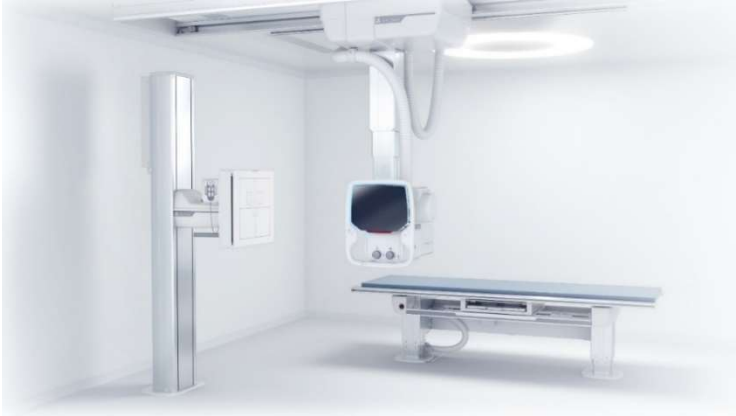


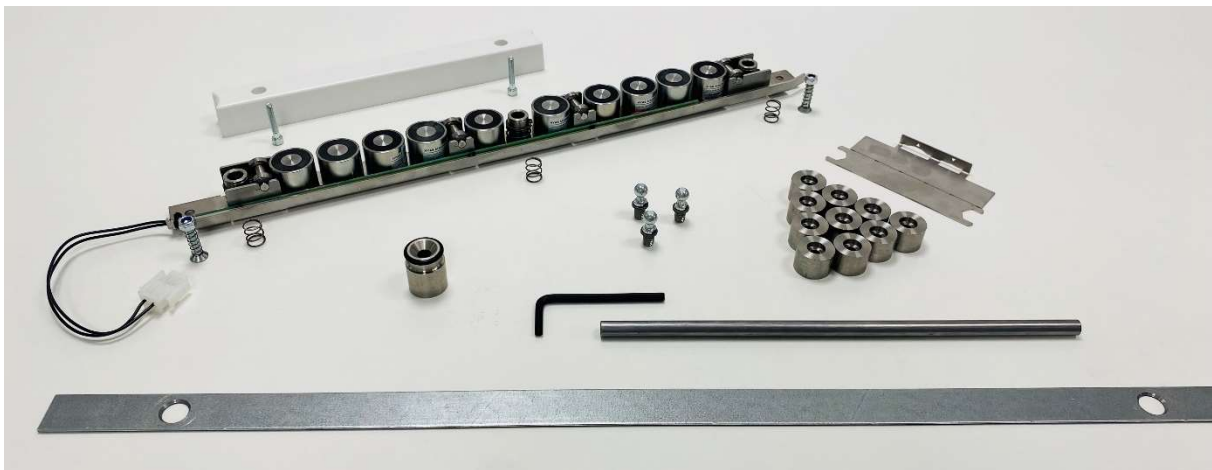
UDI_0055-815-570 Upgrade X-brake

How to install X-brake upgrade p/n 0055-815-570

APPLICABLE TO: Systems equipped with the two column 0055-NT type table.



Kit p/n : 0055-815-570



TOOLS: Standard Service tools.

EXPECTED TIME: 2 hours.



PROTECTIVE MEASURES:

CAUTION!

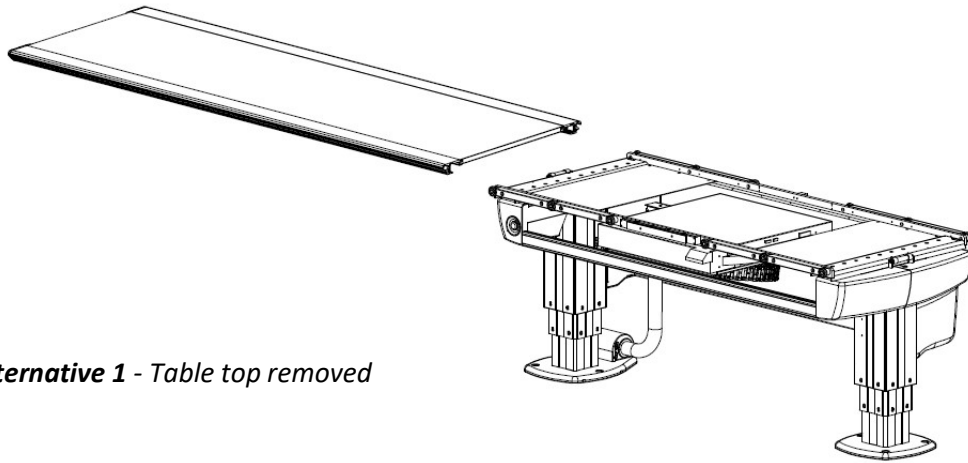
Printed circuit boards contain electrostatic highly sensitive components requiring particular care in their handling. Ground before making contact and place only on a conductive surface.

CAUTION!

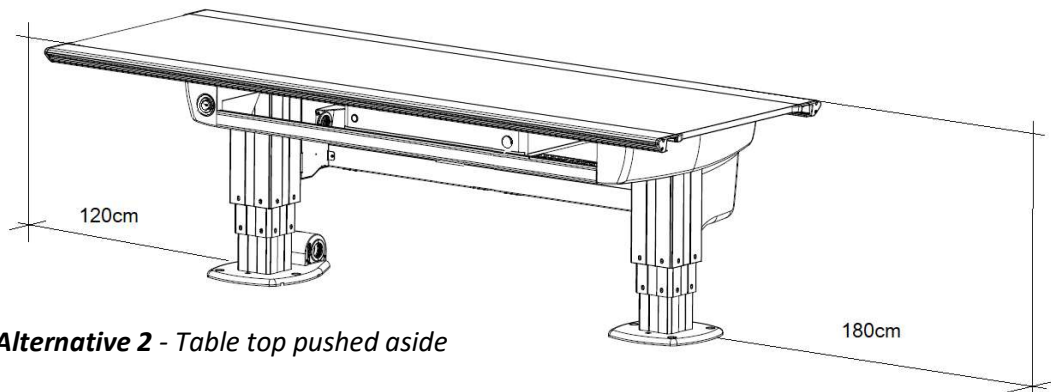
Remaining energy may exist when the equipment is switched off. Always wait at least 15 seconds before working on the system.

ACTION STEPS:

1. Ensure that enough space is available to remove the table top. This upgrade can be performed either by removing the table top or by pushing the table top aside, provided there is sufficient space, as shown in pictures below.



Alternative 1 - Table top removed



Alternative 2 - Table top pushed aside

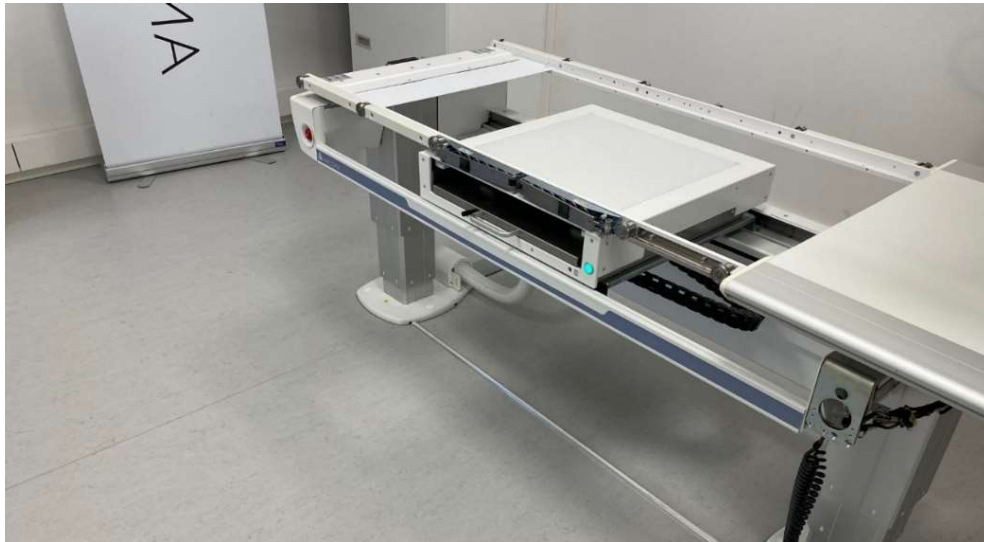
This instruction will show how to perform the upgrade with the table top removed.

2. Test the system to confirm that it is fully functional.
3. Place the OTC in a position where it doesn't obstruct the work on the table. Move the table to a good working height.

4. Release the two (2) screws for the table top endstop. Remove the endstop and keep for later.



5. Place the detector holder underneath the brakes to prevent them from damage while being removed.



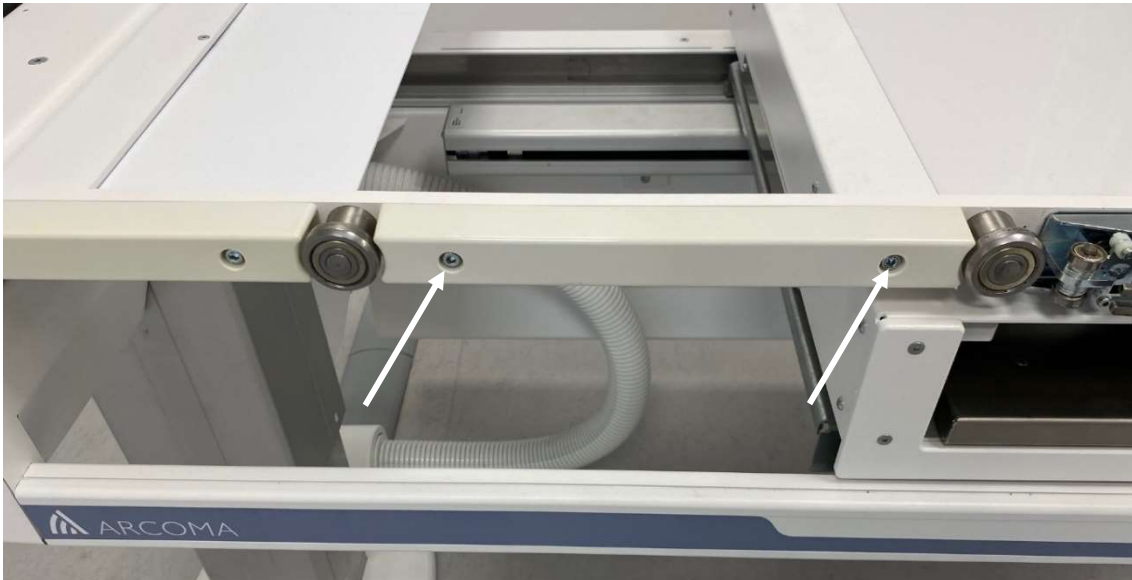
6. Release brakes and push the tabletop aside. Slide it off the table and place it upside down on a clean surface to avoid scratches.



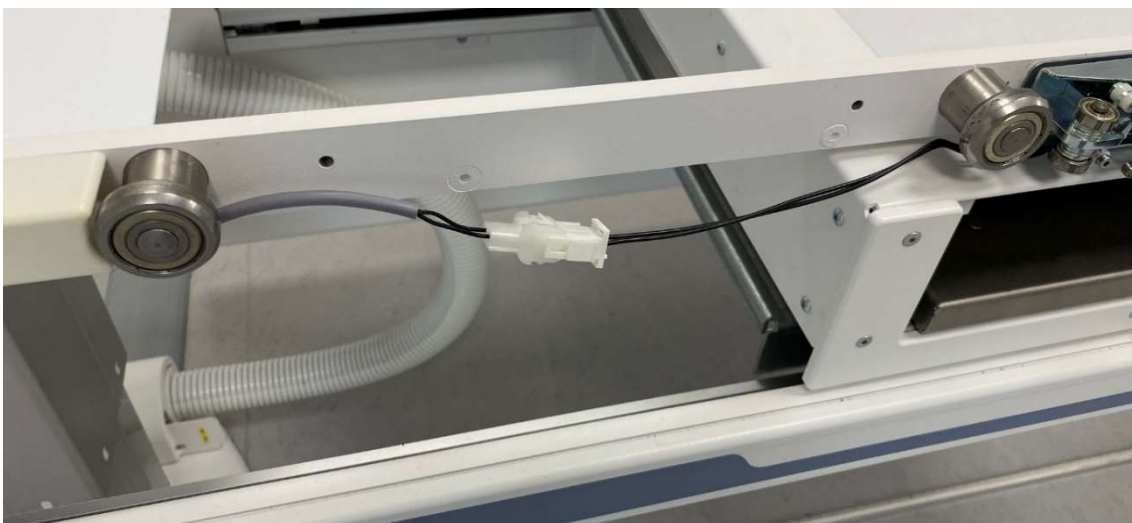
7. Turn the system OFF from the generator mini console.



8. Release the two (2) screws and remove the pinch guard cover. Keep it for later.



9. Disconnect the X-brake cable. Connector name: 2.XJ01.

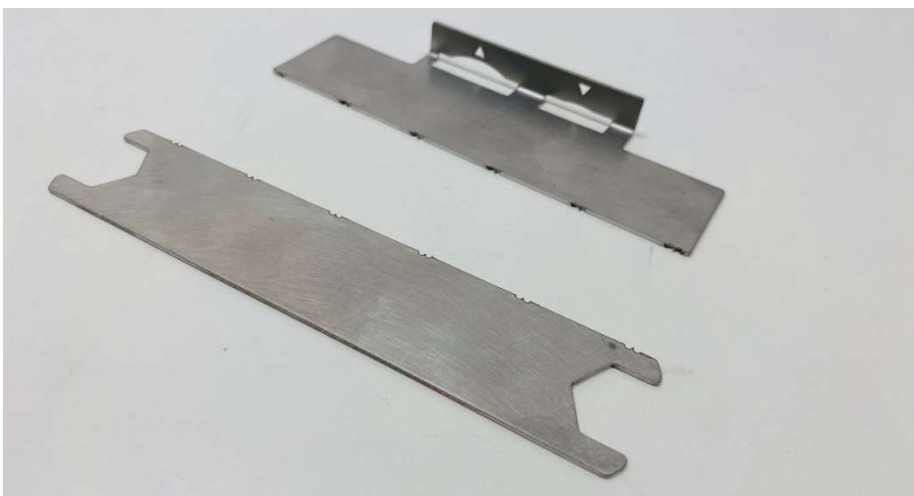
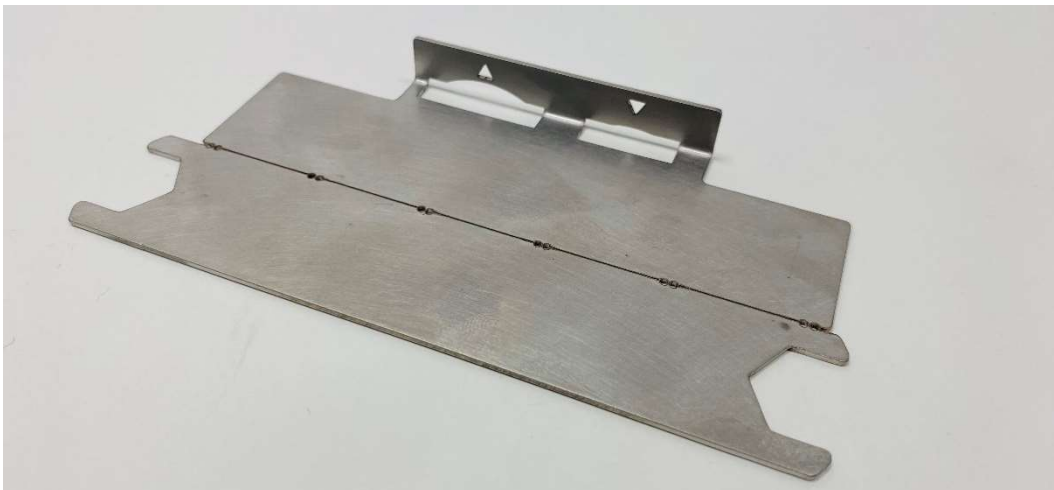


10. Release the two (2) screws to remove the X-brake units and shims. They will not be used anymore. NOTE! Be careful with the cable between the two units.



Clean the area behind the brakes from any debris.

11. The tool p/n 0055-003-573 from the upgrade kit can be separated and used as wrench as well as measuring gauge.



12. Use the wrench section of tool p/n 0055-003-573 to remove the two (2) bearings that is mounted on each side of the X-brakes. They will not be used anymore.

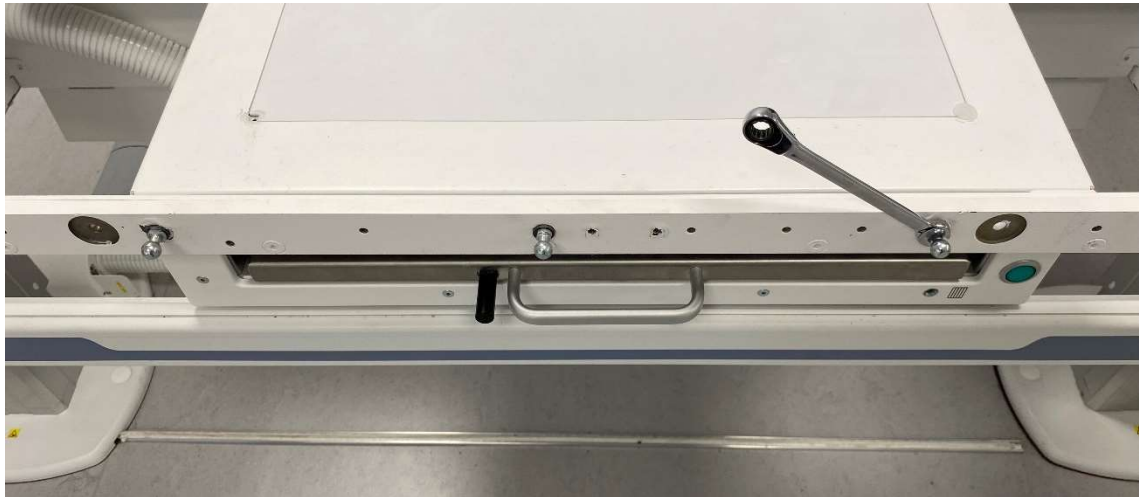


Brakes and bearings removed

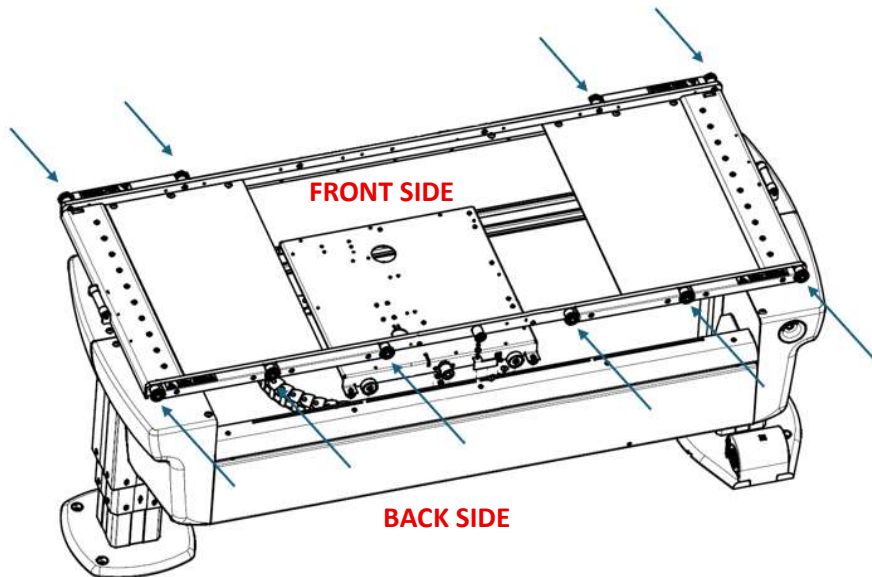
13. Release the two (2) screws and remove the pinch guard cover. It will not be used anymore.



14. Mount the shafts for the new X-brake unit.



15. Replace the ten (10) distance pieces for shorter ones (17,25mm instead of 18,75mm) from the upgrade kit.



The ten distance pieces to replace.

The bearings are eccentric and their height can be adjusted.



The bearings in the four corners of the table should be adjusted as low as possible. All other bearings in its highest position.

Bearings are often marked in its highest position. Use these markings or make your own.

The position can also be determined by checking actual height as the eccentric is rotated.



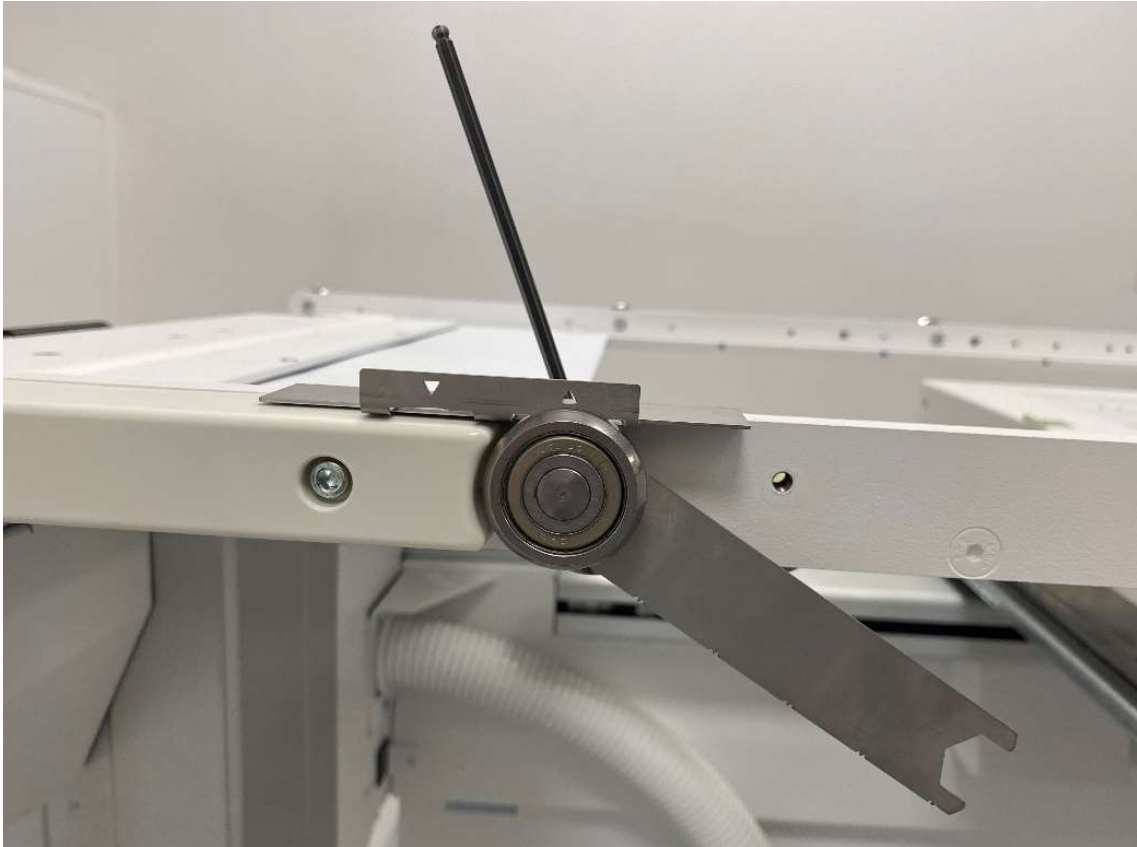
16. Use the wrench section of tool p/n 0055-003-573 from the upgrade kit to adjust the eccentric bearings. Use the measuring gauge section of the tool to find correct height. With the measuring gauge resting on the table frame. Adjust the eccentric bearings to close the gap between the measuring gauge and the bearing. See pictures below.

Incorrectly adjusted bearings could cause problems later so be careful with this step.

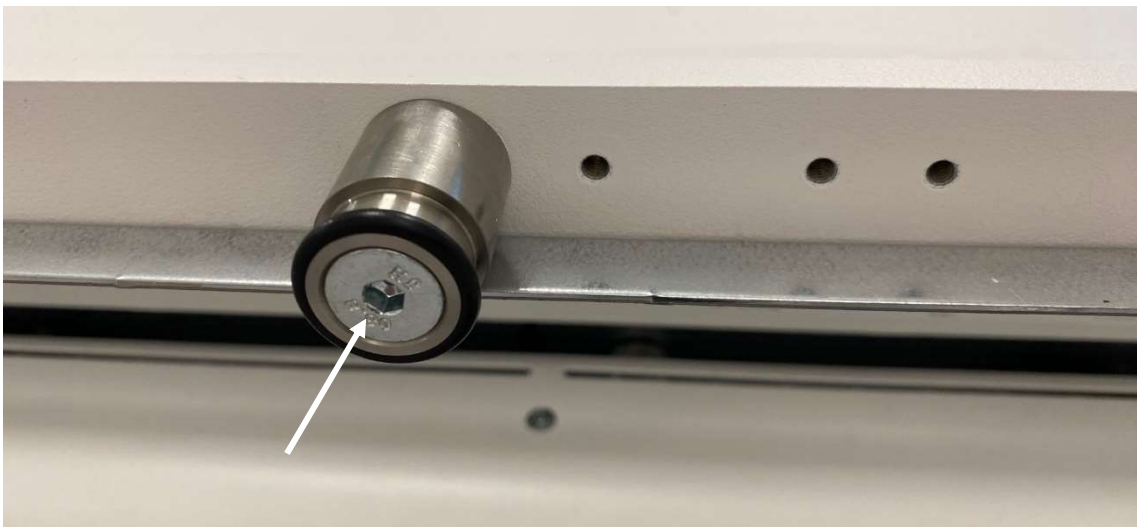


NOTE!

- The corner bearings should be adjusted to its lowest position.
- All other bearings are adjusted to its highest position.



17. Release the screw for the Mechanical endstop and remove it. It will not be used anymore.



18. Mount the new, shorter endstop from the upgrade kit using the original screw.

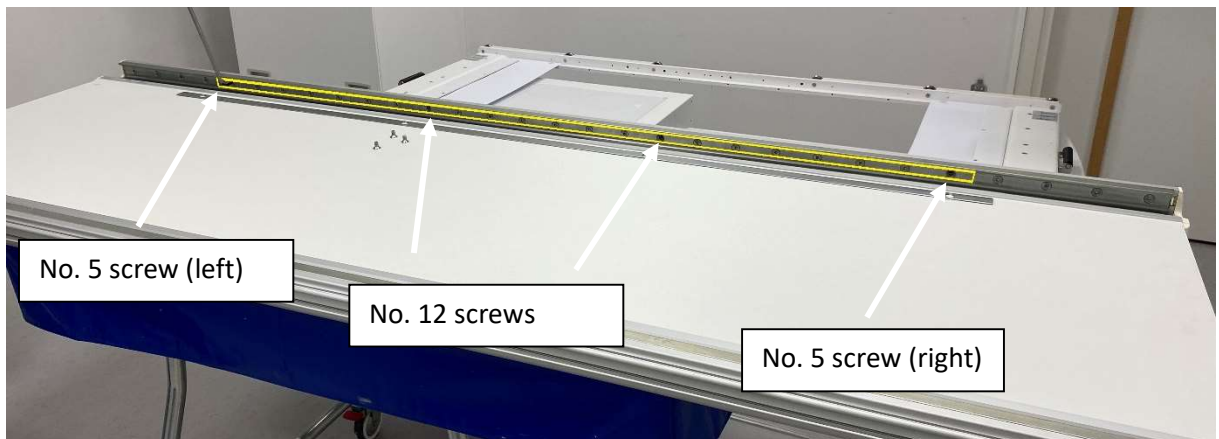
19. Release and remove the no. 5 and the no. 12 screws from each side of the tabletop front rail. See picture under step 18. Keep the screws for the next steps.

NOTE! The screws may be very tight. A fresh 5mm Allen key, p/n 97-210 and an extender p/n 0055-003-574 is available in the upgrade kit if needed.



Extender p/n 0055-003-574 can be used to release screws.

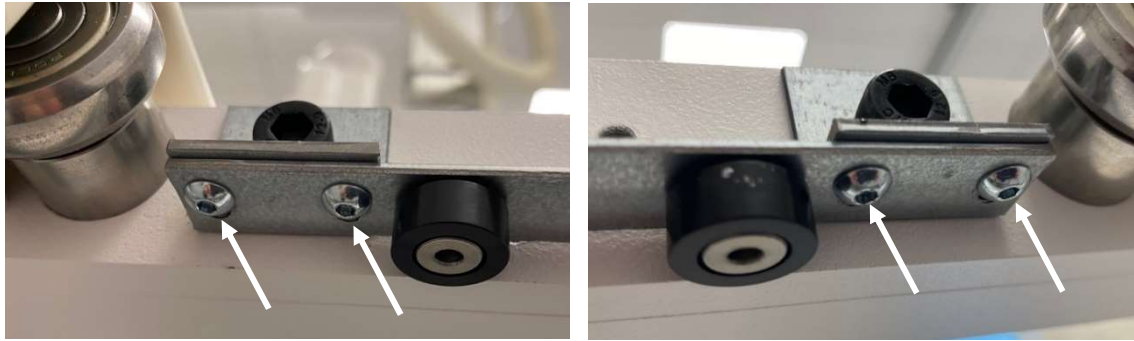
20. Position the brake plate from the upgrade kit into the tabletop front rail.



Secure the brake plate using the original screws.



21. Release the four (4) screws for the lateral support rail and push it firmly towards the frame. Re-tighten the screws in the innermost position. Do not remove the support rail. It will act as pinch guard.



22. Slide on the table top and ensure that it runs nice and smooth in the X-direction. If any abnormal noise or or heavy movement is present, it should be fixed before the next steps.

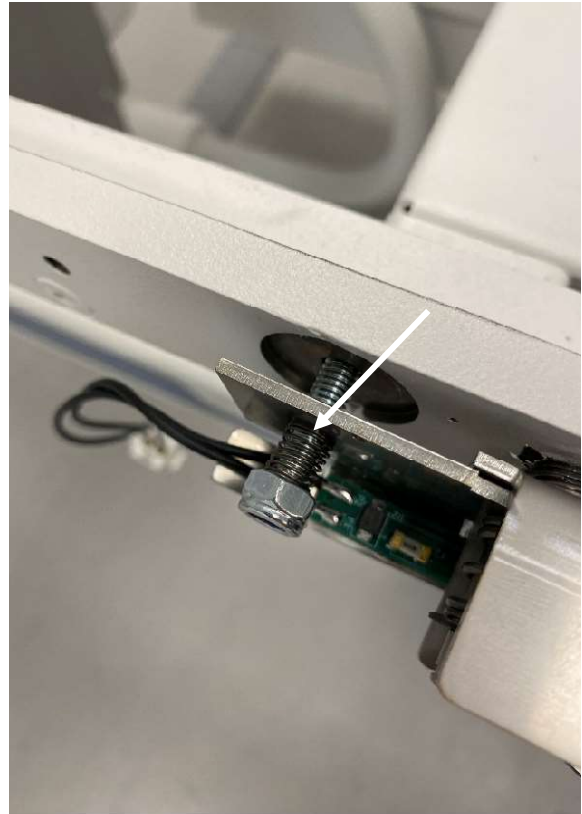
23. Remove the table top again to gain acces to the X-brake area.

24. Mount springs from the upgrade kit to the brake shafts.



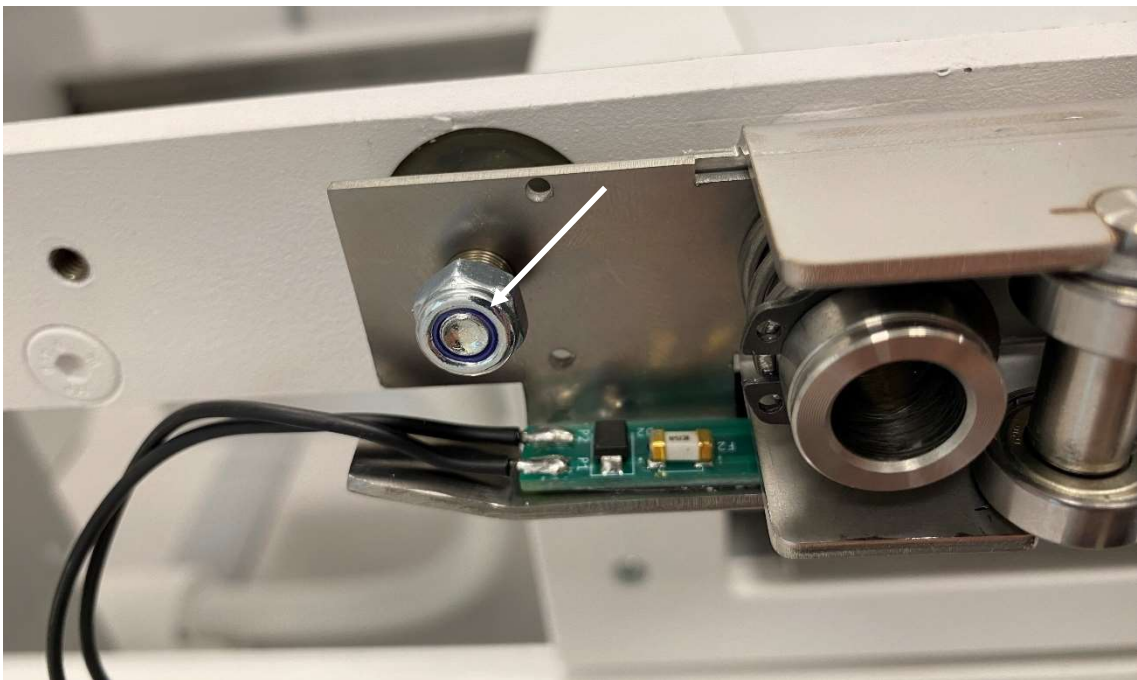
25. Position the new X-brake unit on the shafts and secure it with the two (2) sets of MF6S M6x30A screws and M6 NYLOC nuts from the upgrade kit.

NOTE! The brake unit must be held firmly in place while the screws are mounted.



The MF6S M6x30 A screw is inserted from the inside of the frame through the hole in the brake unit. Then attach the spring and NYLOC nut.

26. Tighten the screw until it is flush with the NYLOC nut.



27. Re-connect the X-brake cable. Connector name: 2.XJ01.



28. Re-mount the pinch guard cover. Secure it with the two (2) screws. Be careful not to squeeze the cable and connector.



29. Mount the new pinch guard cover from the upgrade kit. Secure it with the two (2) enclosed MC6S M5x30 A screws.



30. Turn the system ON from the generator mini console.



New X-brake mounted – System started.

31. Push the tabletop back towards its center position. Use your hand to push the brake unit towards the frame as the tabletop slides over the brake.

NOTE! Once the table top covers the new brake, the brake release button on a hand control or foot control must be pressed to continue table top movement.



32. Re-mount the mechanical endstops, using the original screws, on both sides of the tabletop.



33. Press the brake release button, move the table top in the X-direction and confirm that it runs nice and smooth. Also check for abnormal noise.

34. Check and confirm appropriate brake force in X-direction.

35. Test the system and confirm that it works as expected.

END OF DOCUMENT