FCO #512-00120A / 512-00121A
Improving the middle spring spoilers

Document number: 719-00260A Rev A

Release date: 11 Aug 2004

Applies to

- Lotem® 800
- Lotem 800 Quantum
- Lotem 800 II Family
- Lotem Quantum Spectrum
- Lotem 800 VL

Priority: Next failure

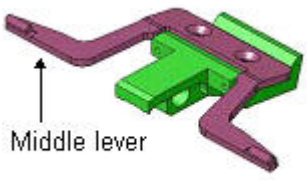
Component Middle spring spoilers

Problem

- During the unloading sequence, the gripper actuator pins that press down on the head grippers, fail to make the spoilers rise high enough above the drum to successfully unload a plate.
- The existing middle spring spoilers are not durable enough. The spoilers weaken with usage and occasionally bend at the edges.

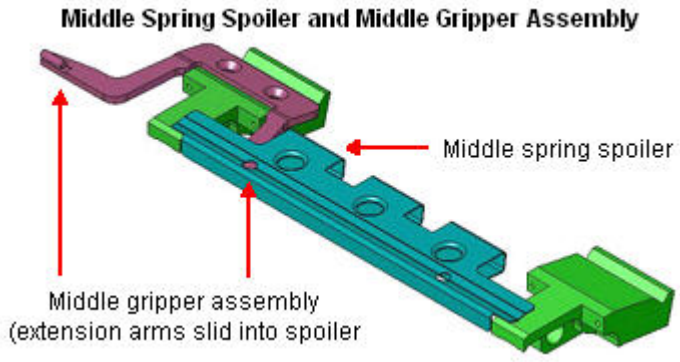
Solution

1. Install a new design of middle lever with extended arms. This offers the following advantages:
   - Middle lever's extended arms help to strengthen the spoilers, increase their durability, and prevent them from bending at the edges.
   - New middle lever ensures that the two spoilers either side of it are raised to an equal height.
   - New middle lever reduces the risk of sinking spoilers.



Middle Gripper Assembly

2. Install modified spoilers on Lotem Quantum platesetters. (Not applicable to fiber head platesetters.) This offers the following advantages:
   - New spoiler design is more durable and less pliable.
   - During the unloading sequence, the new spoilers and middle lever ensure that there is a sufficient and constant gap between the drum and the spoilers' edge.



Important: The new, modified spoilers are not compatible with fiber head platesetters; however, the new middle lever can be installed on either a fiber head or a Quantum platesetter.

Time required 2 hours

Parts included in FCO

Fiber head platesetters
Order FCO 512-00120A (excludes new middle spring spoilers)

Part Number	Description	Quantity
252-05086A	Middle lever for middle spring spoiler	1
380G05040	PHIL FLT HD STST 8-32*3/8"	4
507A3E402	Side head gripper assembly	1
719-00260A	FCO document	1

Quantum platesetters
Order FCO 512-00121A (includes new middle spring spoilers)

Part Number	Description	Quantity
252-05086A	Middle lever for middle spring spoiler	1
252-05185A	Middle spring spoiler Lotem 800 Quantum	2
380G05041	PHIL FLT HD STST 8-32*3/8"	4
507A3E402	Side head gripper assembly	1
719-00260A	FCO document	1

See page 7 to view images of the parts.

Procedure

1. In Lotem Controller, open the rear door of the platesetter.
2. Remove the platesetter's upper rear panel.
3. To enable easy access to the drum assembly, remove the unloading tray.
4. Remove the two middle spring spoilers from the drum and any existing GTO registration pins. Make sure you remove *all* the washers and screws.

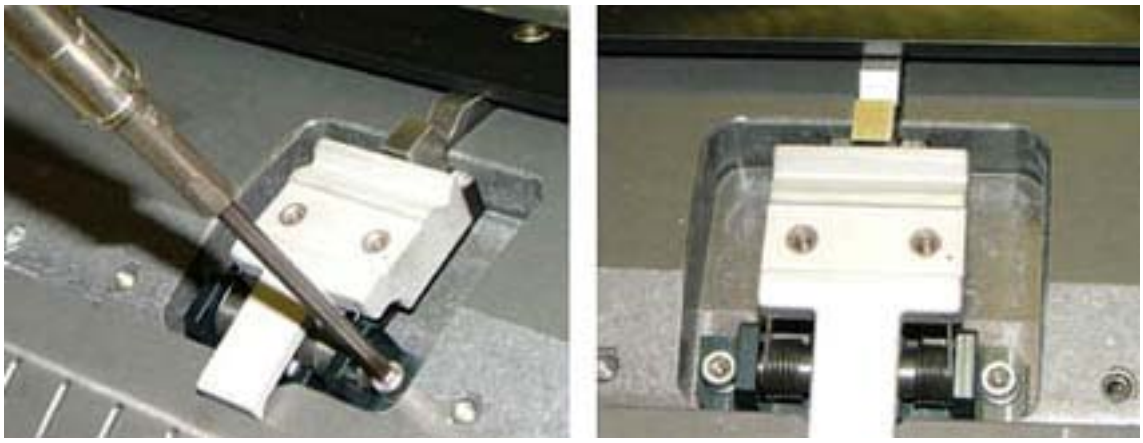


Remove middle spring spoilers and middle head gripper assembly

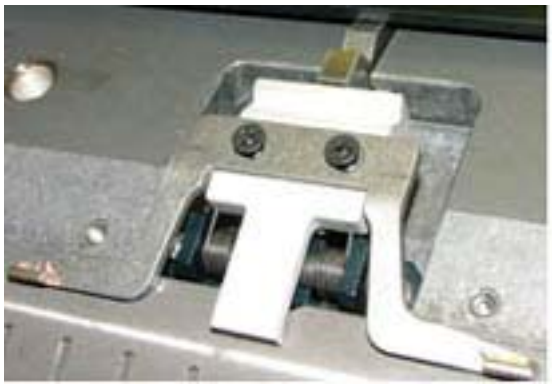
5. Use an insert bit 9/64" to remove the middle head gripper assembly.



6. Clean the drum threads with alcohol.
7. Install the new head gripper assembly (part number 507A3E402) included in this kit.
   Important: During the assembly installation, make sure to coat all the screws with Loctite® 242.



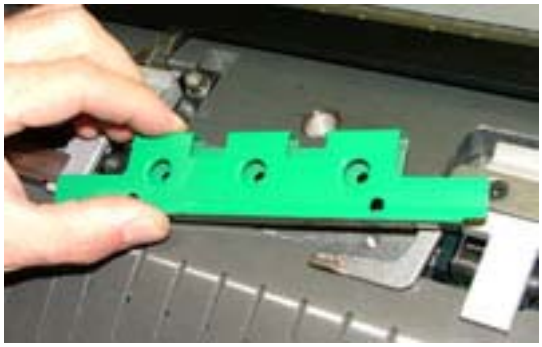
8. Install the new middle lever (part number 252-05086A). Position the middle lever onto the gripper. Use two Phillips® sunken screws (part number 380G05041) to secure the middle lever into place:




9. **Fiber head platesetters:**
Reinstall the two middle spring spoilers that were removed in step 4, and if required, reinstall the GTO registration pins.

Quantum platesetters:
Install the new type of middle spring spoilers, and if required, reinstall the GTO registration pins.
Important: The new type of middle spring spoiler is *only* compatible with Quantum platesetters.

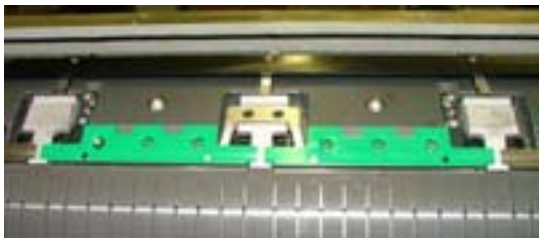
- Insert one of the middle lever's arms into one end of the middle spoiler's groove:



- With the aid of a hex key, insert the other end of the spoiler beneath the registration pin:




- Take the second middle spoiler and position it over the middle lever's second arm. With the aid of a hex key, insert the other end of the spoiler beneath the registration pin:



10. Re-attach all the washers and screws that you removed in step 4.
11. Manually rotate the drum until the head gripper is directly beneath the upper gripper actuator.
12. From the air manifold, activate the actuator pins.
13. Make sure that the two middle spring spoilers are lifted to an equal height and verify that a sufficient gap exists between the spoilers and the drum.
14. Reinstall the unloading try and the rear upper panel.

Upon completion Test the platesetter:

- Load/unload several plates with different sizes and thickness. Make sure the plates are released as soon as the head grippers open.
- Check for image to plate edge parallelism. If required, perform fine adjustment.

Logistics

Approved quantities for FCO 512-00120A:

CSC	Quantity
CAM	85
CEU	70
CAP	30
CJP	30

Schedule supplies for first lots:

FCO 512-00120A				
	Aug	Sept	Sept	Nov
CAM	10	15	35	25
CEM	10	15	25	20
CJP	5	10	15	0
CAP	5	10	15	0

Approved quantities for FCO 512-00121A:

CSC	Quantity
CAM	60
CEU	150
CAP	100
CJP	30

Schedule supplies for first lots:

FCO 512-00121A				
	Aug	Sept	Sept	Nov
CAM	5	10	25	20
CEM	10	20	60	60
CJP	5	15	40	40
CAP	5	10	10	5

Lead time: 6 weeks

Material disposition

Quantum platesetters: Dispose of the old middle spoilers.

FCO #512-00120A / 512-00121A

Images of part numbers



Part number: 252-05086A



Part number: 252-05185A



Part number: 380G05041



Part number: 507A3E402

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