

Maintenance Procedure:
**Replacing Polystyrene Film in
IPA Module**

METTLER TOLEDO

The logo graphic consists of a series of parallel, slightly curved lines that create a sense of depth and movement, resembling a stylized 'M' or a series of steps. The lines are colored in shades of green and blue, with a gradient effect.

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Overview

Explanation—What is the purpose of this procedure?

The manual and motorized Instrument Performance Assurance (IPA) modules contain a Polystyrene film that has a one-year expiration date. For proper performance, this film should be changed on a yearly basis.

Action Items—What should you do now?

Carry out the procedure in this document to replace the Polystyrene film each year.

Tools Required

Tool	
T7 – TORX Wrench	
Philips Screwdriver	

Parts Required

Part Number	Part Name
14470001	Polystyrene Replacement Kit

Related Equipment

Part Number	Part Name
14200036	Manual IPA Module
14200038	Auto (motorized) IPA Module (option for ReactIR 45m instrument only)

Procedure: Replacing Polystyrene Film

The procedure begins with removal of the old film, followed by replacement with the new film assembly.

Removal

1. Lay the IPA module with the housing adapter facing upward.



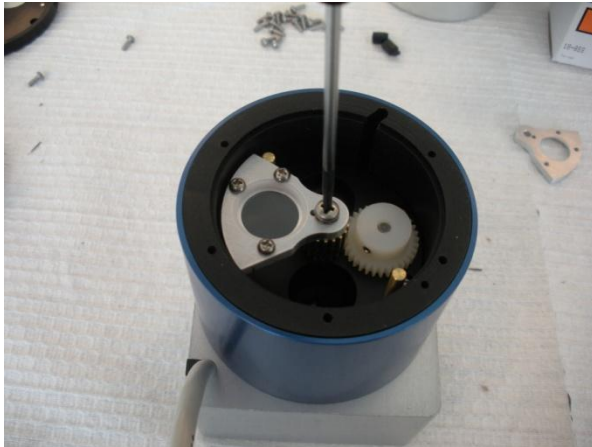
2. Remove the (6) 2-28 x 1/4" TORX screws.



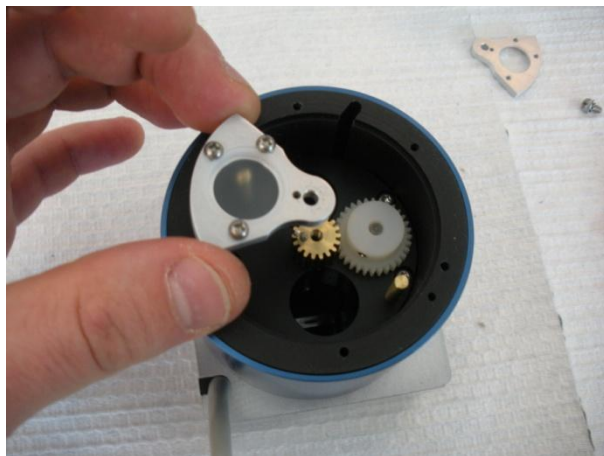
3. Remove the housing adapter from the IPA module.



4. Remove the locking screw which secures the Polystyrene holder assembly.



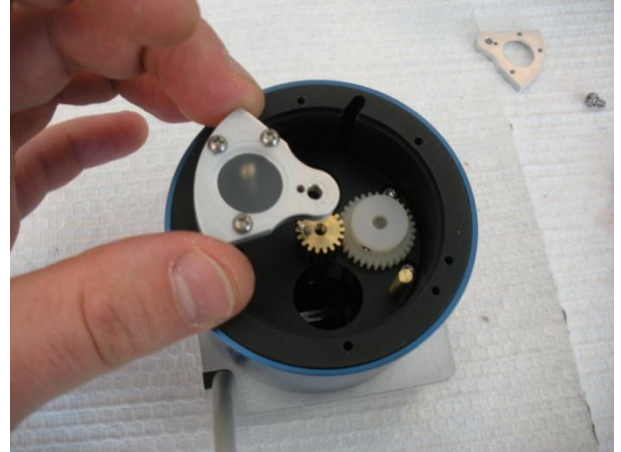
5. Remove the Polystyrene holder assembly.



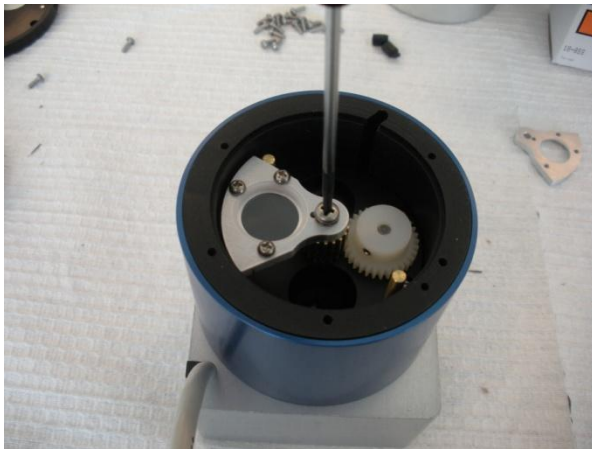
Reinstallation

1. Insert new Polystyrene holder assembly onto the pin paying careful attention to the orientation.

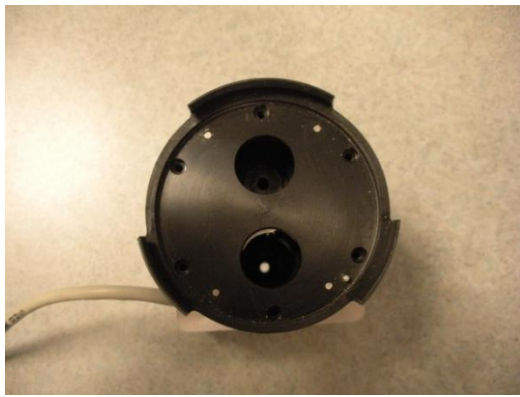
NOTE: Never touch the Polystyrene film because it is easily damaged.



2. Secure the Polystyrene holder assembly with the locking screw. Be careful not to over tighten as this could cause damage to the Polystyrene holder assembly.



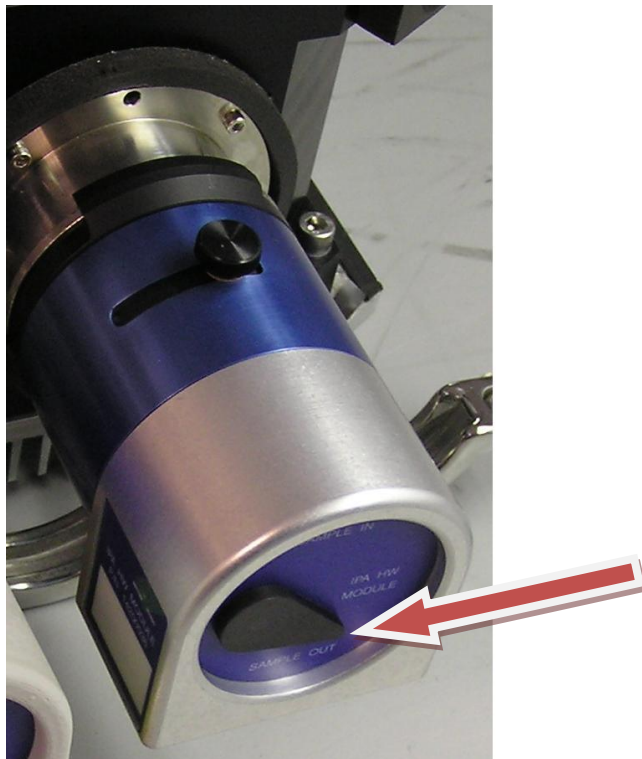
3. Reinstall housing adapter. Notice that the housing adapter is pinned. Carefully attach the housing adapter in the proper orientation.



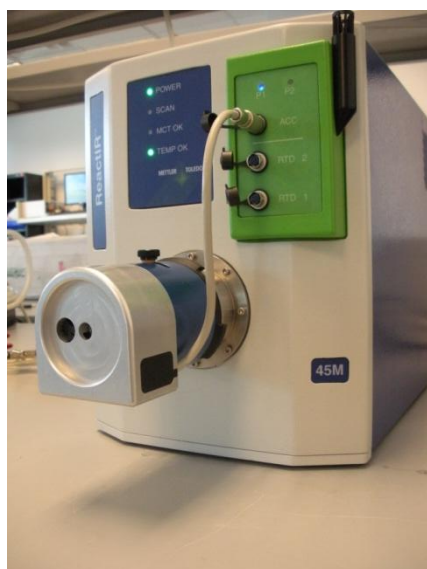
4. Secure with (6) 2-28 x 1/4" TORX screws to a snug fit. Be careful not to over tighten as this could cause damage to the housing assembly.



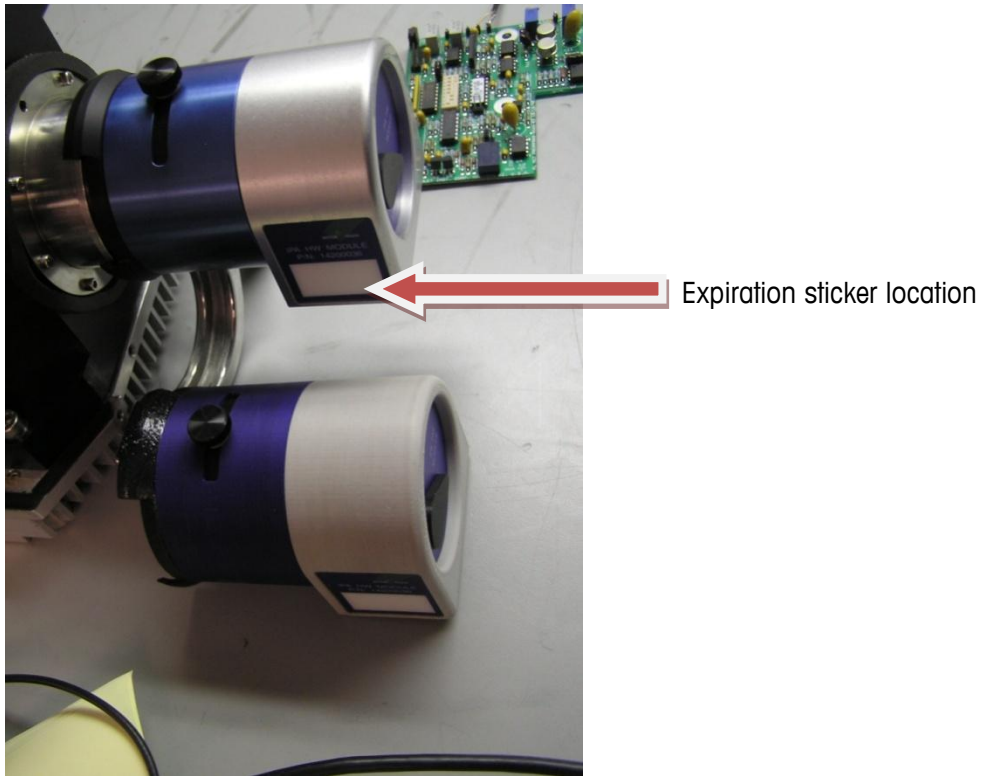
5. Move the new Polystyrene film in and out of the optical path by one of the following methods, based on whether you have a manual or automatic IPA module: (The automatic option applies to the ReactIR 45m instrument only.)
 - If the IPA module is manual, flip the sample switch between **sample in** and **sample out**, making sure that the Polystyrene film easily moves into and out of the optical path.



- If the IPA module is motorized (automatic), attach the IPA module to the ReactIR 45m instrument. Then, go to Instrument Performance task pane in iC IR software. Click **Run Validation**, select the Motorized option, and follow the wizard to move the Polystyrene film into and out of the optical path.



6. Affix the new film expiration sticker to the side of the IPA module.



7. Note the expiration date and add it to your annual maintenance schedule.