REPLACING THE WINDOW 30-1139D (SCREW STYLE)

Related Documents

All documents are available from the Procedures page on the Thermal 2 site of TechPlanet (**TechPlanet Home**>**Output**>**Heads**>**Thermal 2**>**Procedures**).

- Thermal 2 Head Window Cleaning Procedure
- TH2 Debris Removal Nozzle Cleaning Procedure

Tools and Parts Required

- Small flashlight
- Torque Limiting Screwdriver with a 50 Thou hex-key tip
- 2.0-mm T-handle hex key
- Window 30-1139D
- Anti-static bracelet

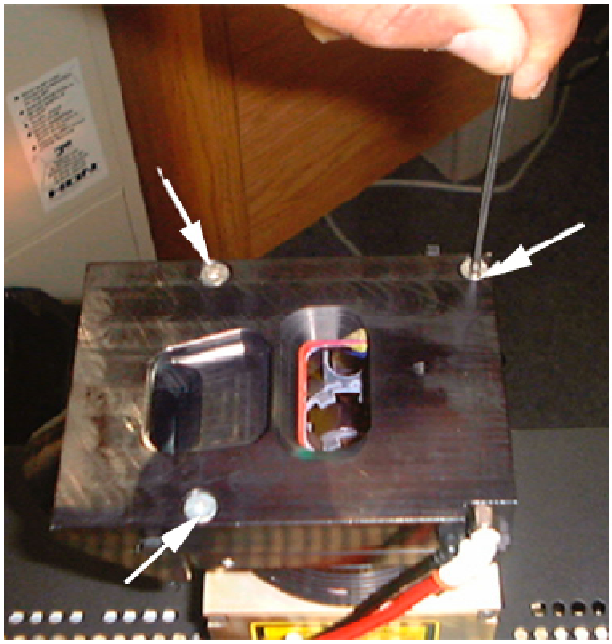
When to Replace the Window

- When troubleshooting a faulty TH2 window
- If the final window is scratched

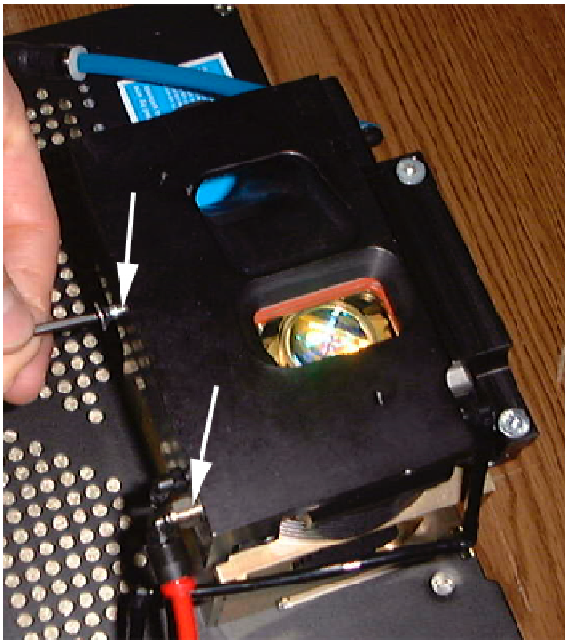
Replacement Procedure

1. Wearing an anti-static bracelet remove the head from the device and place it on a safe work surface.

2. Remove the debris removal nozzle by unscrewing the screws shown in Figure 1. Note that there are two different styles of debris removal nozzle.



Old Style Nozzle



New Style Nozzle

Figure 1: Removing the Debris Removal Nozzle

3. If the head has a new style nozzle, first remove the air-jet block from the edge of the actuator. See Figure 2.

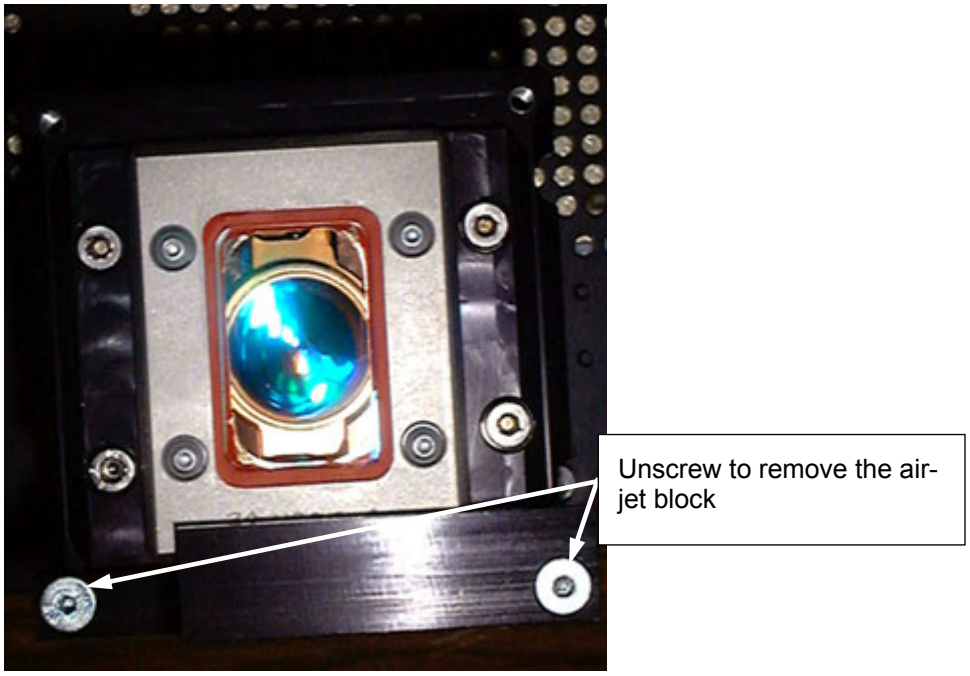


Figure 2: Remove air-jet block on New Style Nozzle

4. Clean the area surrounding the window. This prevents debris from falling into the window area.

5. Check that the new window is clean by inspecting it with a flashlight.

    a. Holding the new window in your hand or placing it on a flat surface, point the flashlight towards you on an angle, such that you can see the reflection of the window coating.

    b. Ensure that both sides of the new window are clean and free of debris, fingerprints, or any other dirt. If cleaning is required, see the *Thermal 2 Head Window Cleaning Procedure* (see Related Documents).

6. Remove the old window by unscrewing the four M3 screws that hold the window plate to the actuator housing. See Figure 3.

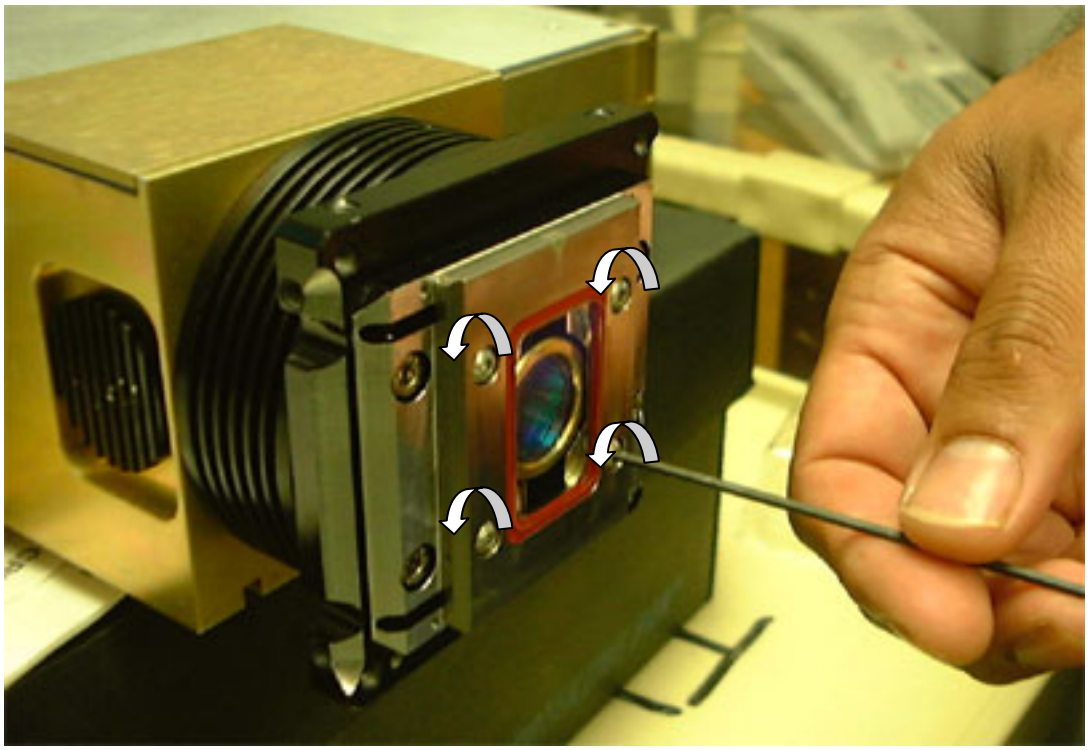


Figure 3: Removing the Old Window

7. Make sure that the O-ring is in place (part number 59-3636).

8. Install the new window by attaching the window plate to the housing (see Figure 4).

    - Tighten the four M3x8mm screws (with Belleville washers) evenly in a clockwise direction.
    - Torque the four M3 screws to 60Ncm, or hand-tighten them with a 2.0-mm T-handle hex key.

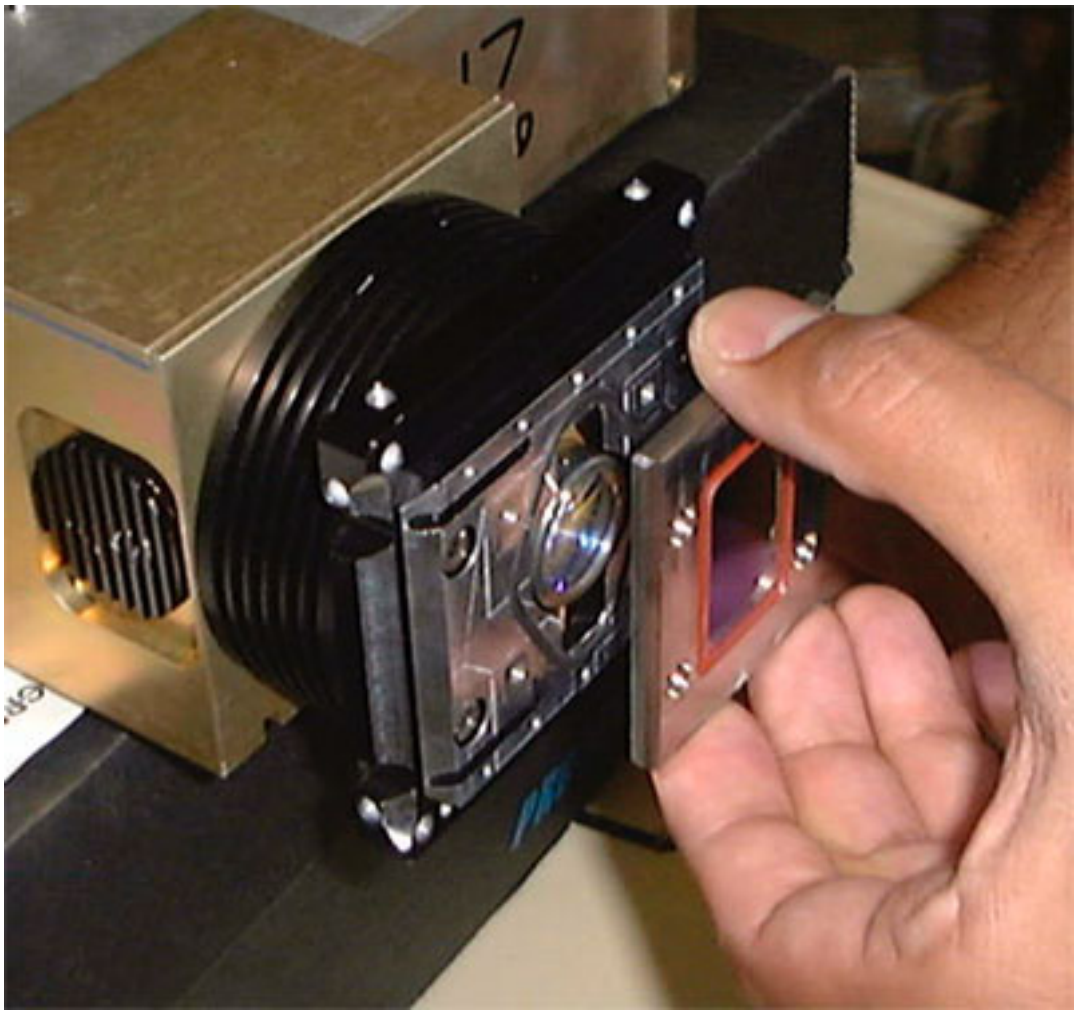


Figure 4: Installing the New Window

9. Inspect and clean the debris removal nozzle. Reinstall it on the head. See the *TH2 Debris Removal Nozzle Cleaning Procedure* (see Related Documents).
10. Reinstall the head onto the device.
11. Re-optimize the head by running a focus series and a power series.