


# UPGRADE TFX DR NOZZLE W/MORGAN CABINET

# THERMOFLEX (VLF FORMAT)

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# Revision History

| Revision | Date | Author | Comments |
|---|---|---|---|
| A | DEC 4/01 | J BLOK | INITIAL RELEASE ECO C967 |
| B | 24 JAN 02 | Z. PFRIMMER | EDITING – UDRC clarifications |
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# 1. PURPOSE

The new nozzle available for TFX offers better protection for the window from debris and plate fly-off and little to no setup is required to install it. It is also designed to be compatible with the Universal Debris Removal Cabinet (UDRC) when it comes online and is more effective at removing debris with the Morgan cabinet in the interim. The Morgan cabinet is the original cabinet with the VLF Thermoflex machine p/n 11-0557E, named Morgan, designer namesake, for the purpose of this document.

# 2. RELATED DOCUMENTATION

ECO C967

ECO E565

BOMs 50-2130C & 05-0245

TFX Head install documentation – see technical library

Documents for 10-4146B

73-3706A – upgrade both nozzle and UDRC

73-3705A – upgrade UDRC only

# 3. TOOLS

Flathead screwdriver

Allen key set

TFX head power disconnect tool

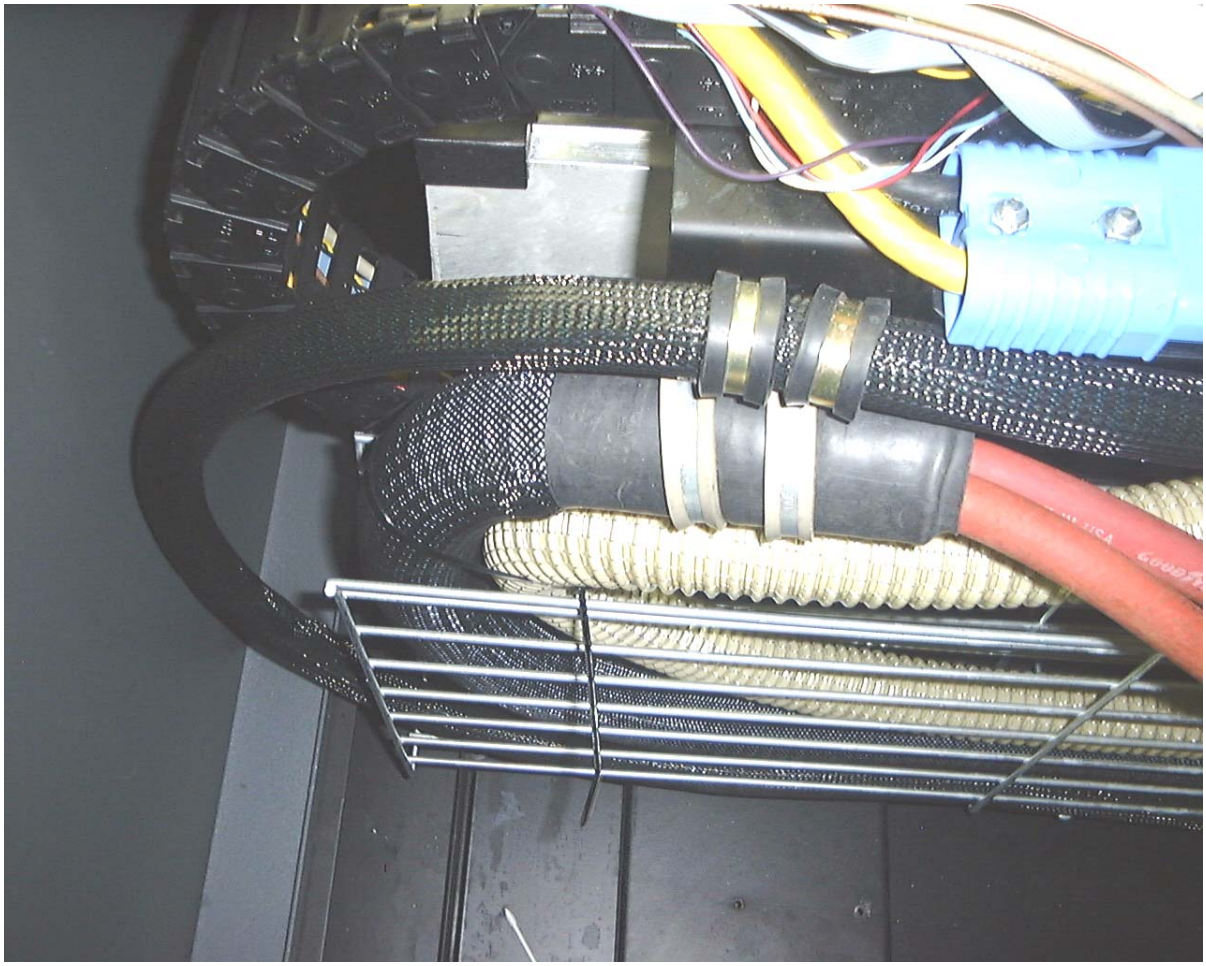
# 4. PROCEDURE

There are three components to the upgrade:

- Removing old parts
- Installing new parts
- Set-up of the debris removal nozzle.

## 4.1 REMOVE PARTS

1. Remove TFX Head and place in a secure, ESD safe location for reinstallation later
2. Remove the adapter plate (this should be returned to Annacis for rework to revision C)
3. Remove the ¾” PVC debris removal hose from the inside of the machine
4. Temporarily remove the hose clamps and chiller hoses from the Flex-track bracket



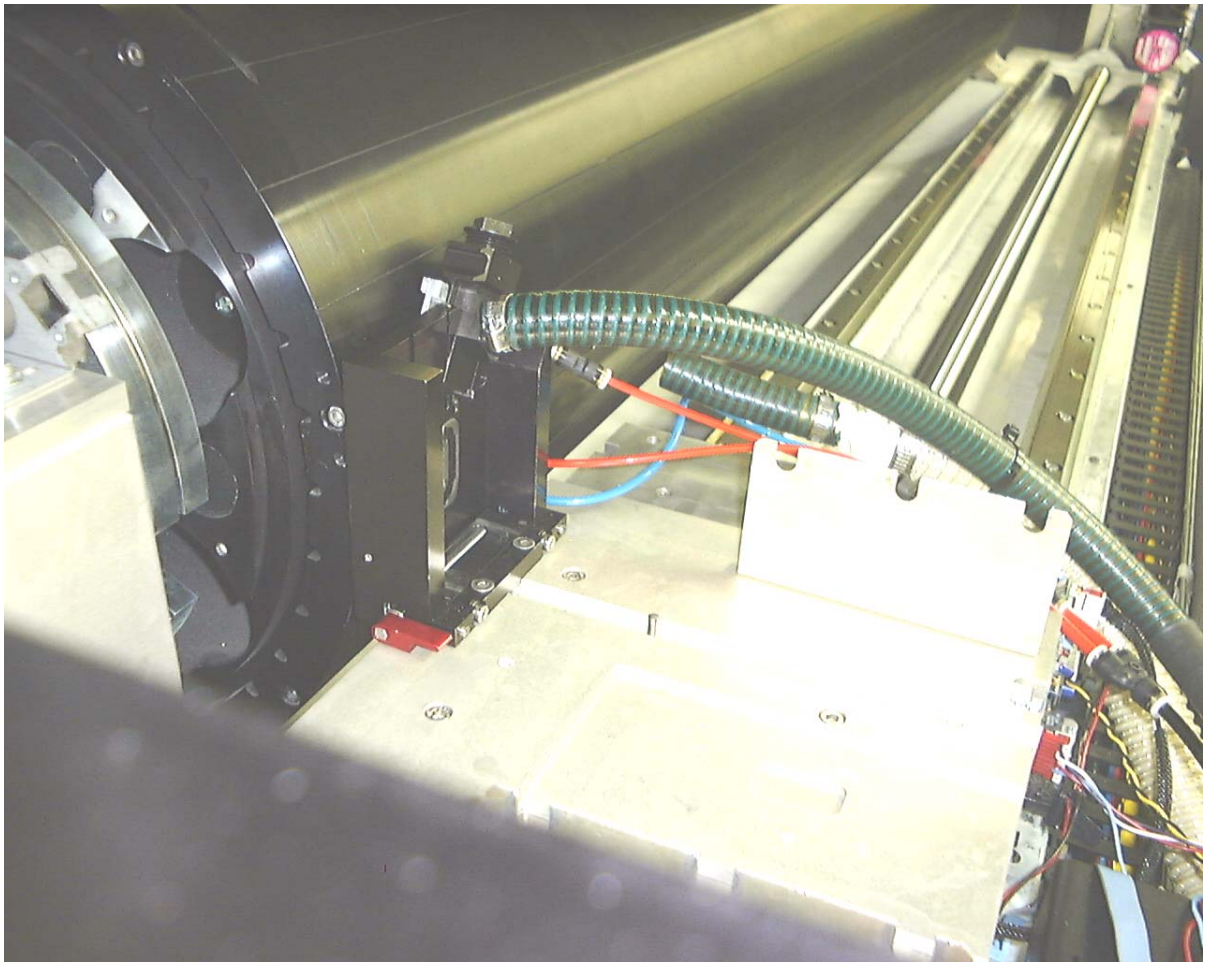
5. Remove the debris removal hose bulkhead (near power switch) but leave the ¼” tubing to the TEE board installed.




## 4.2 INSTALL PARTS

1. Install the adapter plate 57-5765B-C, ensure that the alignment blocks are correctly installed and that the plate is aligned.

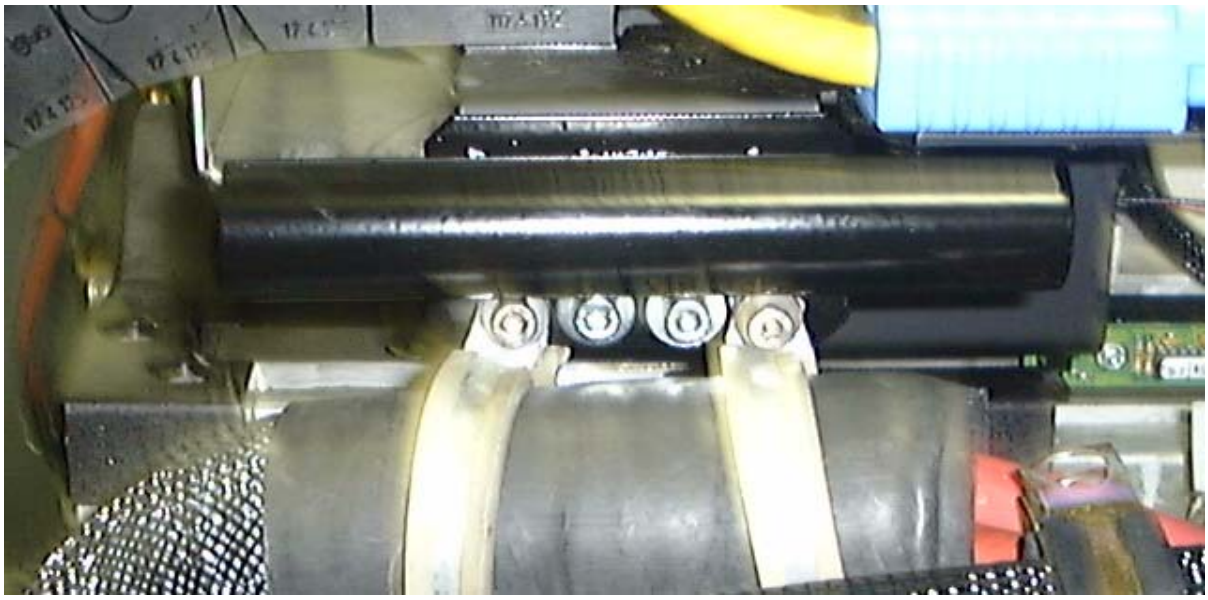
2. Install the debris removal nozzle 50-2130C onto the adapter plate. The two screws should be partially installed and final tightening should occur on the home side first, this will ensure that the part references to the adapter plate correctly.



3. For future expansion to the UDRC system, run 5/32” hose through the flex track to the TEE tray. Connect the hose to the straight barbed fitting on the suction nozzle (pg. 3 of 50-2130C) and plug other end (at TEE tray) with parts 55-0423 and 55-0162. See 50-1599B and 73-3706A (or 73-3705A) for installation of and connection to 13-5128 sensor for UDRC.

4. Install Flex-track hose union 57-9338A. This should be installed such that the screws are below the tube because the debris removal hose should be outside of the chiller hose. Only two of the holes are required for mounting of the union, the other two are provided as clearance for the chiller hose brackets.

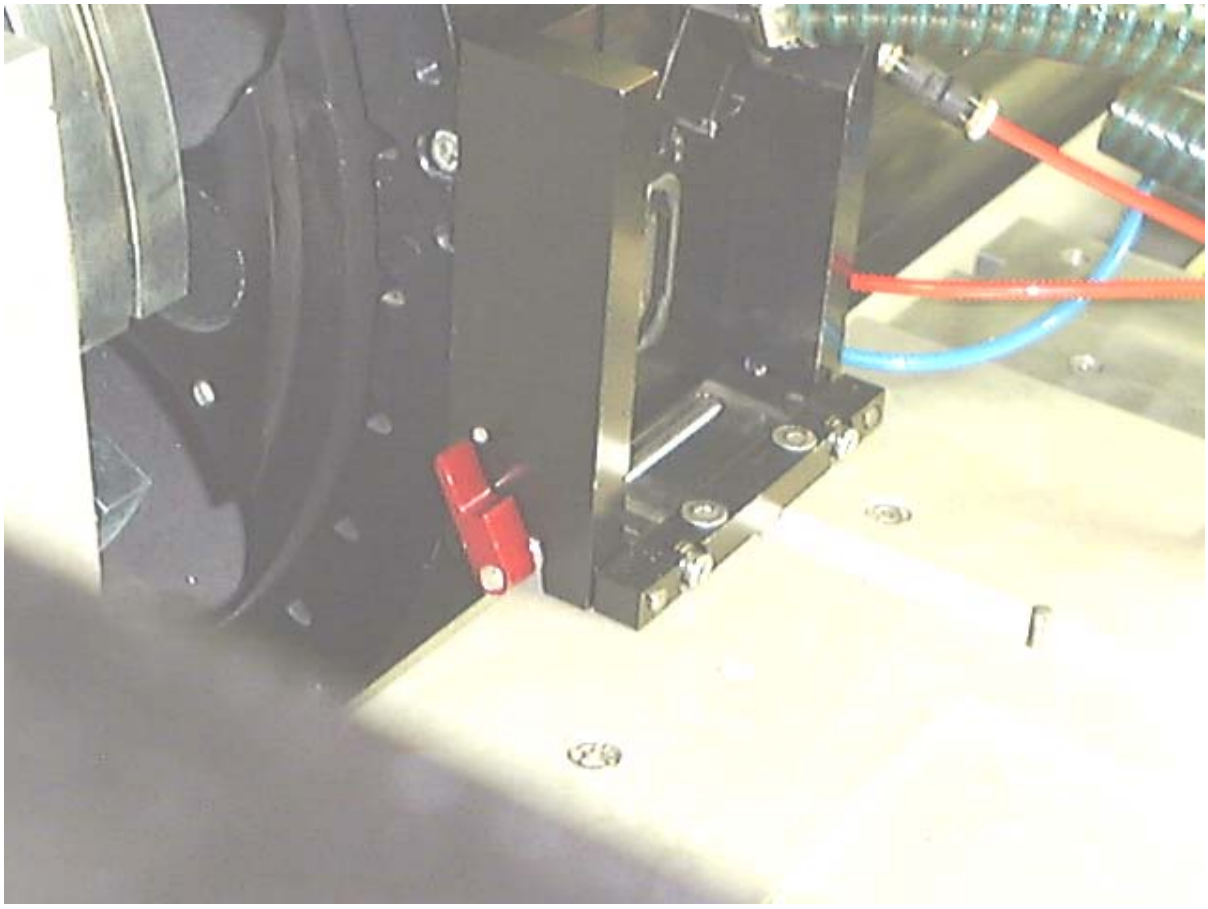
5. Bolt the chiller hose brackets and hose back onto the flex track through the remaining two holes.



6. Install the bulkhead fitting 50-1733B in the same manner as the previous version and ensure that the ¼" tube to the TEE board is connected to the bulkhead tap.
7. Install the hose assembly 50-1953B such that it is outside of the chiller hoses to both the bulkhead fitting and union fitting with hose clamps provided.
8. Run the flexible corrugated clear PVC hose from the nozzle to the union using hose clamps at either end, arrange such that there is the least amount of force on the nozzle.
9. All the tube connections to supply the airjets are found on the away side of the nozzle. There is a line of ¼" tubing from the manifold which is supplied by air when

   >>act dblow

   is entered at the terminal. This tube should be divided by a reducing Y into two 5/32" tubes, of which, one is further divided into two 5/32" tubes. The second set of lines should be connected to the blue (top) and green (bottom) elbow fittings. The singly divided line should be connected to the orange (middle) elbow fitting.
10. Install cable 10-4146B as per wiring documents
11. Reconnect ¾" external PVC hose to the Bulkhead fitting. Externally the machine looks exactly as before the upgrade.
12. Reinstall the TFX head as per the installation document.



**Note:** The nozzle should be at its forward position with the z-stage home when the head is installed and only after the flexure blades are tightened should the nozzle be pushed back.

**WARNING: Do not plot with the nozzle in the forward position as this will cause damage to the output device as well as exposure head**

## 4.3 SETUP

This system requires almost no setup.

Check that the air pressure reading at the regulator into the machine is set to 80psi.

Check that the Morgan cabinet is operating correctly and that the filter is changed appropriately. It is recommended that the cabinet be supplied by 240V for best nozzle efficiency and filter life.

Should the image quality be unacceptable use a rotameter to determine if the flow is acceptable. It should be 26.25cfh at 77psi in the main airline. Also ensure that the suction nozzle is clean. The image quality is very susceptible to the head being incorrectly set-up please ensure that all parameters are correct.