

Magnus VLF Autoloaders

Unload Table Series 2 Upgrade

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Revision History

Revision	Date	Author	Comments
1	18 Oct, 2005	A.Blignaut/M.Zisman	First draft release
2	19 Oct, 2005	A.Blignaut/M.Wight	Procedure edits from Martin Wight
A	31 Oct, 2005	A.Blignaut/M.Wight	Tools list updated
B	26 April 2006	A.Blignaut/M.Zisman	Procedure updates

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1. SCOPE

This upgrade procedure is to install a new unload table deflector that is more reliable and necessary for speed improvement implementation. For the improvements to be fully utilized, the following FCOs must also be installed on the device:

- CA05631 Unload table traveler upgrade
- CA05568 CANBUS cable upgrade

2. TOOLS/PARTS NEEDED

- Open end thin wrench 10 mm
- Upgrade kit 518-01402A

3. UPGRADE PROCEDURE

1. Remove the unload table deflector panel—the panel is held by Velcro on both sides. Also remove the Velcro.
2. Remove the deflector holding bracket.
3. Disconnect the deflector detect cable.
4. Remove the deflector sensor and bracket.

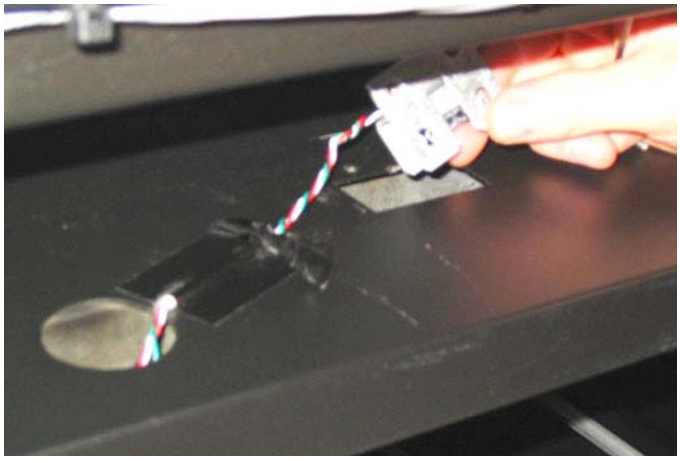


Figure 1: Deflector sensor

5. Remove the bracket from the sensor.

6. Reroute the cable to the power box side of the table.



Figure 2: Deflector sensor cable

7. Install the deflector. Firmly push the deflector towards the operator side of the device (front) when tightening the screws.

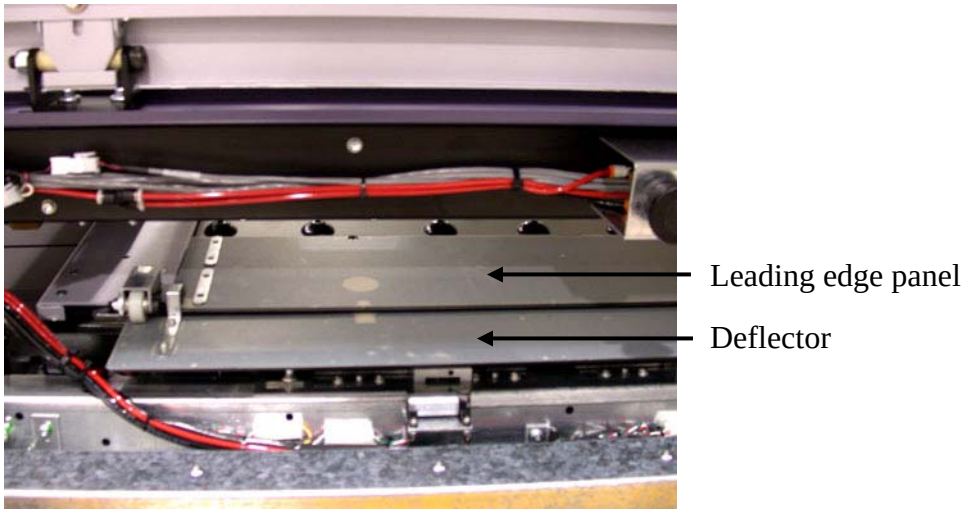


Figure 3: Deflector

8. Install the leading edge panel and connect the new plate deflector sensor.
9. Install and adjust the deflector actuators (the table should be in the **tilt** position). Remove and discard the two screws from each MAB and attach the actuators.
   a. Use the new longer screws to install the actuators. Only tighten the screws enough to allow the actuator bracket to easily slide up and down.
   b. Type `>>unloadtable untilt`

c. Push the actuators down to fully raise the deflector and tighten the bottom actuator screws. See Figure 4.
Note: Take care not to damage the deflector up sensor.

d. Type `>>unloadtable tilt` to tilt the unload table, then tighten the top actuator screws.

e. Check that the actuator wheel bolt is orientated so that the head is on the side of the sensor bracket as shown in Figure 4. This will give the most clearance between the bolt and the sensor bracket when the unload table moves between the **tilt** and the **untilt** positions. Also check that the bolt head does not interfere with the sensor bracket during operation.

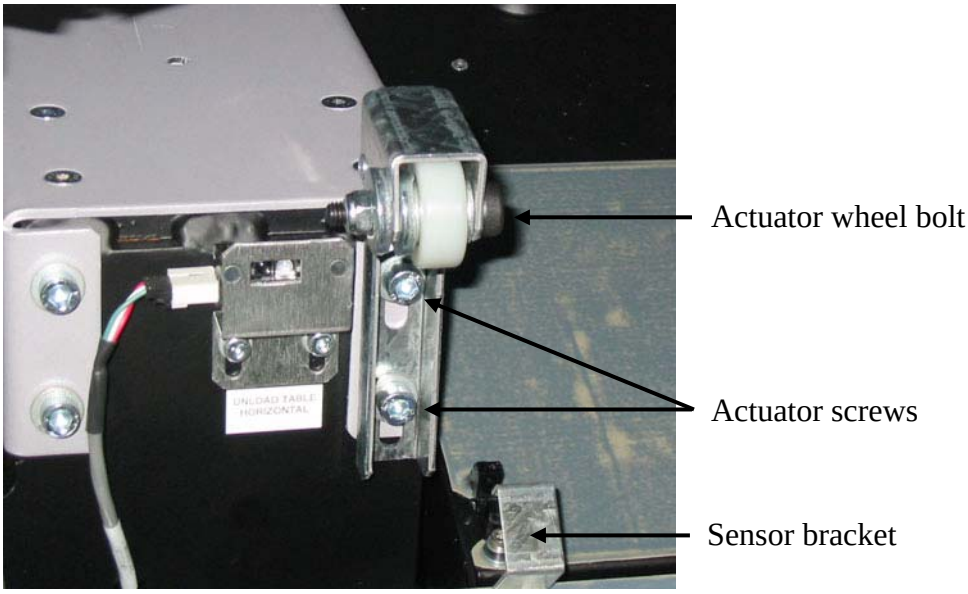


Figure 4: Actuator installed on the MAB

10. Adjust the gap between the drum and the deflector to 16 ± 2 mm for large drums, and 18.5 ± 2 mm for small drums.

a. To adjust the deflector, loosen the mounting screws and move the deflector towards the operator side (front) to increase the gap and away from the operator to reduce the gap.



Figure 5: Drum to deflector gap

Alternatively, the gap can be increased/decreased by lengthening/shortening the unload table tilt cylinders. Be careful not to shorten the cylinders too much or the unload table will crash into the hood when tilted.

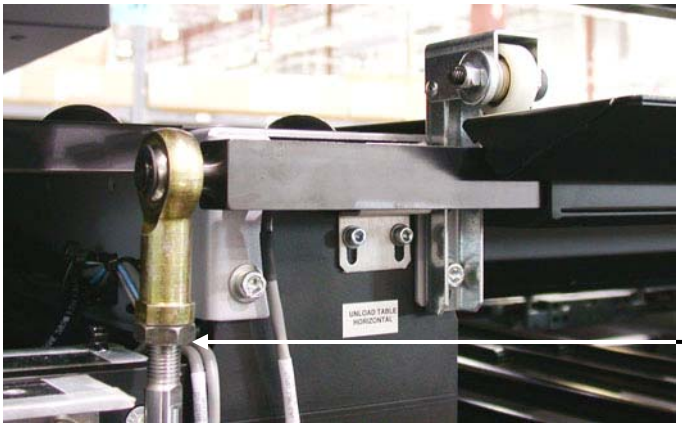


Figure 6: Unload table tilt cylinder

11. Check the deflector up sensor alignment.

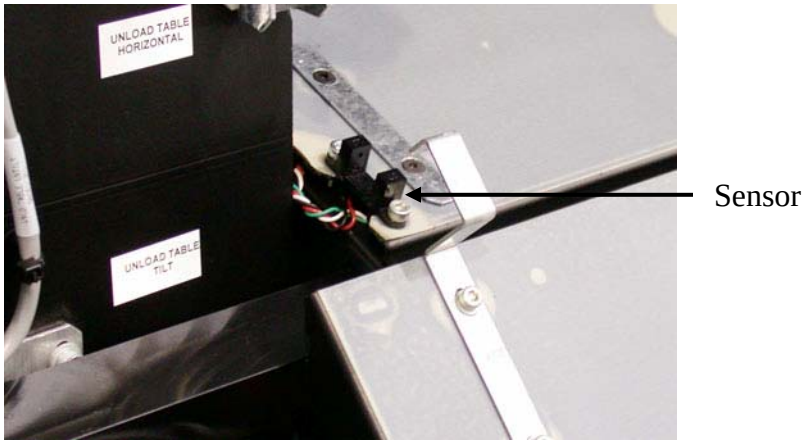


Figure 7: Deflector up sensor

12. Check the unload table tilt/untilt sensors. Adjust if necessary.
13. Enable the new deflector option in HW CONFIG.