
**Main Board Replacement
Procedure for ASX-510
(SP5220A) > 049622ASX**

MAIN BOARD REPLACEMENT PROCEDURE FOR ASX-510

NOTE:

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

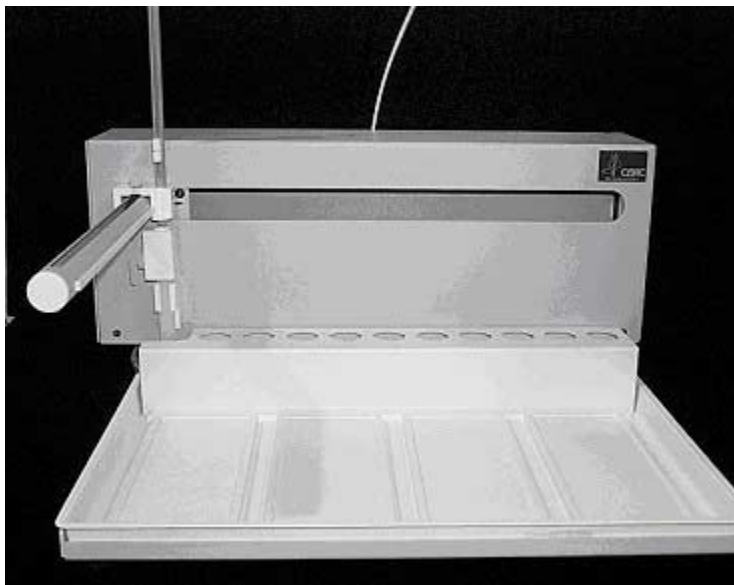


Figure 1-1. Front view of ASX-510.

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

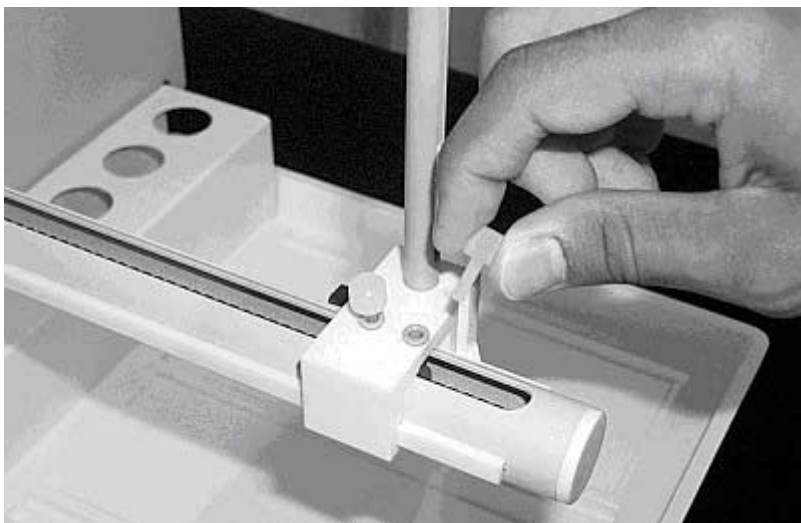


Figure 1-2. View of Y- axis home block with Kynar thumbscrews.

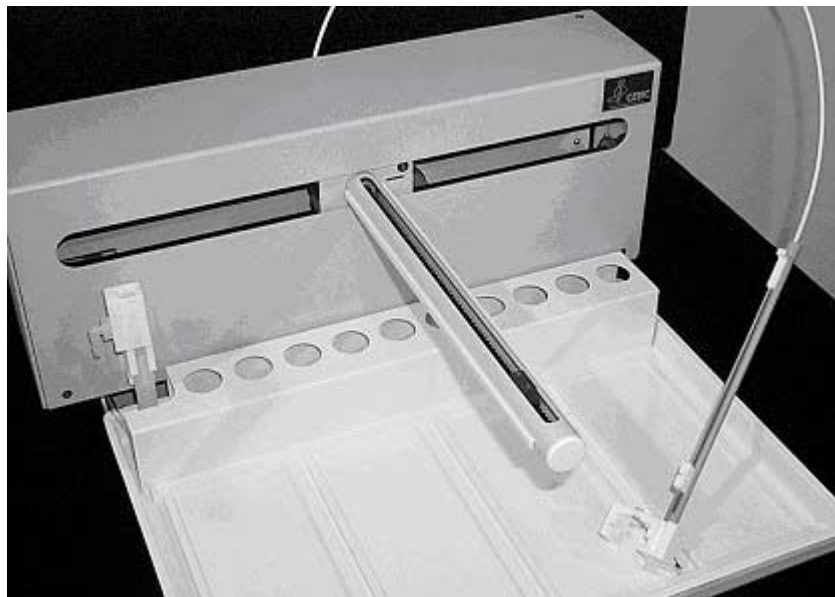


Figure 1-3. Z-drive removed from arm assembly.

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.

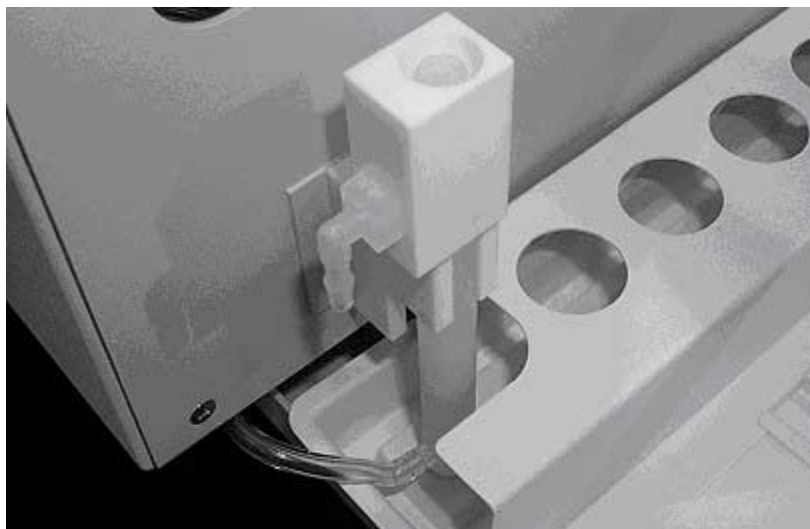


Figure 1-4. View of rinse station.

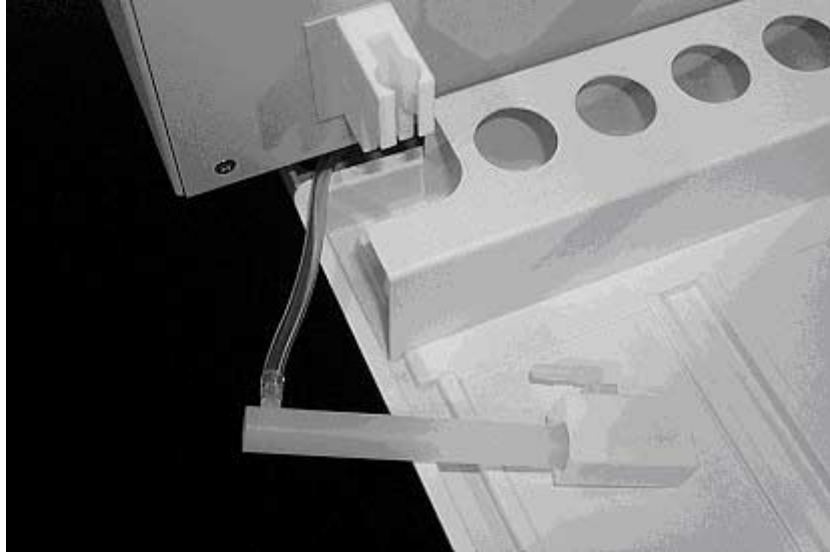


Figure 1-5. View of rinse station removed from the front cover.

4. The Auto Sampler tray is next to be removed. Lift up the tray and pull forward. See Figure 1-6.

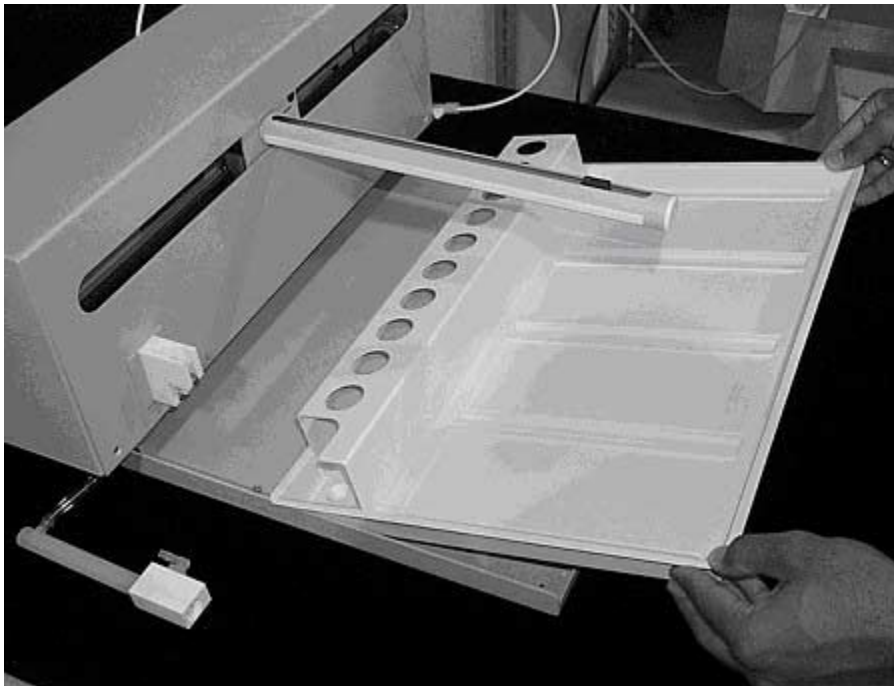


Figure 1-6. Removing the tray.



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.

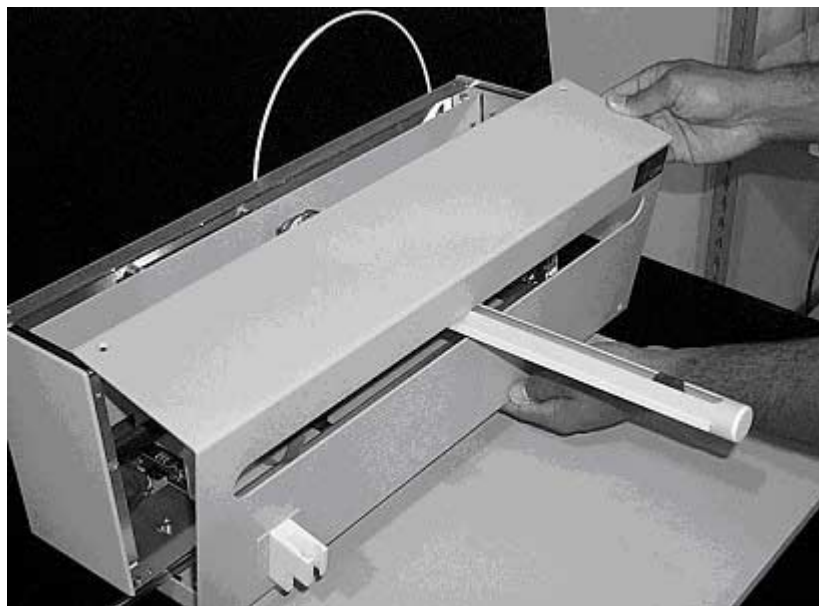


Figure 1-8. View of ASX-510 Auto Sampler with the front cover being removed.

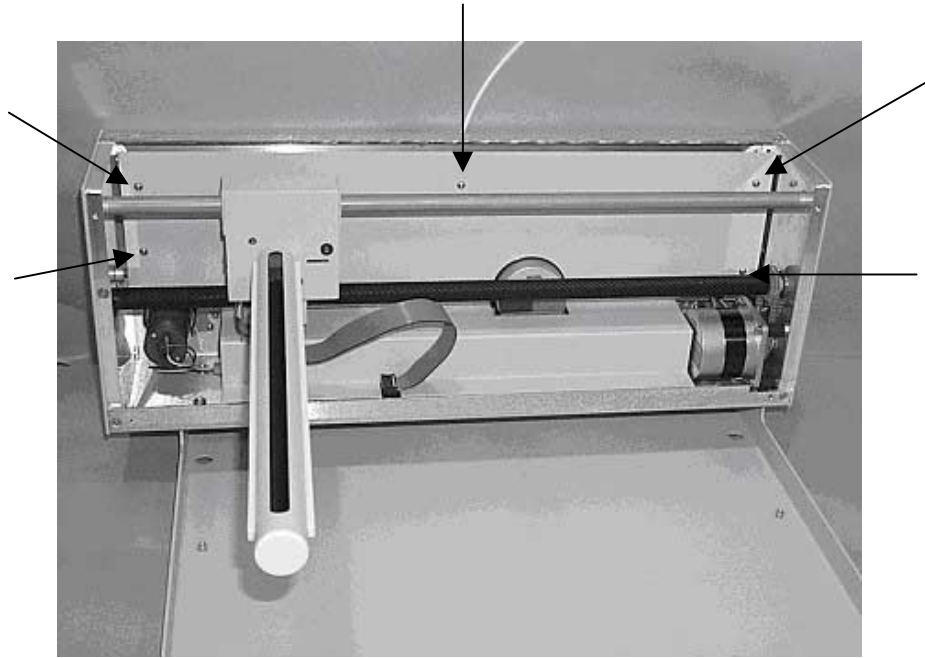


Figure 1-9. View of inner shield inside the ASX-510.

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.

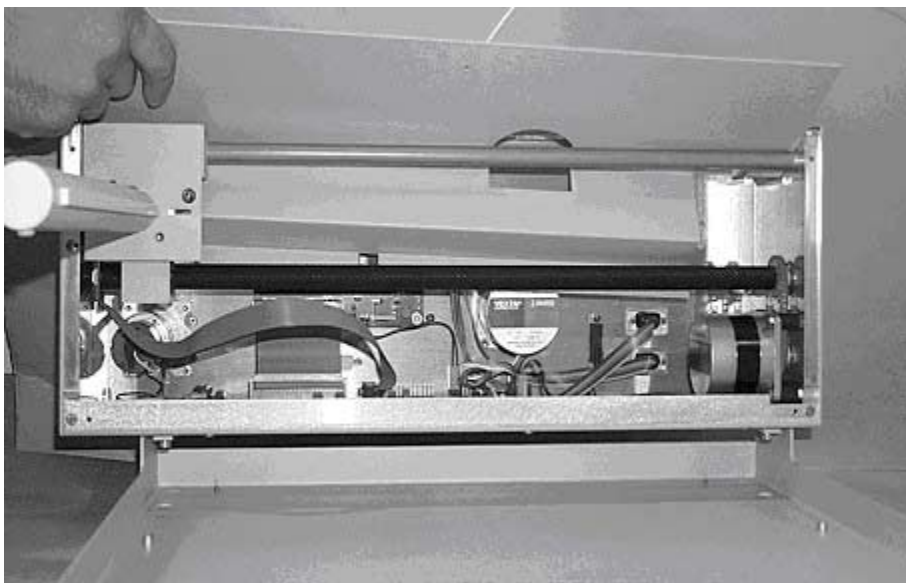


Figure 1-10. Removal of inner shield.

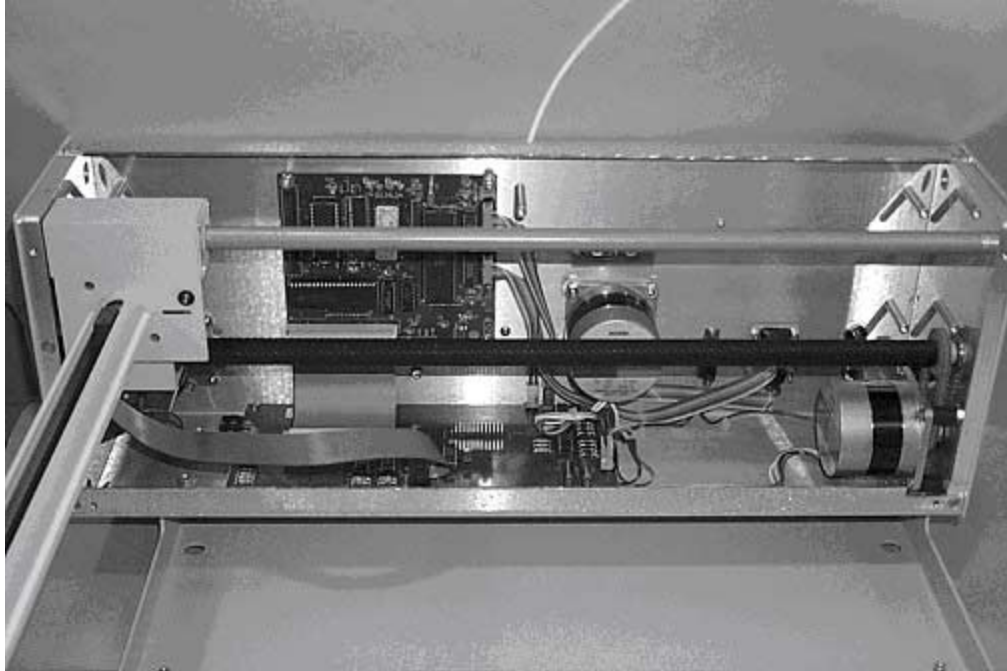


Figure 1-11. View of ASX-510 with inner shield removed.

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

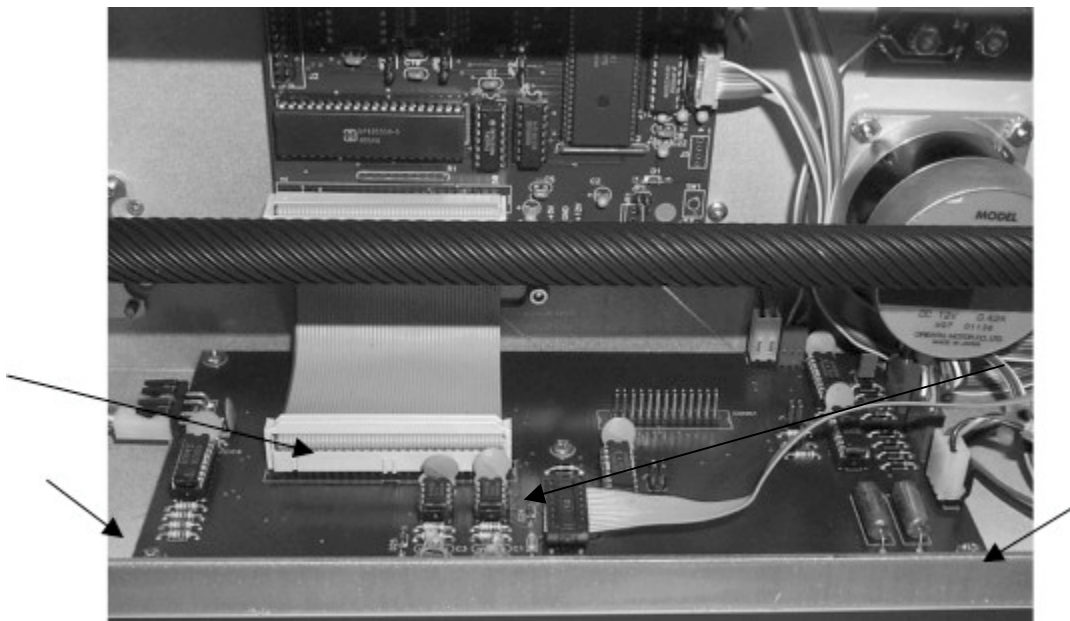


Figure 1-12. View of ASX-510 showing Main board.

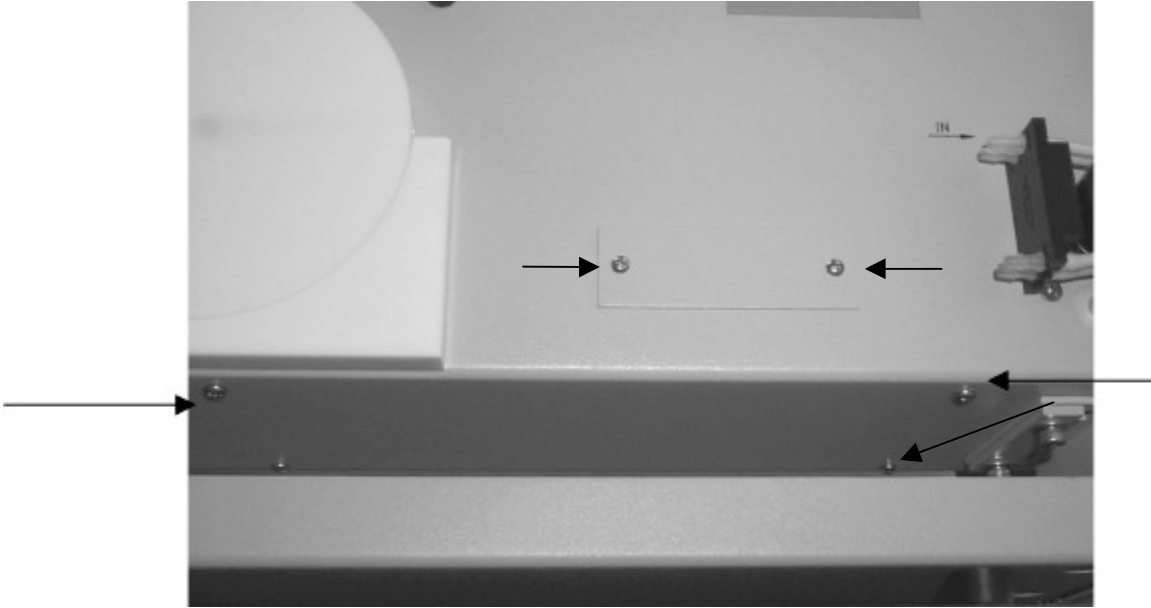


Figure 1-13. Bottom rear view of the ASX-510.

10. Remove the back two screws that attach to the bottom of the Main board. Also, remove the two screws holding the back spacer panel. See Figure 1-13.

11. The main board can now be replaced. Disconnect all cables and replace with new Main board. See Figure 1-14.

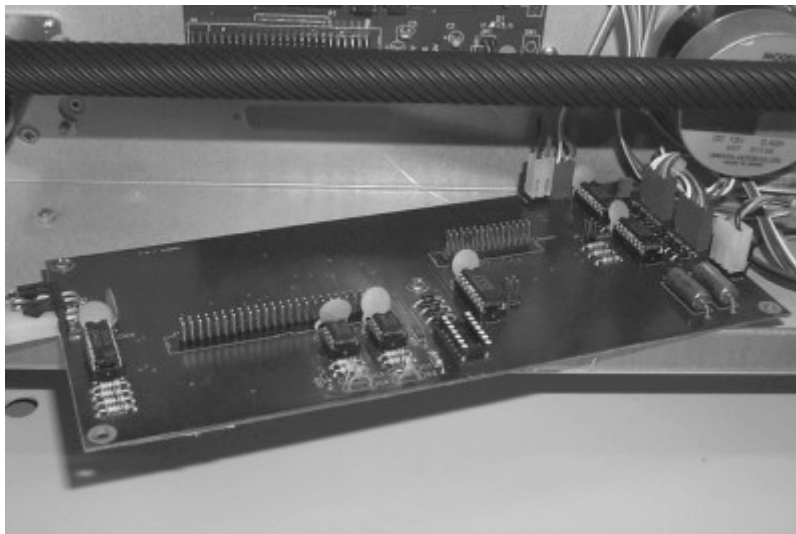


Figure 1-14. View of Main board being replaced.

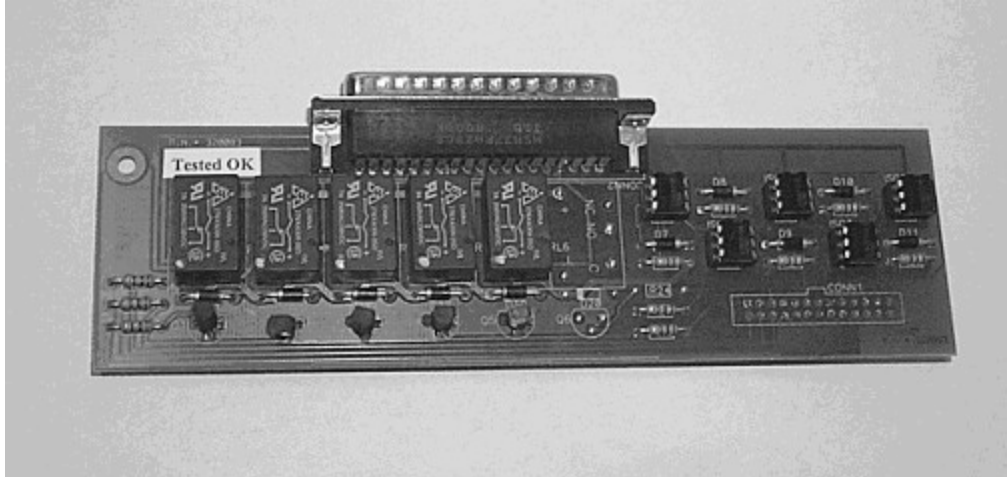


Figure 1-15. View of Daughter board.

12. If the unit does not have or use the auxiliary port that is shown in Figure 1-17, then skip to step 15.

13. Attach the Daughter board to the top of the Main board. See Figure 1-16.

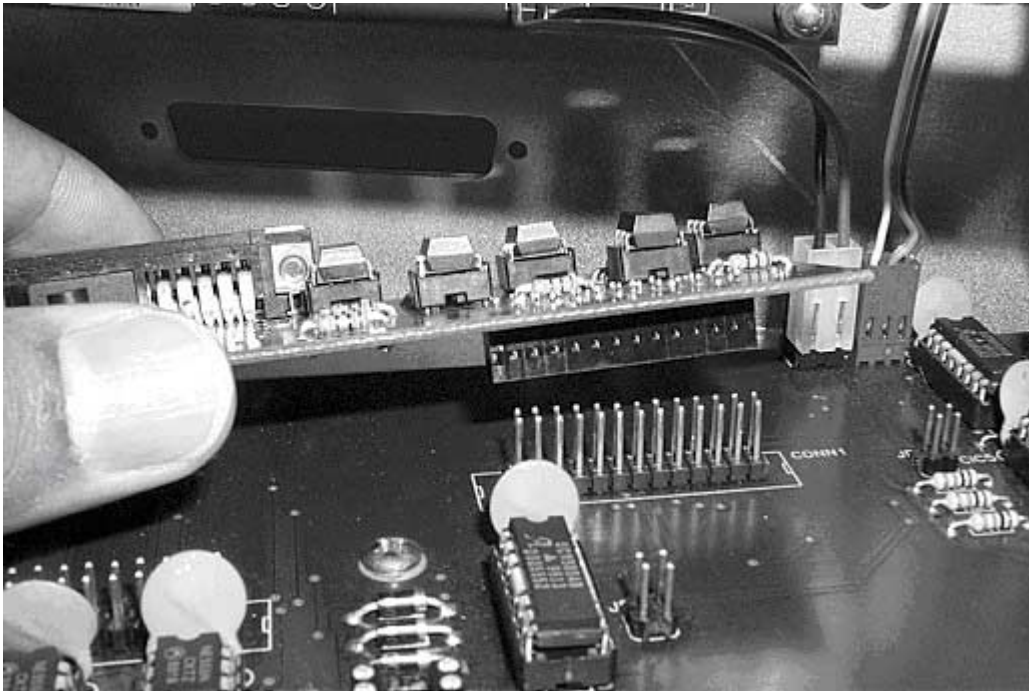


Figure 1-16. View of Daughter board attaching to the Main board.

14. Tighten the two screws that hold the connector to the back panel. See Figure 1-17.

15. Attach both ribbon cables, the two bottom screws that hold the Main board from the rear and the two top screws that hold the front of the Main 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 1-17. Back view of connector that attaches to the Daughter board.

If you have questions regarding the maintenance of your ASX500/510 please contact CETAC at 1-800-369-2822 or custserv@cetac.com