
**Guide to Replacing the Y-Axis
Sensor Board on the ASX-520 and
ASX-520HS Autosamplers**

This guide describes the necessary steps for replacing the Y-axis sensor board on the ASX-520 and the ASX-520HS autosamplers.

Accessing the Board inside the Autosampler

1. Place the autosampler on a flat surface (Figure 1-1) and turn the unit off.



Figure 1-1. Front view of ASX-520 Autosampler.

2. Remove the two Kynar thumbscrews from the Y-axis home block (Figure 1-2).

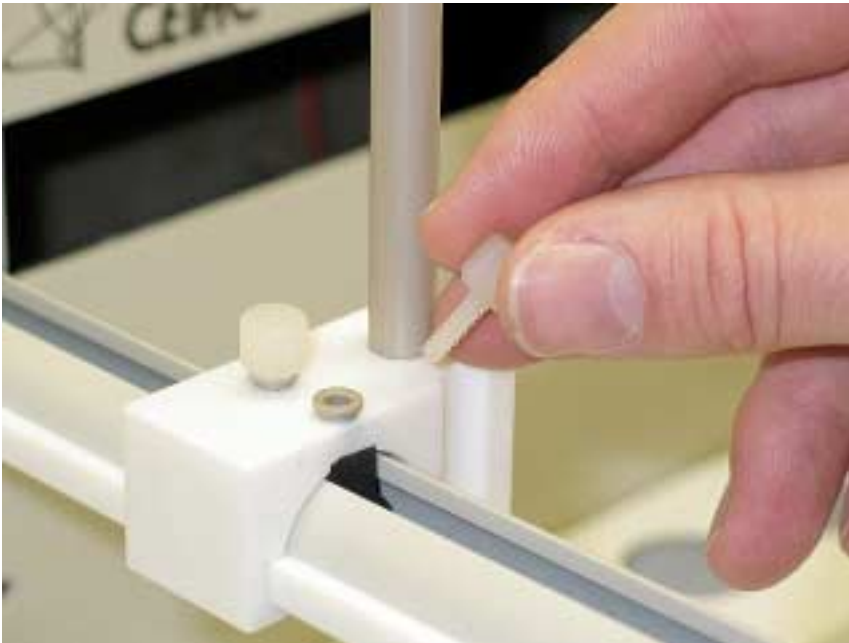


Figure 1-2. View of Y-axis home block with Kynar thumbscrews.



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

3. Remove the whole Z-drive assembly from the arm by pulling the whole Z-drive assembly forward and off the autosampler arm (Figure 1-3).



Figure 1-4. View of rinse station.

4. Once the Z-drive assembly is removed, remove the rinse station (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 (Figure 1-5).



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

5. The autosampler tray should then be removed. Lift up the tray and pull out (Figure 1-6).



Figure 1-6. Removing the tray.



Figure 1-7. Front view of ASX-520 Autosampler showing front cover screws.

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



Figure 1-8. View of ASX-520 Autosampler with the front cover being removed.

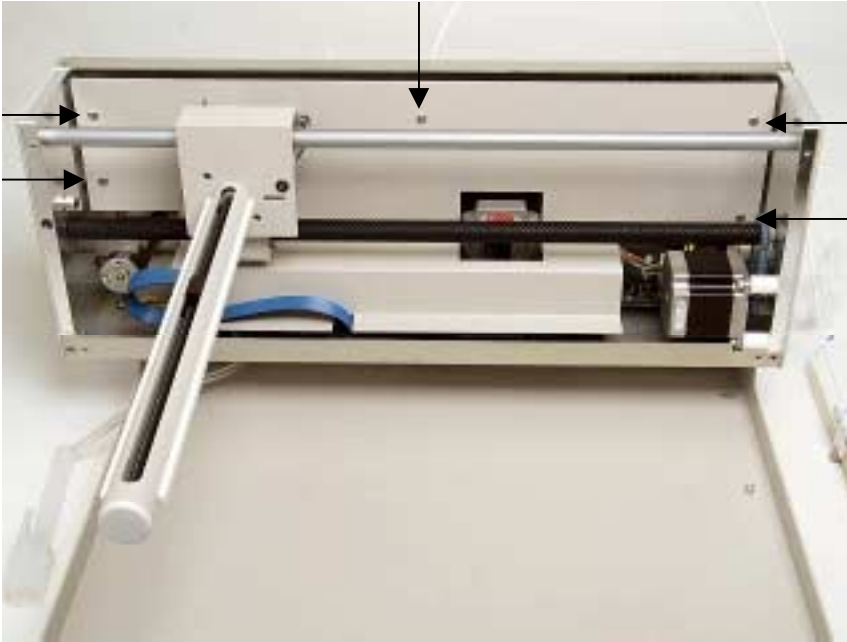


Figure 1-9. View of inner shield inside the ASX-520 Autosampler.

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



Figure 1-10. Removal of inner shield.

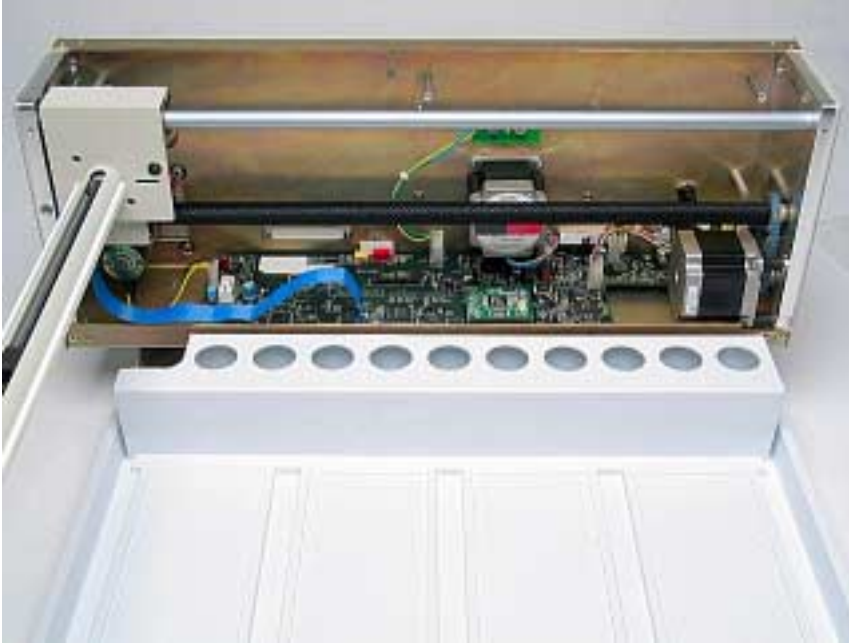


Figure 1-11. View of ASX-520 with inner shield removed.

Removing the Y sensor board

1. The autosampler (Figure 1-11) is now ready for the removal of the Y sensor board.
2. Locate the LED and push the back of it through the carriage front (Figure 1-12).
3. Remove the two mounting screws with an Allen wrench (Figure 1-12).

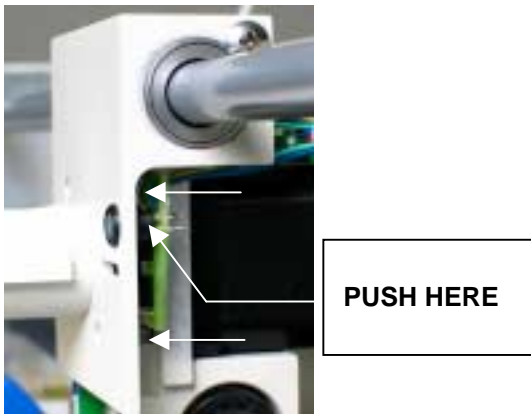


Figure 1-12. View of Y-axis sensor board.



Figure 1-13. Top view of carriage.

4. Cut the wire tie and unplug the connector from the X-axis sensor board (Figure 1-13).
5. Replace with a new Y-axis sensor board.