
**Daughter Board Addition
Procedure for ASX-510**

DAUGHTER BOARD ADDITION PROCEDURE FOR ASX-510

NOTE:

MAKE SURE THE UNIT IS UNPLUGGED AND IN THE "OFF" POSITION BEFORE BEGINNING THIS PROCEDURE.

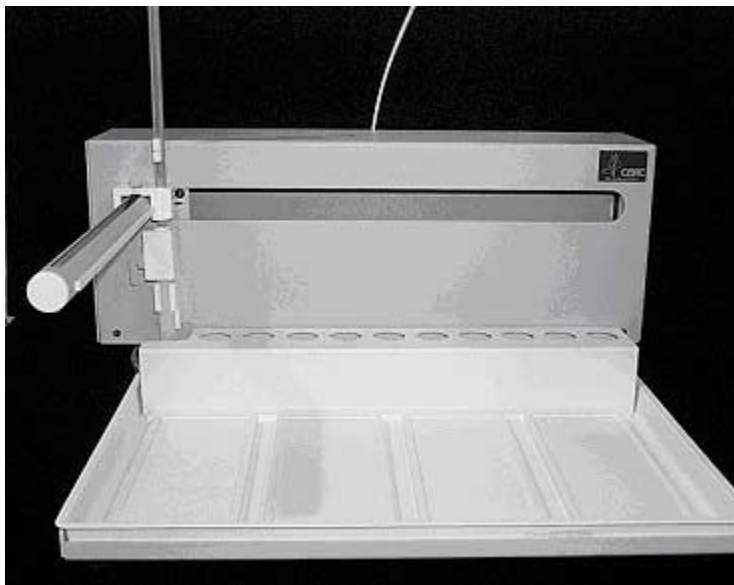


Figure 1-1. Front view of ASX-510.

1. First, remove the two Kynar thumbscrews from the Y-axis home block. See Figure 1-2.

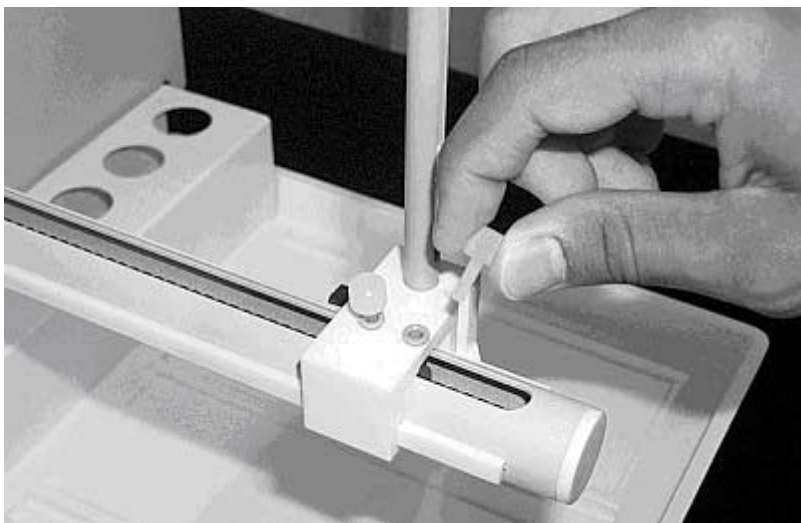


Figure 1-2. View of Y- axis home block with Kynar thumbscrews.

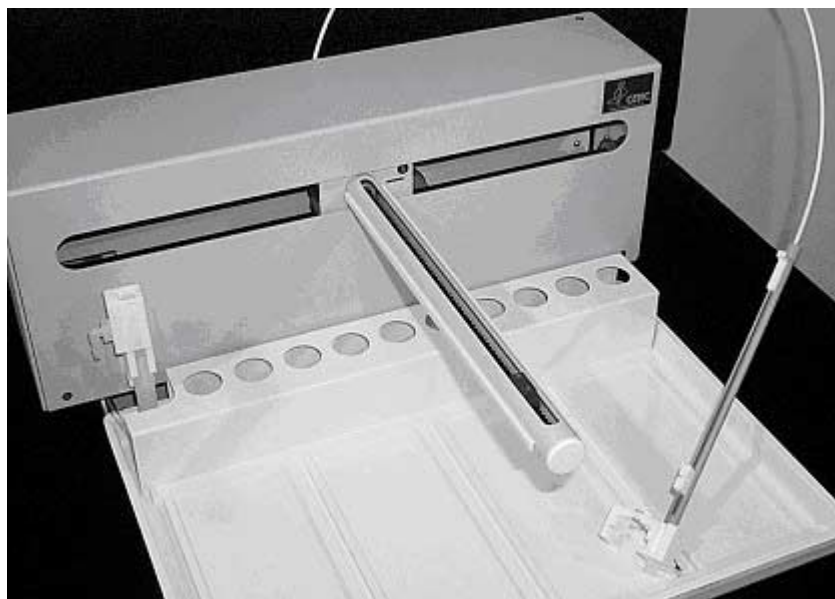


Figure 1-3. Z-drive removed from arm assembly.

2. Next, remove the whole Z-drive assembly from the arm by pulling the whole Z-drive assembly forward and off the Auto-Sampler arm. See Figure 1-3.
3. After the Z-drive assembly is removed, then remove the rinse station. See Figure 1-4. Turn the rinse station $\frac{1}{4}$ turn counter-clockwise while pulling up. Also, the tubing located at the bottom of rinse station will have to be removed or moved aside. See Figure 1-5.

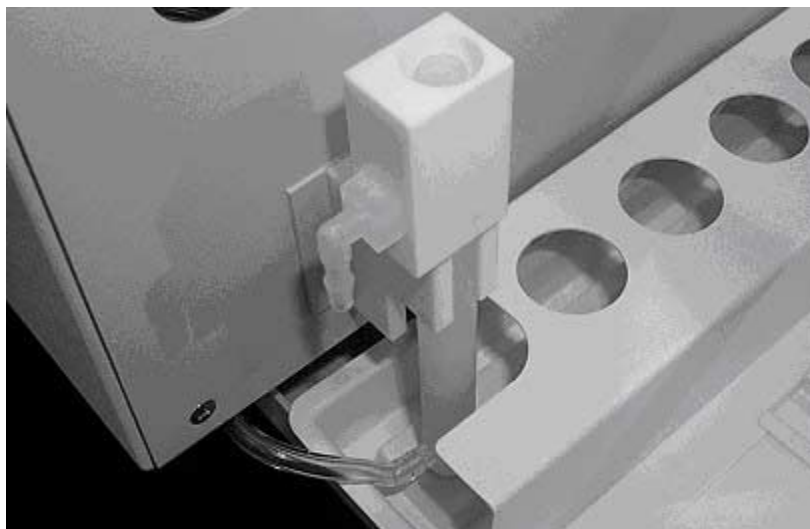


Figure 1-4. View of rinse station.

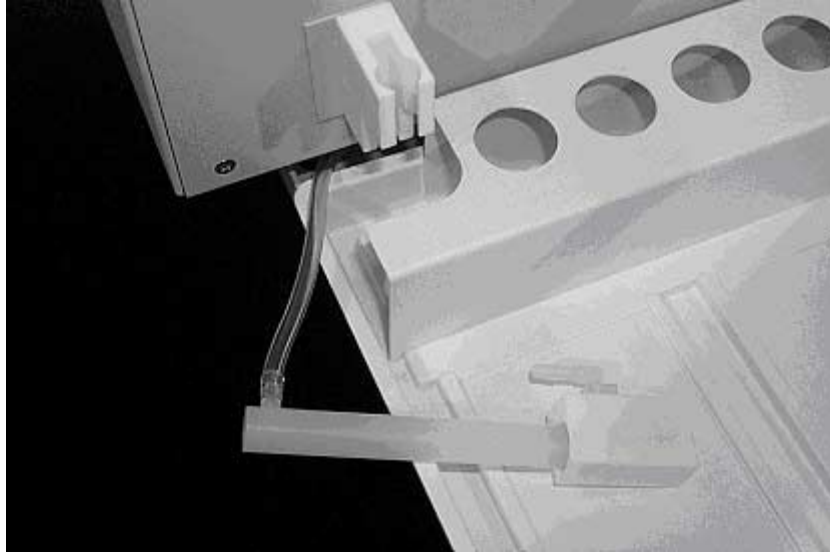


Figure 1-5. View of rinse station removed from the front cover.

4. The auto sampler tray is the next to be removed. Lift up the tray and pull out. See Figure 1-6.

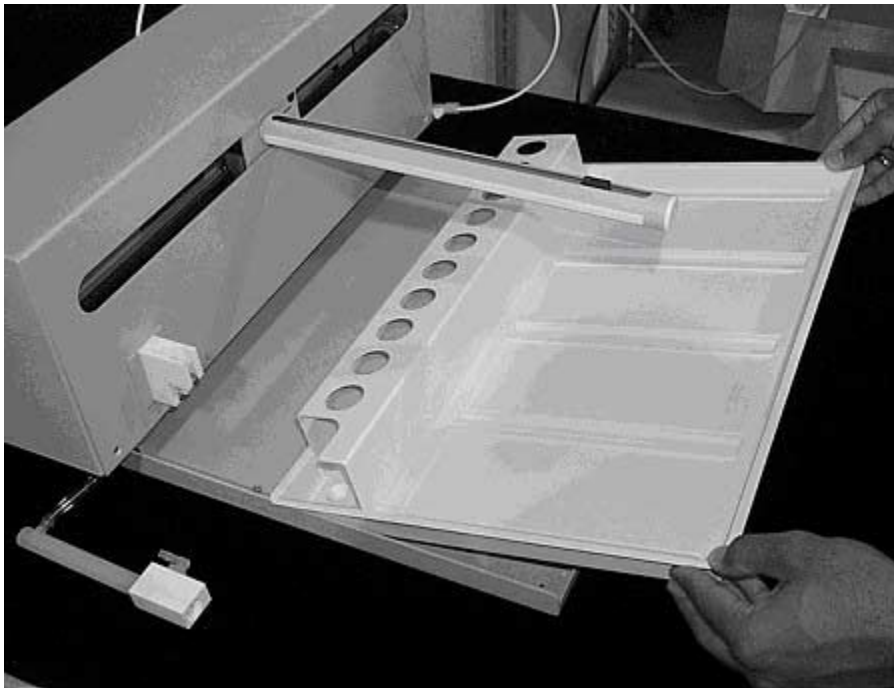


Figure 1-6. Removing the tray.

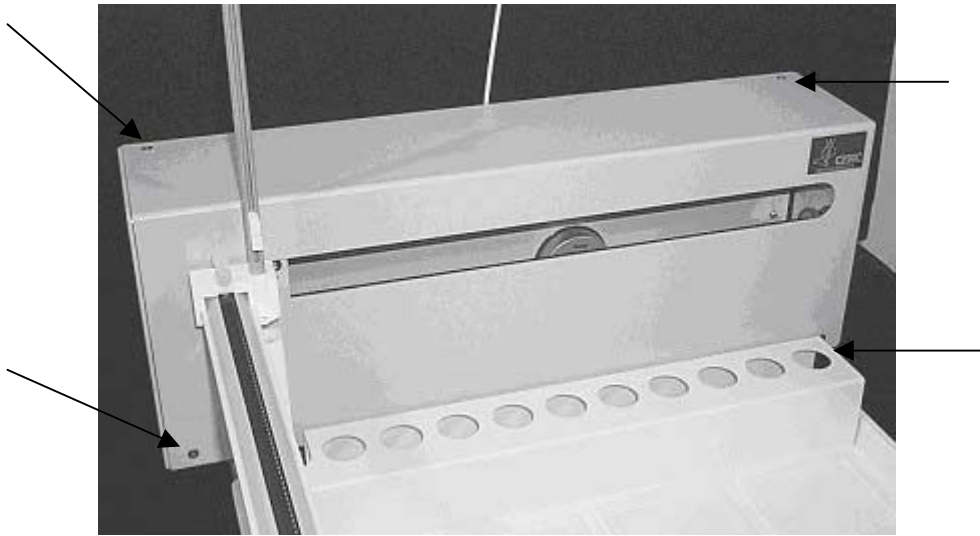


Figure 1-7. Front view of ASX-510 Auto-Sampler showing front cover screws.

5. Next, the front cover needs to be removed. Remove the four corner screws shown in Figure 1-7.
6. The front cover can be removed by lifting it slightly and pulling forward. See Figure 1-8.

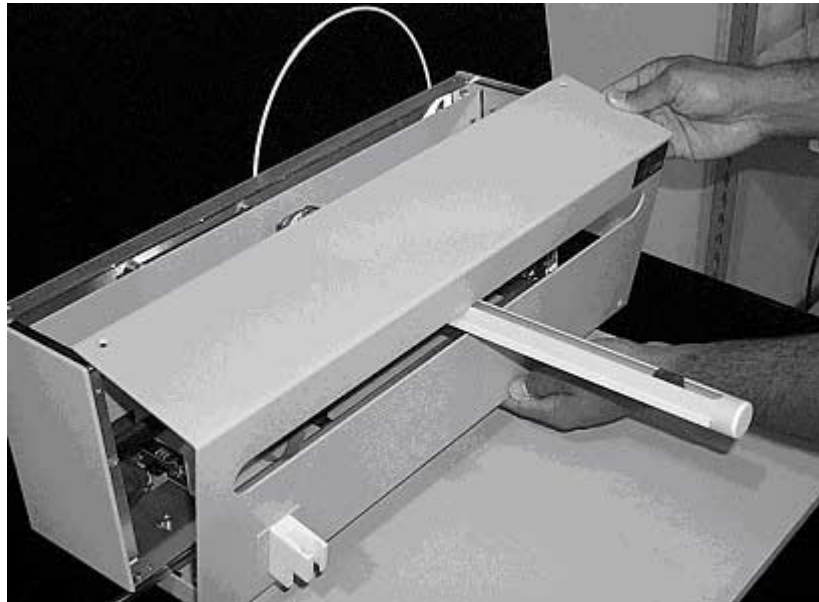


Figure 1-8. View of ASX-510 Auto-Sampler with the front cover being removed.

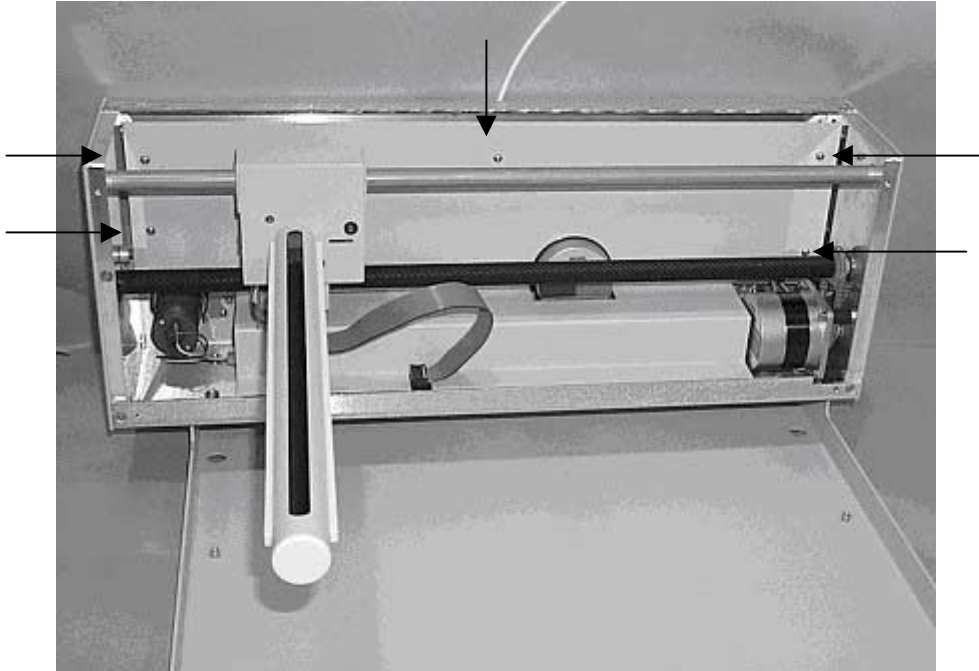


Figure 1-9. View of inner shield inside the ASX-510.

7. The five screws that hold the inner shield will have to be removed. Move the Y-axis assembly all the way to the left. See Figure 1-9.
8. The inner shield can be removed by lifting it up while pulling forward. See Figure 1-10.

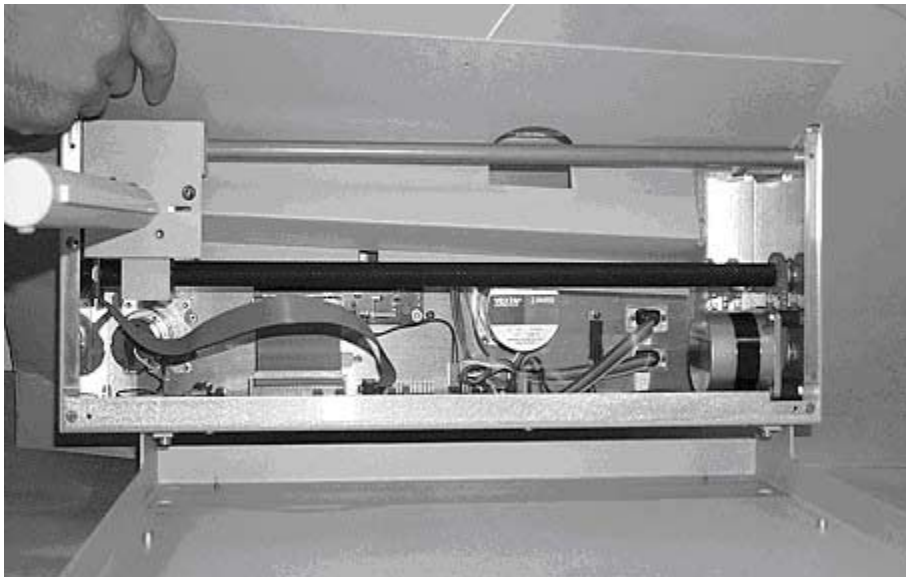


Figure 1-10. Removal of inner shield.

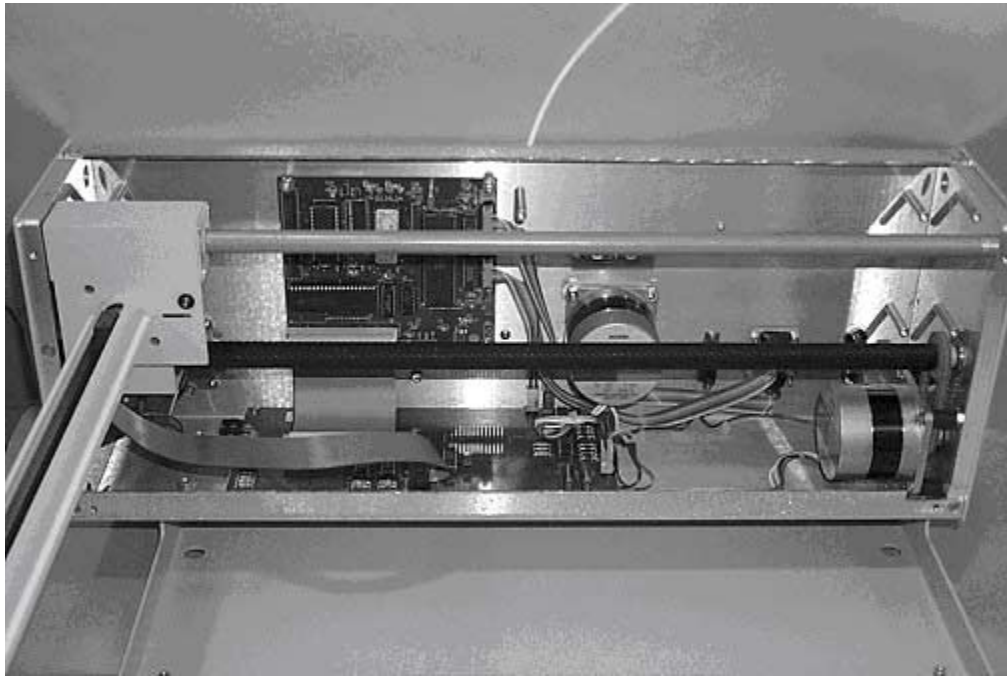


Figure 1-11. View of ASX-510 with inner shield removed.

9. The circuit boards are now accessible. Remove both ribbon cables. The front two screws will also need to be removed. See Figure 1-12.

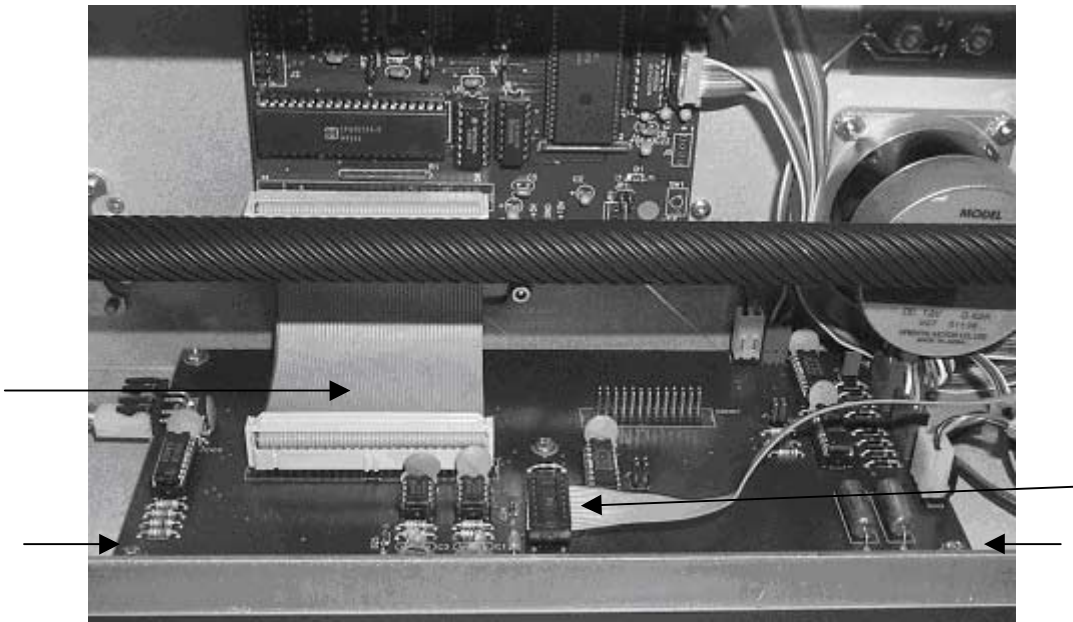


Figure 1-12. View of ASX-510 showing CPU boards.

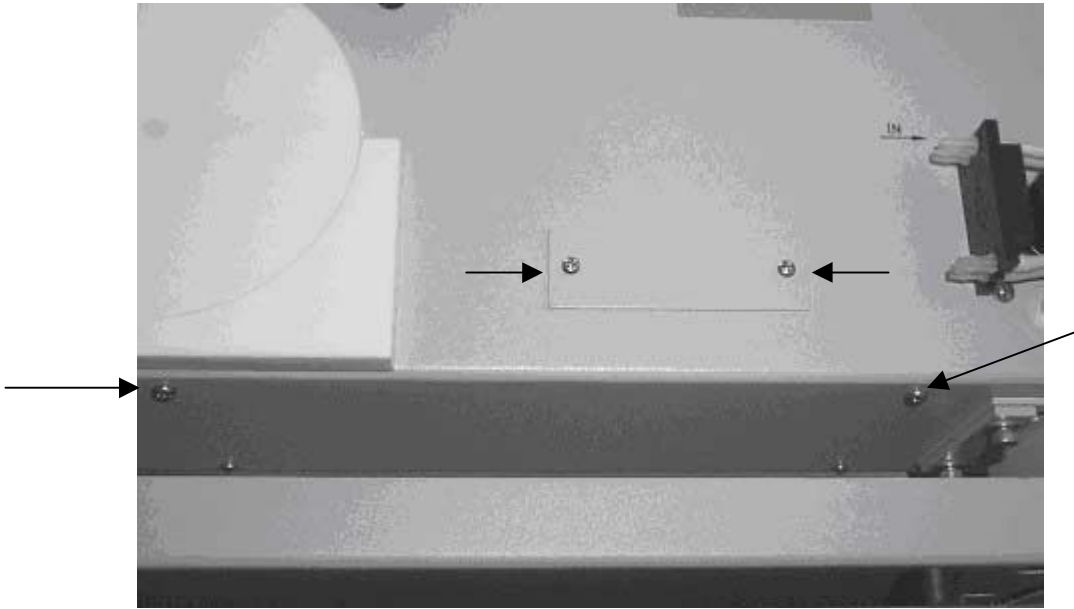


Figure 1-13. Bottom rear view of the ASX-510.

10. Remove the back two screws that attach to the bottom of the I/O board. Also, remove the two screws holding the back spacer panel. See Figure 1-13.
11. The I/O board can now be removed. See Figure 1-14.

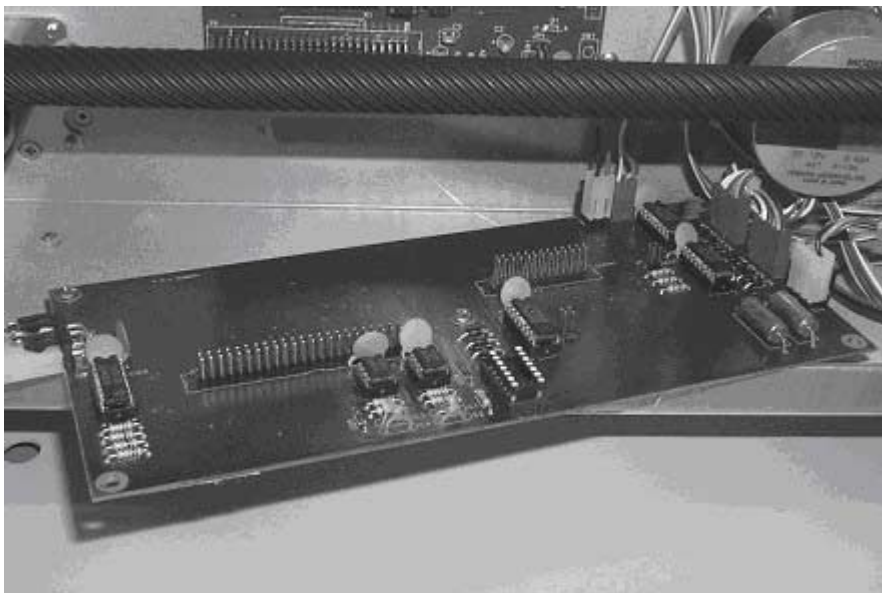


Figure 1-14. View of I/O board being removed.

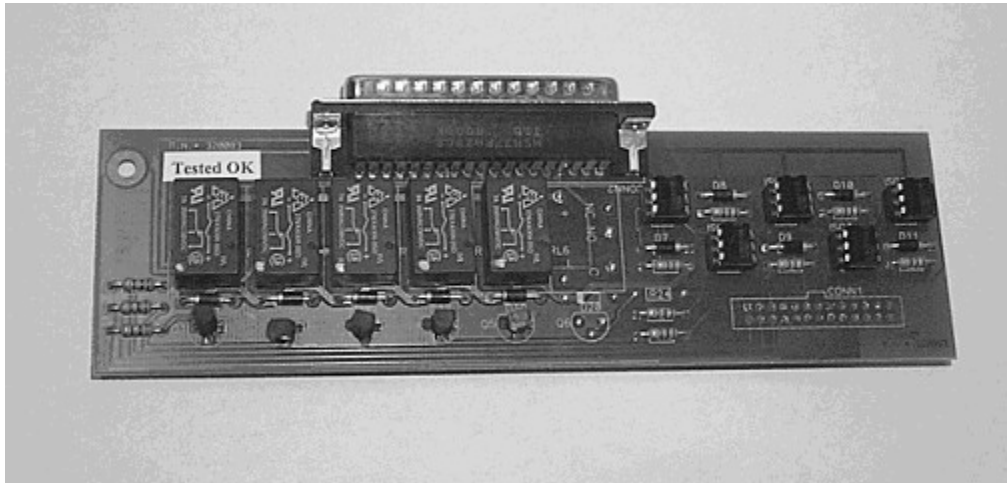


Figure 1-15. View of Daughter board.

12. Attach the daughter board to the top of the I/O board. See Figure 1-16.

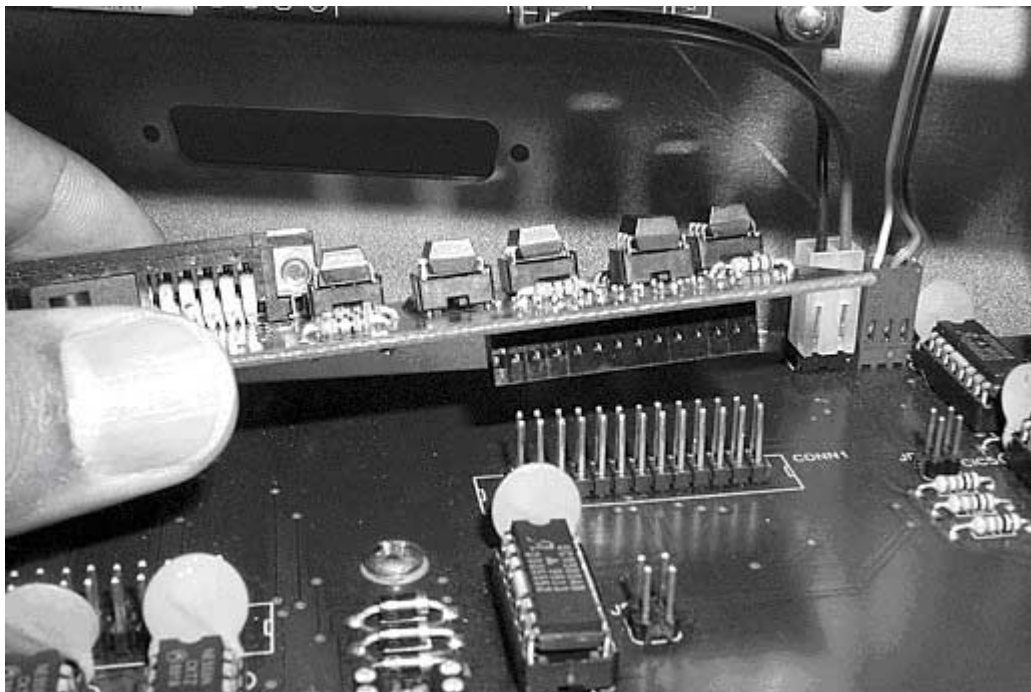


Figure 1-16. View of Daughter board attaching to the I/O board.

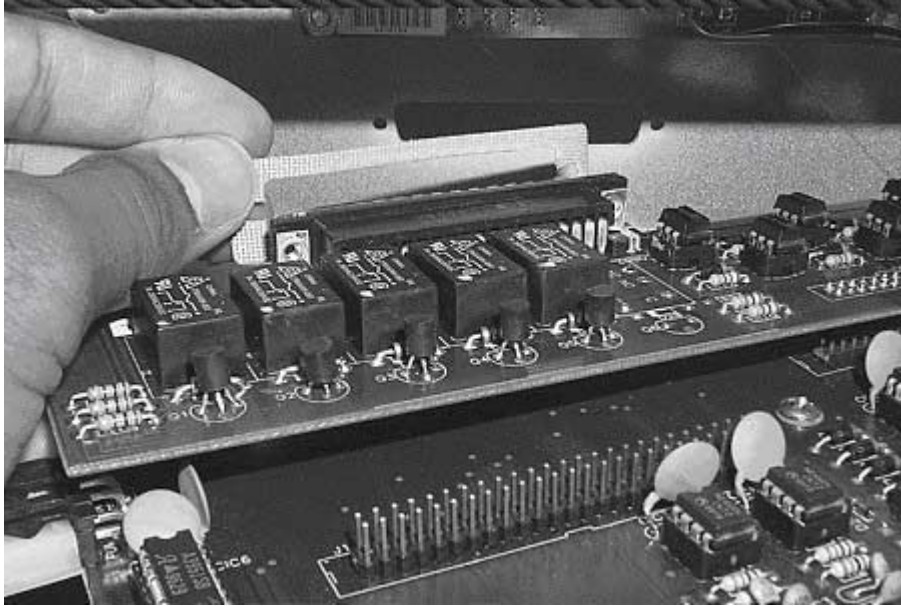


Figure 1-17. View of EMI gasket attaching to the Daughter board.

13. Put the EMI gasket on before inserting the Daughter board through the back panel. See Figure 1-17.
14. Tighten the two screws that hold the connector to the back panel. See Figure 1-18.
15. Attach both ribbon cables, the two bottom screws that hold the I/O board from the rear and the two top screws that hold the front of the I/O board.
16. To assemble the rest of the unit, replace the inner shield, the front cover, the tray, the rinse station and finally the Z-drive assembly.



Figure 1-18. Back view of connector that attaches to the Daughter board.