FCO #512-00289A
Improving the tray cylinder finger on the MCU

Document number: 719-00512A-EN Rev A

Release date: 19 July 05

Applies to: MCU for Lotem® 800

Priority: Next visit

Component: Tray cylinder finger

Problem

The following problems are associated with the existing tray cylinder finger and cassette latch:

- Tray cylinder finger is too thin and is prone to fall from the latch.
- Tray cylinder finger and associated latches have no teeth and no grip.



Solution

Replace the existing tray cylinder finger and associated latches with an improved tray cylinder finger and improved latches:

- Improved tray cylinder finger is wider and T-shaped. This prevents it from falling from the latch.
- Improved tray cylinder finger has a larger contact area.
- Improved tray cylinder finger and associated latches have teeth to increase their grip.



Time required One hour

Parts included in FCO

Part Name	Part Number	Quantity
Finger, cassette, LTM800, MCU	290A6B773A	1
Fork, cassette, LTM800, MCU	290B4A771A	5
Spring L/W STST. #10	382D14000	2
Carton box 165 X 120 X 60	391A70210	1
FCO Updater diskette	651-00363A	1
FCO document	719-00512A-EN Rev A	1

Procedure

1. Remove the following:
   - Right middle cover.
   - Right rear side cover.
   - Tray cylinder EP detector access window from the tunnel right side.
   - MCU top covers.
2. **Press on the Emergency stop button.**
3. Use a hex key to remove the two screws securing the tray cylinder finger to the tray cylinder arm. Put the screws to one side and dispose of the tray cylinder finger:



4. Use a hex key, and the two ¼" screws to secure the improved tray cylinder finger to the tray cylinder arm. Apply Locktite® 242 onto the threads of the screws:

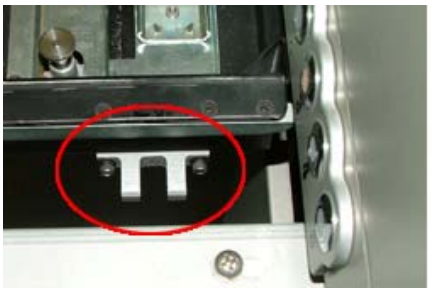


5. Release the emergency stop button (pressed in step 2), and then push the MCU reset button to close the 24V line.
6. Open cassette 1:
   - Located on the user door panel are five buttons. Each button represents the five cassettes in the MCU.
   - Click **1**:



   - The light above the number flashes. This indicates that the operation is in progress.
   - When the light stops flashing, manually pull open the user door until it mechanically locks.

7. Use a marker to draw around the edges of the existing latch's position:





8. Use a hex key to remove the two screws securing the latch to the tray. Put the screws and back plate to one side and dispose of the old aluminum latch.
9. Use a hex key to secure the improved latch to the cassette:
   - Use the identifying marks (step 6) to correctly position the improved latch on the cassette tray.
   - Make sure the latch is facing the correct way. The flat top of the latch should be facing up:



   - Hold the back plate with one hand and insert the screws from the front.
   - Do not apply Loctite 242 to the screws as they may need adjusting at a later stage.
   - Only tighten the screw closest to the Lotem. The screw closest to the MCU user door should be secure but not tight:

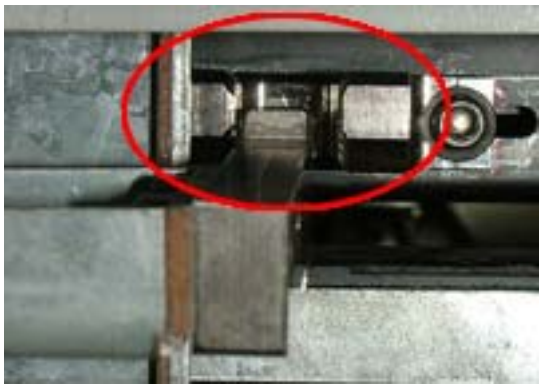


10. Manually close cassette 1.

11. Repeat steps 1-10 for the four remaining trays.
12. Manually pull the tray cylinder from the MCU to the tunnel and then check that the arm finger is not touching the tunnel rollers. If the arm finger is touching the rollers, then add shims to the back of the arm to reduce the level of the arm's front end.
13. Remove the service control box from its holder, and slowly lower the elevator until the tray cylinder finger is aligned with the latch. Press the Emergency Stop button if the latch is misaligned, and is about hit the tray cylinder finger:



14. Make sure the tray cylinder finger is centrally aligned to the latch:





15. If the tray cassette finger is not centrally aligned to the latch:
    - Undo, but do not remove, the latch screw closest to the Lotem.
    - Slightly tap the side of the latch with a screwdriver until it is centrally aligned with the tray cylinder finger.
    - Tighten the second latch screw closest to the Lotem.
16. Place the service control box back onto its holder.
17. Open cassette 1 (see step 6).
18. Tighten the screw closest to the MCU (see step 9, bullet 5).
19. Manually close cassette 1.
20. Repeat steps 17 to 19 for the remaining four cassettes.

Test

1. Move the elevator from cassette 1 user door level to cassette 5 Lotem level.
2. Make sure the tray cylinder finger is centrally aligned with all five latches on each of the cassettes. Press the Emergency Stop button if one of the latches is misaligned and is about hit the tray cylinder finger.
3. Check the tray cylinder HP/EP detection for each of the trays.
4. Check that the cassette locking pins securely lock the cassette in the Lotem.
5. Reinstall the right middle cover and the right rear side cover.
6. Run the MCU test script for approximately five minutes.

Install FCO Updater	Insert the diskette and double-click on the exe file, or download the file from TechPlanet's FCO page. For more information, see FAQ: FCO Tracker.

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Logistics

Approved quantities:

CSC	Quantity
CEM	88
CAM	20
CAP	6
CJP	23

Schedule supplies for first lots:

	CSC			
Schedule	**CEM**	**CAM**	**CAP**	**CJP**
July	30	10	6	10
August	50	10	0	13

Inventory: Order 1 kit per MCU.

Lead time: 1 month.

Material disposition

Dispose of old finger and latches.

Technical contact

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Date submitted

19 Jul 05

Last updated

19 Jul 05