

TH2 Debris Removal Nozzle

Installation Document

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Revision History

Revision	Date	Author	Comments
A	April 4, 2001	Vince Beyer	Original Document. This is intended to be used as a guide to be implemented into various output devices' documentation.
B	Feb 20, 2002	Vince Beyer	Release document on ECO E593.

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1. DOCUMENT PURPOSE

This is not a field-released document. This document is intended to be used as a guide for output device documentation. Since each output device may have various implementations of the debris removal system, such as hose routing. Each output device is responsible for incorporating this document into their debris removal documentation.

2. SPECIFIC TOOLS REQUIRED

- 2.5mm Hex Key
- Knife, Diagonal Cutters, or Scissors for Cutting Tubing

3. LIST OF MATERIALS

The kitted nozzle assembly, 50-2331A should contain the following parts:

- TH2 debris removal nozzle with attached hoses and pressure regulator.
- QTY 3, M4x12 Flathead Screws (0240)
- QTY 1, M4x25 Flathead Screw (0250)
- QTY 1, Nozzle Mounting Lip (machined part) (0260)
- QTY 6, Adhesive Cable Tie Mounts (0270)
- QTY 10, Cable Ties (0280)

4. INSTALLATION ON THE THERMAL HEAD

1. Remove the TH2 thermal head from the machine. If there is a whisker jet bar on the front of the head (mounted below the TH2 final window), remove it.

2. Install the nozzle mounting lip (0260) onto the bottom 2 holes on the TH2 head, with one M4x12 screw (0240) and the M4x25 screw (0250). See figure 1 below.



Figure 1. Install the mounting lip.

3. Carefully place the TH2 debris removal nozzle on the head as shown in figure 2 below, and bolt it to the head with two M4x12 screws. Fasten the two screws evenly and securely.

CAUTION: Take care not to scratch the final window optic on the TH2 head while installing the nozzle.

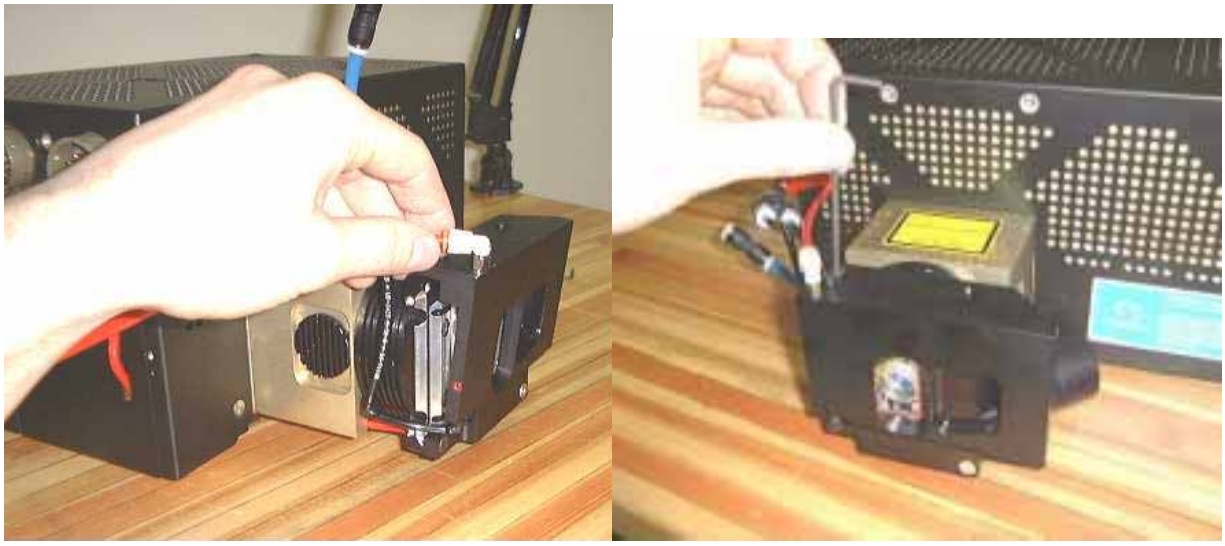


Figure 2. TH2 debris removal nozzle mounting.

4. Route the hoses of the debris removal nozzle around the side of the head with the cables. See figure 3 below.

5. Install the thermal head onto the carriage, plugging in all the cables.

Note: The built-in air jet (or whisket jet) fitting on the TH2 head does **NOT** get used when using the debris removal nozzle. The TH2 head air dryer line, however, should be used as normal.

6. The red ¼" air hose from the nozzle can be tucked under the TH2 power cables, so that it remains secure. If necessary, make use of the cable ties (0280) and/or cable tie mounts (0270) to ensure the air line is secure.

7. The blue 6mm hose from the machine pressure sensor should be routed through the cable track, and can be routed to the nozzle in a similar fashion to the ¼" red hose (see #6 above). Plug this hose into the blue hose on the nozzle via the Pisco 1-touch fitting (there may be a plug in the Pisco fitting that will require removal). If the machine is not equipped with a nozzle pressure sensor, then secure the nozzle's blue hose to the thermal head with a cable tie (0280) and mount (0270).

8. Attach the 1.25" diameter machine vacuum hose to the nozzle and secure it with a hose clamp.

9. Route the long red ¼" line through the cable track in the output device.

10. The pressure regulator with built in gauge can be installed in the ¼" red hose before or after the cable track.

Note: The pressure regulator is directional; please ensure the arrow on the regulator points in the direction of the airflow.

Trim the ¼" red hose to the appropriate length with scissors if required.

11. Plug the machine's supplied air hose into the barb fitting in the red ¼" hose leading to the pressure regulator. This barb fitting can accommodate a ¼" or 6mm diameter air hose, whichever is supplied by the output device.

12. Turn on the air jet, and set the pressure regulator to the pressure (psi) indicated on the label on the side of the pressure regulator. If there is another flow control valve on this air hose, such as a needle valve at the pneumatic manifold, this should be set and remain fully open before setting the nozzle's pressure regulator.

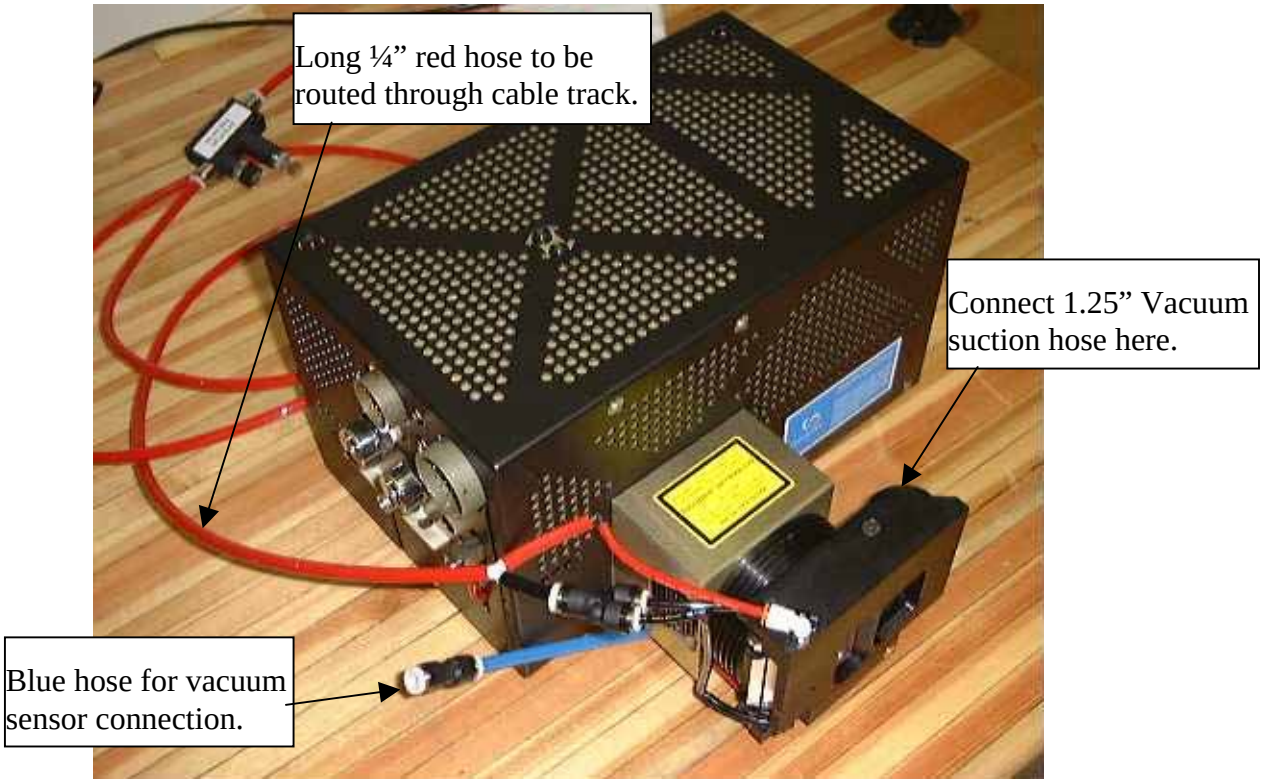


Figure 3. Suggested nozzle hose routing near the thermal 2 head.