Load Table Bearing Pusher Upgrade

Document number: 719-00610A-B

Product	FCO priority
• Magnus VLF CL • Magnus VLF MCU	FYI See FCO CA08918

Background

The load table and loading mechanism may have difficulty loading certain sizes of 0.008” plates perfectly into the clamps on every load. This normally results in a focus type error due to a plate bubble. This FCO describes how to replace the vacuum cup assemblies with new ones. This solution is applicable to all CL and MCU devices including the Beta devices, however, MT036 may require a special build of firmware due its other unique features. This FCO is only applicable to sites that have problems with focus errors or registration errors on plates that meet all of the following criteria:

- Thickness less than 0.0085 in. [0.216 mm]
- Plate not loaded using 4-pin registration system.
- Plates are not loaded using the center virtual center assembly.

Note: Plates with an aspect ratio similar to a portrait plate may still experience loading problems.

Time required Approximately one hour.

Parts required

Part Number	Part Name	Quantity
512-00331A	Load table bearing pusher upgrade kit	1

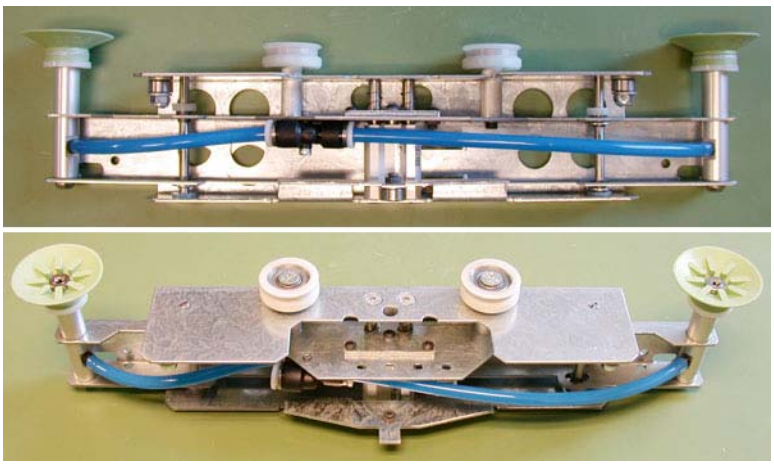


Figure 1: New virtual center bar loader assembly (vacuum cup assembly)

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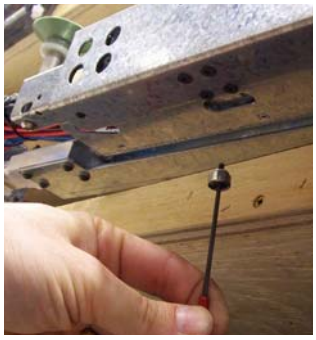
Prerequisites

- This FCO will only be installed at selected sites. Consult with the Magnus VLF PSS before implementing this FCO on any devices in the field.
- Controlled release 3.0 must be installed before implementing this FCO.

Procedure

1. Unlock the Magnus VLF output device's doors and open the front hood.
2. Remove the unload table panels.
3. Remove the five central load table rails.
4. Replace the two vacuum cup assemblies on the left and right only. See the *Load Table Pneumatic Tubing* (709-00237A) document for the correct pneumatic tube routing. Replacing the vacuum cup assemblies is best done while standing inside the device.

   a. Carefully remove the bottom screw and bearing assembly. The spacing washers are retained to the screw, but take care not lose the spacers when removing the screws.

   b. Lift and rotate the cup assembly to remove it from the traveler.




   c. Cut the cable ties that hold the 4 mm black and red air tubes to the vacuum cup assembly and disconnect the tubes from the cylinder fittings—you may need to use needle nose pliers.

d. Disconnect the 6.35 mm blue vacuum tube between the vacuum cup assembly Y-fitting and the traveler.

e. Connect the red and black tubes to the cylinder on the new virtual center assembly. Pay attention to the tube routing.

f. Use cable ties to secure the red and black tubes to the virtual center assembly vacuum cup bar.

g. Connect the blue vacuum tube to the Y-fitting on the new assembly.

h. Lower the assembly into the traveler and rotate the tab into the slot at the bottom of the wiffle bar on the traveler.

i. Insert the new bottom screw and bearing and tighten it.

5. Type >>`hwconfig tepushregistration enable`.
6. Install the load table rails and unload table panels.

Test

1. Turn the safety interlock override switch to **Interlock Override**. Load and unload several plates to familiarize yourself with how the loading now works.
2. Turn the safety interlock override switch back to **Normal Operation**.
3. Close the front hood and lock the doors.

See also	Installing Load Table Pneumatic Tubing (709-00237A)
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