

Magnus VLF

Replacing the LEC Pushpin

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Revision History

Revision	Date	Author	Comments
A	02 Sep 2005	G.Andrew	First release
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CONTENTS

Revision History i

1. Background 1

2. Parts/Tools 1

3. Procedure 1
   - 3.1 Preparation 1
   - 3.2 Disassembling the LECs 2
   - 3.3 Assembling the LECs 4
     - 3.3.1 Assembling the backbone 5
     - 3.3.2 Adjusting the LECs 6

1. BACKGROUND

The existing Magnus VLF uses a small diameter and spherical tipped pin to push the LEC open. The tolerance variation on some machines allows the plastic tip of the pin to catch on the edge of the hole that the pin fits in causing plate loading errors and other problems. This document provides the process for implementing FCO CA7638.

2. PARTS/TOOLS

- Kit: 512-00301A
- Metric hex key set
- *Backbone Upgrade for Adjustable LEC Openings Procedure* (http://techplanet.creo.com/output/computer_to_plate/magnus_vlf/content/docs/719-00352A-C-PR01_vid.pdf)
- *Backbone Alignment Procedure* (http://techplanet.creo.com/output/computer_to_plate/magnus_vlf/content/docs/agile/719-00533A-B.pdf)

3. PROCEDURE

3.1 Preparation

Move the backbone to the tilted load position and ensure the LEC is off. Unlock the door and open the rear hood. Type:

>>lec off

>>backbone tiltedload

>>door unlock



Figure 1: Rear hood open and backbone in position

3.2 Disassembling the LECs

1. Remove the top parts from the backbone.
2. Remove the clevis pin from the LEC lock actuator.



Figure 2: LEC lock cylinder clevis pin

3. Push the cylinder clevis down to release the pressure between the cylinder and the sliding section that attaches to the cylinder.



Figure 3: LEC lock cylinder

4. Remove the slide guide screws and the plastic oval bushings.

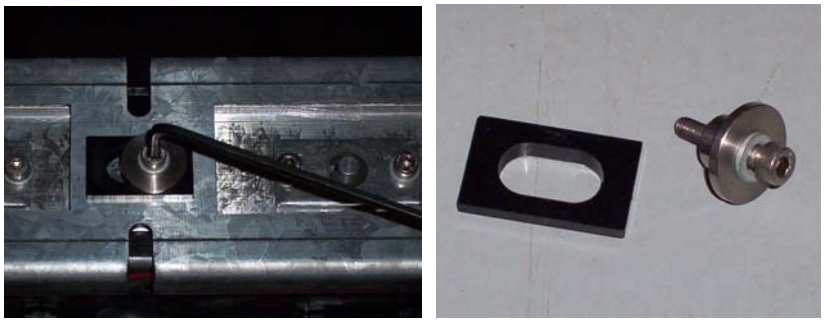


Figure 4: LEC lock slide bushings and screws

5. Remove the adjustable LEC brackets from the backbone. Label each one to ensure they get reinstalled in the same order so that the LEC gap adjustment is closer to correct once the reassembly is done.



Figure 5: Adjustable LEC brackets

6. Remove the registration continuity leaf switch with shims and screws from the backbone. Do not lose the shims or screws.

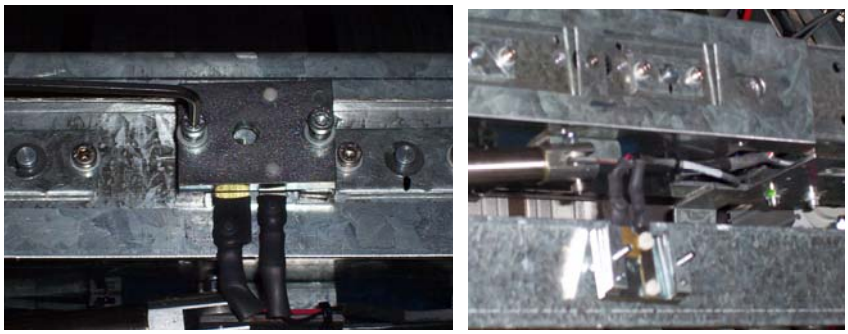


Figure 6: Registration continuity leaf switch

7. Lift the LEC lock slider sheet metal piece from the backbone and store it in a safe place.

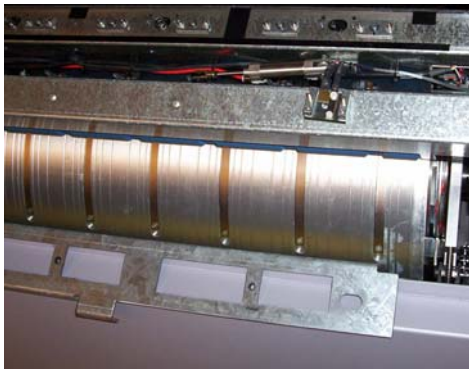


Figure 7: LEC lock slider removed

8. Remove the existing LEC push pins from the backbone—do not lose springs.



Figure 8: Removing the LEC push pin with the spring already removed

3.3 Assembling the LECs

Insert the new LEC push pins into the backbone—include and correctly use the springs. They should install the same way as the existing push pins.



Figure 9: Inserting new LEC push pin with spring

If the parts are not yet assembled, stand the metal push pin part up with the burred end of the push pin fitting into the hole in the plastic piece. Then, with the plastic tip well supported on a pliable surface and the two parts aligned, gently tap on the end of the metal push pin to drive the end into the plastic tip. Stop hammering once the flat surface on the push pin and the tip are in contact.



Figure 10: Inserting new LEC push pin with spring

3.3.1 Assembling the backbone

1. Start at the home side and locate the LEC push pin into the bushing in the hole in the LEC lock slider. Notice that on this position only, there is an extra bushing to prevent the spring from contacting the registration continuity leaf switch conductive parts.

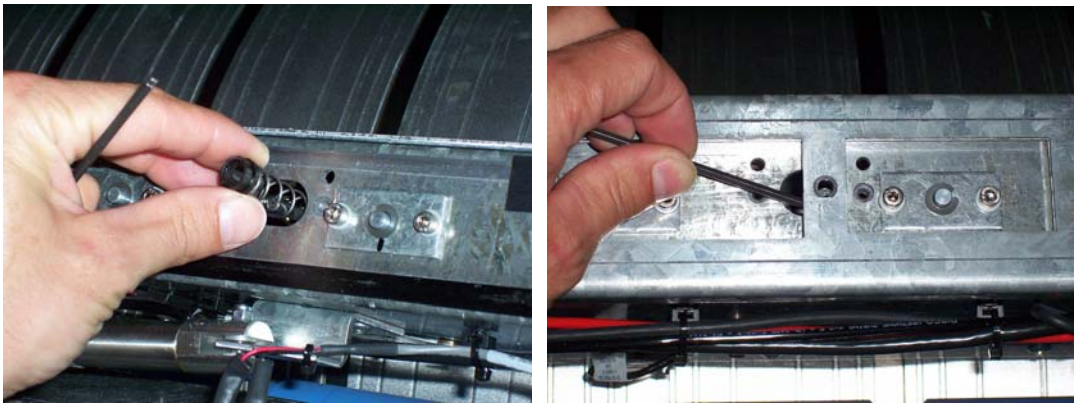


Figure 11: Home position LEC push pin with bushing / Aligning the LEC push pin with the hole in the bushing

2. Assemble the home side slide guide screws and the plastic oval bushing. Do not tighten, leave about ½ to ¾ turn loose.

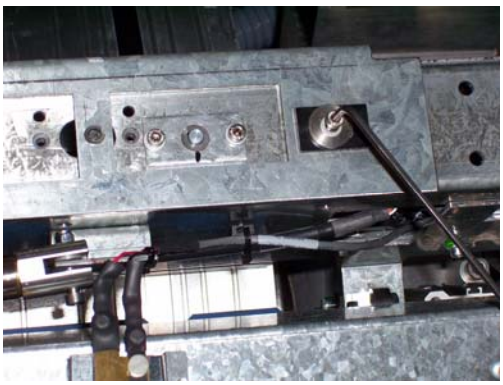


Figure 12: Insert slide bushing and screw into LEC lock slider

3. Align the LEC push pin positions for the next 2 positions.

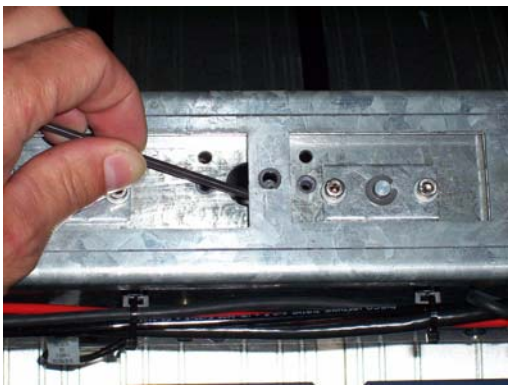


Figure 13: Aligning LEC push pin with hole in bushing

4. Assemble the next side slide guide screws and the plastic oval bushing. Do not tighten, leave about ½ to ¾ turn loose.
5. Continue until all the parts are attached.
6. Tighten all six slide guide screws.
7. Reassemble the adjustable LEC brackets to the backbone. Ensure that you install them in the order you removed them. Tighten the screws. See figure 4.
8. Reassemble the registration continuity leaf switch with shims and screws to the backbone. Do not lose the shims or screws. Tighten the screws. See figure 6.
9. Reattach the LEC lock cylinder and clevis pin. You may need a hex key or small screwdriver to pry on the clevis to get it to slip over the sheet metal tab. See figure 2.

3.3.2 Adjusting the LECs

1. To adjust the LECs, see the *Backbone Upgrade for Adjustable LEC Openings* procedure (709-00352A-C-PR01).
2. If the backbone alignment has not yet been confirmed on devices before MT099, complete the *Backbone Alignment* procedure (719-00533A-A-PR01).
3. Test that all plate sizes load correctly.