Kodak

Magnus VLF MCU

Wedgemaster Cylinder Block and Up Sensor Upgrade

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Revision History

Revision	Date	Author	Comments
1	23 Nov 2004	Jacob Gofman/Robert Dyck/A.Blignaut	Upgrade procedure for FCO CA05898.
A	07 Feb 2005	A.Blignaut	Procedures updated Commands updated
B	09 Jun 2005	J.Gofman	Some steps clarified/updated
C	25 April 2007	A.Blignaut	Missing action added to step 15

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CONTENTS

Revision History i

Objective 1

Tools Required 1

Parts Required 1

Upgrade Procedure 1

OBJECTIVE

Some Magnus VLF MCU devices have experienced wedgemaster up/down errors. This procedure describes how to install fetcher upgrades related to wedgemaster up/down motion.

TOOLS REQUIRED

Hex key set

Open-end wrench or nut drivers—5.5 mm and 7 mm

PARTS REQUIRED

512-00225A KIT,UPGRADE,WM UP-DOWN BLOCK,MTA

- 500-00473B, ASSY, MECH, SS PICKER CYL, MTA (qty1)
- 500-01159B, ASSY, MECH, CYL MOUNT BLOCK, SS PICKER, MTA (qty1)
- 500-02447A, ASSY, MECH, WM UP SENSOR MOUNT (qty1)
- 55-0162, PLUG, 5/32", QUICK (qty1)

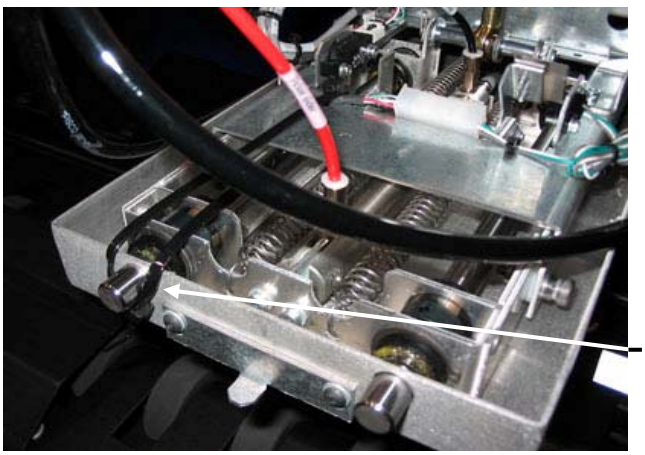
UPGRADE PROCEDURE

To get access to the fetcher, the cassette must be in the pick position and the front hood must be open.

1. Turn off the compressed air supply to the Magnus device.
2. Open the slip sheet removal (SSR) bin panels, move the fetcher away from the multi-cassette unit (MCU) over the load table, and lower the SSR access panel.

Note: The air supply to the SSR will be cut off, but the MCU mechanisms including the picker, plenum, and fetcher will still have air.

3. Push the picker slider forward and secure it in the forward position with cable ties (it is very convenient to use adjustable wrench instead of tie-wraps to keep the picker in forward position).

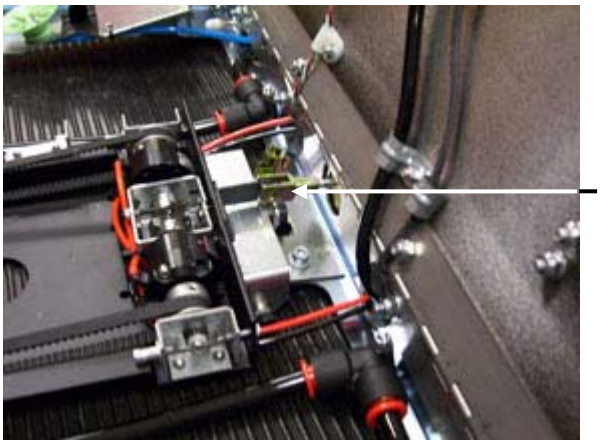


Cable ties or adjustable wrench

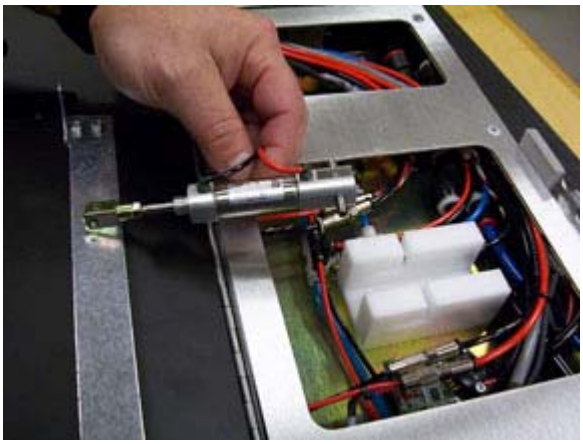
4. Remove the two flat-head screws and open the fetcher deck.



5. Disconnect the wedgemaster cylinder. Remove the clip from cylinder rod end.

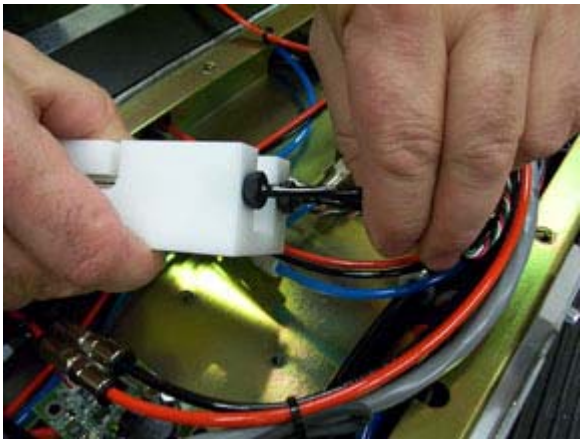


6. Remove the cylinder and disconnect the tubes.

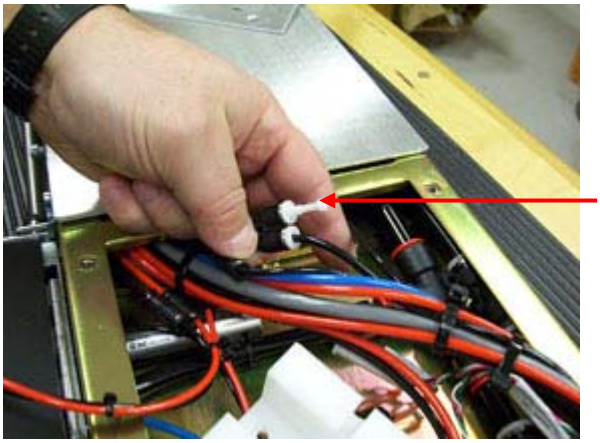


Note: Mark the cylinder with the air tube color connections before disconnecting them.

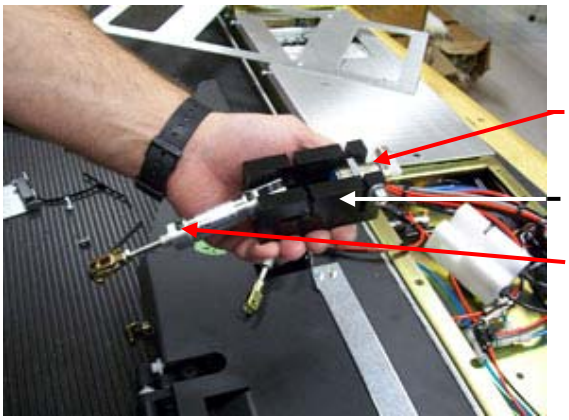
7. Remove the two flat-head screws, remove the old (white plastic) cylinder mount block, and disconnect the tubes.

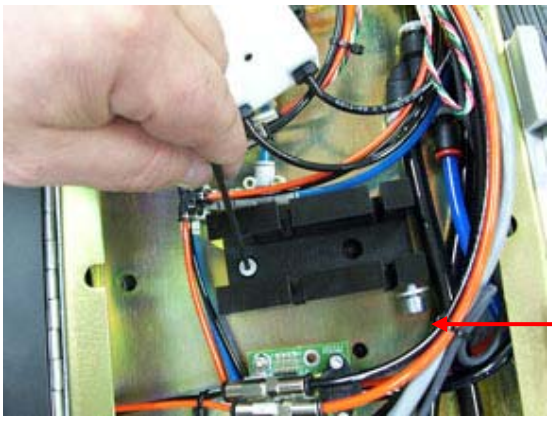


8. Find the Y air connector and remove the tube at the connector that goes to the wedgemaster cylinder mount block—plug the other connector with plug 55-0162. Leave the other tube in place.

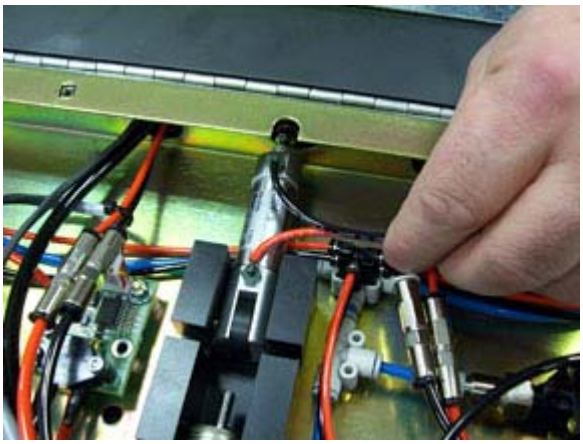


9. Install the mounting block 500-01159B into the fetcher body.



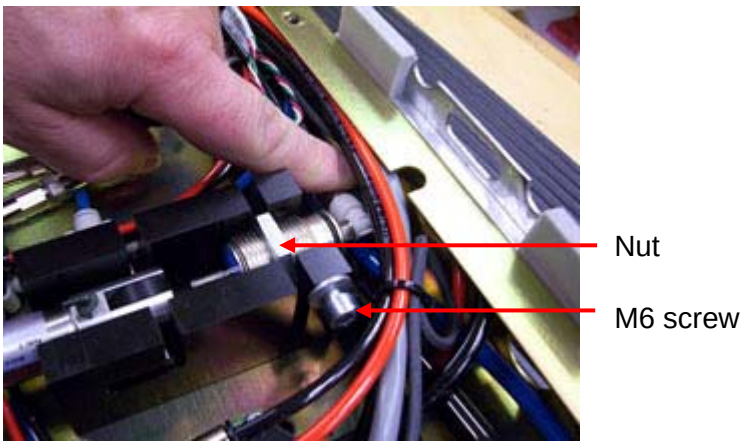


10. Install the new wedgemaster up/down cylinder 500-00473B (with the plastic roller at the end) and connect the cylinder rod end to the wedgemaster with the clip. Connect the tubes to the cylinder fittings and route the tubes as shown in the photograph below.

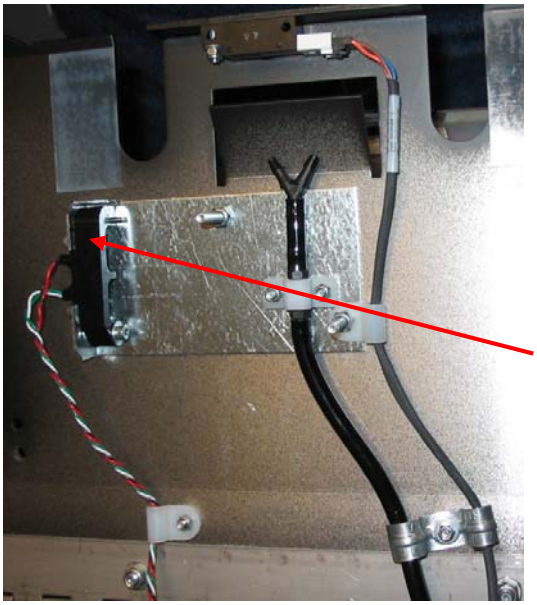


11. Install the cartridge cylinder and connect one tube (from the Y connector) to its fitting. Do not lock the cartridge cylinder with the M6 screw yet.

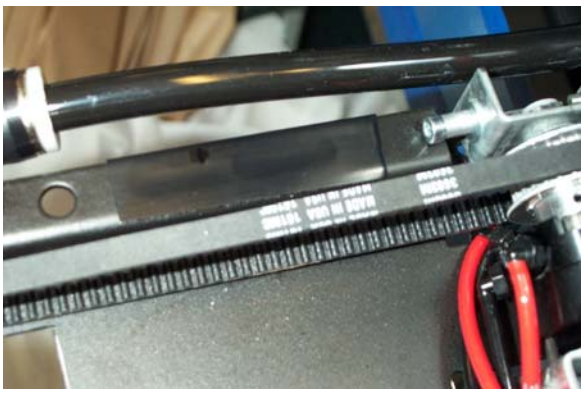
    Note: The flat surface of the nut must be horizontal and the nut must be approx. 6 mm from the front end of the cylinder.



12. Disconnect and remove the old wedgemaster up sensor bracket with sensor and air jet and replace it with the new one (500-02447A).
    When the fetcher deck is closed and the wedgemaster is down, the black plastic sensor flag must be free and fall down by gravity only.

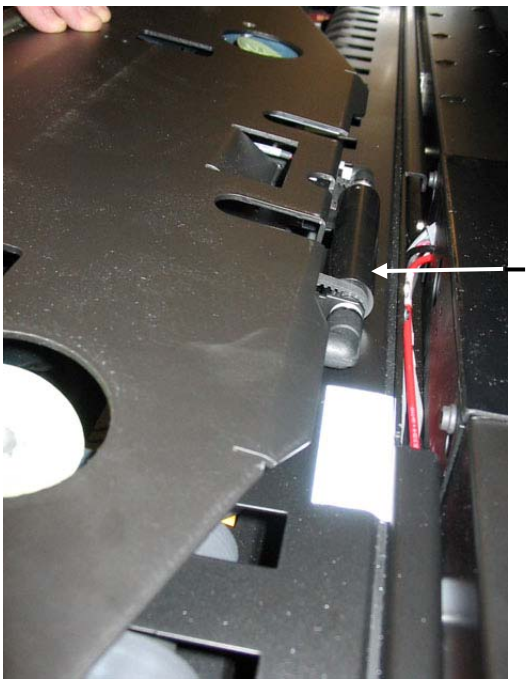


13. Remove the sensor tab from the wedgemaster and apply UHMW tape over the flange.

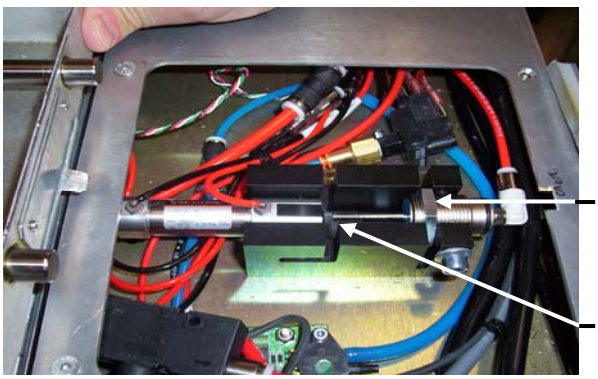


14. Close the fetcher deck. Close the foldable SSR access panel. Move the fetcher over the access panel to the MCU side. Open the access panel again and walk in. Air at the fetcher must be on.

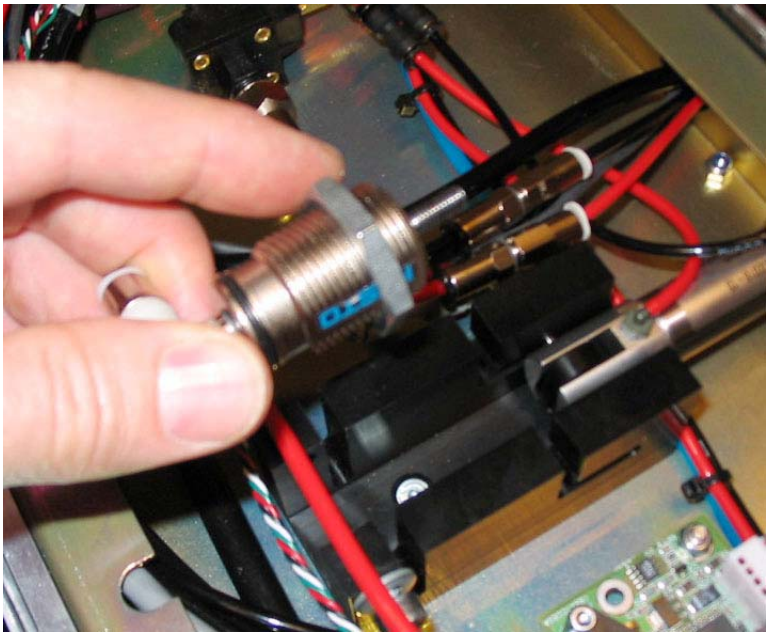
15. The wedgemaster must rest on top of the SSR fixed roller shield.
    Type:
    `>>fetcher ss wedgemaster down` (this command will bring the wedgemaster down to rest on the SSR roller shield).
    `>>fetcher cups up.` Cover the cups with pieces of plate to seal the vacuum.
    `>>fetcher vac on` (this command will extend the rod of the cartridge cylinder together with turning on the vacuum).



The wedgemaster cylinder will move back slightly. To start the alignment, there must be a gap between the extended cartridge cylinder rod and the roller at the back of the wedgemaster up/down cylinder of about 2–5 mm. The flat side of the nut must be flush with the top of the block.



16. Pull the cartridge cylinder up to remove it from the slot in the block and rotate the nut such that when the cylinder is installed back, the end of the cylinder rod touches the roller (one full turn of the nut is approximately 1.5 mm).



17. Lock the cylinder with the M6 screw.

18. Type:
    ```
    >>fetcher ss wedgemaster up
    >>fetcher vac off.
    ```
    Remove the pieces of plate from the cups.
    ```
    >>fetcher cups down
    ```

    The purpose of the cartridge cylinder is to stop the wedgemaster up/down cylinder from moving too far back. If the wedgemaster up/down cylinder is too far back, the wedgemaster may be too high and can incorrectly trigger the wedgemaster UP sensor.