

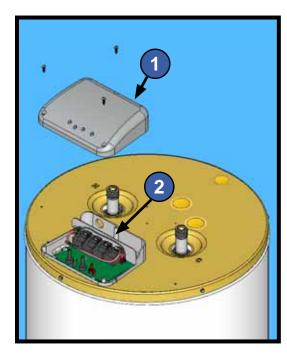
ENERGY SMART® TROUBLESHOOTING GUIDE

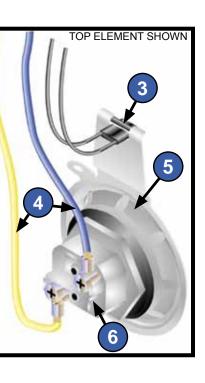
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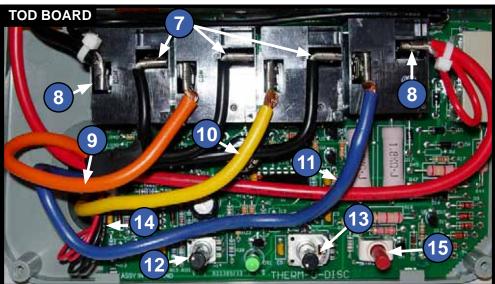


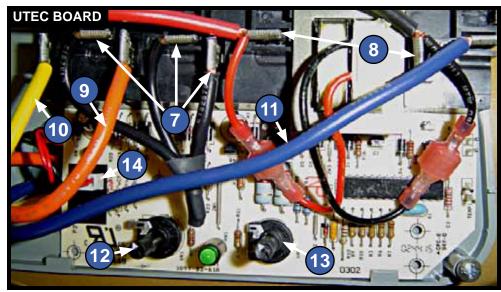
COMPONENTS/BOARD LAYOUT



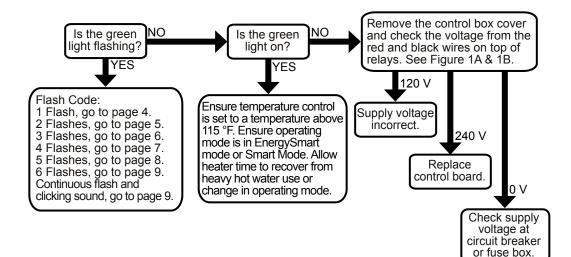


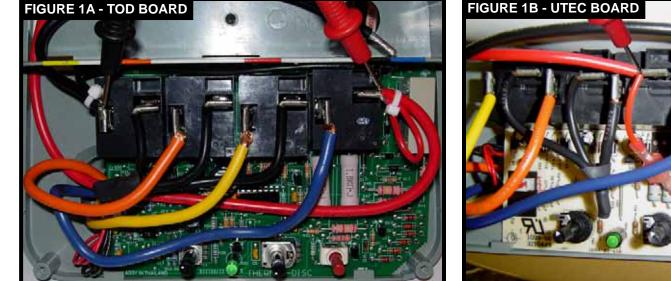
2		
CONTROL BOARD		
3 THERMISTOR		
4ELEMENT POWER WIRES		
5 ELEMENT BRACKET		
6 ELEMENT		
UMPER WIRE (BLACK)		
8		
9BOTTOM ELEMENT WIRE (ORANGE)		
10 TOP ELEMENT WIRE (YELLOW)		
12 TEMPERATURE CONTROL		
13 MODE CONTROL		
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15		

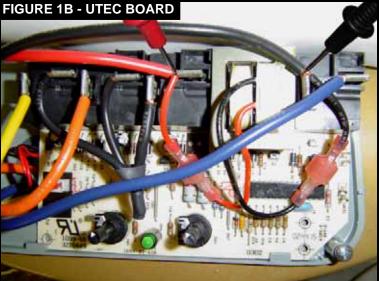


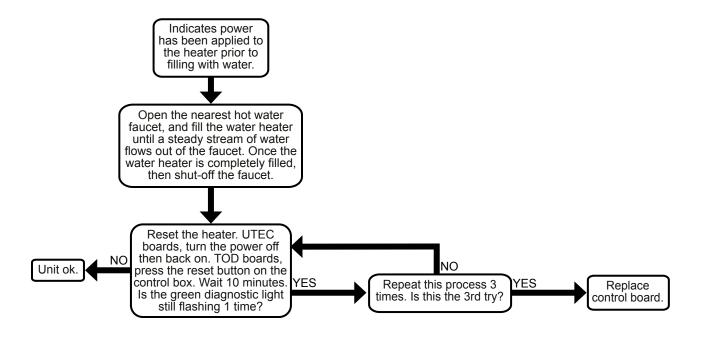


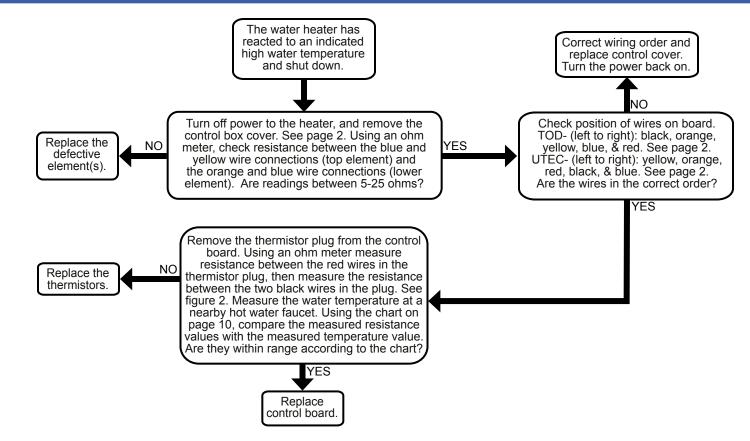
NO HOT WATER

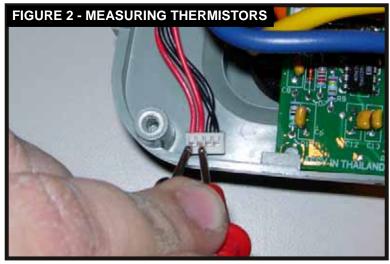


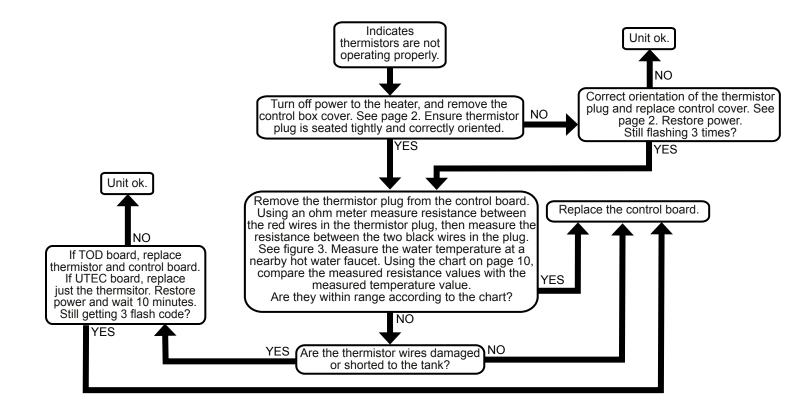


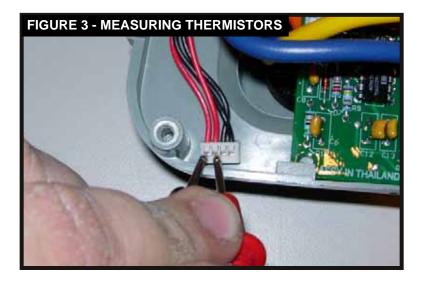


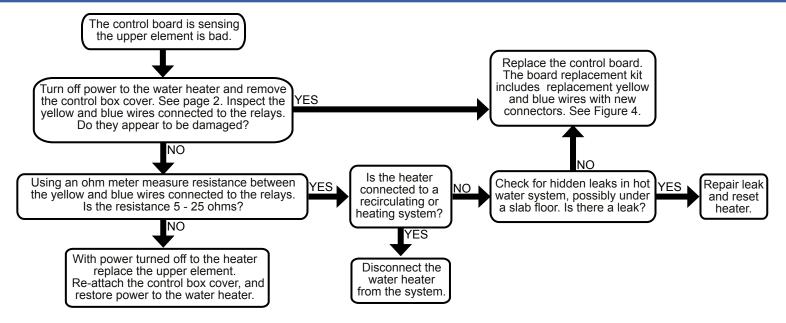


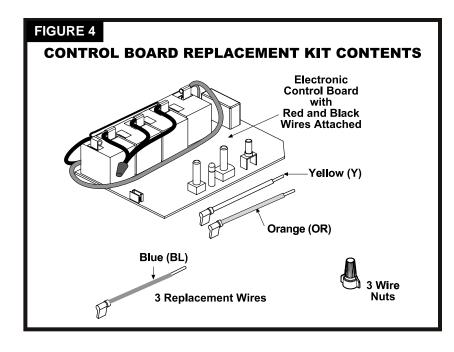


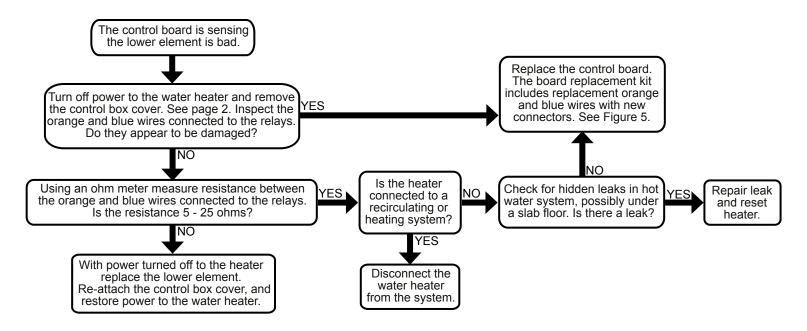


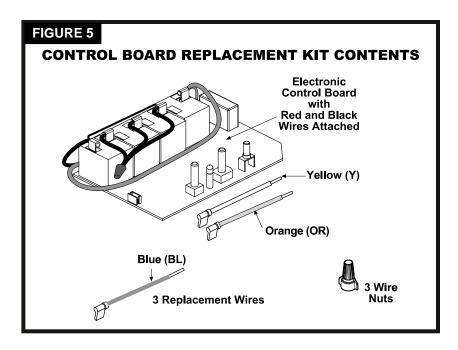


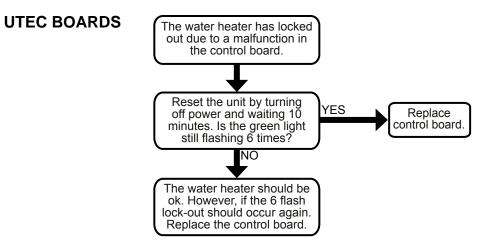




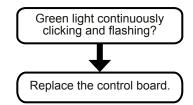












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THERMISTOR RESISTANCE CHART

WATER TEMPERATURE	OHMS
80° F - 100° F	50ΚΩ - 20ΚΩ
100° F - 120° F	40ΚΩ - 15ΚΩ
120° F - 150° F	30ΚΩ - 5ΚΩ

USING THE CHART:

Make sure power to the heater has been turned off before performing the following steps. Remove the control box cover and unplug the thermistor plug from the control board. See page 2. Using an ohm meter measure the resistance value between the two red wires in the thermistor plug, then measure the resistance value between the two black wires in the plug See Fig 6. Record the water temperature at a nearby hot water faucet. Using the recorded resistance values check to see if the heater is in the correct range. For example: In Fig. 6 the measured temperature is 129° F. Using the chart above a temperature reading of 129° F should have a resistance reading between 15K Ω - 10K Ω .

