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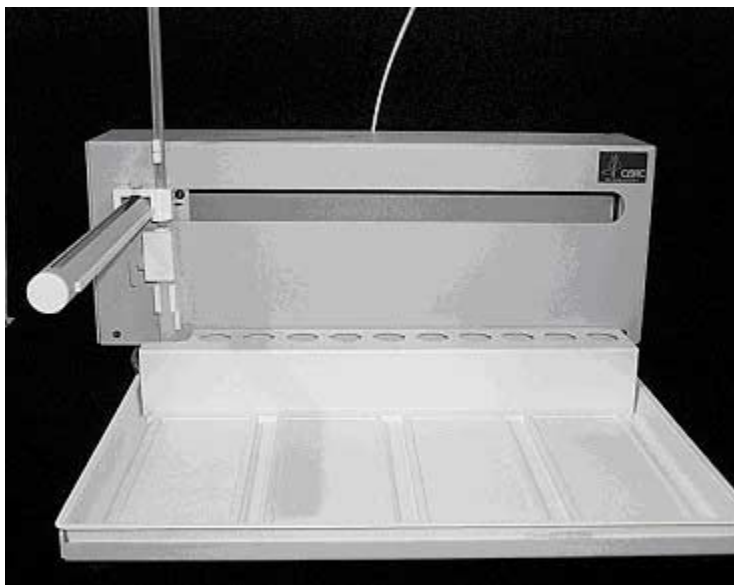
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**Y-Axis Sensor board  
Replacement Procedure  
for ASX-500/510**

## Y-AXIS SENSOR BOARD REPLACEMENT PROCEDURE FOR ASX-510

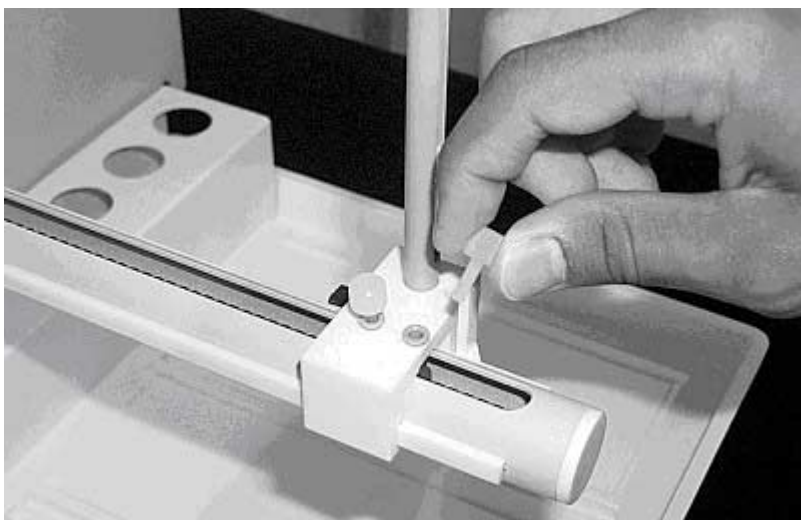
**NOTE:**

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

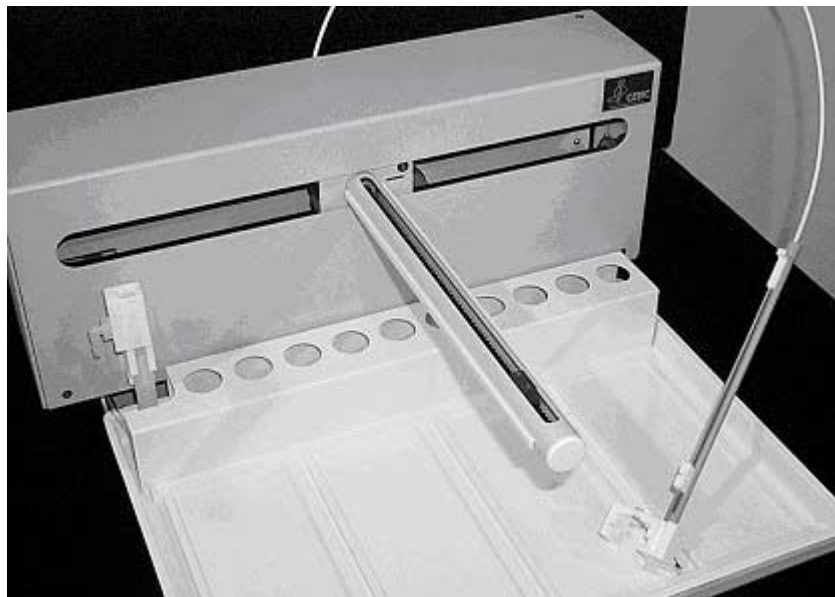


**Figure 1-1.** Front view of ASX-510.

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

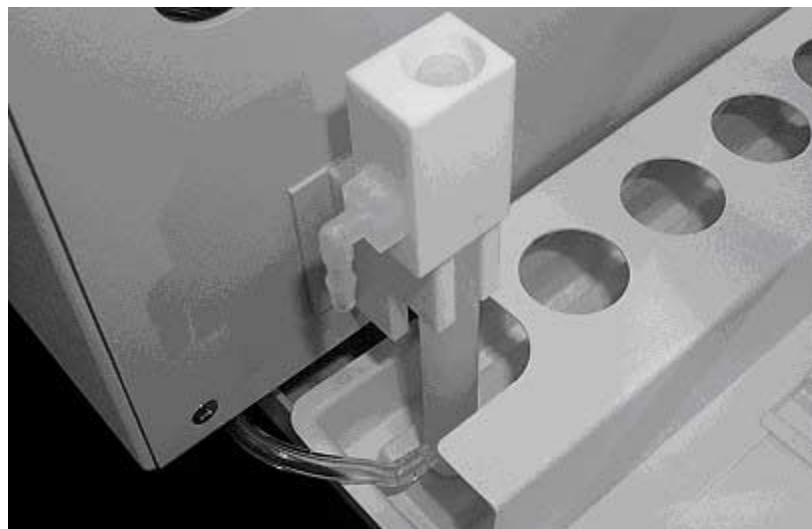


**Figure 1-2.** View of Y- axis home block with Kynar thumbscrews.

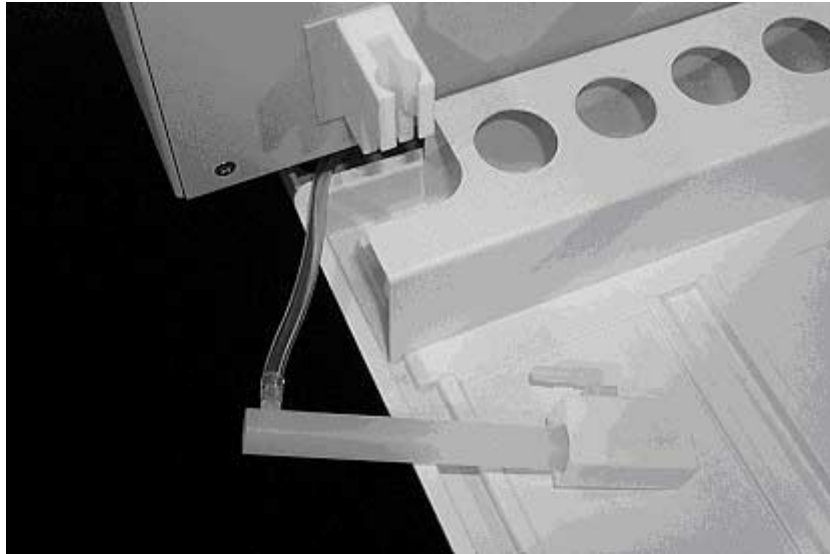


**Figure 1-3.** Z-drive removed from arm assembly.

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.

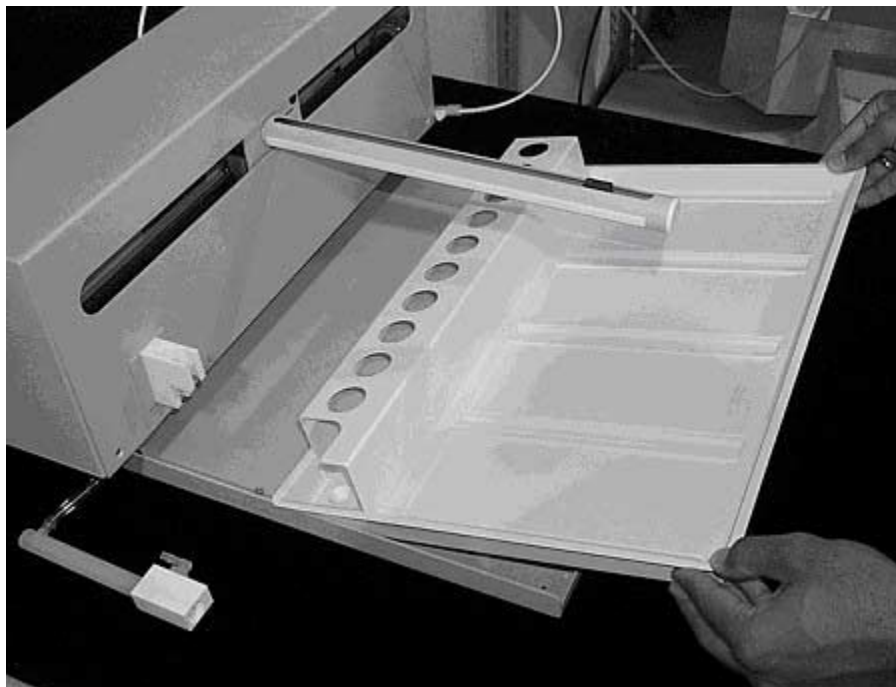


**Figure 1-4.** View of rinse station.

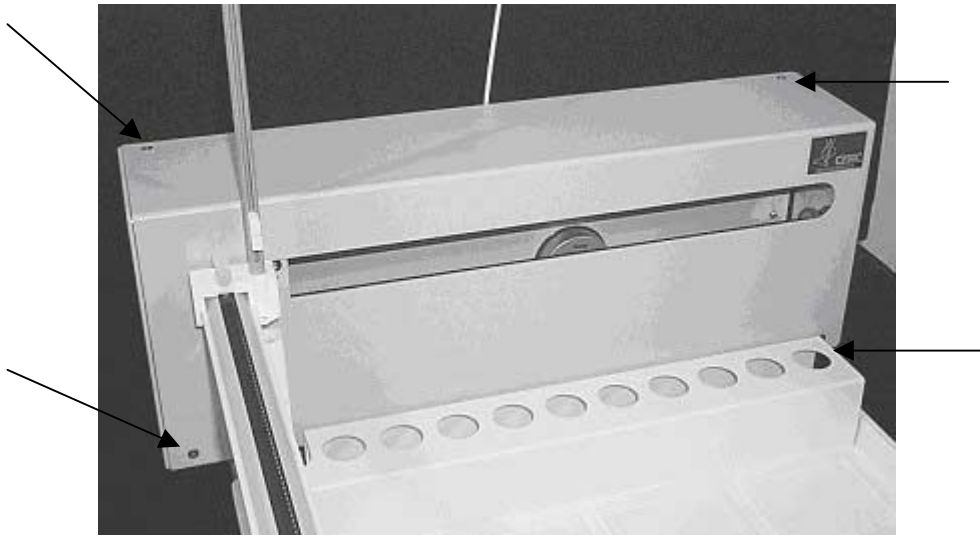


**Figure 1-5.** View of rinse station removed from the front cover.

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

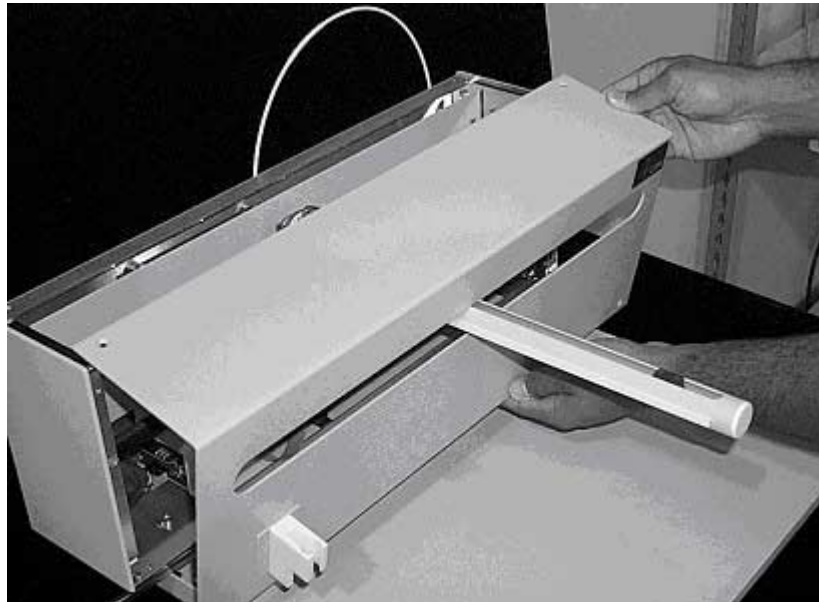


**Figure 1-6.** Removing the tray.

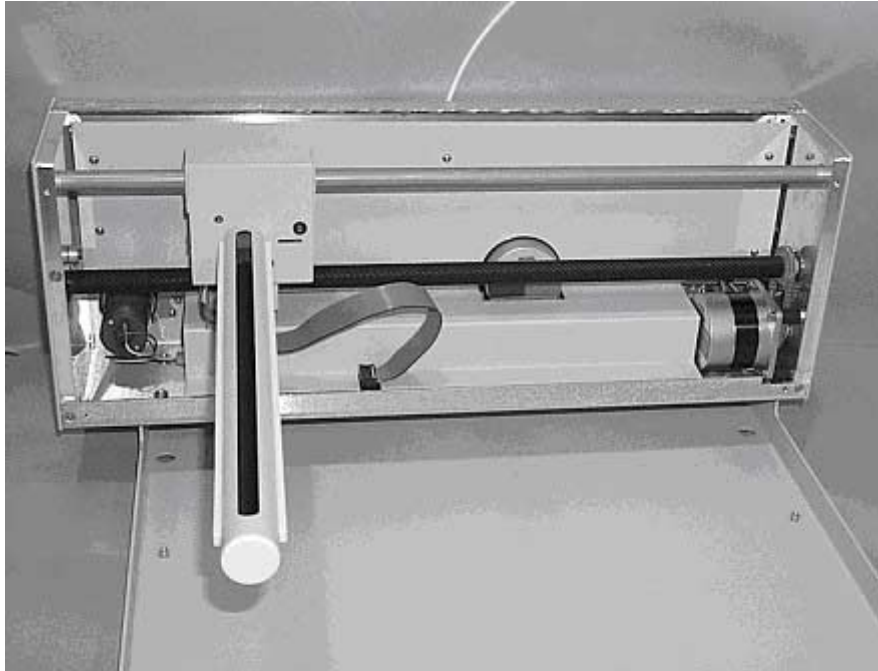


**Figure 1-7.** Front view of ASX-510 Auto Sampler showing front cover screws.

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.



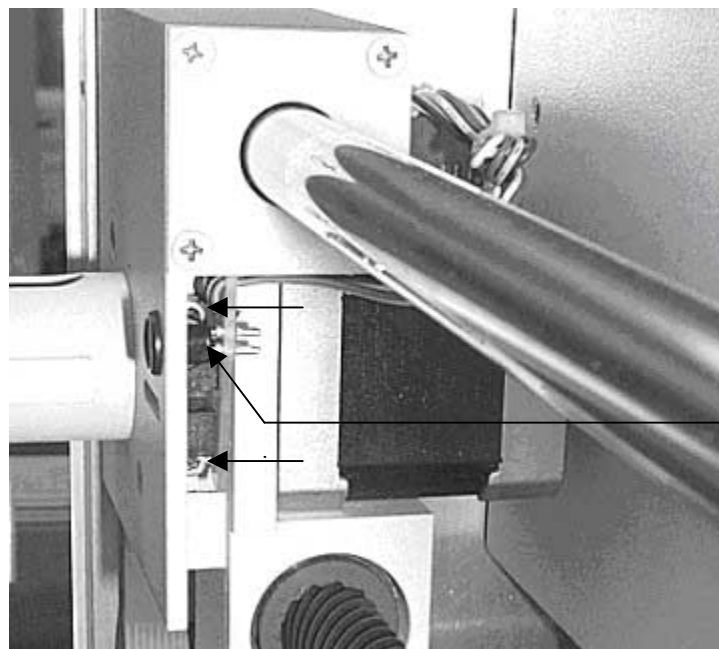
**Figure 1-8.** View of ASX-510 Auto Sampler with the front cover being removed.



**Figure 1-9.** View of ASX-510 with front cover removed.

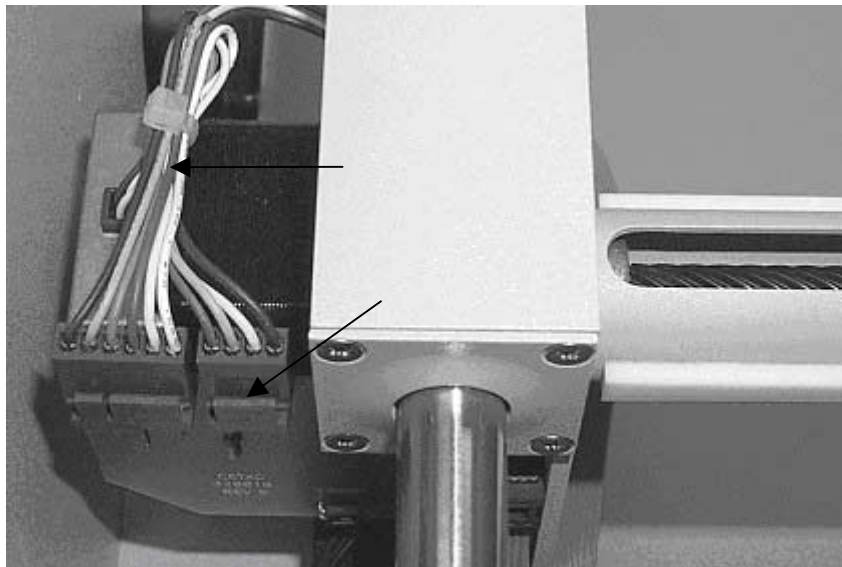
**NEW STYLE (510)**

7. Locate the LED and push the back of it through the carriage front to remove. See Figure 1-10.
8. Remove the two mounting screws with an allen wrench. See Figure 1-10.



**PUSH HERE**

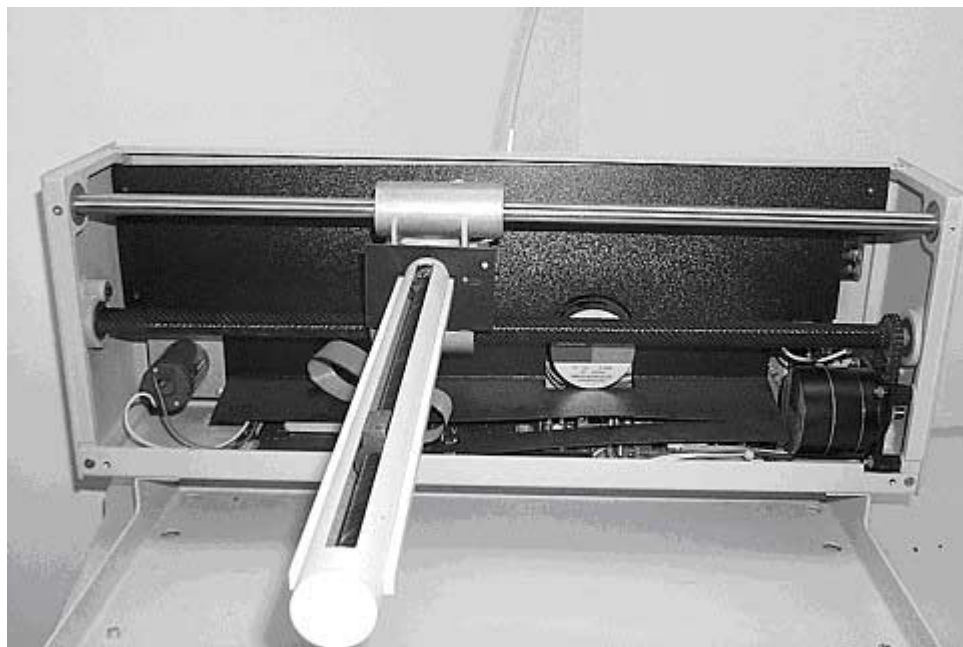
**Figure 1-10.** View of Y-axis sensor board.



**Figure 1-11.** Top view of carriage.

9. Cut the wire tie and unplug the connector from the X-axis sensor board. See Figure 1-11.
10. Replace with a new Y-axis sensor board.

**OLD STYLE (500)**



**Figure 1-12.** View of ASX-500 with the front cover removed.



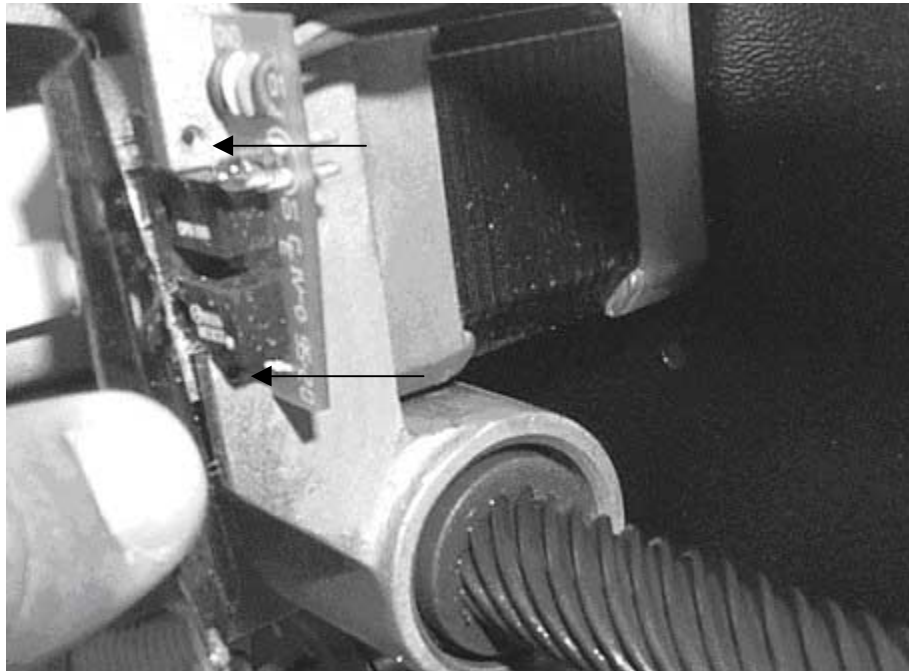
**Figure 1-13.** Front view of carriage.

11. The mask on the carriage will have to be moved back to gain access to the sensor board. See Figure 1-13.
12. Now since the mask has been moved back the nut on the back can now be accessible. See Figure 1-14. Hold nut and remove set screw. (Top and Bottom).



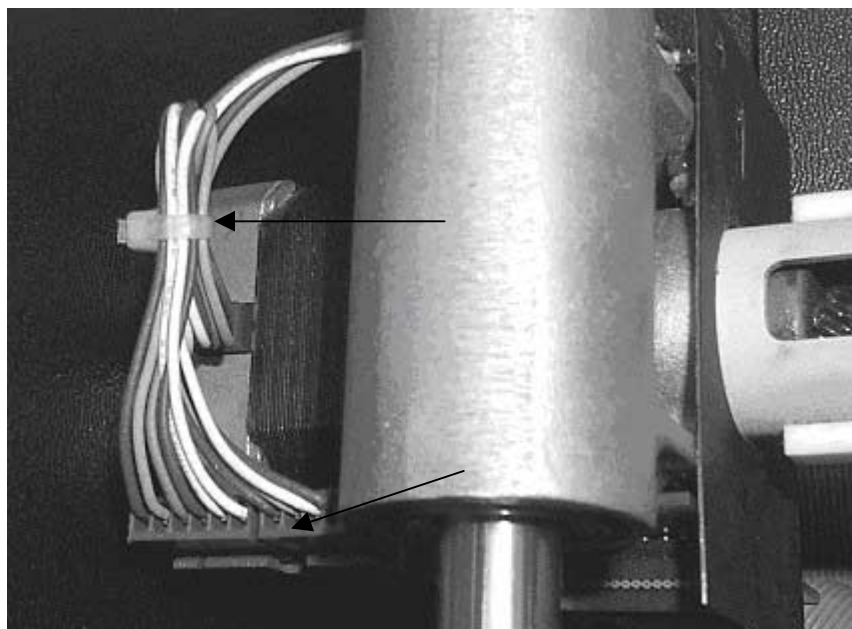
**Figure 1-14.** Top view of Y-axis sensor showing mounting nut and screw.





**Figure 1-15.** View of Y-axis sensor board.

13. Remove both set screws and nuts. See Figure 1-15.
14. Cut the wire tie and unplug the connector from the X-axis sensor board. See Figure 1-16.
15. Replace with a new Y-axis sensor board.



**Figure 1-16.** Top view of carriage.

16. To reassemble, attach the two screws that hold the Y-axis sensor board to the carriage. Also, install a new wire tie and put the LED back in. (If not already attached to the board).
17. Plug in the unit and turn the power switch that is located to the rear on the unit to the On position. Verify that the LED lights up before continuing on. If the LED does not light up then remove the LED and reverse the pins and reinstall.
18. 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.