

INSTALLATION INSTRUCTIONS

PROTEK SHIELD ASSEMBLY KIT (KIT NUMBER: 017960F or 018847F)

AVIA MODELS (264-404) or ATMOSPHERIC MODELS (206A-406A)

FOR POLYMER HEADER POOL HEATERS BUILT AFTER 09/2019: CONNECTION TYPE: 2" BUTTRESS

⚠ WARNING

These instructions are for use by qualified personnel specifically trained and experienced in the installation of this type of heating equipment and related system components. Installation and service personnel may be required to be licensed in some states. Persons not qualified shall not attempt to install this equipment nor attempt repairs according to these instructions.

⚠ WARNING

Make sure water, gas, and power have been turned OFF before making any repairs or servicing this equipment. Make sure the heat exchanger is not under any pressure before attempting to service this part. Allow the appliance to cool before attempting this installation.

⚠ DANGER

SHOCK HAZARD: Make sure the electrical power to the unit is disconnected to avoid damage to components, potential serious personal injury or death.

SCOPE: Designed for field-installed heaters, this kit contains the components required to replace the ProTek Shield Assembly.

RAYPAK KIT CONTENTS:

Description	Qty.
ProTek Shield Assembly	1
O-Ring	1
Grounding Wire Assembly	1
Wing Nut	1

RECOMMENDED TOOLS:

Description
• Phillips Head Screwdriver
• Silicone Lubricant (e.g. Water Lube)
• 5/16" Nut Driver



PROTEK SHIELD INSTALLATION INSTRUCTIONS:

NOTE: ProTek Shield Assembly Kits can also be installed on non-Raypak units, provided the inlet connection type and size are compatible.

1. Turn off the electrical power to the heater.
2. Turn off gas to the heater.
3. Turn off the pump.
4. Shut off the water to the heater using the isolation valves.
5. Allow the heater to cool down before installation.
6. Locate the heater's Inlet Header.
7. Using a Phillips screwdriver, remove the four (4) screws (AVIA models) or three (3) screws (Atmospheric models) that secure the access panel to the heater, exposing the ProTek's grounding wire (see **Figures 1 and 2**).

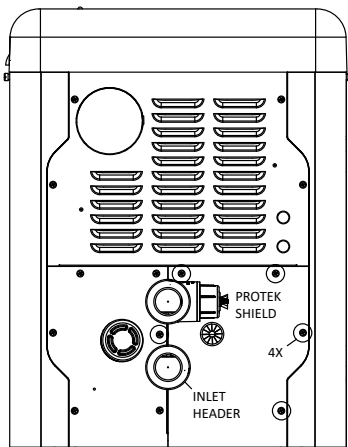


Figure 1. Remove AVIA Model Panel

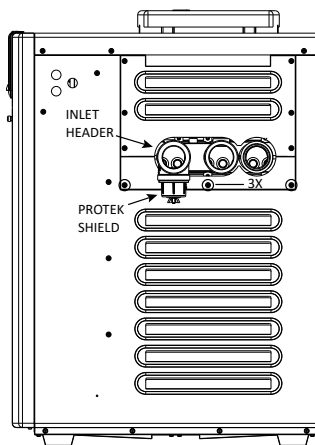


Figure 2. Remove Atmospheric Model Panel

8. Remove the wing nut and the grounding wire from the ProTek Shield™ assembly (See **Figure 3**.)



Figure 3. Remove Grounding Wire from ProTek Shield

9. Using a 5/16" nut driver, remove the header nut securing the grounding wire to the heater's inlet header (See **Figure 4**).

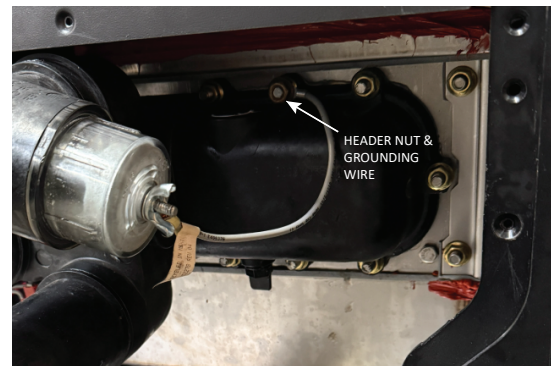


Figure 4. Remove Grounding Wire from Header

10. Remove the existing ProTek Shield assembly from the heater's Inlet Header and discard it.
11. Prepare for the installation of the new ProTek Shield assembly by applying a silicone-based lubricant to the O-ring.
12. Place the O-ring over the threaded portion of the ProTek cap (see **Figure 5 and Figure 6**).
13. Hand-tighten the ProTek Shield assembly onto the Inlet Header. Rotate clockwise until it is snug.

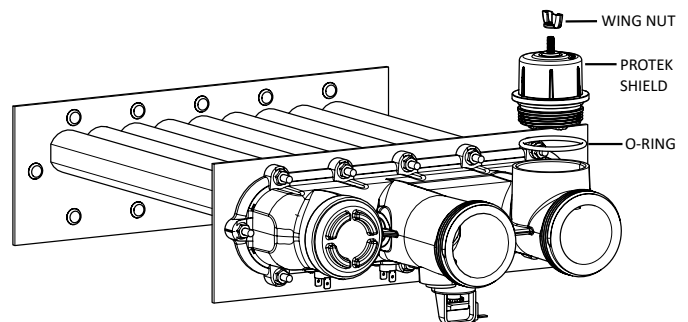


Figure 5. Atmospheric Model Header Install

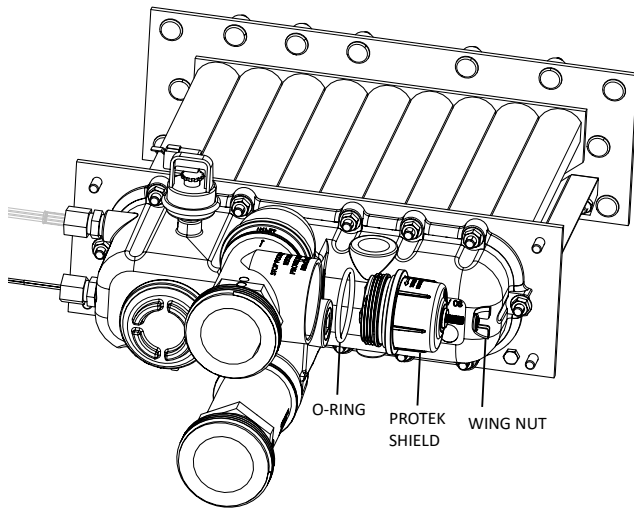


Figure 6. AVIA Model Header Install

14. Reverse **Step 9** through **Step 7** to install the grounding wire and replace the heater panels.
15. To bring your heater back into operation safely, reverse order of the shutdown in **Step 4** through **Step 1**.
16. This concludes the installation of a ProTek Shield assembly.