

How do I change the projection lamp on an HFA II-i?

ZEISS Quick Help: Humphrey® Field Analyzer II-i (HFA II-i)

This lamp is responsible for projecting the standard light stimulus. With the aid of color filters, it is also used to create red and blue stimuli for color testing. If needed, you may order a new lamp by contacting ZEISS and asking for a Projection Lamp (PN 2660021106082).

1. Lower the table and turn off the HFA II-i. To remove the top access panel, rotate it counterclockwise until you align the lamp symbol on the cover with the raised dot that is molded into the top of the case (*Figures 1 and 2*).

Standing in front of the bowl opening, you will find that the projection lamp is located inside the open case top, at the 12-o'clock position. **⚠ Caution: Hot Lamp, allow lamp to cool completely (approximately five minutes) before replacing lamp. Do not touch the two disk-shaped filters.**



Figure 1

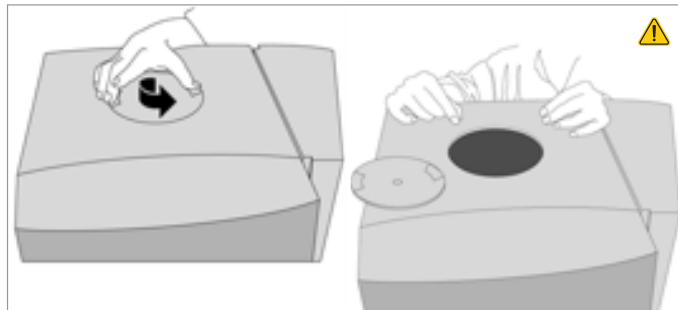


Figure 2

2. Remove the connector cable by pulling its connector straight upward (*Figures 3 and 4*).



Figure 3

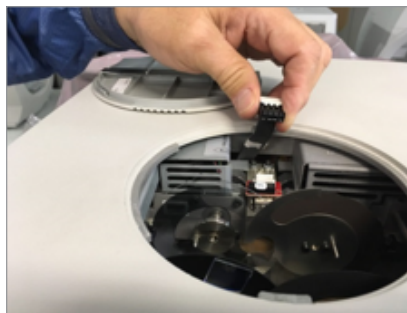


Figure 4

3. Use a screwdriver to slightly loosen (do not remove) the screw (Figure 5). Slide the wishbone-shaped plate that holds the lamp assembly in place away from you (Figures 6 and 7).

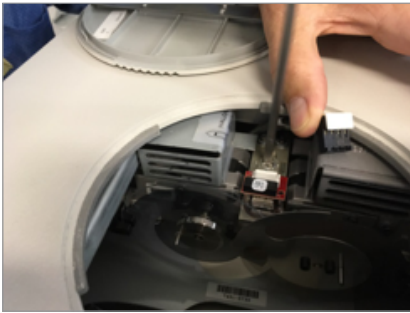


Figure 5



Figure 6

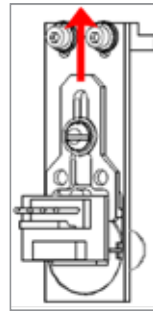


Figure 7

4. Remove the old expended lamp assembly. Carefully open the new lamp. **Do not touch the glass part of the lamp with your fingers**, as this will shorten the life expectancy of the lamp. If your finger touches the glass portion of the lamp, wipe the lamp clean with a soft cloth. Insert the replacement lamp into the housing. The notch in the base of the lamp housing lines up with the pin to the right of the assembly (Figures 8 and 9).

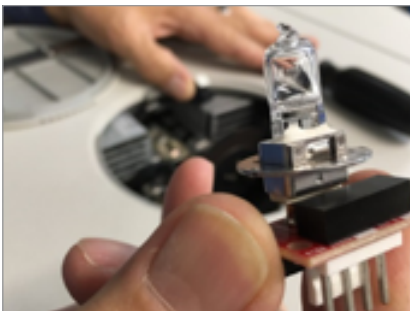


Figure 8

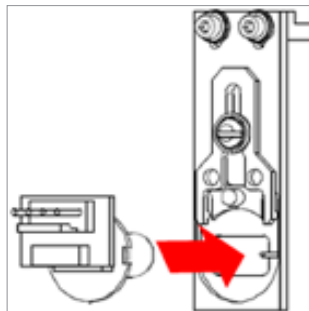


Figure 9

5. Slide plate back into position (Figure 10), tighten screw and replace connector cable (Figures 11 and 12).

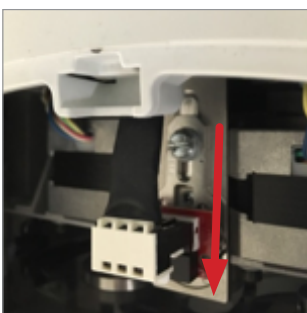


Figure 10



Figure 11

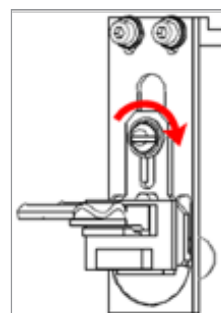


Figure 12

- To replace the top access panel, insert the panel into the opening. As you do so, align the lamp image on the lid with the raised dot on the underlying case. Rotate the panel clockwise until the lamp symbol aligns with the open-circle symbol (*Figure 13*).

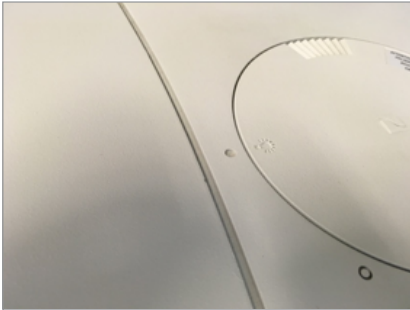


Figure 13

Background Illumination Lamps

The lamps responsible for illuminating the bowl surface are a fluorescent type (not incandescent) and have a long life expectancy. If you get a bowl illumination error, darken the room and restart the instrument to see if this corrects the problem. If the bowl illumination error continues, do not attempt to replace the lamp. These highly specialized lamps are to be replaced only by a Carl Zeiss Meditec Field Service Engineer.

Refer to the Humphrey Field Analyzer user manual *Instructions for Use* for safe and effective operation of the instrument.

