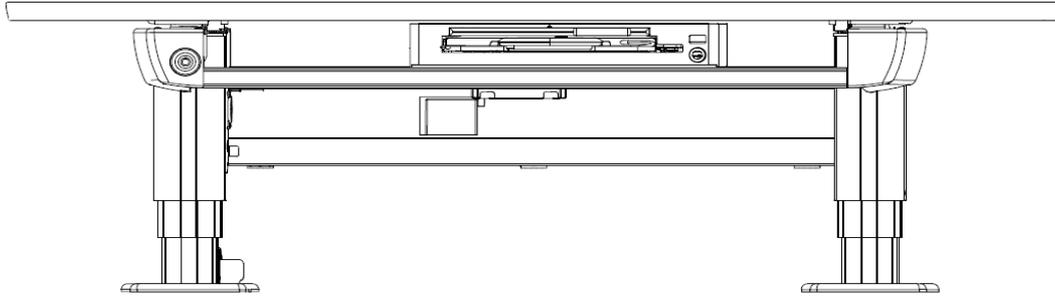


MECHANICAL ISSUES WITH FLOATING TABLE TOP

APPLICABLE TO: All systems using the two column table:



ERROR MESSAGES: No error message

INFORMATION: This instruction covers how to find the most common root causes when having mechanical issues with movement of the floating table top.

HOW THE AFFECTED FUNCTIONALITY IN THE SYSTEM SHOULD WORK:

When releasing the electromagnetic brakes for floating table top it is easy to move it in both X and Y direction. The force needed to move it manually should not exceed 30 Nm.

SYMPTOMS OF THIS ERROR:

Symptoms of mechanical issues may differ and result in different issues such as:

- Brakes not releasing enough or at all (more than 30 Nm force needed)
- Brakes not locking table top appropriately in idle mode
- Floating movement in X/Y direction is too heavy

POSSIBLE CAUSES:

- Incorrect mechanical adjustment of table top
- Incorrect mechanical adjustment of bracket
- Brakes and guides not adjusted correctly
- End stop mounted incorrectly

ACTION STEPS:

Follow all instructions stated on next pages, from step 1 to 13

TABLE TOP:

1. Check the table top for possible damage from collisions or similar that could explain deteriorating function.
2. Confirm that the table top is plane and does not come in contact with table frame or its *support rollers* at normal load.
3. Confirm that all *distance bearings* except the four corner ones, is adjusted in its **highest** position. The bearings are excentric and can be adjusted using the tool that was part of the delivery. The corner bearings are normally mounted in its **lowest** position but may sometimes be raised to prevent noise when moving the table top towards the end positions.
4. All distance bearings must be firmly mounted. If they become detached it could cause movement issues. Tighten with 10Nm.
5. Confirm that the table top is positioned so that the distance bearings perfectly fits the tracks of the table top. If it's not; see step 6.

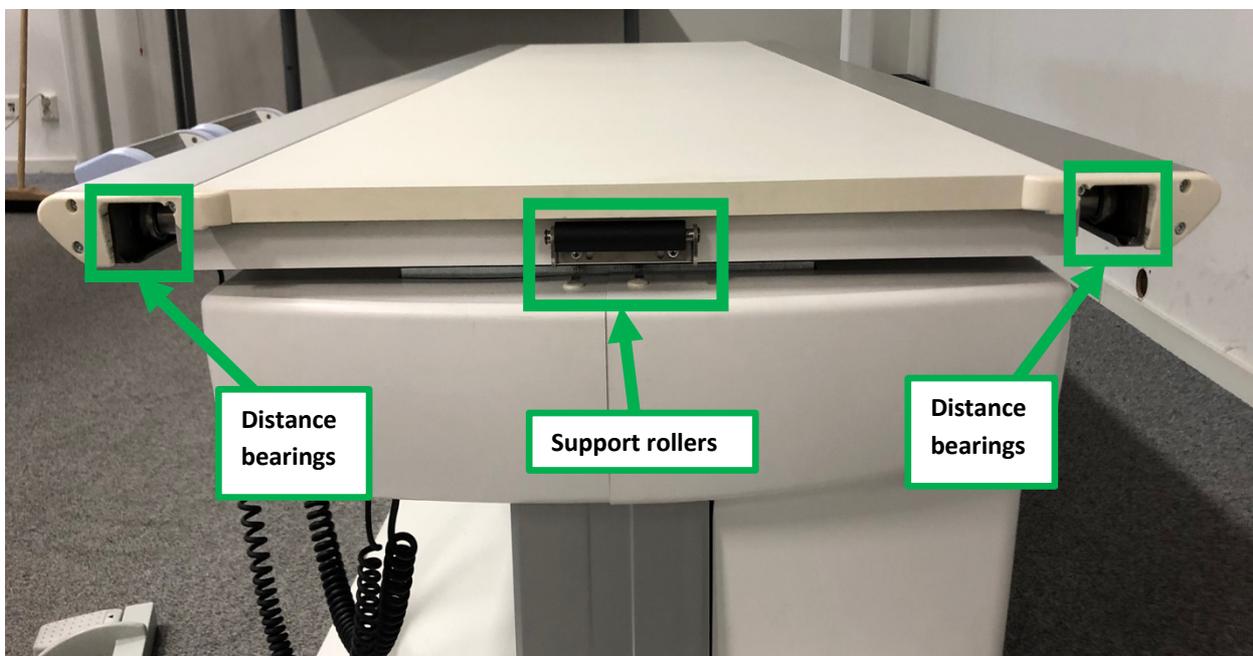


TABLE TOP GUIDANCE BRACKET:

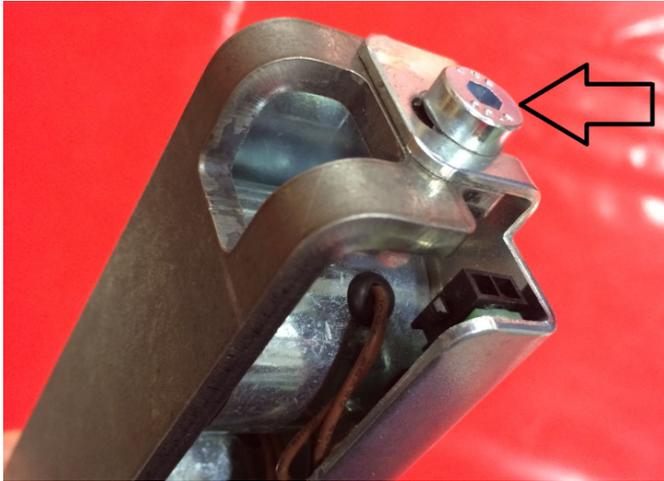
6. The table top is held in position by the bracket in the picture below. Release the screws for the bracket to adjust the position of the table top. Place the table top in the track center and reattach screws.
NOTE! This procedure is done with table top brakes released (or removed).



7. The black wheels must be adjusted so that they are easily turned by hand. If adjusted too tight the table top will not run smoothly.

BRAKES:

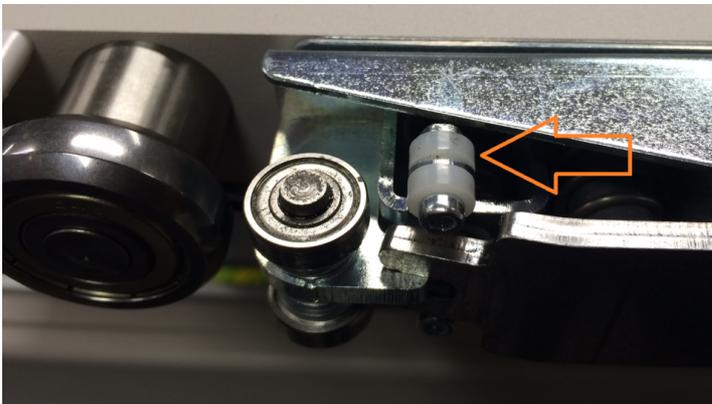
8. Check table top brakes for visible damage.
9. All brakes should release consistently when the foot control or handle button is pressed. If the X-brakes doesn't release the reason could be that the distance between anchor and magnets are too large. In that case, add shims to decrease the distance (see step 12).



- a. Brake plate can be adjusted in relation to the magnets:
 - i. Activate the brake
 - ii. Loosen the screw in the photo to the left.
 - iii. The activated magnets will pull the plate home.
 - iv. Using new Loctite 243, re-tighten the screw.

BRAKES GUIDE WHEELS:

10. The small white plastic wheels must rotate easily. If stuck, table top can be harder to move:



END STOPS:

11. End stop rubber is mechanically adjusted to move clear inside table top. Confirm that the rubber piece is correctly mounted and not turned:



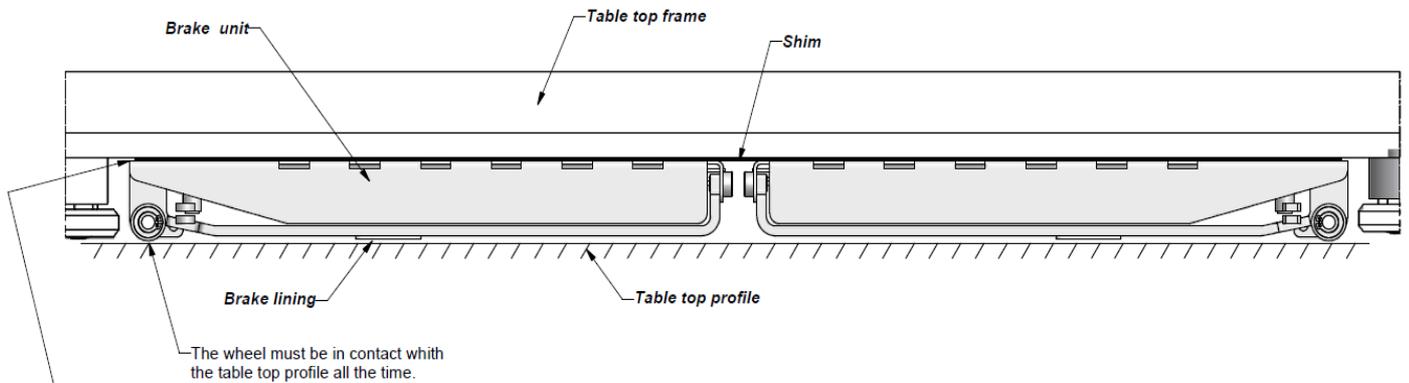
The flat surfaces should point upwards and downwards.

ADJUSTING BRAKES:

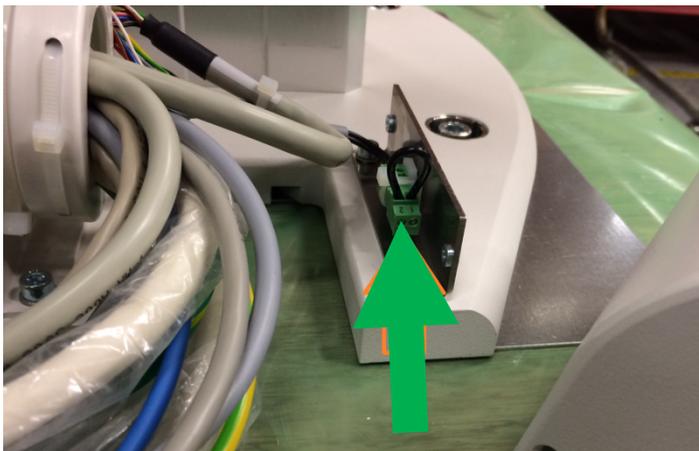
12. Brake position is adjusted using shims (delivered with table).

Use as many shims as possible without causing the brakes to touch the table top when released.

NOTE! Adjustment is preferably done with brakes activated. They can be permanently activated during the adjustment procedure with a wire jumper at the connector on table foot (see below).



When the distance between the brake unit and the table top profile is correct the spring underneath the brake unit will lift up the unit and a small gap will appear (approximately 1 mm) this will ensure the brake to work correctly.



Inserting a jumper in this two pin connector will keep the brakes released for easier handling during adjustment procedure.

ADJUSTING BRAKES (continued):

13. On rare occasions grinding the friction rubber of the brake can be necessary. If the correct number of shims cannot be obtained the reason can be that the friction pad and the table top profile aren't perfectly aligned. This could show as visible signs of wear on only part of the friction pad. In this situation grinding the friction pad in the correct angle can improve the alignment.

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