Installation Guide
English

Magnus VLF

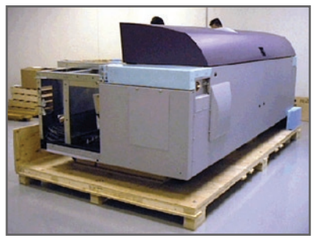
653-00839C-EN-A

Internal 725-00001C-EN-RevA
February 2007

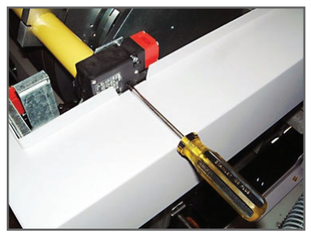
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1 Uncrate device.



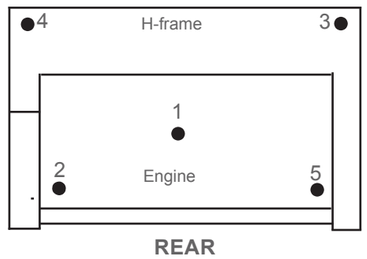
Insert forklift arms under the casting at the rear of the device.



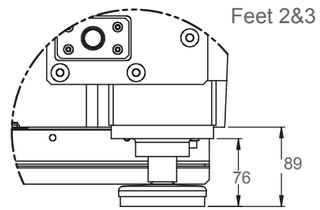
Turn solenoid to unlock position.

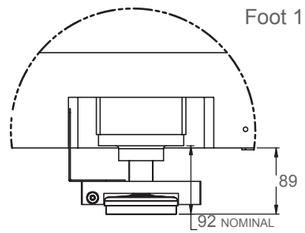
2 Adjust the nominal foot height (if required).

Foot locations

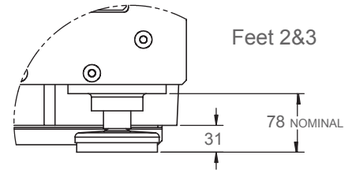


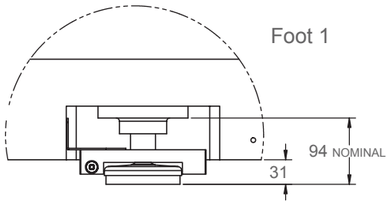
Drum sizes 5183 & 4570





Drum sizes 6383 & 5570





Feet 4&5

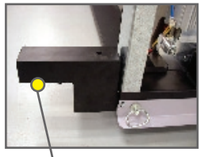


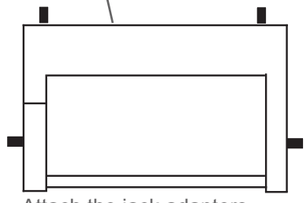
Loosen the clamp and turn the rod (each full turn = 5 mm).

Nominal height is 60 mm.

NOTE: Foot 1 is factory adjusted—do not adjust it.

3 Remove the casters.





Attach the jack adapters (4 locations).



Raise the device evenly until the weight is off all the casters.



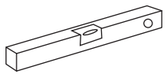
Place wooden blocks under the casting and remove the casters. Lower the device evenly until the feet take its weight. Remove the jacks and adapters.

Re-check the alignment of the MAB center line to the processor center line.

If needed, put greased pads under the jacks and move the device.

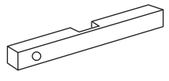
4 Calibrate the level.

Before starting, calibrate the digital level:



Cal 1

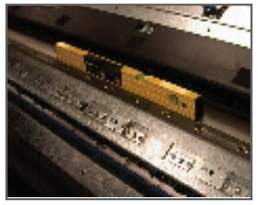
press **cal**, flip the level around and press **cal** again.



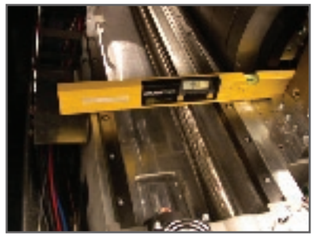
Cal 2

5 Level the device.

a Adjust feet 2 & 3 until drum is level.

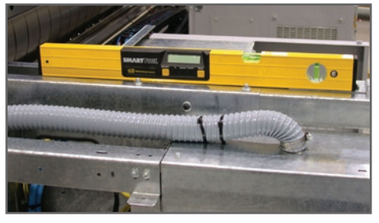


b Place level on the carriage tracks. Make a mark on feet 2 & 3 and raise/lower equally until 10° ± 0.1° is achieved.



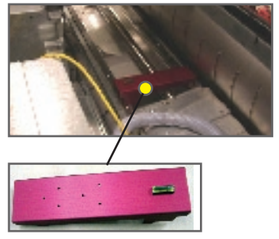
c

Adjust feet 4 & 5 so that the upper MAB is 0° ± 0.1°.
Note: Ensure that all of the feet are touching the ground.



OR

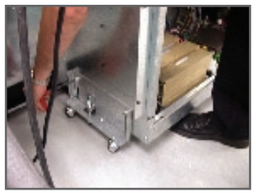
If you do not have a digital level, use the jig on the frame as shown. Adjust feet 2 & 3 equally for 0° ± 0.1°.



Parts in crate 3.

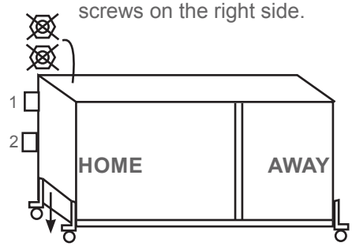
1 Move the power box.

a Lower the casters.

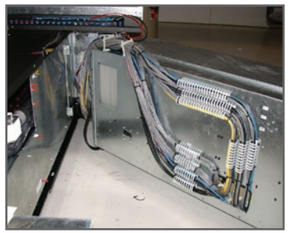


NOTE: Casters must be lowered all the way to avoid damaging the power box.

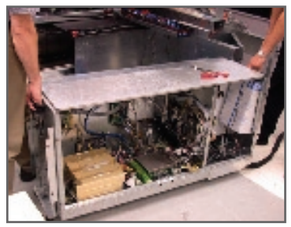
b Remove both M5 nylock nuts on left side and remove both holding screws on the right side.



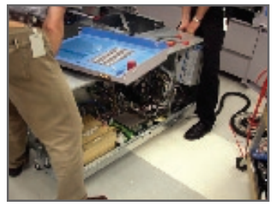
c Release the cables from their shipping position (untrimmed cable ties are only for shipping).



d Lift off and roll to new position.



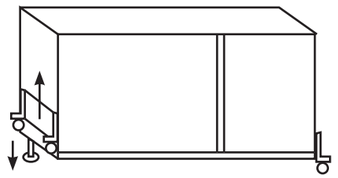
e Lift powerbox onto C55 extension bracket.
Hook up the right corner first (as pivot point).

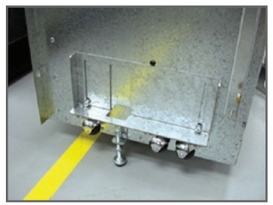


f Fasten screw on inside at the bottom.



g Lower foot down to the floor, then raise both casters fully up and tighten.

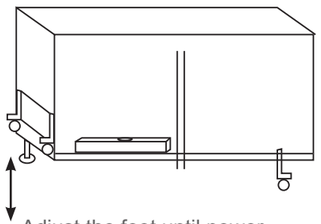




NOTE: Casters must be raised all the way up to avoid damaging the power box and so that the sub panel and right front panel can be installed.

2 Level the power box.

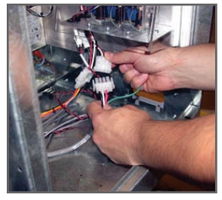
Place digital level on the frame.



Adjust the foot until power box is level.

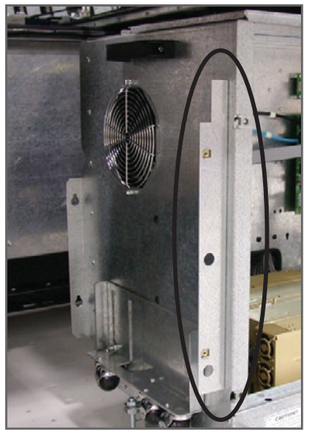
3 Make the power box connections.



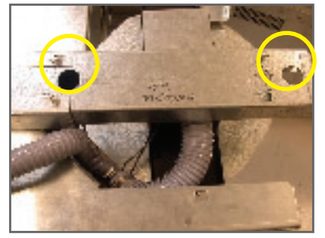


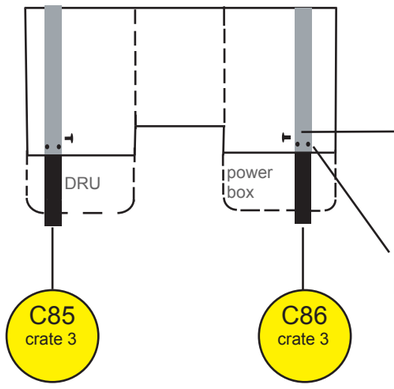
Inside the power box, make the connections.

4 Install the support bracket for P19.



5 Install the table beam extensions.





Fasten 5 screws on each extension.

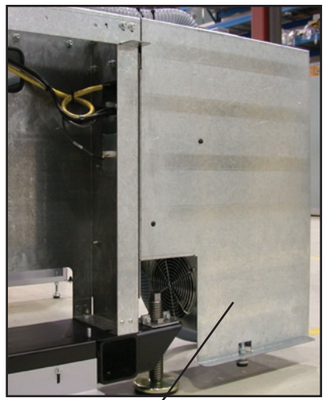
Ensure no screws have been placed from the outside.

Attach table beam extensions on home and away sides.

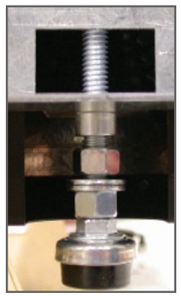
Parts in crates 3, 4, 6.

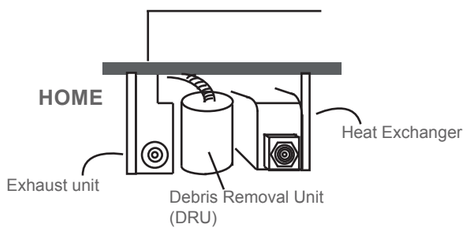
1 Install the hot air exhaust unit.

a Install the exhaust unit (C56).

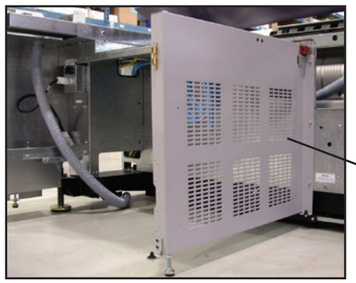


b Put the foot down until pressure is applied to the floor.

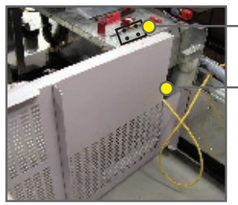




2 Install the left sub panel.



Adjust the panel's foot if needed.



Two M5 screws on top bracket.

Three M5 nuts with Belevillel and heavy washers washer.

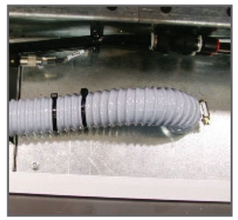
3 Install the Magnus Debris Removal Cabinet (MDRC).



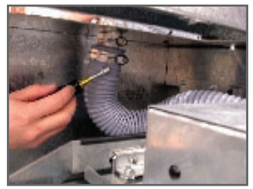
Roll the debris removal unit (C44) into place beside the heat exchanger.

C44
crate 4

Attach the DR holding bracket to the frame.



Route the debris hose from the head.



Clamp the hose.

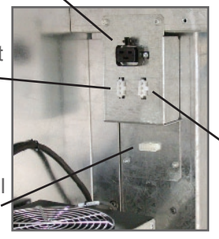
4 Make the MDRC connections.



E09 Connect debris blower AC plug to PEB AC receptacle.

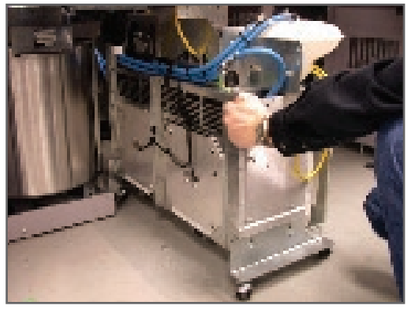
E06 Connect hot air exhaust cable to PDB (J24).

E08 Connect debris removal sensor to LIONEL (J8).

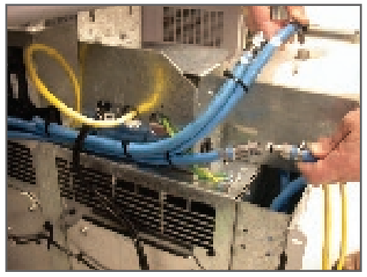


E07 Connect debris AC fan to PDB (J24).

5 Install the heat exchanger (TH2 configurations only)



Roll the heat exchanger (C0) into place.



Connect the hoses and power cable.

Parts in crates 3, 5.

1 Install home and away table panels.

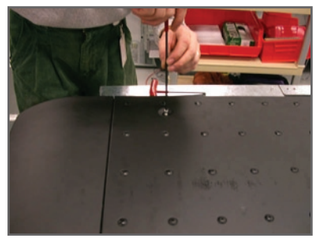
a Slide home and away table panels into place on cones.

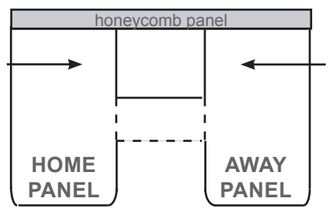


b Level by adjusting support screw.



c Secure panels using single screw in lower corner.





C88 crate 3

Note position of darts. Maneuvering panel in place may be difficult. Do not loosen cones or brackets until considerable effort has been made to maneuver table in place.

2 Install center table panel.

a Insert center panel and level.

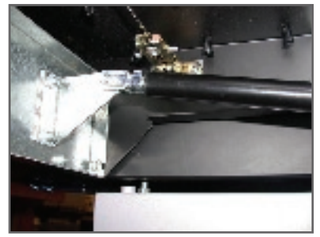


b Secure center panel using holding screw.

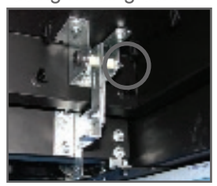


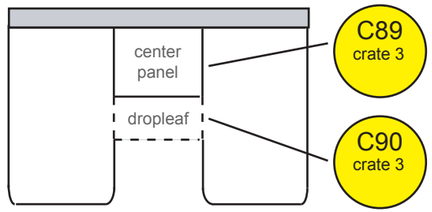
c Install the dropleaf panel. Use a feeler gauge to position dropleaf panel evenly between right and left panels.

d Attach the damper strut under the dropleaf.



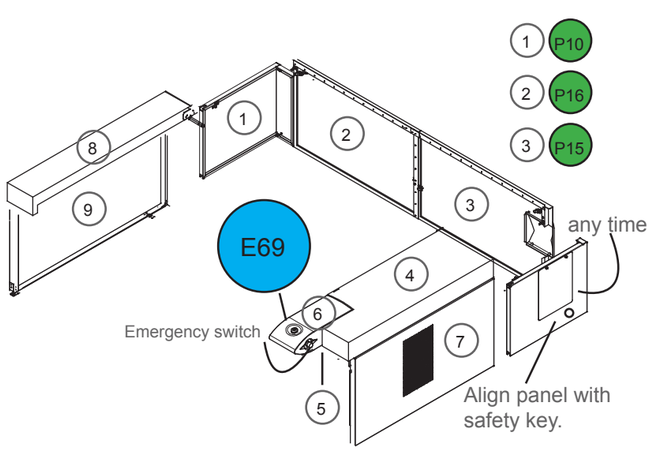
e Secure the dropleaf using holding screw.





NOTE: Before installing the table center panel, install the thermal head.

3 Install outer panels in the order shown.



4 P3 Do not secure screws on front of panel yet.

5 C92 Install C92 on underside of P3.

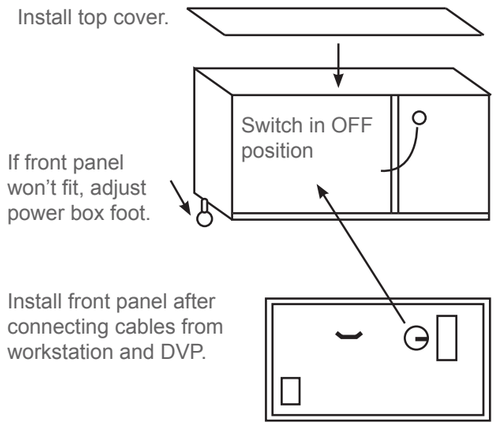
6 C91 Connect E69, E71, and emergency switch. Secure front screws on P3.

7 P24

8 P4

9 P25

4 Install the power box covers.



5 Install the drum vacuum pump (DVP).

Roll the drum vacuum pump (C73) into position.

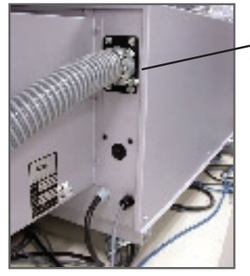


Connect the power cord and the electrical cable.

E65

Connect DVP to LIONEL 0 (J1).

Install the drum vacuum pump hose (C74).



C74 crate 5



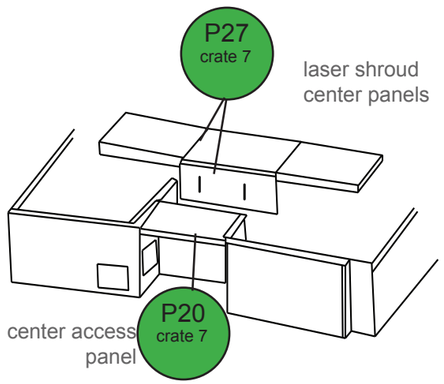
Attach at rear of DVP (use hose clamp).

Attach to device at right rear corner (use elbow and hose clamp).

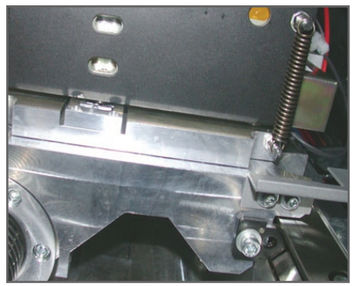
NOTE: 15 m (50 ft) of hose is supplied to allow flexibility in where the DVP is located. Cut what you need.

1 Access the carriage area.

Access the carriage by removing the center access panel (P20) and the two laser shroud center panels (P27).



2 Install the hanger springs and clamp cylinder



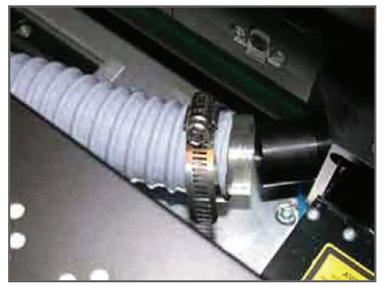
Use a ball hex key to attach the four hanger springs between the head and the carriage. See the TH2 replacement procedure for details.



Add the shims to the clamp cylinder's pull pin and install the clamp cylinder onto the guide rod.

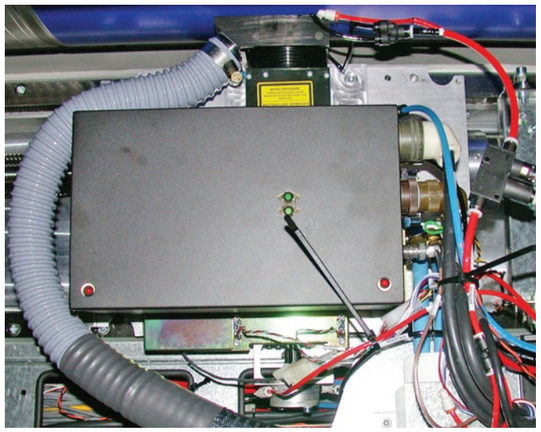
Connect the air tubes (black left and red on right.

3 Connect the debris vacuum hose.



Connect the debris vacuum hose to the nozzle and secure it with a hose clamp. Rotate the drum by hand and check for interference with the hose and clamp.

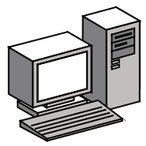
4 Connect the coolant hoses, tubes, and all cables.



Attach the coolant hoses, air tubes, and cable connectors.

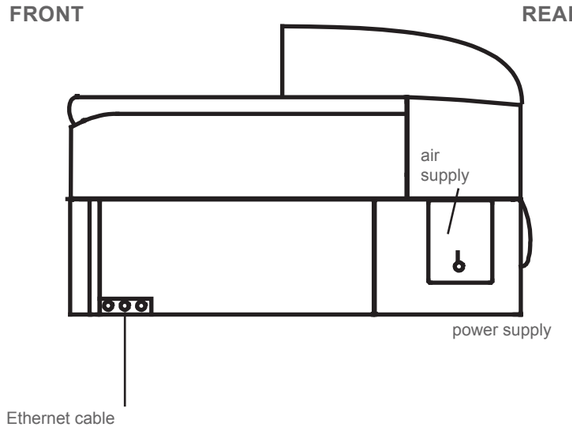
Install the center access panel (P20) and the laser shroud panel (P27).

5 Install the workstation.



Assemble the workstation and peripherals.
Connect the ethernet cable to the workstation.

6 Connect the device and power up.



Connect the ethernet cable from the workstation, the power cables, and the compressed air supply.

Startup Procedure

1. Turn the rear hood solenoid to the lock position.
2. Connect the ethernet cable from the device to the workstation.
3. Turn the device power on and open the comressed air supply to the device.
4. Run the Site Installer CD.
   This CD is supplied with the device and is not part of the controlled release CD. The site installer CD contains a simple installer that will copy the device NVS parameters to the workstation and will also set up a secondary backup location for the NVS parameters. For details, see CTP Site Installer CD in the release notes document for the latest controlled release.
5. Check the system pressure. Type:
   >>system (pressure should be approximately 84 psi)
6. Check the safety loop. Type:
   >>safety
7. Initialize the device. Type:
   >>init
8. Check the flyoff alignment.
9. Check the positioning of the trailing edge clamp on the drum. Type:
   >>backbone init
   >>backbone tilted unload
   >>TEC getclampservicepark
10. Calibrate the load table plate sensors. Type:
    >>load calibrate 770 1118 manual (where 770 is mscan and 1118 is sscan)
11. Set up the media parameters.
12. Load a plate.
13. Position the head and check the head tilt.
    For detailed instructions on setting up a TH2, refer to the following document: *Replacing a Thermal Head 2 on a Z-stage Carriage .*
14. Check the edge detection.
    -Check the edge detect position. Type:
    >>edge test using the focus laser
    >>edge test camera using the edge detect camera
15. Check the image quality.
    -Check and adjust the image quality according to the media specifications (focus series, exposure series, bmslope, bmcurve, banding).
16. Install the plate positioning labels on the load table.

Cables

No.	Component Name	Crate
C0	Chiller unit	6
C44	Debris removal unit	4
C51	Fire gutter tray 1	3
C52	Fire gutter tray 2	3
C56	Hot air exhaust unit	
C64	Chiller tray	6
C73	Drum vacuum pump	5
C74	Drum vacuum pump hose	5
C77	Hot air exhaust extension duct	6
C85	Table beam extension	3
C86	Table beam extension	3
C88	Home and away panels	3
C89	Table center panel	3
C90	Dropleaf	3
C92	Interface panel bracket	3