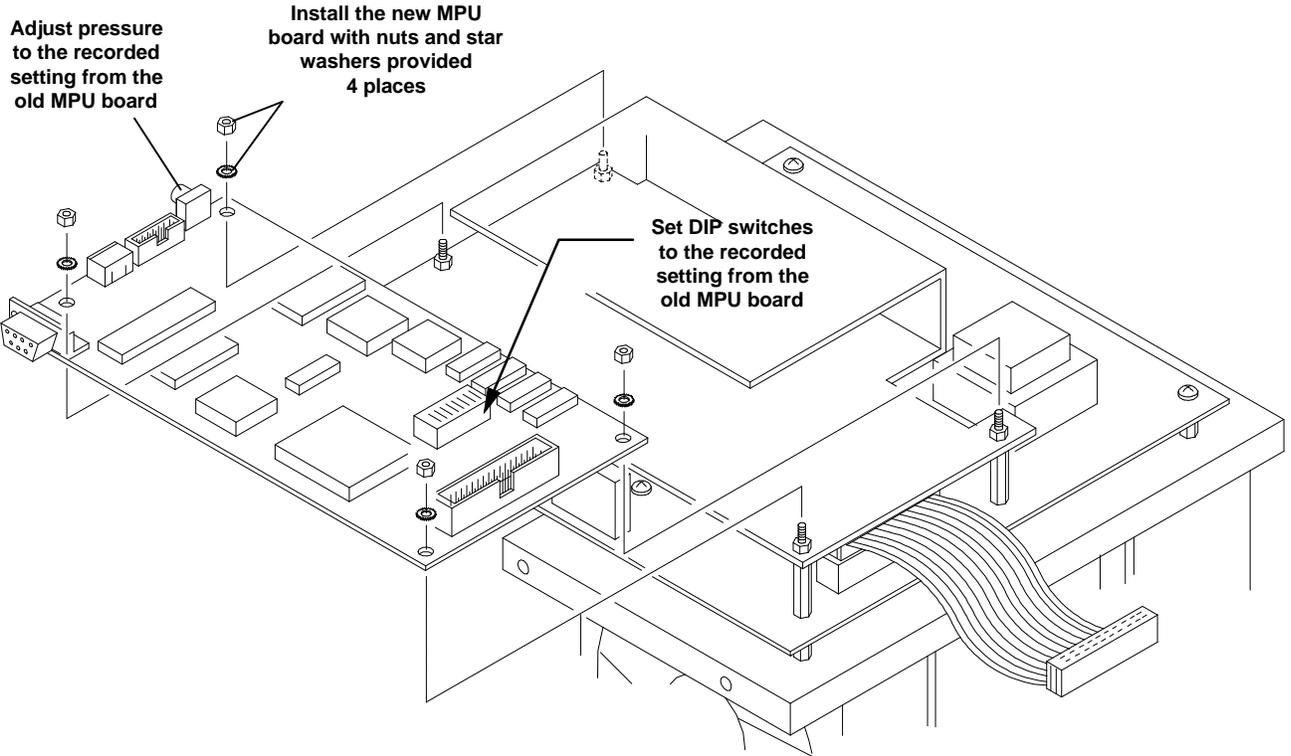


Figure 4 Installing the MPU board

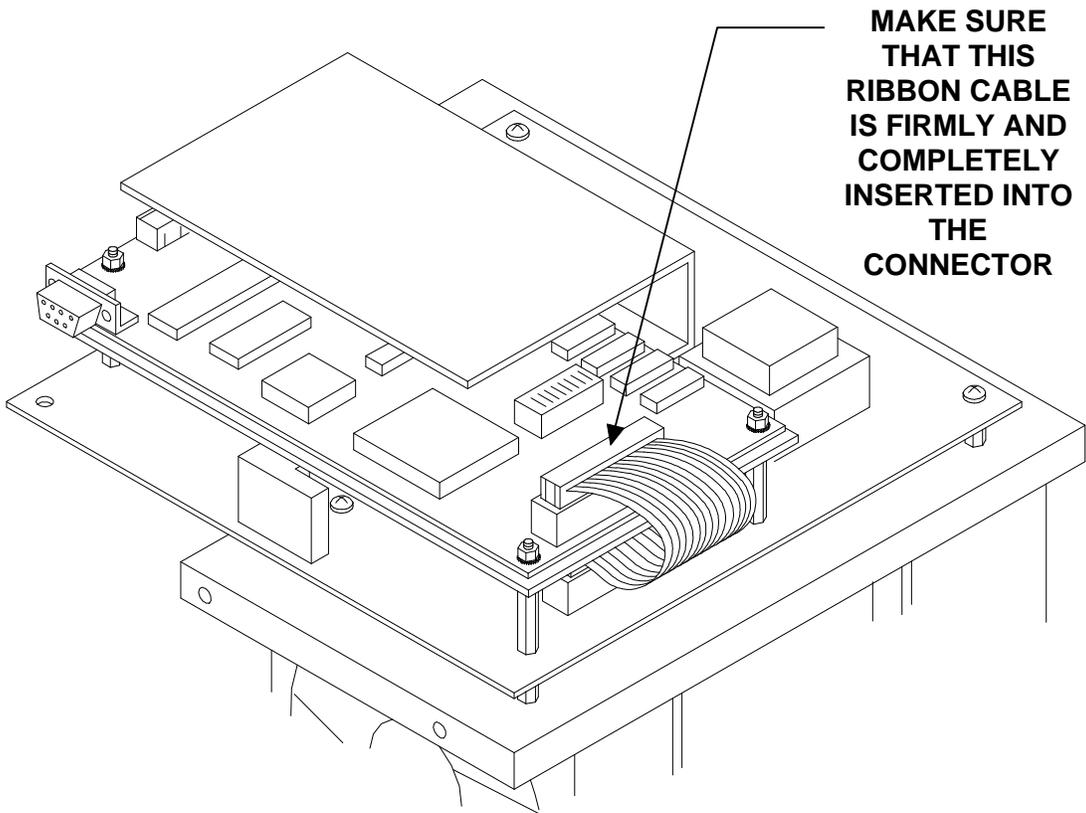


Figure 5 Ribbon Cable Connections

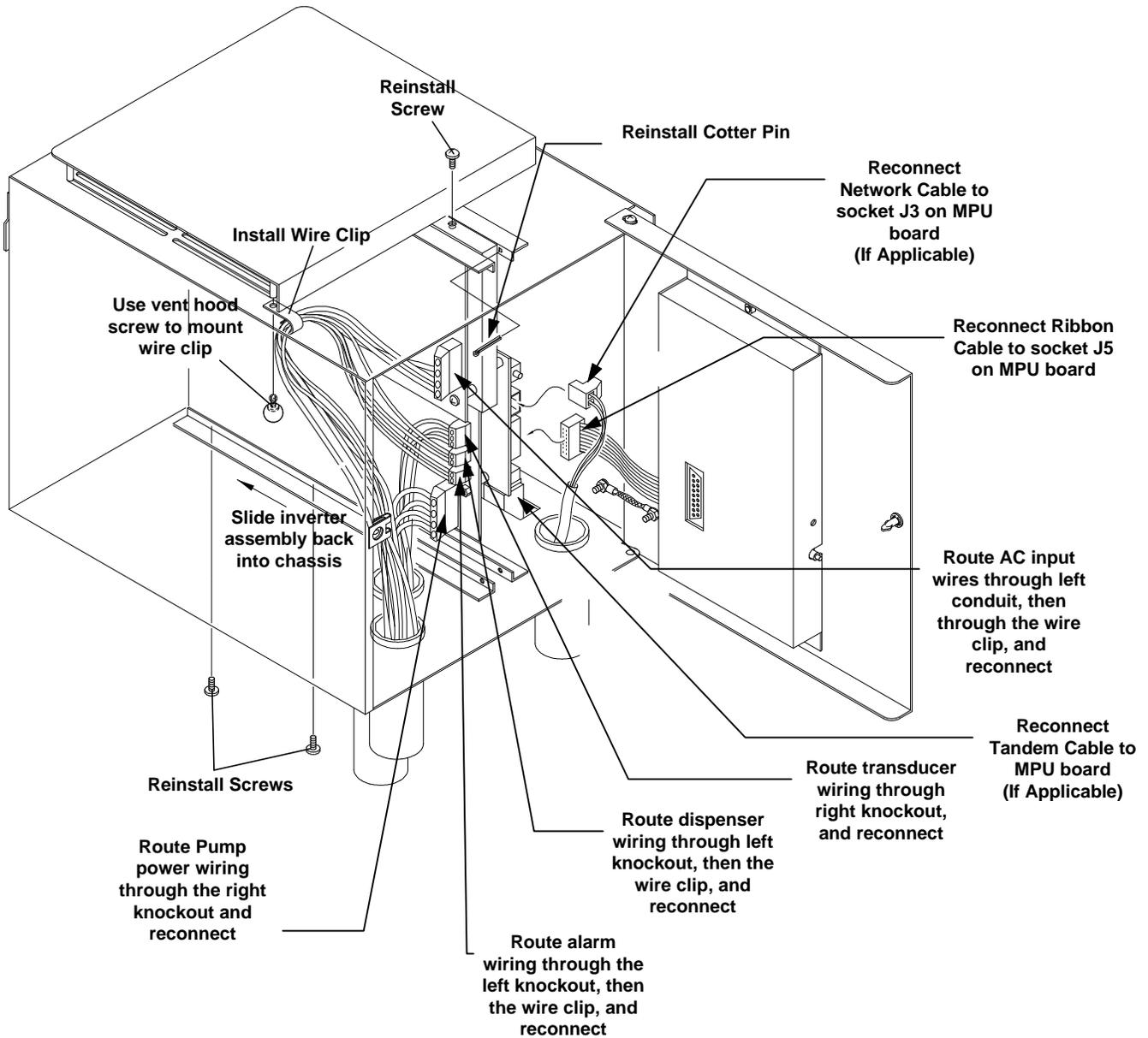


Figure 6 Reinstalling and reconnecting the Inverter Assembly



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