Kodak

Magnus VLF

UDRC to MDRC Upgrade

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1. OVERVIEW

The Magnus VLF Universal Debris Removal Cabinet (UDRC) is based on a Reitschle blower. The supply of this blower has been unreliable and the relatively low volumes of the components have made the UDRC relatively expensive.

The components of the UDRC were re-used as much as possible to work in the new Magnus Debris Removal Cabinet (MDRC). In order for the MDRC to fit in the Magnus VLF, the filter size has been reduced.

2. PREREQUISITES

- MDRC/Funnel wiring upgrade (kit 518-02044A, Doc 719-00719A).
- If a TH3 is on the device, check that the TH3 filter regulator assembly (500-03794B) is a version B assembly. See step 2 in the upgrade procedure.

3. PARTS/TOOLS

Parts:

- TH3 filter regulator assembly (if required) - 500-03794B
- MDRC FCO kit (with no internal TH2 chiller) – 512-00377A
  or
- MDRC FCO kit (with internal TH2 chiller) - 512-00385A

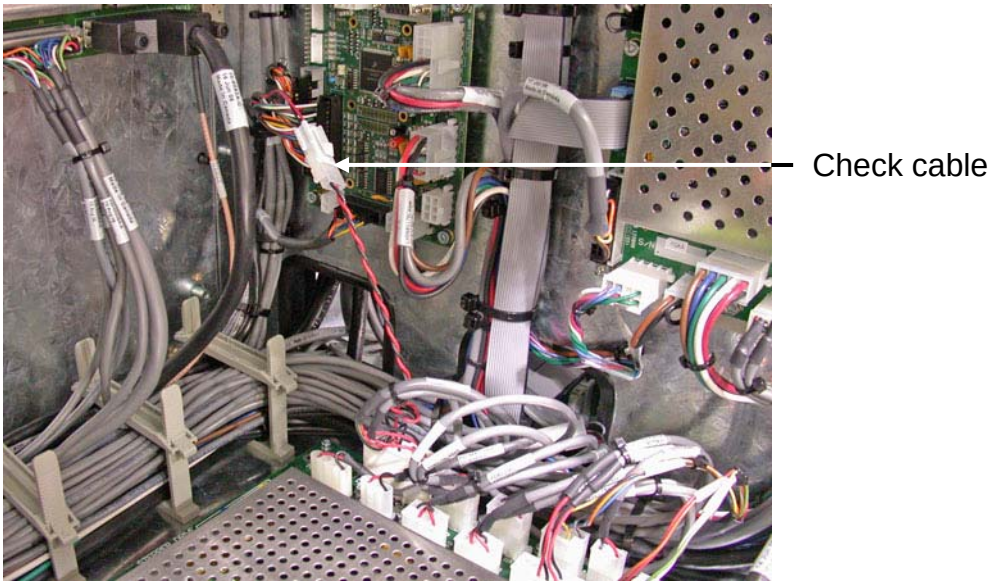
Tools:

- Metric nut drivers (8 mm)
- 6.35 mm (1/4 in.) drill bit and drill

4. UPGRADE PROCEDURE

Before starting with the upgrade, ensure that the prerequisites have been met.

1. Check the connection between the LIONEL board (J8) and the PDB (J37). Some devices may have been shipped with this cable not connected.



2. For devices with a TH3, ensure that the correct TH3 filter regulator assembly is installed (500-03794B).



3. Turn the power to the Magnus VLF device off.
4. Remove the left shin panel.
5. Unplug the UDRC (blower power cord, fan cord, data cable, and hose) and remove it.
6. On MCU and CL devices, remove the exhaust extension.

7. Remove the grill, unplug the fan cable, and remove the front panel from the exhaust fan unit.

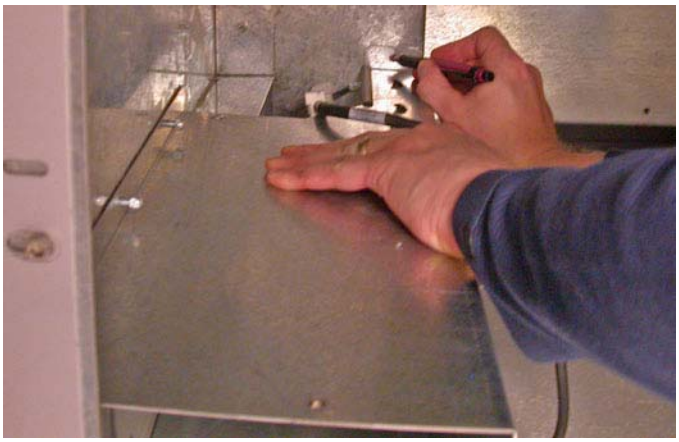


8. Remove the exhaust fan unit by removing the four nuts on the mounting studs.

9. Drill a 6.35 mm (1/4 in.) hole for the MDRC hose strain relief cable tie anchor in the approximate location shown below.



10. Install the new exhaust fan unit without fastening the nuts—only hold the unit in place. Locate the exhaust fan mounting hole on the left MAB support panel, and mark the location.



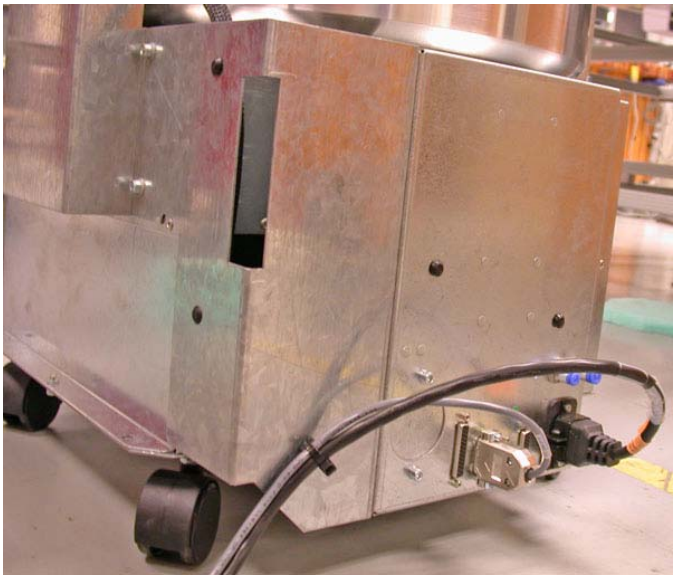
11. Remove the exhaust fan unit and drill a 6.35 mm (1/4 in.) hole at the mounting location.

12. Install the new exhaust fan unit with four nuts and Bell washers and an additional M5 fastener in the drilled hole.

13. Connect the exhaust unit fan cable, the MDRC power, and the MDRC signal cables to the device bulkhead.

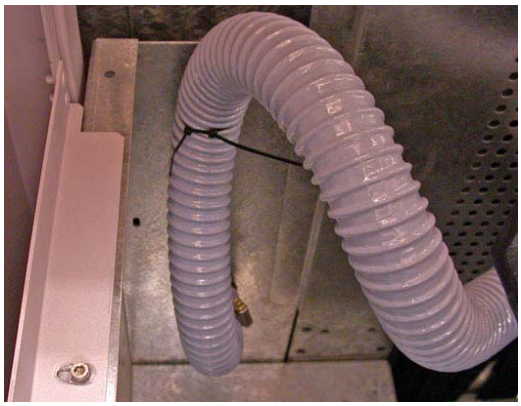


14. Connect the MDRC power and signal cables to the MDRC unit. Strain relief these cables at the lowest cable tie mounting point.

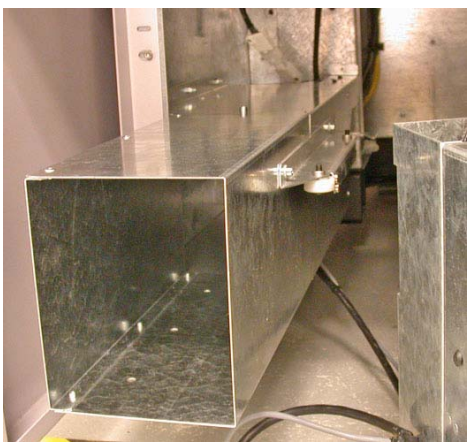


15. Connect the MDRC hose using the supplied adapter fitting and small section of hose cut from the UDRC hose. Use a cable tie to strain relief the hose.





16. For MCU and CL devices, remove the guide bracket, install the exhaust fan extension, and install the guide bracket on the extension.



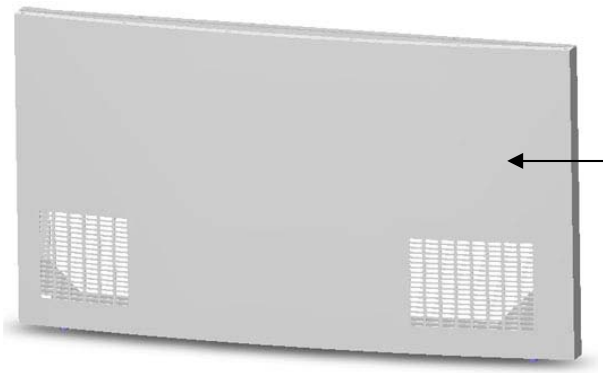


For Semi-Automatic devices, the extension is not installed and the guide bracket does not need to be moved.

17. Put the MDRC into the device.



18. Install the new shin panel.
    Ensure that the correct shin panel is installed. All new shin panels have a grille opening in front of the exhaust fan to allow air out the front of the device.
    If there is an internal chiller with front fan, there should also be a grille opening on the right side of the panel (this panel is supplied in the 512-00385A kit). Kit 512-00377A will contain a panel with only one grill opening for the exhaust fan.



    If it is necessary to adjust the height of the new panel, adjust the new adjustable bracket on the left side panel.

19. Turn the power to the device on.

20. If CR 4.0 is installed, add the serial number of the MDRC unit to the debris serial number NVS parameter:
    `>>set deb serialnumber`

4.1 Testing the MDRC

Image a plate to ensure that the MDRC detects the flow correctly.