



INSTALLATION INSTRUCTIONS

ST Controller SIB and I/S Shield

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.

The following procedures should be followed when installing or upgrading a SIB.

1. Lock out and tag out AC power and pump control power (01L models) from the ST Controller.
2. Open top cover and remove lower cover from the ST Controller.
3. Loosen the retaining screws and remove the two intrinsic safety shields. Refer to *figure 1*.

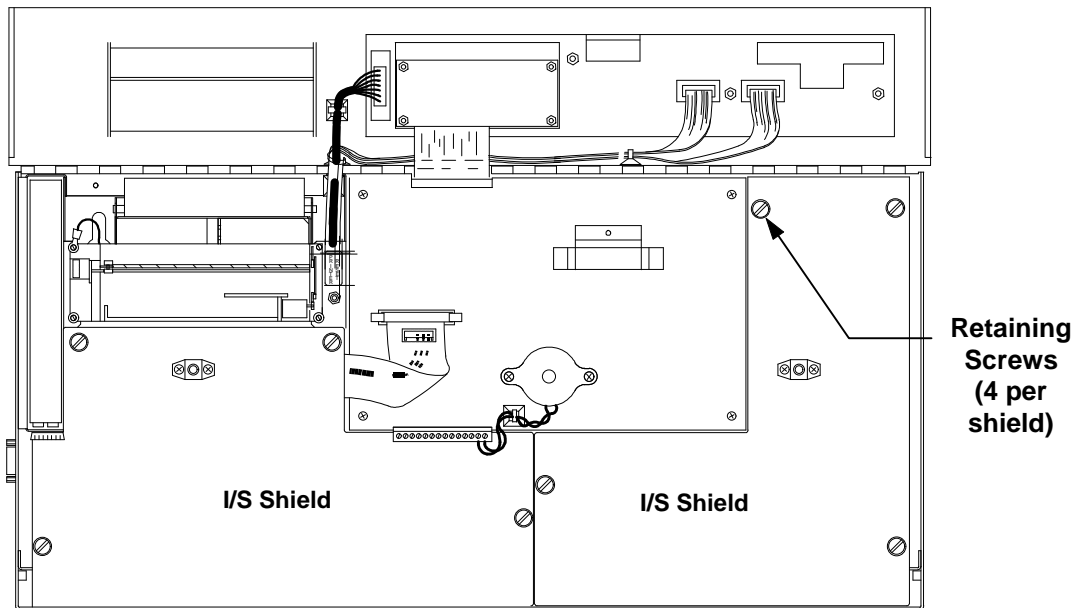


Figure 1 I/S Shield Removal

4. Disconnect the piezo alarm wires from the CPU phoenix connector and unplug the connector. Disconnect the CPU ribbon cable, CPU/Printer connector, and the ground wire to the inventory sensor bus. Refer to *figure 2*.
5. Remove the four mounting screws and the sandwich board set cover from the ST Controller. Remove the display ribbon cable connector from the sandwich board set.

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1-800-777-2480

RE260-309 Rev A 6/98

Red Jacket/Marley Pump reserves the right to make design improvements and pricing modifications as necessary and without notice Contact Red Jacket for information relevant to the operation of Red Jacket Equipment with equipment from other manufacturers.

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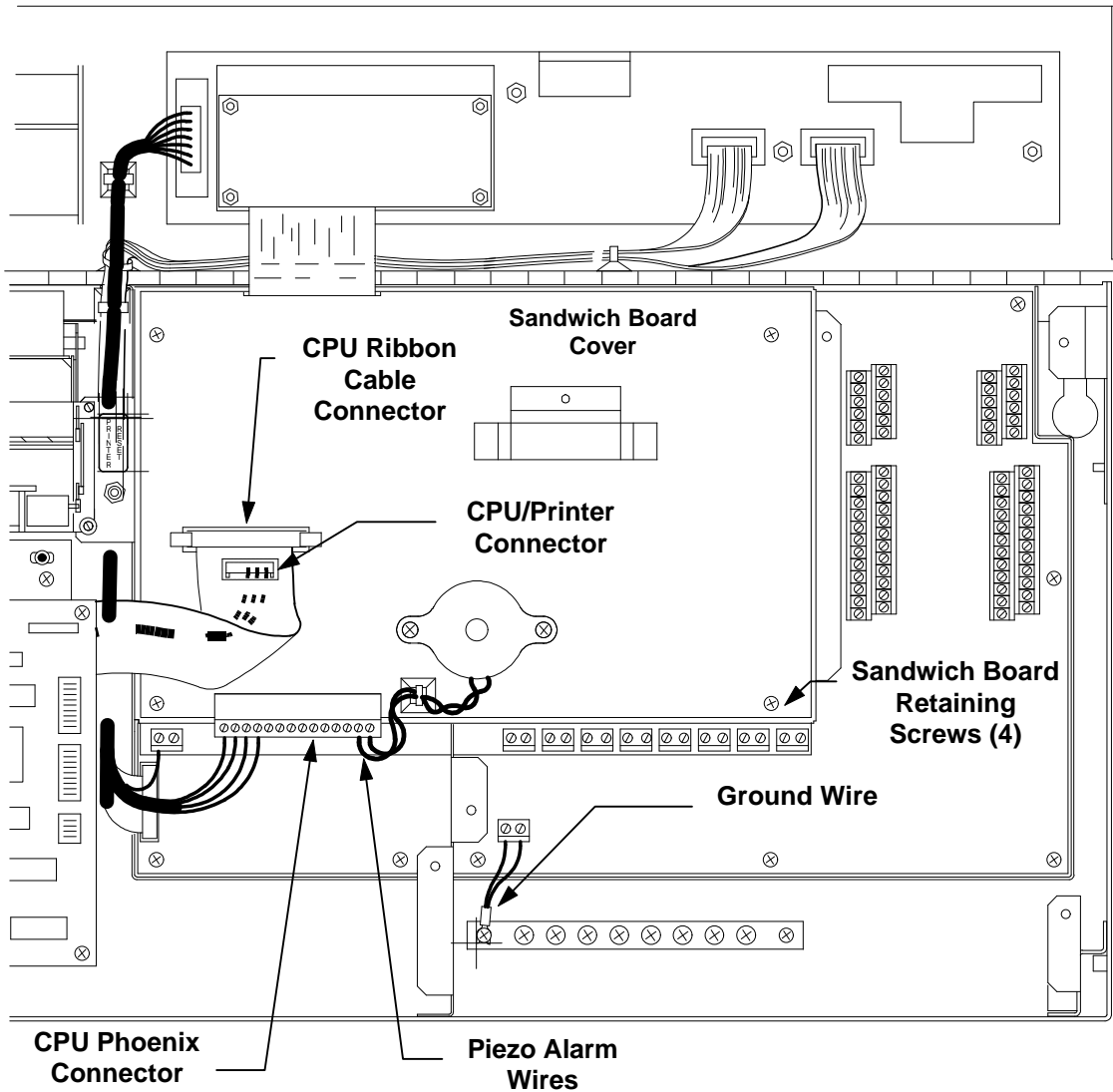


Figure 2 Sandwich Board Set Removal

6. Remove all sensor wiring, pump control wiring, and all connectors from the SIB. Record the DIP switch settings.
7. Remove the remaining two retaining screws and remove the sandwich board set.
1. Remove the remaining screws that hold the SIB and SIB I/S shield in place and remove the I/S shield together with the SIB. Refer to *figure 3*.

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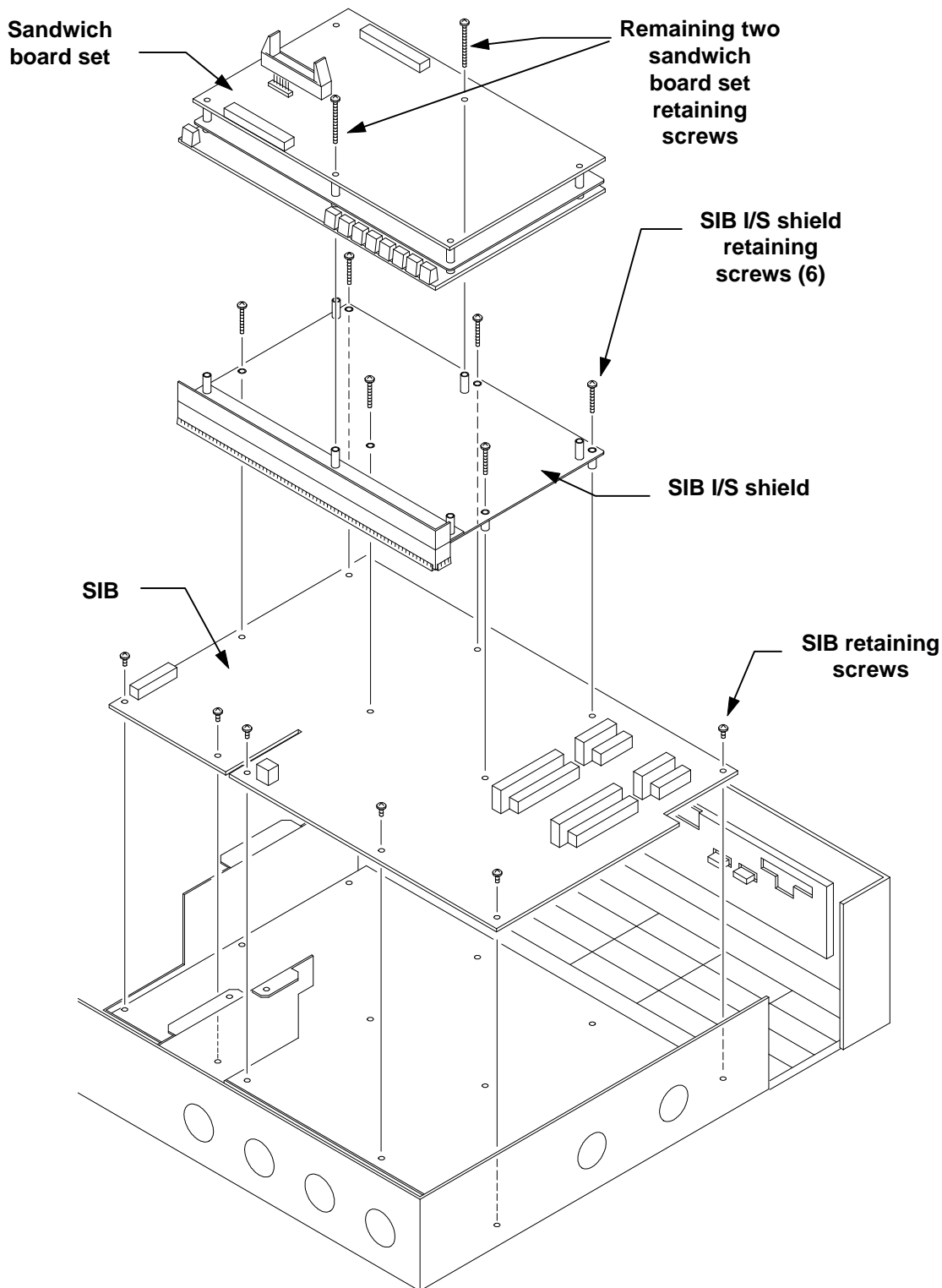


Figure 3 SIB and Sandwich Board Removal

9. To install software in the replacement SIB, locate the SIB software chip on the circuit board. The SIB software chip is the 28 pin socketed chip with a white label on top. It is located in the top left hand section of the board. Refer to *figure 4*.

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10. Note the position of the "notch" on the chip. It points toward the outer edge of the SIB.
11. Use a chip puller to remove the chip from the socket. Remember to lift the chip directly out of the socket. Pull equally on both ends of the chip until it come free.

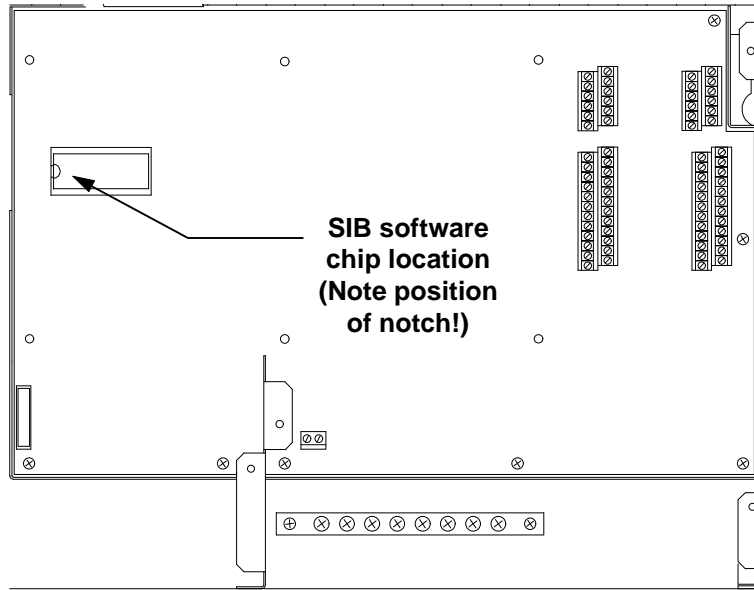


Figure 4 SIB Software Chip Removal and Replacement

12. Remove the new software chip from the anti-static sleeve.
13. Install the new software chip into the socket. Take care not to bend any of the pins. The "notch" on the software chip points toward the outer edge of the SIB.

Notice

Inspect the software chip after it has been installed to make sure that the pins were not bent during installation. Make sure that the "notch" on the chip is pointing toward the outer edge of the SIB.

14. Cut a 9" piece and a ½" piece of the supplied grommet material and install them on the underside edge of the SIB I/S shield. **Make sure that this is the edge that contacts the SIB.** Refer to figure 5.

Warning!

It is **EXTREMELY IMPORTANT** that both pieces of grommet material are installed to prevent the possibility of shorting the dispenser AC input lines and the AC pump control output lines. If these grommets are not installed, the SIB itself can be damaged or destroyed.

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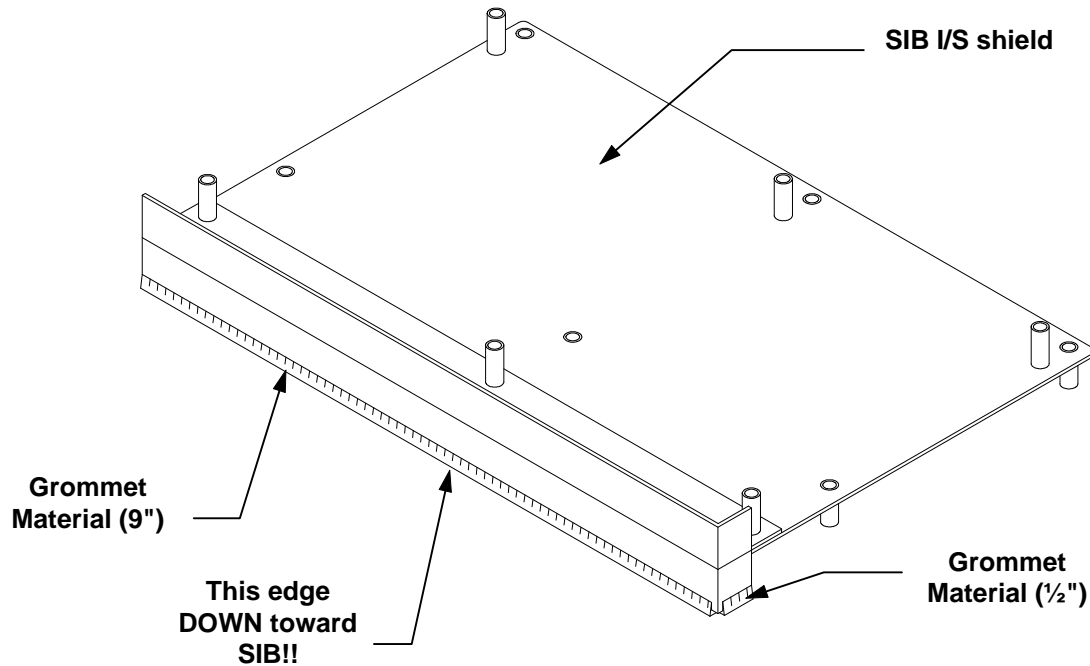


Figure 5 Location of Grommet Material on the SIB I/S Barrier

15. Install the SIB and the I/S shield, making sure that the edge of the I/S shield with the grommet material is toward the SIB.
16. Reconnect all sensor wiring, pump control wiring (01L models), and connectors to the SIB. Set the DIP switch settings to match the records made in Step 6. (If necessary)
17. If this is a SIB upgrade or new peripheral sensors are being installed, connect them now and set the appropriate DIP switches. Refer to individual sensor installation sheet or the ST Controller Installation manual for specific instructions.
18. Reinstall the sandwich board set and reconnect all connectors and wires.
19. Replace lower cover and close upper cover.
20. Reconnect AC power and pump control power (01L models) to the ST Controller.
10. Program the ST Controller (Refer to the ST Controller Installation and Programming Manual) and verify that all functions are operating properly.

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