
**Y-Axis Leadscrew
Replacement Procedure
for ASX-510**

Y-AXIS LEADSCREW REPLACEMENT PROCEDURE FOR ASX-510

NOTE:

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

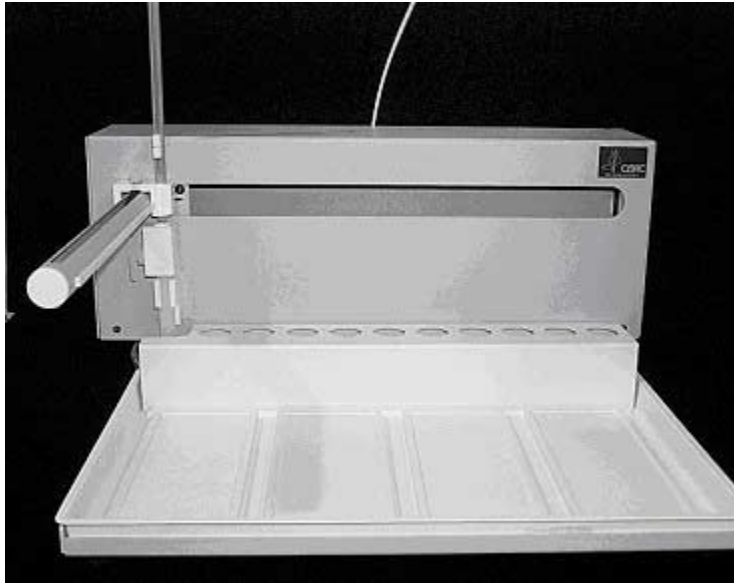


Figure 1-1. Front view of ASX-510.

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

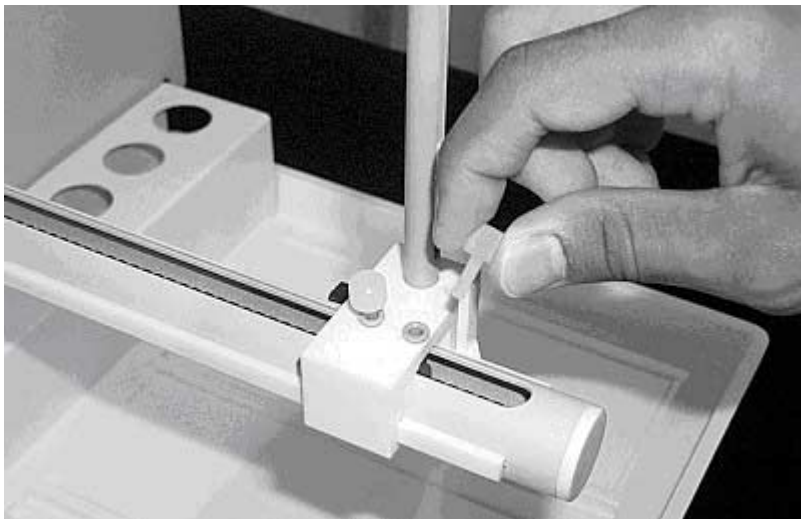


Figure 1-2. View of Y- axis home block with Kynar thumbscrews.

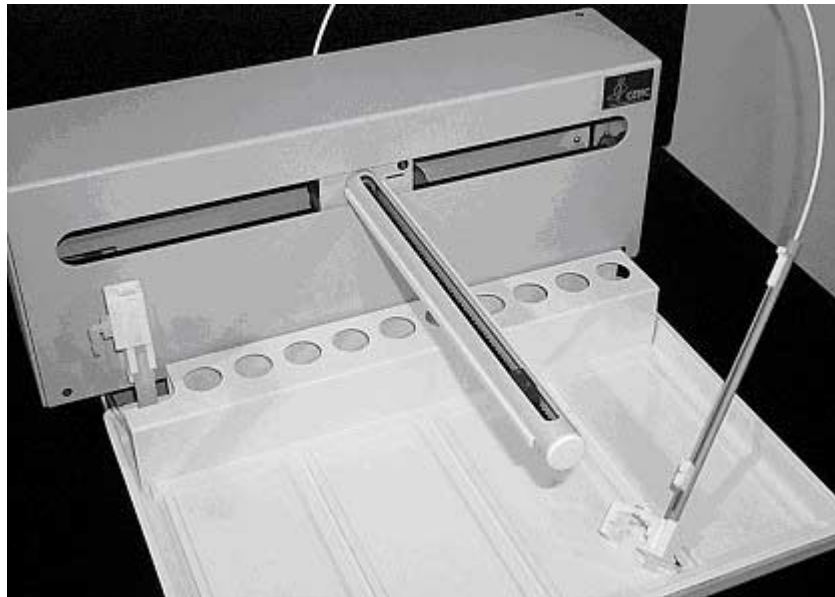


Figure 1-3. Z-drive removed from arm assembly.

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 raise up the rinse station. See Figure 1-4. Lift up the rinse station so you can easily remove the auto sampler tray.

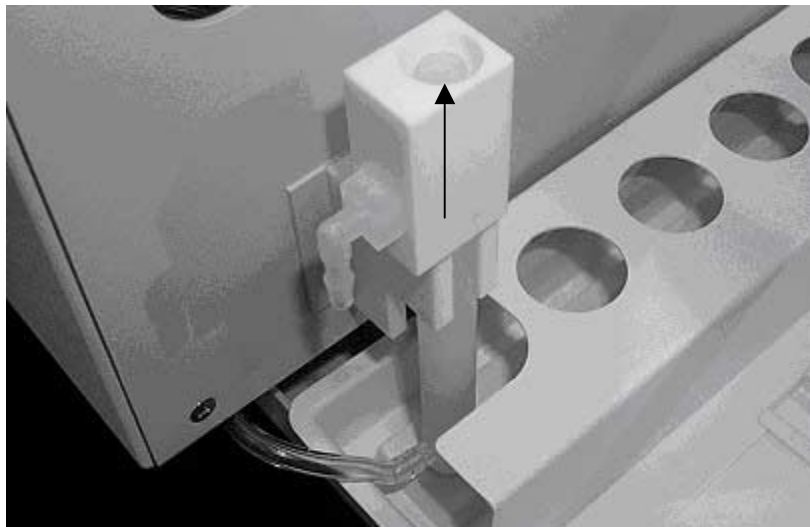


Figure 1-4. View of rinse station.

4. The auto sampler tray is the next to be removed. Lift up the tray and pull out. See Figure 1-5.

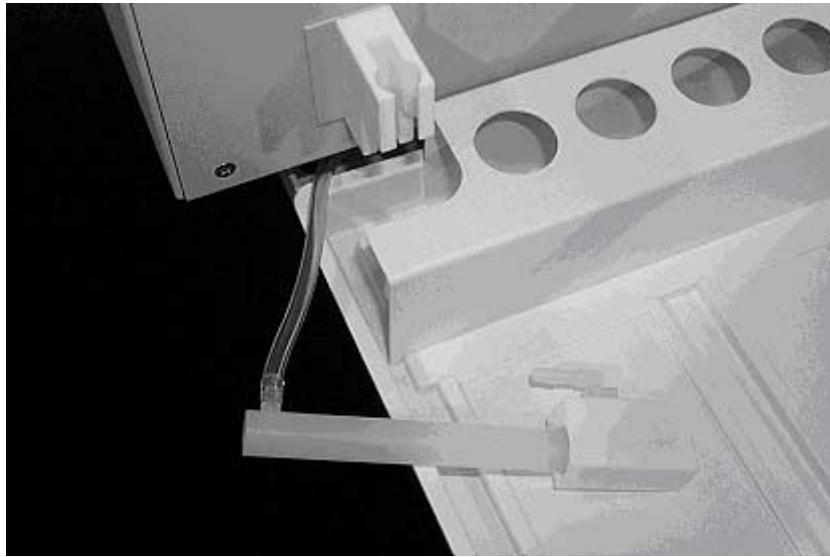


Figure 1-5. Removing the tray.

5. Remove the painted screw that is attached to the arm tube. See Figure 1-6.

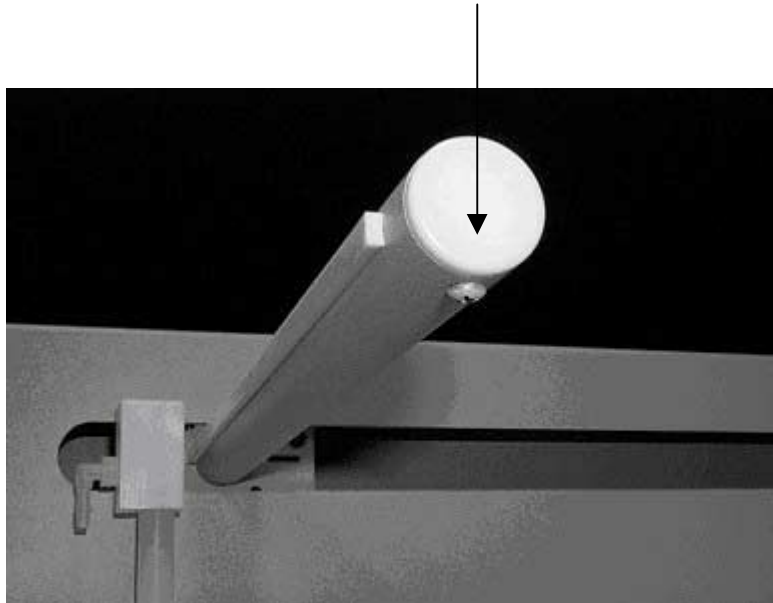


Figure 1-6. Front view of arm tube.

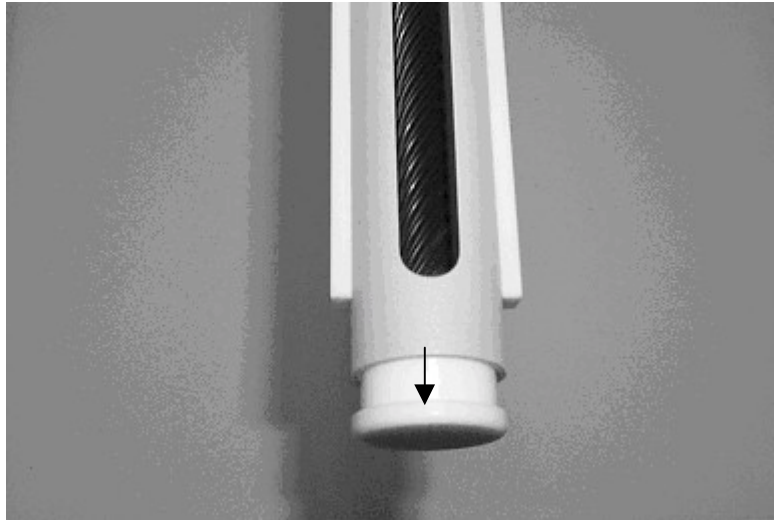


Figure 1-7. Removing the endcap from the arm tube.

6. By removing the painted screw, the endcap may then be removed from the arm tube. See Figure 1-7.
7. There will be a spring washer that is located on the end of the Y-axis leadscrew while removing the endcap. See Figure 1-8. Make sure to remove it from the leadscrew.

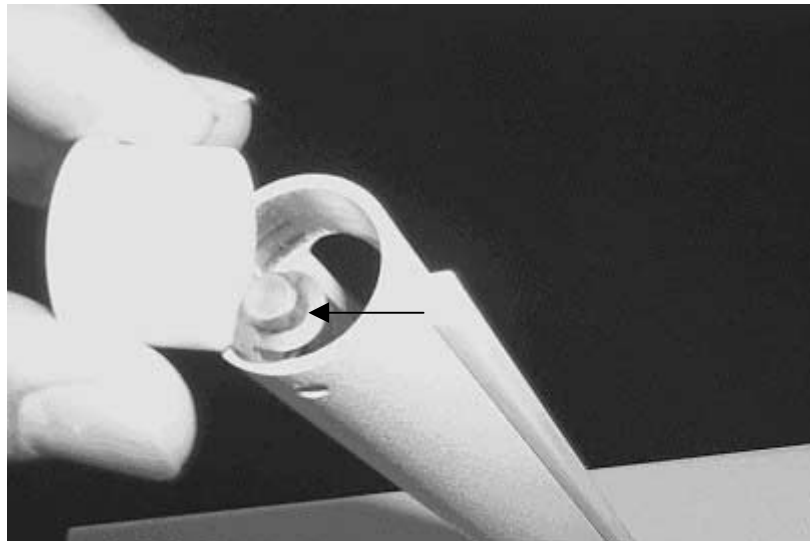


Figure 1-8. View of the spring washer.

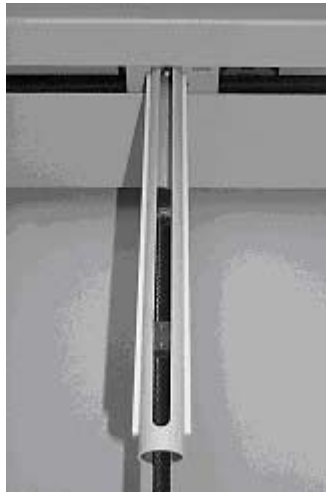


Figure 1-9. Leadscrew removal from arm tube.

8. Remove the leadscrew by pulling it straight out with needlenose pliers. See Figure 1-9.
9. Once the leadscrew is removed, replace it with a new one (SP 5335). See Figure 1-10.



Figure 1-10. Y-Axis leadscrew with nut and flex coupling attached.



Figure 1-11. Keyed end of flex coupling on the Y-Axis leadscrew.

10. Make sure that the keyed end of the flex coupling matches up with the Y-axis motor end. See Figure 1-11.
11. For easier installation of the leadscrew put one or two thumb screws into the nut. See Figure 1-12.

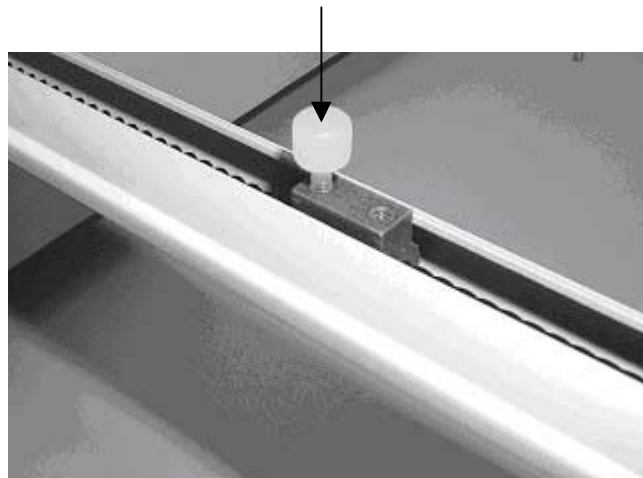


Figure 1-12. Thumbscrew attached to the nut.



Figure 1-13. Spring washer installation.

12. Next, the new spring washer needs to be replaced onto the end of the leadscrew. See Figure 1-13. Make sure that the pointed part of the washer is curved toward the leadscrew .

13. The new endcap and painted screw are next to be installed. See Figure 1-14.



Figure 1-14. Front view of arm tube showing painted screw.

14. To reassemble the unit, replace the tray, lower the rinse station and finally replace the Z-drive assembly.