

---

**Guide to Installing the Splash guard  
and two piece shield on the ASX-520  
and ASX-520HS Autosamplers**

This guide describes the necessary steps for installing the splash guard and two piece shield 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.

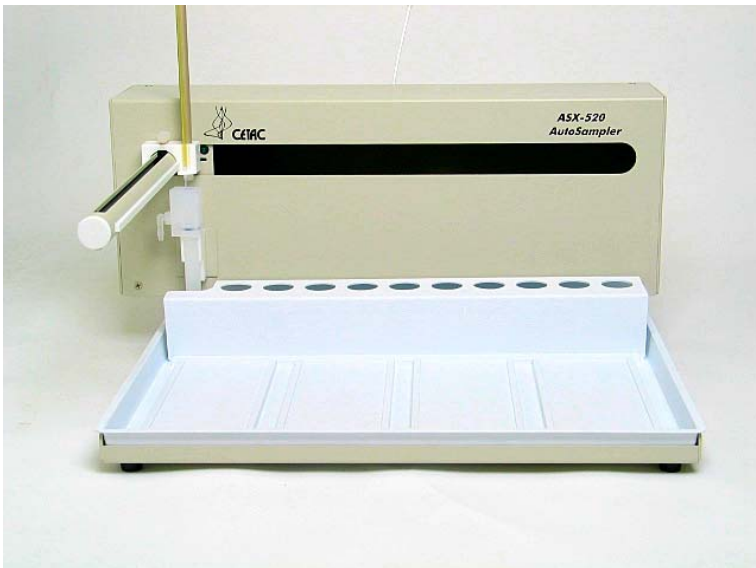


Figure 1-1. Front view of ASX-520 Autosampler.

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

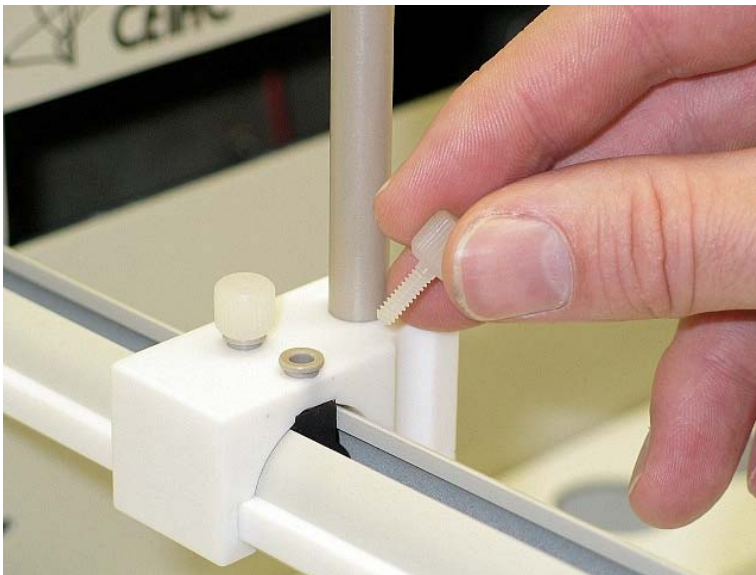


Figure 1-2. View of Y- axis home block with Kynar thumbscrews.



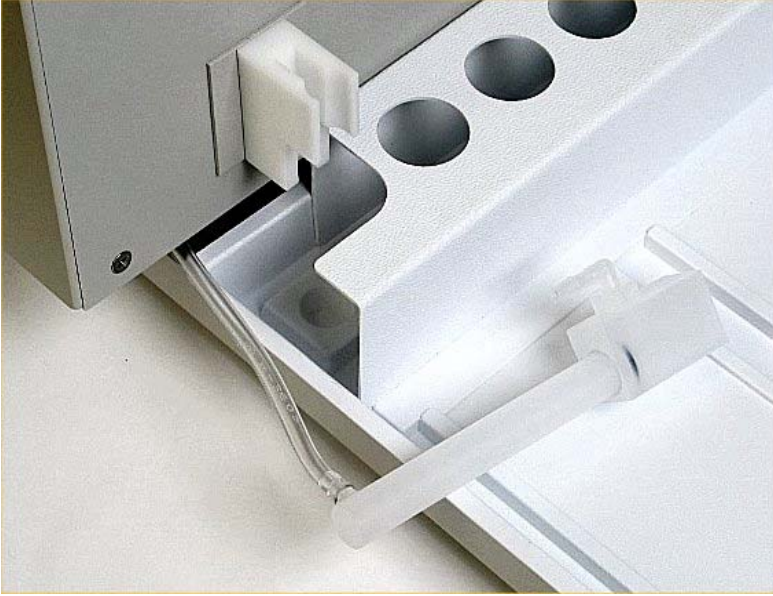
**Figure 1-3.** Z-drive removed from arm assembly.

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).

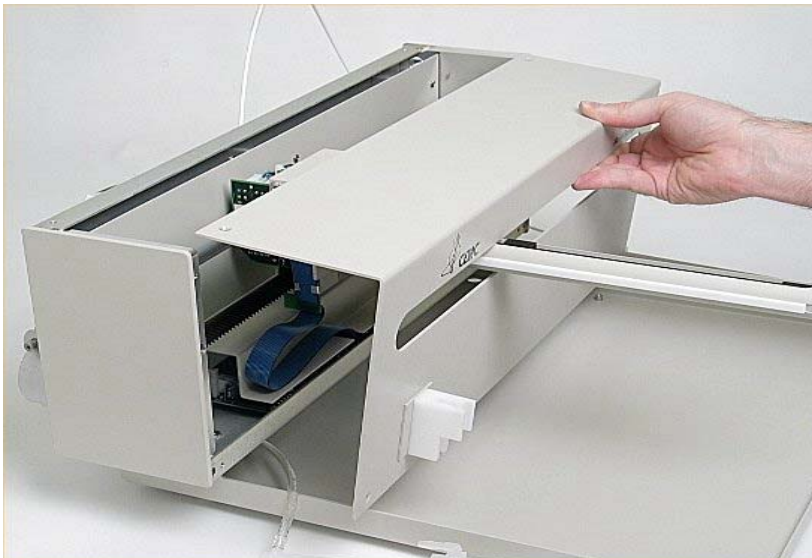


**Figure 1-6.** Removing the tray.



**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.

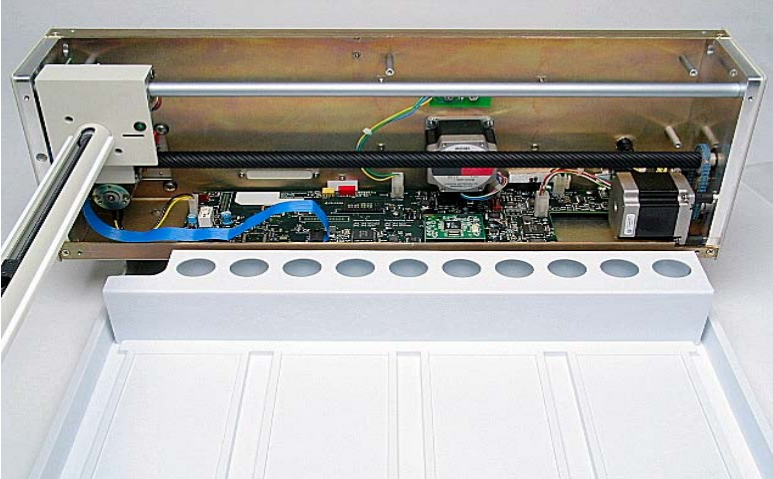


Figure 1-11. View of ASX-520 with inner shield removed.

### Removing the carriage cable

10. Pull out the ribbon cable from the main board to the carriage (Figure 1-12).

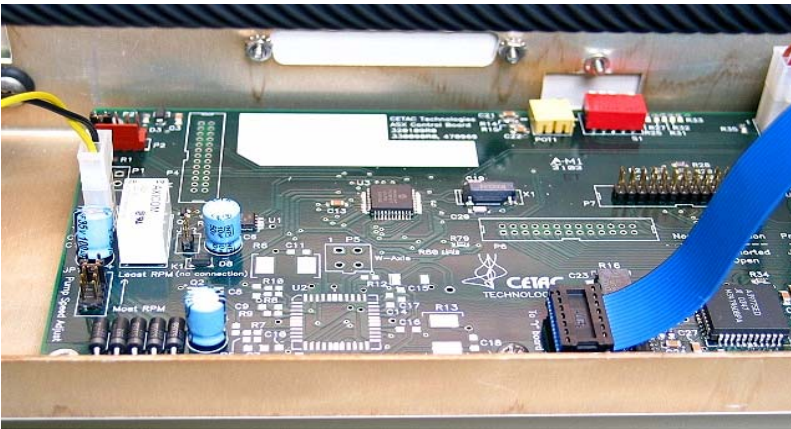


Figure 1-12. Main board with ribbon cable.

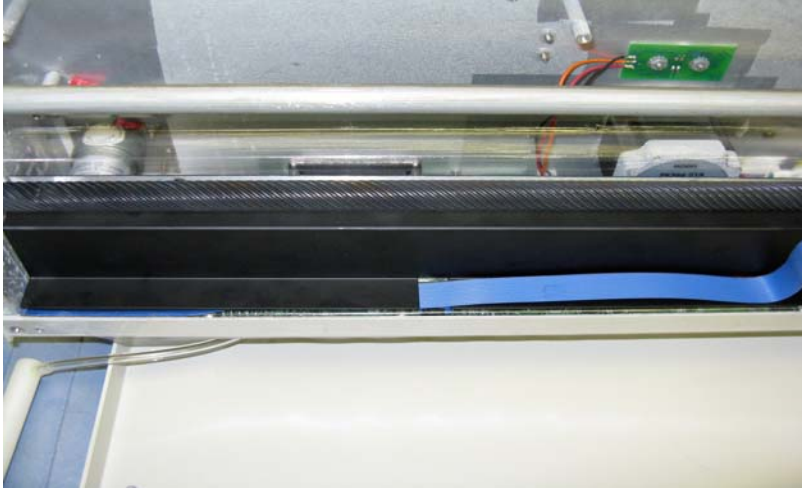
11. Install the new 31 inch ribbon cable as shown in Figure 1-12 with the red strip towards the back of the Autosampler. Then route the cable to the left as shown in Figure 1-13.  
**\*\*Caution\*\*** Make sure the cable does not cover IC U4 as this will produce unwanted results.



Figure 1-13. 31 inch ribbon cable installation.

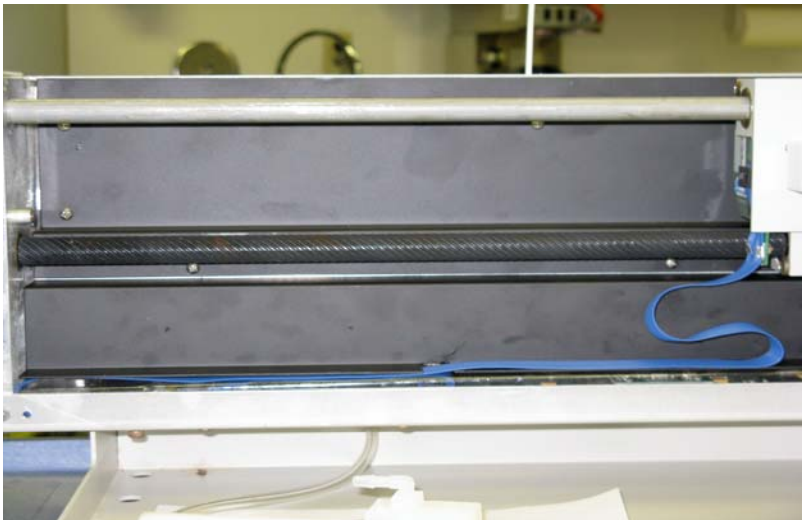
**Installing the splash guard & two piece shield**

12. Install the splash guard. Begin by sliding the right side of the splash guard in the middle of the instrument. The material is flexible and you will need to maneuver and bend it until it is in place. Make sure that the ribbon cable is fed through the left side of the splash as shown in Figure 1-13. The top part of the splash guard gets tucked under the top lip of the Autosampler's outer case. The bottom of the splash guard sits outside of the lower lip of the Autosampler's case.
13. Install the lower half of the two piece shield as shown in figure 1-14. Note the routing of the carriage ribbon cable.



**Figure 1-14.** Ribbon cable routing and lower half of two piece shield.

14. Install the top shield half of the shield kit. Assemble the shield by screwing the top half of the shield to the bottom half using two of the 6-32X1/4 inch screws provided in the kit.



**Figure 1-15.** Assembled shield kit.

15. Finish attaching the shield assembly to the unit by installing the four screws that hold the shield to the back of the Autosampler. The lower right screw of the old shield will not be used with this installation. Some manual adjustment may be necessary if the carriage assembly hits the left screw of the bottom half of the shield assembly. The manual adjustment consists



of applying enough pressure to the bottom left screw to displace the shield out of the carriage path.

16. Plug in the top end of the ribbon cable to the carriage assembly as shown in Figure1-16



**Figure 1-16.** Ribbon cable connection to carriage assembly.

17. Reverse instructions 7 through 1 to complete the installation.

---

**WARNING**

---

**When replacing the ribbon cable make sure that no pins are bent and all the pins are in the board connector. Improper connections could result in damage to the main board.**