Trendsetter VLF - 20W Debris Removal Upgrade

Site Questionnaire and UDRC Order Form

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Revision History

Revision	Date	Author	Comments
A	Jan. 21, 2002	Rick Baggett	Changes in how the required parts kits are ordered.
B	Jan 6, 2003	Angus Gillon	Changes from ECO CA00232.

creo

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1. BACKGROUND

The debris removal upgrade adds components for collecting media debris at the thermal imaging head and piping it to an external debris collection unit (UDRC-B). This questionnaire will assist the Creo Field Service Engineer and Creo Order Management to determine the parts needed for a debris removal upgrade to a Trendsetter VLF with a 20-watt air-cooled thermal imaging head (F or S speed).

The requirements for parts, tools, work effort, and downtime will vary depending upon the serial number of the Trendsetter VLF and the Field Change Orders that have been applied. A site visit is the only way to ensure an accurate assessment of upgrade needs for a particular machine**.**

2. ORDERING PARTS FOR DEBRIS REMOVAL UPGRADE

To assess what parts are needed for a debris removal upgrade:

a) Remove the right-hand (motor side) panel and the front center panel (see Figure 1).

b) Power the machine 'Off'.

c) Put on a static strap and ground it properly to the machine.

d) Perform the checks in Questions 1-5.

e) Complete the Order Fax Form and send it in to:

Order Management- Trendsetter VLF, Creo
Fax #: 604.451.2785

A worksheet is also provided to help estimate how long the upgrade will take. Be sure to schedule adequate downtime with the customer.

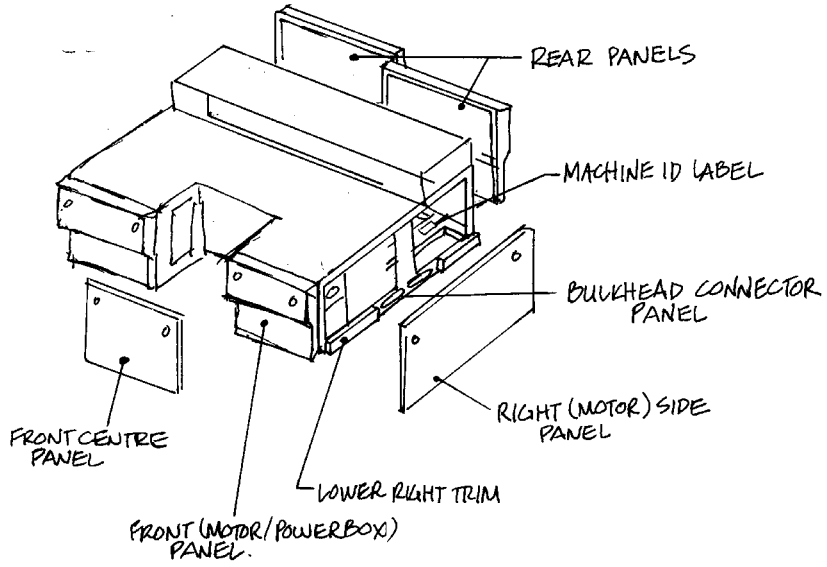


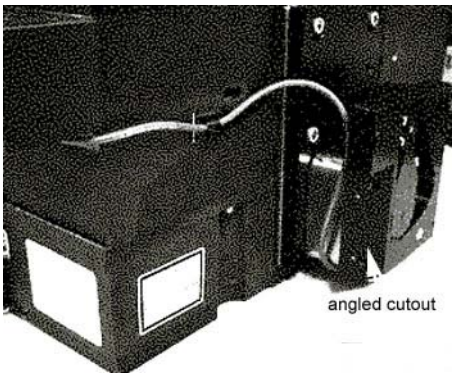
Figure 1: Trendsetter VLF Panels

3. TOOLS NEEDED

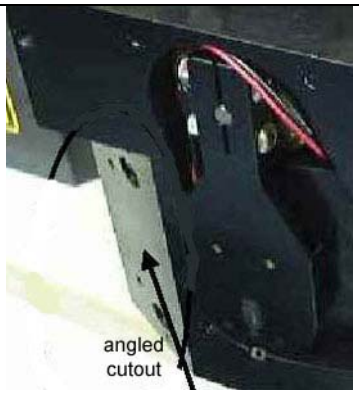
- 8mm and 4mm hex keys
- Large straight-slot screwdriver
- Static strap
- Small mirror
- Flashlight

4. QUESTIONNAIRE

1. **Does the Thermal Head Assembly have the correct air jet/shutter?**
   Check that the air jet/shutter assembly on the thermal head has an angled cutout to accept the debris nozzle, as shown in Figure 2.



(a) Location of angled cutout on head



(b) Close-up of angled cutout

Figure 2: Air Jet/Shutter Assembly with Cutout

As well as a visual examination, you can also inspect the "100 label" on top of the Head. If box #6 is colored in, then the Head has the correct air jet/shutter assembly. Another option is to e-mail the Head serial number to the Thermal Head team, who will review the configuration records to determine if the air jet/shutter assembly part number is 32-4017A-D or higher.

What to Order: If the existing Head does not have the assembly, then you must consider whether to order a replacement Head or postpone the installation of the Debris Removal Upgrade until the existing Head is being replaced for other service issues.

2. **Does the device have the new-style bulkhead connector panel?**
   Inspect the printed labels on the bulkhead connector panel on the lower right base-frame. The new style bulkhead connector panel features a 15-pin cutout for an internal chiller-filter cable. Machines with serial numbers B082 to B117, B123, B131 and onwards should already have the new bulkhead connector panel.

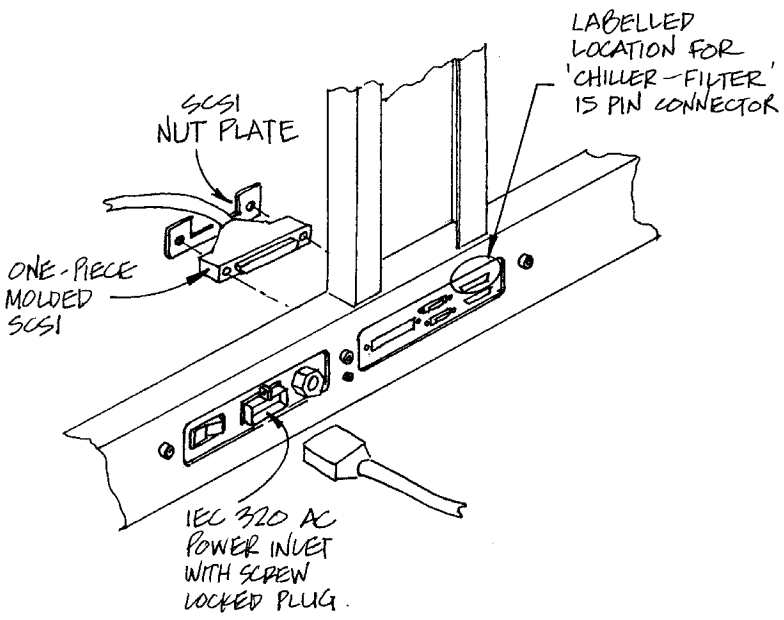


Figure 3: New Bulkhead Connector Panel

What to Order: If you do not see the connector label "Chiller/Filter", then order a new style bulkhead connector panel. A new hard-wired AC power cord and a longer 'serial' cable (10-1430A) will be included with the new 2 piece bulkhead plates.

3. Is the Carriage the latest version?

Check that the carriage has the two milled pockets that were introduced with Carriage Assembly 50-1211**B**. These pockets are required to mount the debris hose support brackets. The part number label is located on the front edge of the carriage by the home/away board. Machines with serial numbers after B94 should already have the correct carriage.

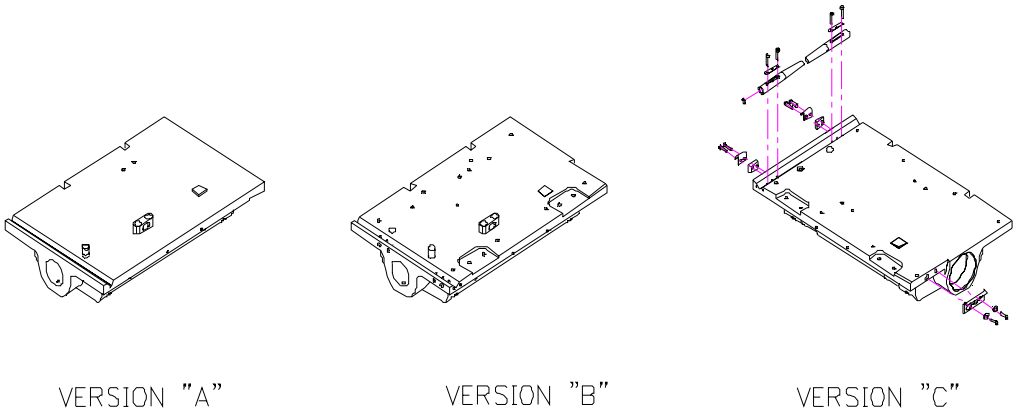


Figure 4: Carriage Versions

What to Order: If the carriage is version 50-1211**A**, order 50-2699A.

4. Does the device have the latest base frame?

Check for two holes in the base-frame that will accommodate the debris removal hose components. One is elliptical in shape and the other circular, and they are covered by a lower exterior trim piece. Instead of removing this trim piece, peer through the right side of the machine near the corner of the power box. Look at the inside frame-rail (a mirror comes in handy) for two screw mounted panels or two fitted 'knock-outs' covering these holes. The 'knock-outs' are flush with the frame member but are outlined by a visible seam. Machines with serial numbers after B077 should have the holes pre-punched.

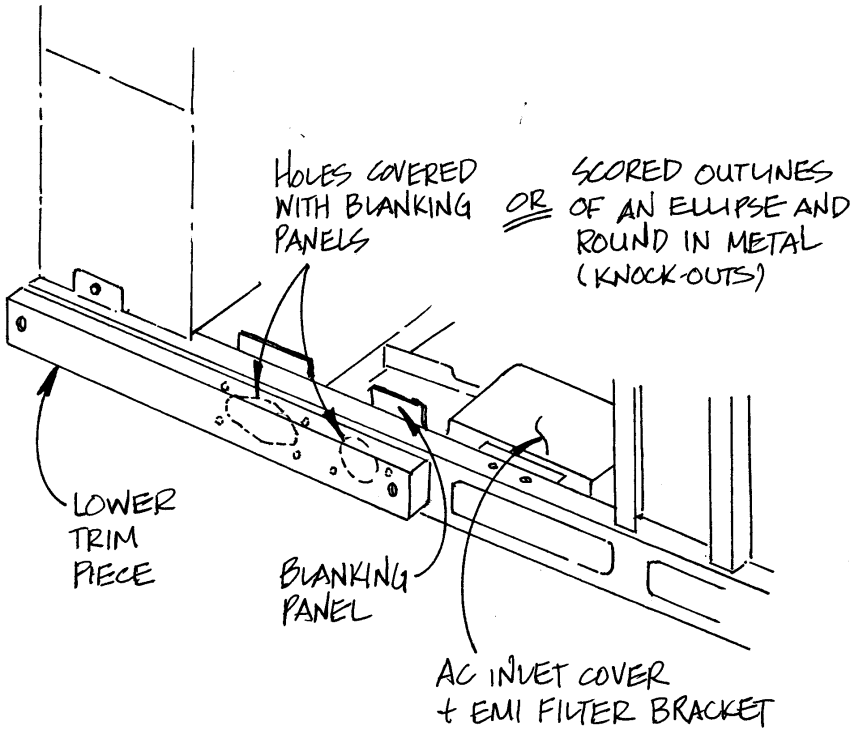


Figure 5: Covered Holes (or 'Knock-Outs')

What to Order: If you do not find evidence of pre-punched or 'knock-out' holes, order a special punch kit (50-1606A) in advance from the Regional Office.

5. Is an electrical receptacle ready for the Debris Removal Cabinet?

The Debris Removal cabinet requires a separate AC power outlet.

- In North America: a dedicated 15A, 200-240V branch circuit and L6-15R receptacle.
- In Europe, Australia, and S.E. Asia: A dedicated 16A, 200-240V branch circuit with standard receptacle and mating plug.
- In Japan: A dedicated 15A, 200V branch circuit and L6-15R wall-mount receptacle or wiring to connect to the supplied L6-20P plug.

5. ESTIMATING TIME REQUIREMENTS

Use your answers to the questionnaire to select tasks in the right-hand table that will need to be completed. Tasks in the left-hand table will always need doing. Add up both tables to estimate the total time required for the debris removal upgrade.

Hrs.	Work tasks always required
0.25	Backup old firmware and parameters
1.5	Install air jet plate and debris nozzle kit
0.5	Install Head
1.0	Install internal debris removal hose
0.5	Install the vacuum sensor board
0.5	Install 'chiller-filter' connector and cable to bulkhead panel
0.5	Complete connections to Debris Cabinet
0.25	Set NVS firmware parameters
1.0	Integrate and test
2.0	Contingency for troubleshooting
8.0	

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√	Hrs.	Work tasks sometimes required
❑	1.0	Replace bulkhead connector panel
❑	2.0	Replace carriage assembly
❑	2.0	Cut holes in base frame
❑	0.5	Upgrade firmware

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6. ORDER FAX FORM (UDRC UPGRADE FOR TS VLF)

Fill in the parts required for this specific UDRC Upgrade, based on your answers to the questionnaire. Order Management will use this information to supply all the kits you need.

Fax to:

Order Management- Trendsetter VLF, Creo Products
Fax #: 604.451.2785

DESCRIPTION	YES	NO	IF YES, KITS/PARTS REQUIRED
UDRC Cabinet Kit	✓		**11-0866A**
UDRC to VLF Parts Kit	✓		**518-00028A**
UDRC Attachment Kit North America, South America or Japan			11-1068B
UDRC Attachment Kit Europe, Australia or SE Asia			11-1069B
Thermal Head *(Question 1)*			32-4005B for F-speed **or** 32-4089B for S-speed
Bulkhead Panel Kit - B01 to B130 only *(Question 2)* North America, South America or Japan			Panel kit: 05-2038 Power cord: 16-4030A
Bulkhead Panel Kit - B01 to B130 only *(Question 2)* Europe, Australia or SE Asia			Panel kit: 05-2038 Power cord: 16-4190A
Carriage - B01 to B94 only *(Question 3)*			50-2699A: Carriage assembly 57-3407A: Flex tube
Punch toolkit - B01 to B77 only *(Question 4)*			50-1606A Order from Regional Office

Report completed by: _____ Date: _____

Machine Serial Number: _____ Thermal Head Serial Number: _____

Site Name: _____

Site Location:_____