FCO 512-00314A Replacing the tail gripper springs

Document number: 719-00571A Rev A

Release date: 17 Jan 2006

Applies to

Lotem® 800

Lotem 800 II

Lotem 800 Quantum

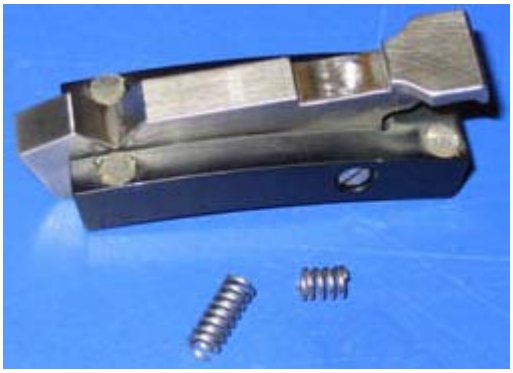
Lotem Quantum Spectrum

Priority: Next visit

Component: Tail gripper spring

Problem:

- The tail gripper springs break after approximately 120,000 plates have passed through the loading and unloading sequences.



- Plates intermittently fly off drum.
- The tail grippers are not always in their correct position.
- The tail grippers move too freely within their allocated slots.

Solution:

Replace the tail gripper springs.

Time required: 4½ hours

Parts included in FCO:

Part Number	Part Name	Quantity
363A05150	SCOMP.W=.029" D=.18" L=.75" MUS	10
719-00571A	Replacing tail gripper springs document	1
651-00489A	FCO updater utility	1

Tools required:

- Loctite® 242 adhesive
- Duck® tape

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Prerequisite:

- FCO 512-00133A Replacing the tail gripper's shoulder screws

Procedure

The drum assembly consists of two registration systems:

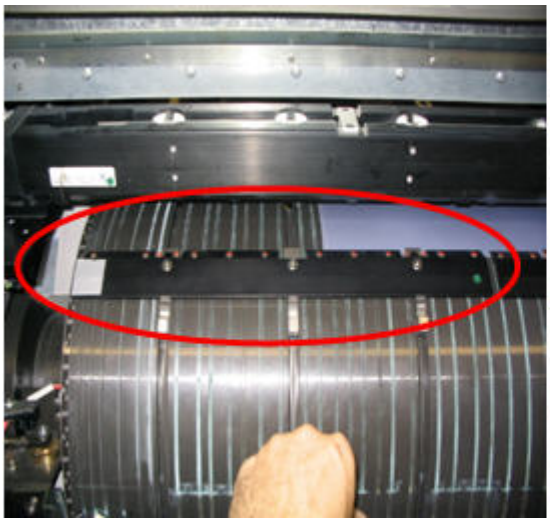
- Large-plate registration system
- Small/GTO plate size registration system

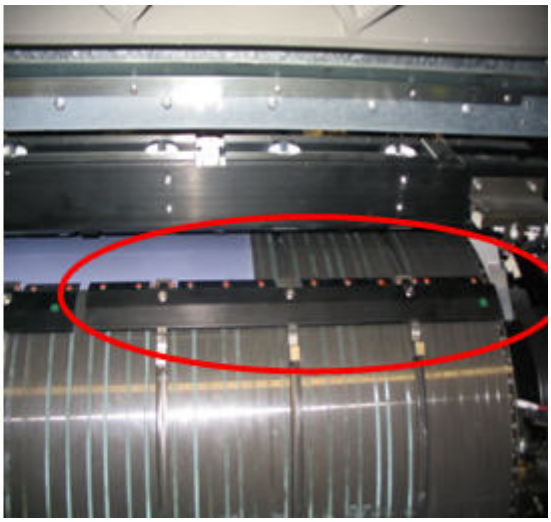
This procedure describes how to Replacing the tail gripper spring on a large plate registration system and how to Replacing the tail gripper spring on a small/GTO plate registration system.

Replacing the tail gripper spring on a large plate registration system

The drum tail spoiler assembly consists of three tail spoiler bars.

Important: When replacing the tail gripper spring on a large-plate registration system that also accommodates GTO-size plates, only remove the tail spoiler bars to the left and the right of the drum. Do not remove the tail spoiler bar in the center of the drum.

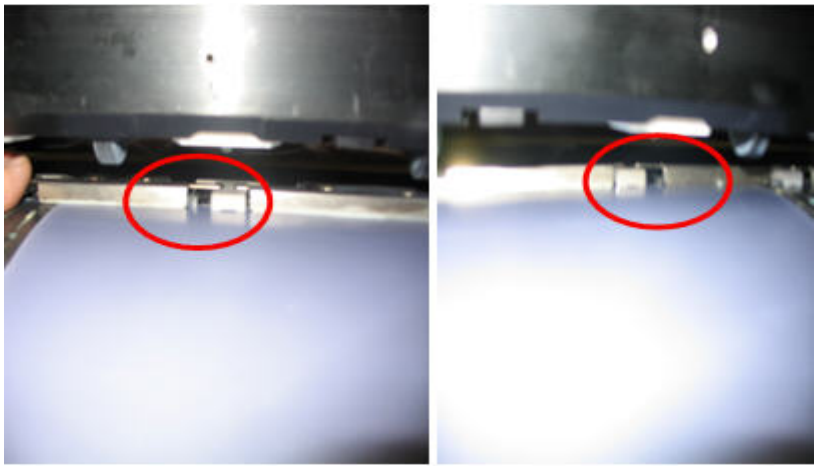




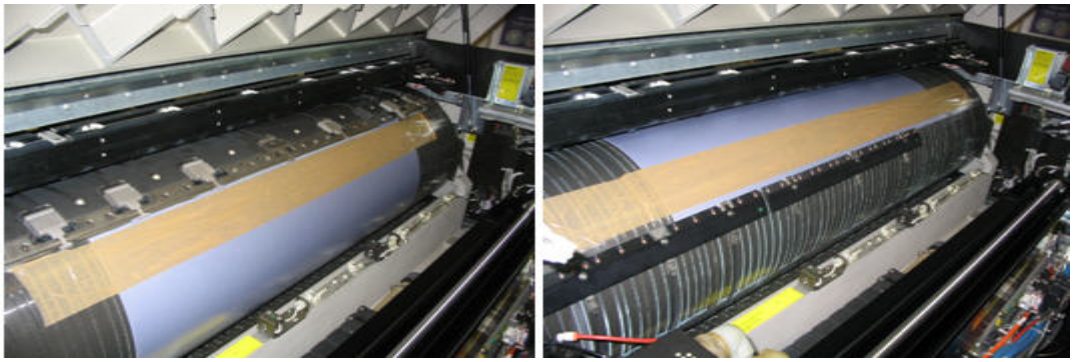
Note: When reassembling the tail and head gripper assemblies and bars, make sure to coat all screws in Loctite 242 adhesive.

1. In Lotem Controller, load a large plate onto the drum.
2. Open the platesetter's rear-top cover.
3. Remove the platesetter's upper-rear panel.

4. Remove the platesetter's unloading tray.
   Make sure that the plate touches both drum registration pins.



5. Use Duck tape to secure the plate to the drum.



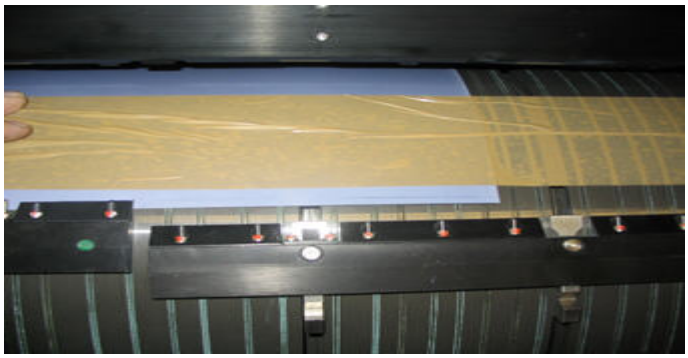
6. Use a marker to outline the tail spoiler bars' location on the plate.



The following steps describe how to remove the tail spoiler bars.
Important: Do not remove more than one tail spoiler bar at a time.

a) Remove the first tail spoiler bar.
b) Replace its spring.
c) Reinstall the tail spoiler bar.
d) Remove the second tail spoiler bar.

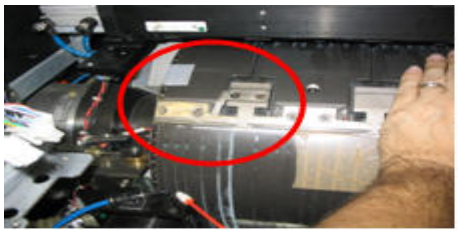
7. Press down on each of the three tail grippers to release the tail spoiler bar from the plate, and simultaneously slide the tail spoiler bar to the head gripper's groove entrance.



8. Use a hex key to remove each of the shoulder screws that secure the three grippers to the tail spoiler bar, and then extract the tail spoiler bar from the platesetter.



9. Remove the head gripper.
   - To remove the side-head gripper, you must first remove the side-head spoiler and the side- head spoiler lever.





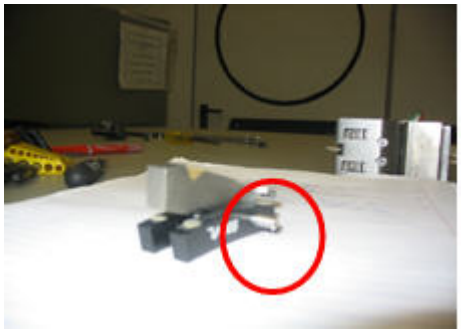
   - If the head gripper's screws are obscured by a registration pin, first remove the pin and associated head spoiler.



10. Slide each of the tail grippers' assembly into the head gripper groove, and then extract the tail gripper assembly from the drum.




11. Remove the tail gripper assembly's shoulder screw and separate the tail gripper finger from its base.




12. Replace the tail gripper assembly spring, and dispose of the old spring.
13. Reassemble the tail gripper assembly.
14. Reinstall the tail gripper assembly onto the drum:
    a) Slide the tail gripper assembly into the head gripper groove.
    b) Use the nine shoulder screws (provided with FCO 512-00133A), to reassemble the tail spoiler bar.
    c) Slide the spoiler bar back onto the plate, according to the outline marked in step 6.

15. Reinstall the head gripper assembly.



16. Reinstall the spring spoiler and registration pins onto the drum.
Important: At this stage, do not over tighten the spring spoiler screws.



17. Make sure the registration pins touch the edge of the plate and then tighten the spring spoiler screws.



18. Repeat steps 7–17 for the remaining head gripper.
19. Reinstall the unloading tray.

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Replacing the tail gripper spring on a small/GTO plate registration system

In Lotem Controller, load a small plate onto the drum, and repeat steps 4-19 of the previous procedure, as described on page 3.

Upon completion:

Verify that the image is centered on the plate.

Note:

- Fiber head platesetters: If required, perform the spiral punch calibration procedure: http://techplanet.creo.com/output/computer_to_plate/lotem800/content/proced/punch_sys/spiral.htm
- Thermal head platesetters: If required, perform GC correction: http://techplanet.creo.com/output/computer_to_plate/lotem800_th/content/procedures/calib/Matching.htm

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