



UHS Heater

How To Guide




HTG-UHS17a

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How To: Program Heater Bypass Operation

Follow the included steps to place the heater in bypass mode for external control.

Step 1



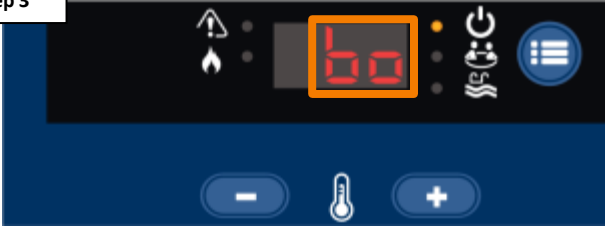
Press the 'MENU ICON' button to place the heater in 'STANDBY'.

Step 2



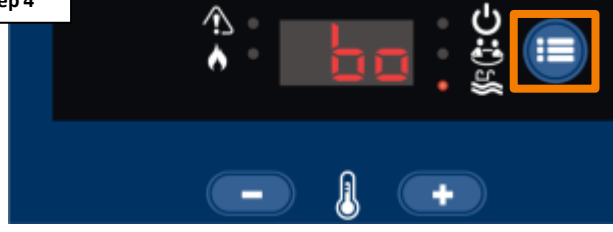
Press and hold the minus button and 'MENU ICON' button for 3 seconds.

Step 3



'bo' should appear on the display when the heater has successfully entered bypass mode.

Step 4




Once in bypass, press the 'MENU ICON' button until 'POOL' or 'SPA' is illuminated.

NOTE: the maximum temperature set point is 104° F.

How To: Program Temperature Lock-Out

Follow the included steps to place the heater in bypass mode for external control.


Step 1



Press the 'MENU ICON' button to place the heater in 'STANDBY' mode.

The image shows a control panel with a digital display, a flame icon, a temperature icon, and a menu icon (three horizontal lines) highlighted with an orange box. Below the display are minus, plus, and temperature icons.


Step 2



Press and hold the minus & plus buttons for 3 seconds.

The image shows the same control panel as in Step 1, but the minus and plus buttons are now highlighted with orange boxes.


Step 3



The 'SPA' indicator should illuminate & the display should show the Max Temp set point.

The image shows the control panel with the digital display showing '104' and the SPA indicator (a flame icon with a wavy line) illuminated. The SPA indicator and the display are highlighted with an orange box.

Step 4



Raise or lower the temperature displayed using the minus or plus button.

The image shows the control panel with the digital display showing '99' and the minus and plus buttons highlighted with orange boxes.

NOTE: The default Max temp lock-out set points are 90°F (Pool) 104°F (Spa).

How To: Program Temperature Lock-Out (cont.)

This feature is available on heaters manufactured after February 25th 2011.



Press the 'MENU ICON' button to toggle to the 'POOL' now that the 'SPA' is set.



Raise or lower the temperature displayed using the minus or plus button.



To finalize, press the 'MENU ICON' button until the heater goes back into 'STANDBY'.

NOTE: When setting the max temp lock-out set point, the LEDs & display should flash rapidly.

How To: Rotate UHS Heat Exchanger

Remember, the header does not need to be removed from the exchanger. Also, the inlet and outlet on the header will be reversed once the procedure is completed.

Step 1



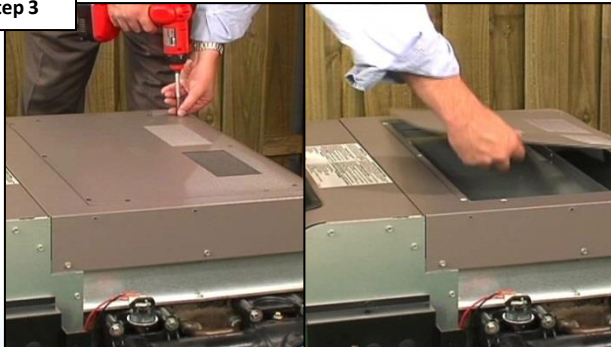
Remove the black side trim panel (4 screws).

Step 2



Remove the upper end caps on both sides of the heater (4 screws, look for the triangles showing the screw location).

Step 3



Remove the flu cover screws (10 screws).

Step 4



Remove the screws as shown (6 screws) and remove the flue cover jacket.

How To: Rotate UHS Heat Exchanger (cont.)

Step 5



Remove the rain guard (8 screws as shown).

Step 6



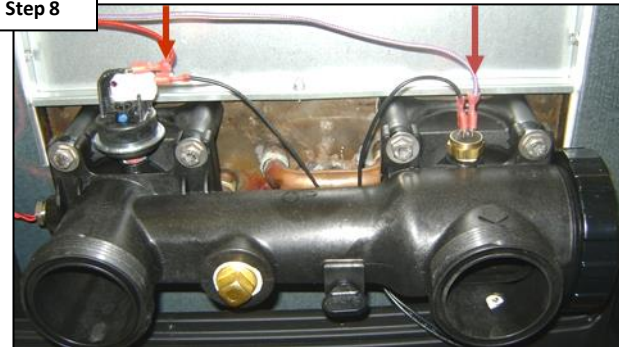
Remove the flue collector side panels (3 screws each) Be careful to not damage the insulation.

Step 7



Remove the front access panel (1 retaining screw).

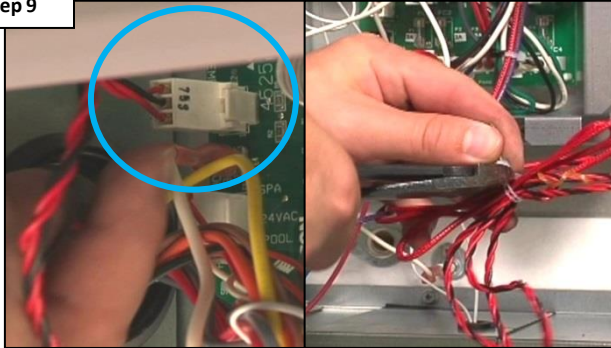
Step 8



Disconnect the **RED** wire from the pressure switch and the **VIOLET** wire from the top high limit switch. Pull wires back through hole.

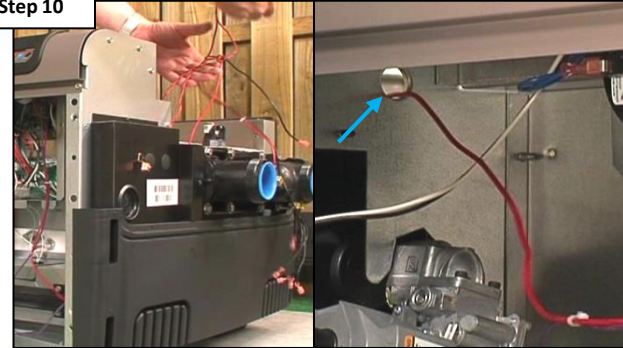
How To: Rotate UHS Heat Exchanger (cont.)

Step 9



Remove the Thermistor connection from ignition board. Cut the wire tie inside the heater as shown.

Step 10



Pull the Thermistor wire out of the heater to the header. Route the **RED** and **VIOLET** wires through the hole on the left side of heater.

Step 11



Lift and rotate the heat exchanger to the left side as shown (do not flip exchanger, flat rotate).

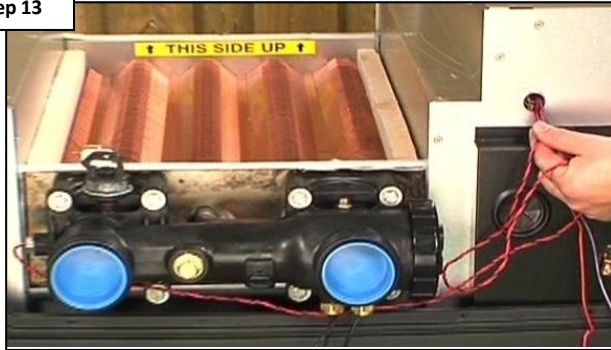
Step 12



Be careful to not damage the insulation as you lower the exchanger back into the heater cabinet.

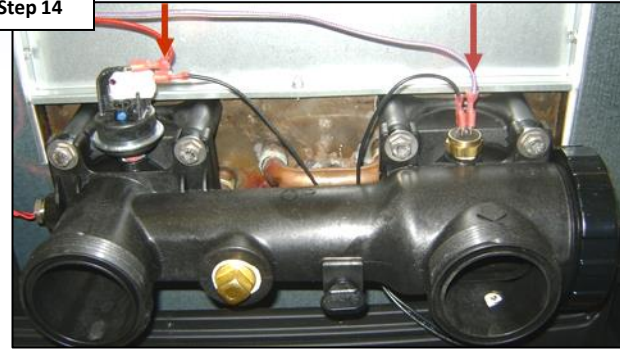
How To: Rotate UHS Heat Exchanger (cont.)

Step 13



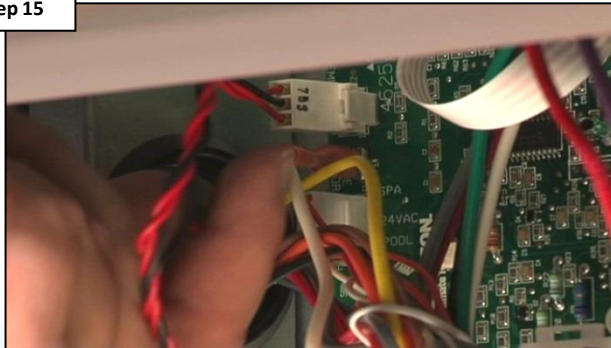
Route the Thermistor lead back into the cabinet.

Step 14



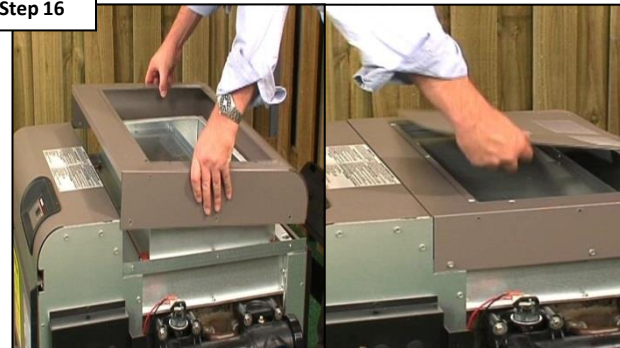
Reattach the **RED** and **VIOLET** wires to the pressure and high limit switch.

Step 15



Reattach the Thermistor to the ignition board.
Check all wires to make sure there are no loose connections.

Step 16



Reattach all the panels in the reverse order they were removed. Be careful to not pinch any wires during reinstallation.

How To: Heat Exchanger Inspection

Step 1



Remove the black metal trim plate (around the water manifold, 5 Black screws).

Step 2



Remove water connection side Upper End Cap (Black Polymer- 4 screws in rectangle holes marked with an arrow).

Step 3



Disconnect Unions from plumbing (water connections, 1 inlet, 1 outlet).

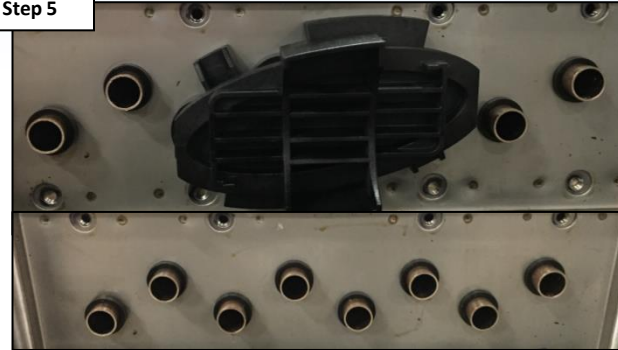
How To: Heat Exchanger Inspection (cont.)

Step 4



Remove (8) ½" hex head bolts (4 on each side-inlet and outlet).

Step 5



Remove water manifold (AKA the "Header") and black polymer "Mounting Blocks" to expose the ends of the heat exchanger tubes.

Step 6



Heat Exchanger tubes should look like this picture.

If there is any doubt as to whether or not there is damage from aggressive water chemistry: take 3 pictures, 1 of each pair of tubes (inlet side and outlet side), as well as the Model & Serial number decal, and send to your local technical representative, or call (908) 355-7995 for further instructions.