Thermal 2 head
Cleaning the Debris Removal Nozzle

1. RELATED DOCUMENTS

This document is available from the Procedures page on the Thermal 2 site of TechPlanet (**TechPlanet Home**>**Output**>**Heads**>**Thermal 2**>**Procedures**).

- Thermal 2 Window Cleaning Procedure

2. PROCEDURE

The debris removal nozzle needs to be removed when swapping a head or cleaning the final window. You must proactively clean the nozzle every time you swap out a head or clean the final window.

Check Figure 1 below to see what style of nozzle you have:

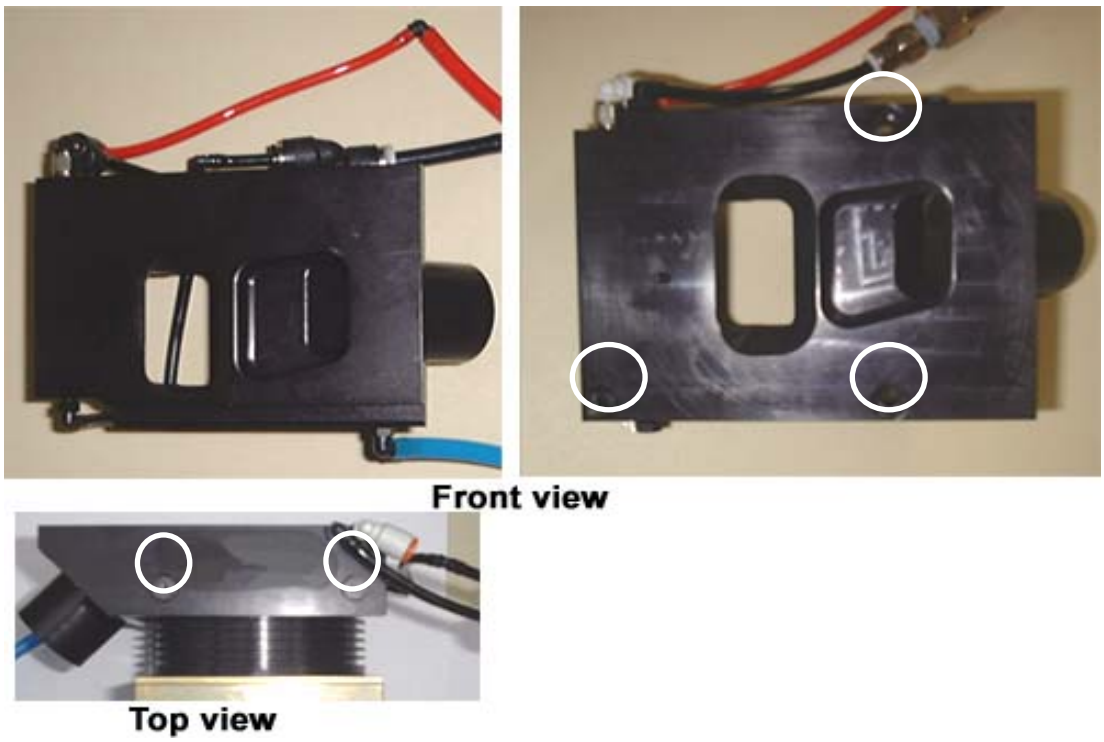


Figure 1: New style (left) and old style (right) nozzles

1. Remove the head from the device and place it on a safe work surface.

Note: NEW STYLE ONLY: If you are not going to clean the final window, you do not need to remove the head from the device. To remove the nozzle, unscrew the two top screws and lift the nozzle up. *Be careful not to scratch the final window.*

2. Remove the nozzle from the thermal head as shown in Figure 2.

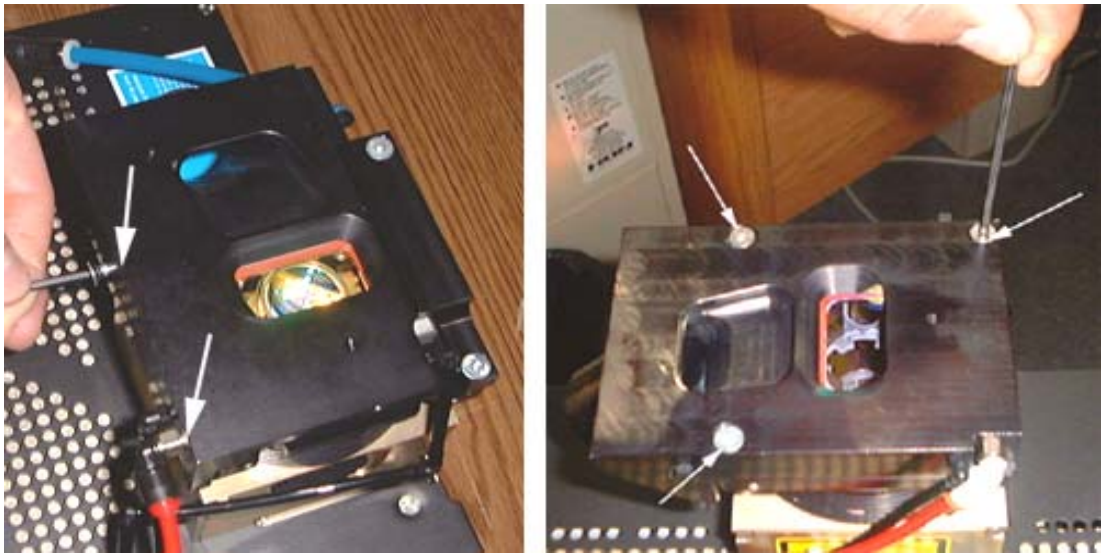


Figure 2: Removing the nozzle: New Style (left) and Old Style (right)

3. Disconnect all air lines:
   - Old Style: Disconnect the air line at point 1 (see Figure 3).



Figure 3: Disconnect the air line at point 1

- New Style: Disconnect air lines at points 1, 2, and 3 (see Figure 4).

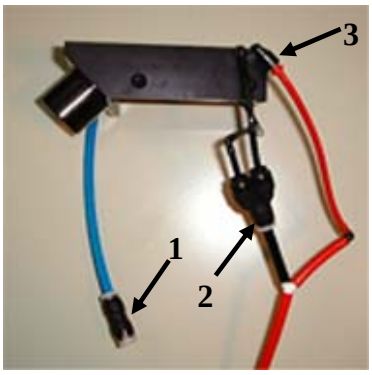


Figure 4: Disconnect air lines at points 1, 2, and 3.

4. With a flashlight, inspect the vacuum orifice for debris accumulation on the surfaces. Clean out the debris. See Figures 5 and 6 for more detail.

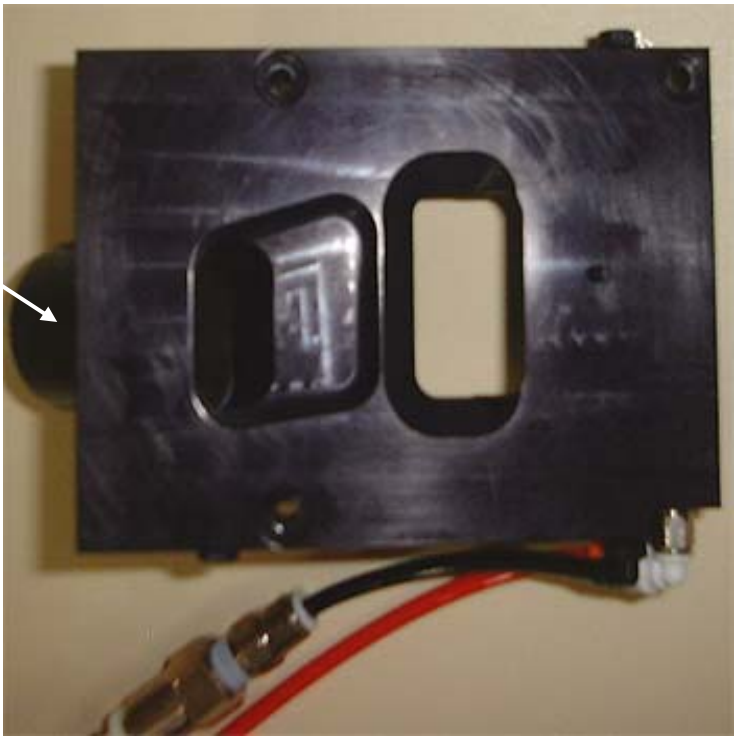


Figure 5: Old Style Nozzle Detail

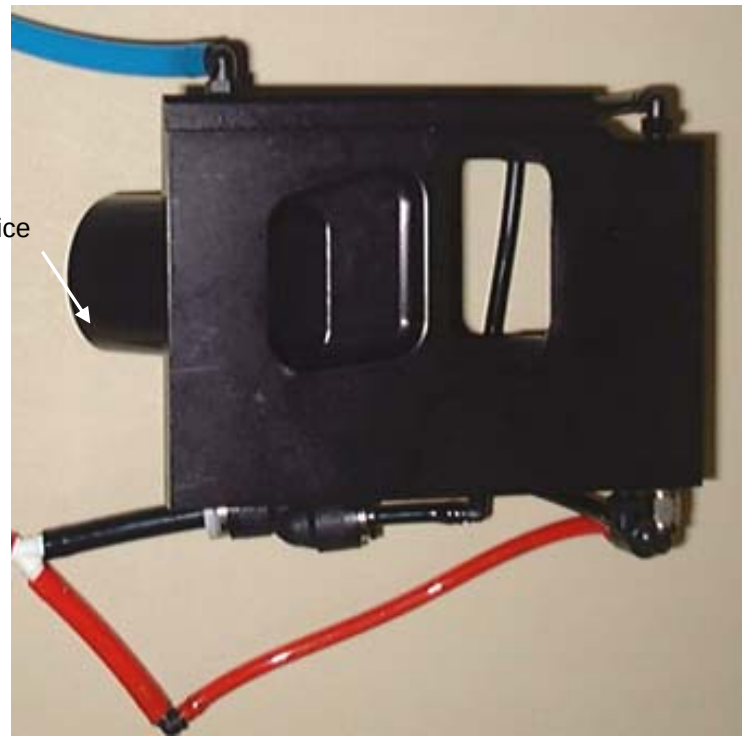


Figure 6: New Style Nozzle Detail

5. New Style Only**:** Clean the pressure tap hole:

   a. Locate the pressure tap hole (see Figure 7).



Figure 7: Locate the pressure tap hole

   b. With a can of compressed air, blow air down the blue pressure sensor hose (see Figure 8).



Figure 8: Blowing air down the pressure sensor hose.

CAUTION: If you blow air into the hose leading to the pressure sensor in the device, you will likely break the sensor.

c. Clear the debris from the vacuum orifice.

d. Blow air down the pressure tap hole in the nozzle again, to be sure it's clear of debris.

Note: You must be careful not to re-clog the pressure tap hole when you are clearing the debris from the rest of the nozzle.

6. Inspect and clean the final window, if necessary. See *Related Documents* for this procedure.

7. Reinstall the nozzle on the thermal head.

8. Reinstall the head on the device.