Aligning the ThermoFlex Wide II Table

Product

Kodak® ThermoFlex® Wide II

Component Table

Background

The ThermoFlex Wide II table needs periodic alignment to maintain smooth and precise movement. Perform this procedure to realign the device table if:

- The table doesn't close evenly on both sides. This can cause interlock errors.
- The table binds either on the left or right side.
- You experience intermittent plate length problems.

Before you begin

Check to make sure that:

- The device engine and chassis are level.
- The drum is installed.
- The top front cover is down
- The table is open.

Procedure

1. Ensure that the top front cover is aligned correctly. It may be necessary to perform the *Pivot Adjustment Procedure* (http://techplanet.creo.com/output/computer_to_plate/thermoflex_II/content/docs/SLV_pivot_adjustment.pdf) on the TechPlanet procedures page.
2. Ensure that the table is not significantly bowed, twisted, or damaged.
3. Ensure that the table flap (252-00967A) is straight and on the same plane as the table surface.

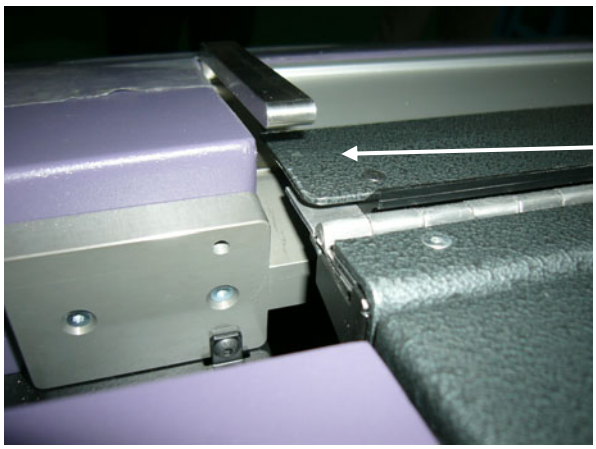
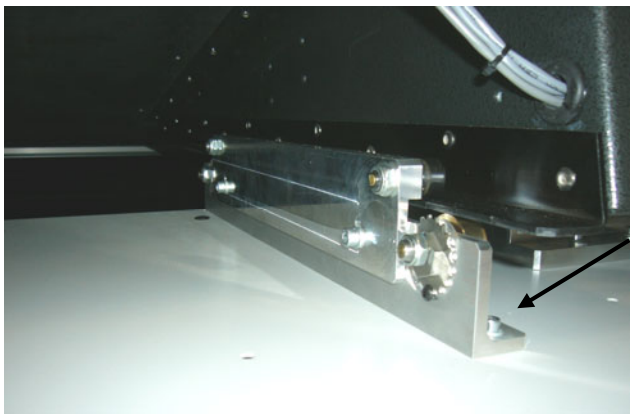
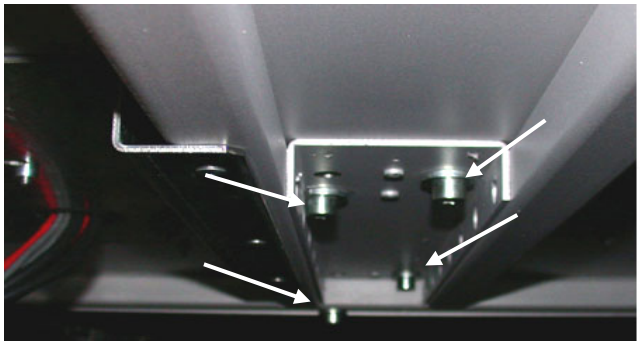


Table flap

4. Loosen all adjustable features and back off the three bumpers as shown in the following photos.

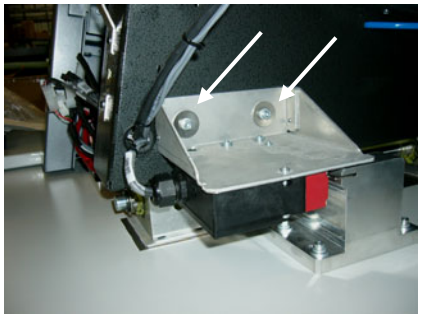


Four M5 right side screws holding the table bracket to the top of the device.

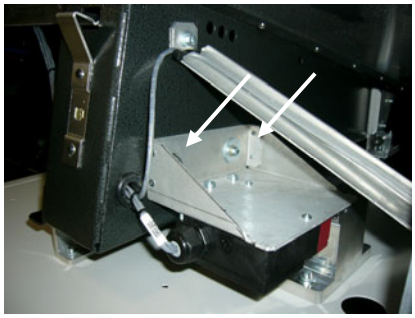


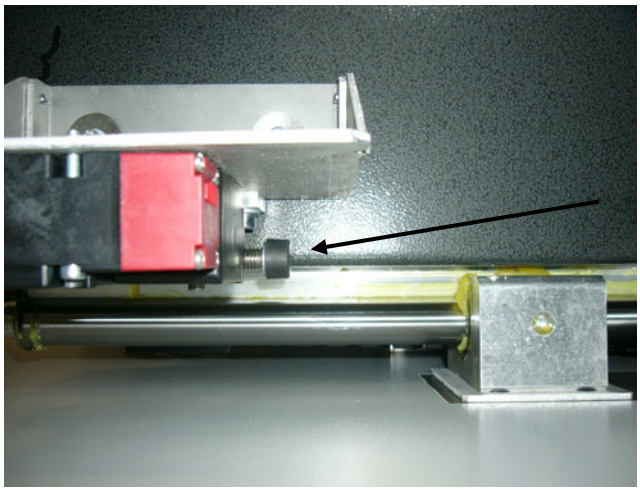
Loosen the left side table bracket screws from the bottom.

Four table adjustment bolts



Two left and two right interlock bracket screws





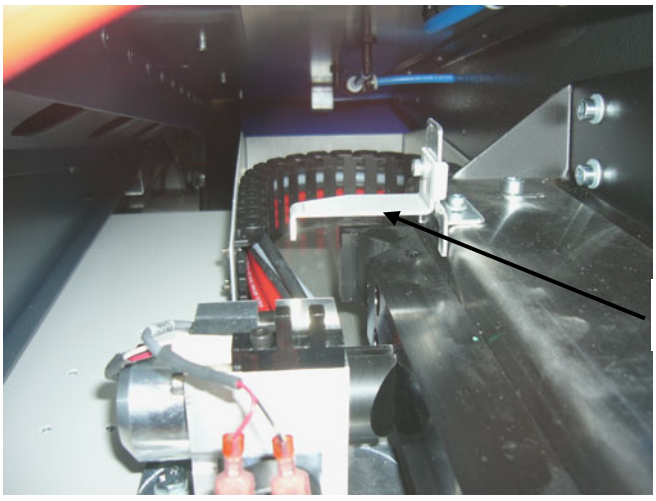
Both the left and right table interlock brackets have bumpers to set the table closed position.



Loosen off the left and right front bumper screws



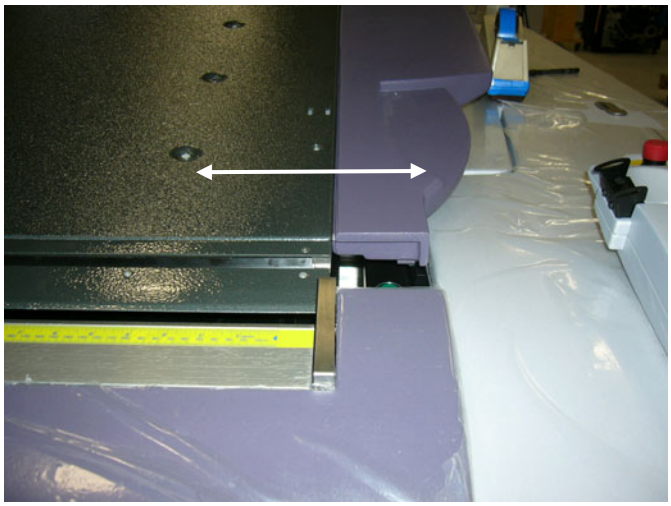
5. Remove the optical sensor tab (252-00081A).



Sensor tab

6. Close the table so that there is no gap between the table flap and the ledge strip (58-0213A).

7. Center the table side to side so that the gaps between the top front panel and the top panels are even.

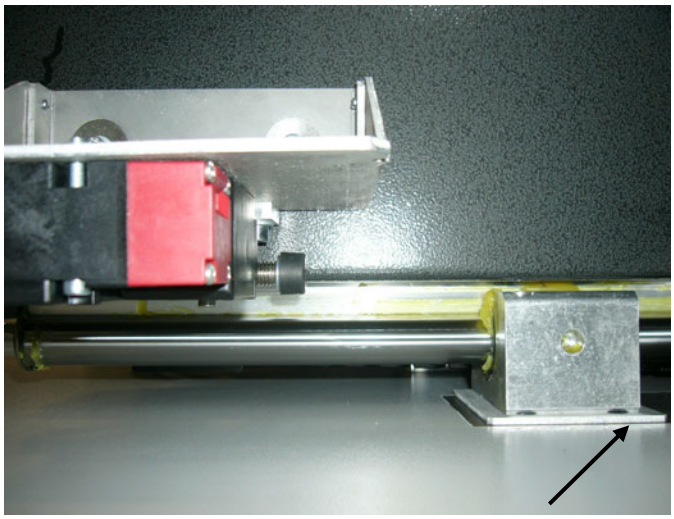


8. Check the height alignment of the table front edge to the top front cover:
   - The table flap and the ledge strip must meet.
   - The flap must not drag on the ledge strip.
   - The flap should also be centered between the table hinge badgers (252-00134A).

   If adjustment is necessary, go to the next step.

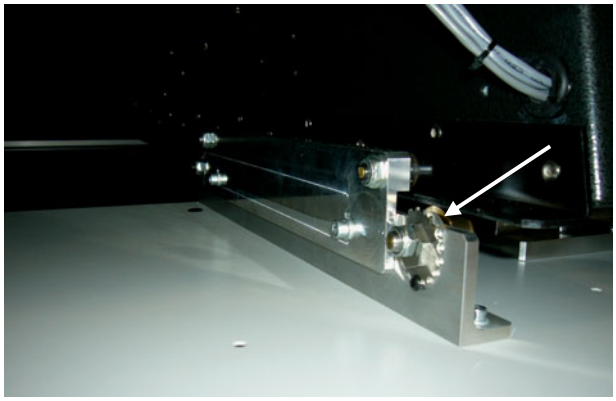
   If no adjustment is needed, go to step 11

9. On the right side of the device (as seen from the device front), add or remove the shims (252-00452A) between the bearing blocks (58-0404A) and the top front panel to adjust the height.



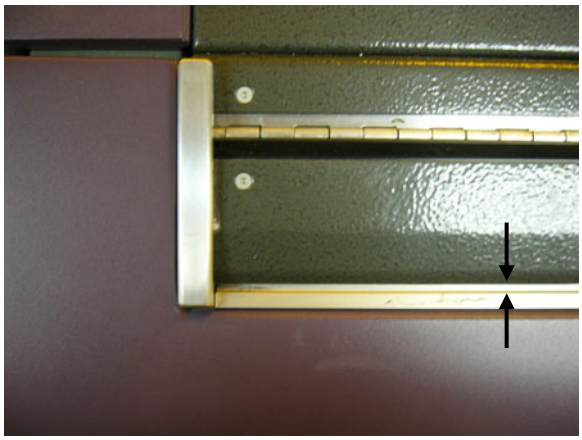
   a. Ensure that the two bearing blocks remain level with one another and level to the chassis
   b. Make sure that there is a minimum of 3 mm (.12 in.) between the table support strut and the top panel.
   c. Torque the nearing screws to 60 Nm.

10. On the left side of the device, adjust the height and pitch with the eccentric nuts that position the lower cam followers.
    a. Check that the upper cam follower bracket (58-0407A) is loose.



    b. Remove the M4 screws that lock the sprocket-shaped locking clamp.
    c. Turn the locking clamp left or right to adjust the table to the correct height.
    d. Ensure that the rail is level to the chassis and that there is a minimum of 3 mm (.12 in.) between the table support strut and the top panel.
    e. Insert and tighten the M4 screws to lock this position.
    f. Push down the upper cam follower bracket (58-0407A) and tighten the two screws to 12 Nm.

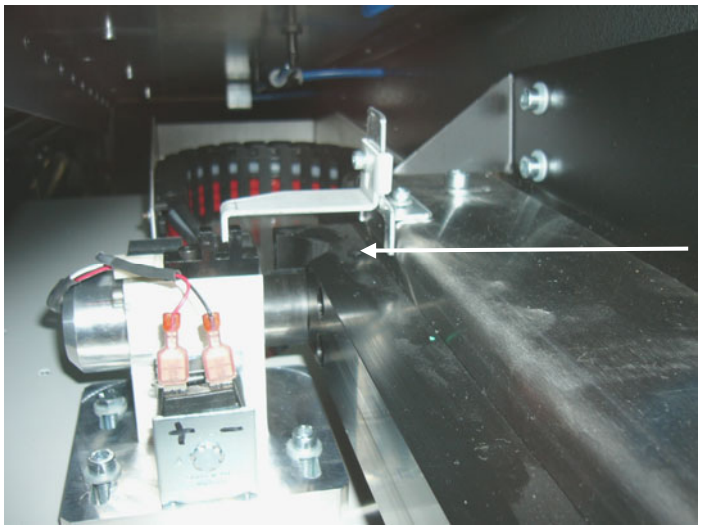
       You may have to open the table so that both front and rear bearings are fully loaded.
11. Adjust the left and right Omron key blocks (58-0512A) and Omron switch brackets (58-0522A) so that:
    - The key shoulder (59-3450) makes contact with the plastic Omron switch housing (15-3334)
    - The keys and switches are aligned with one another.
12. Tighten the key block screws and the switch brackets.
13. Turn and adjust the left and right front bumpers so that they push the table away from the ledge strip to create a 2 to 3-mm (.08 to .12-in.) gap between the table flap and the ledge strip.



Ensure this gap is 3 mm (.12 in.) at both sides of the table

14. Lock the bumpers by tightening the clamping screws on the bumper blocks.
15. When the alignment of the table in the closed position is complete, open the table.

16. Set the detent housing (252-00037A) so that the detent pin (252-00083A) is centered in the forward notch of the detent block (252-00079A), and then tighten the screws.



Detent pin centered in detent block

17. Adjust the detent block side to side so that the detent pin extends fully but still makes contact when in the forward notch of the detent block.

    If the detent pin is not allowed to extend fully it will cause the locking solenoid to jamb in the locked position.

18. Ensure that the detent block is parallel to the direction of table travel within 2 mm (.08 in.) and then tighten the screws to lock down this assembly.

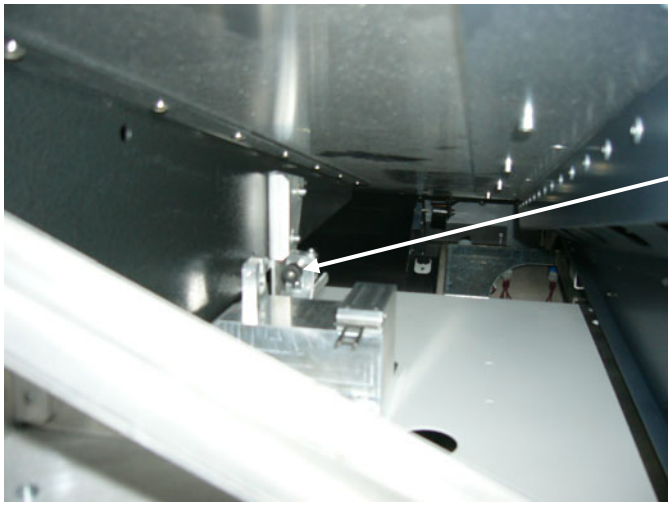
19. Open the table carefully and check the position of the detent block so that it depresses the detent pin a maximum of 4 mm (.16 in.). Repeat step 17 and 18 if necessary.

    Note: Add a small amount of NSK grease to the tip of the detent pin to make the table move more smoothly.

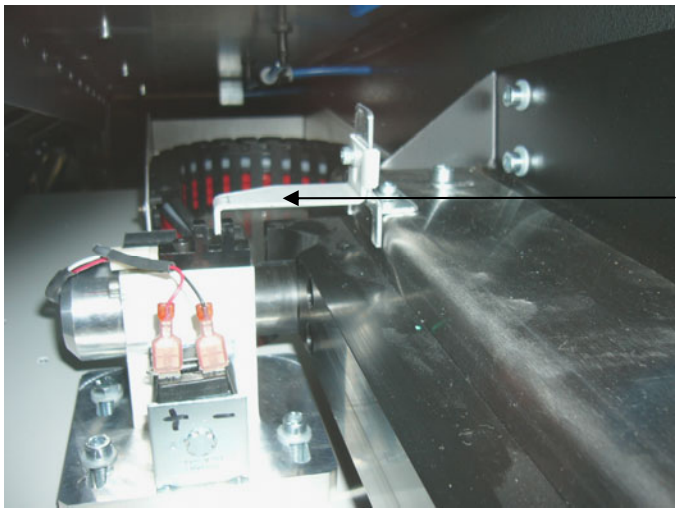
    It is normal for the detent pin to contact the detent block at the slope of the chamfer.

20. Adjust the left rear bumper assembly (58-0528) height so that the bumper (58-0525A) centers on the back face of the left Omron key block (58-0512A), and does not make contact with the top panel.

    Extend the bumper to 30 mm (1.19 in.) length and tighten the clamping screw to lock it in place.



21. Install and adjust the optical sensor tab so that it is centered in the sensor:



22. Perform the following checks on the table:

    - Ensure that the table operates smoothly.
    - Make sure there is a 2 to 3-mm (.08 to .12-in.) gap between the table flap edge and the ledge strip.
    - Make sure that the table is centered and has even gaps at the adjoining top front cover and upper panels.
    - Ensure that there is detectable push towards the front as the detent drives the table to its closed position.
    - In the open position, make sure that the detent locks the table and that the optical sensor tab is in the middle of the sensor.

- When opening and closing the table at a normal operational rate, check that the three bumpers are absorbing the force and that the Omron key shoulders are not colliding with the two plastic Omron switch housings.
- Check that no damage is occurring at the table flap and ledge strip interfaces.

23. Close the table and all the panels.
24. Load a plate.
25. Check the plate length sensor alignment. If necessary, align the sensor using **`>>set mh LEtoSensor`**.

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