Replacing the Virtual Center Bar Loading Assembly

Document number: 719-00553A-A

Product

- Magnus VLF MCU
- Magnus VLF CL

FCO priority

Next PM

See FCO CA04440

Background

Changes were made to the virtual center bar loading assembly to prevent binding.

Solution

Replace the three old assemblies with new assemblies.

Time required

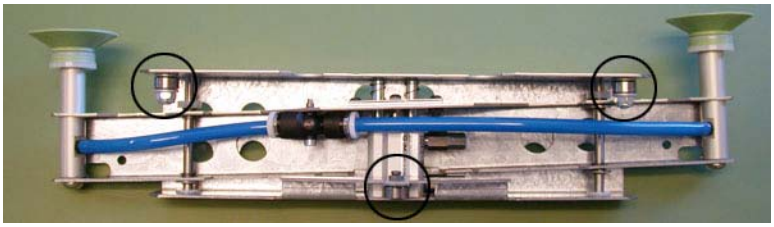
Parts required

Part Number	Part Name	Quantity
500-00107B	Virtual center bar loading assembly	3

Tools required

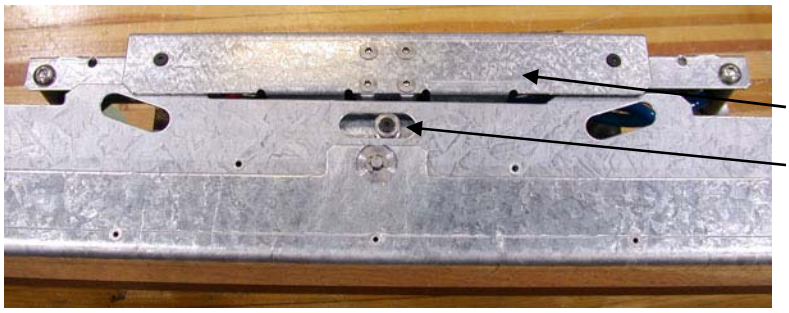
- 2 mm Hex key

Each virtual center bar loading assembly is mounted to the traveler with one screw only. The assembly's side-to-side movement is made possible by three bearings (circled in the photo below) that move in slots in the traveler's sheet metal.

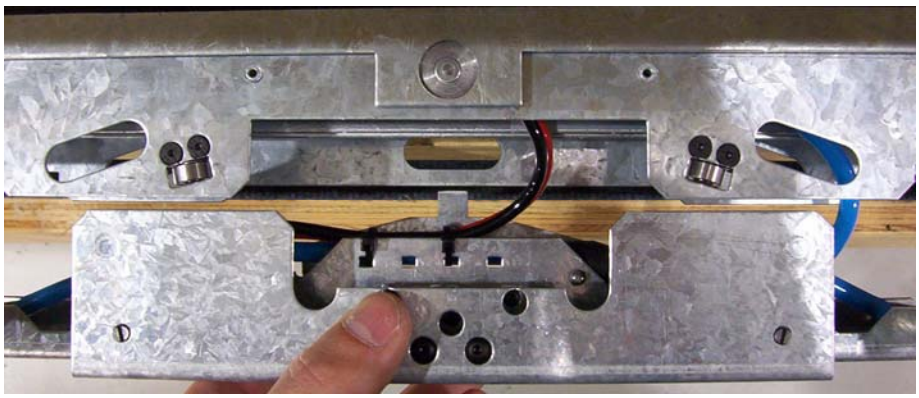


Procedure

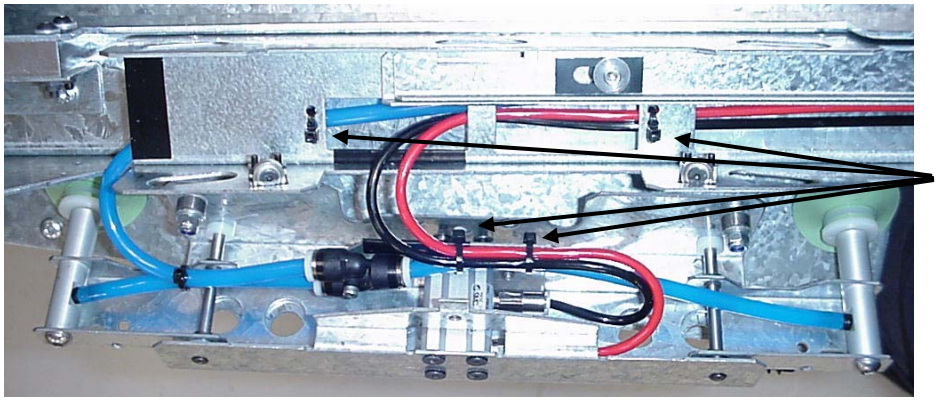
1. Turn the device power off.
2. Turn off the compressed air supply to the device.
3. Open the front hood.
4. Remove the unload table rails.
5. Remove the load table panels.
6. To remove the three virtual center bar loading assemblies from the traveler, remove the 2 mm screw on the underside of the assembly—this screw goes through the center of the bottom bearing. The photo below is taken with the assembly removed to show the location of the screw.



7. Tilt the assembly up slightly and pull it away from the traveler.
8. Take note of the path and orientation of the pneumatic tubes and cut the cable ties securing the tubes to the assembly frame.

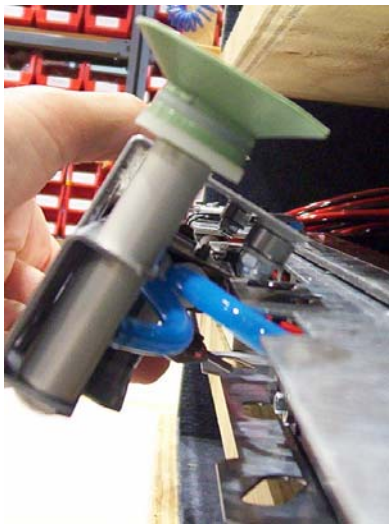


9. Disconnect the red, black, and blue tubes and remove the assembly completely.
10. Before installing the new assemblies, do a visual inspection of the tubes for signs of damage or wear. Also check that any tape that was applied to the edges of the sheet metal is still in place and that there are no loose corners or sides—the tape prevents the tubes from getting damaged if they rub against the sheet metal edges.
11. Remove the bearing and screw from the underside of the new virtual center bar loading assembly. The screw and washer are held to the bearing with a clamp washer.
12. Connect the three tubes to the assembly in the same location that they were removed from. Use cable ties to secure the tubes to the assembly frame. Also check that there are cable ties in place that secure the tubes to the traveler.

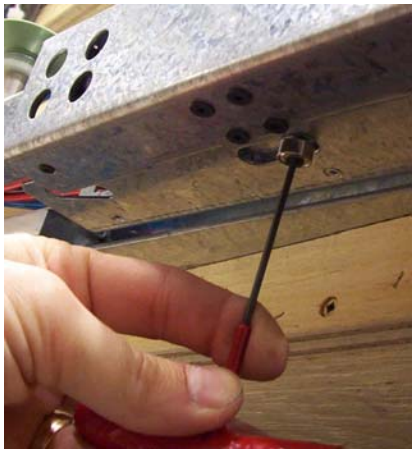


Note: To prevent the tubes from kinking, do not make the arc in the tubes too small. Also, do not tighten the cable ties so tight that they restrict the air flow through the tubes.

13. To install the assembly onto the traveler, tilt it up so that you can locate the top bearings in their appropriate slots and then swing the assembly down so that the bottom bearing is located in its slot.




14. Insert and tighten the screw and bearing on the underside of the assembly. Take care not to strip the screw head and do not over-tighten the screw.



15. Check that the assembly can move from side-to-side smoothly and without interference or restriction from the tubes connected to the assembly.
16. Repeat the above removal and installation procedures for all three virtual center bar loading assemblies.
17. Install the load table panels and the unload table rails.
18. Close the front hood.
19. Turn on the compressed air supply and turn on the device power.
20. Resume normal device operation.

Replacing the Virtual Center Bar Loading Assembly

See also	Installing Load Table Pneumatic Tubing
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