



“SP” - MODELS

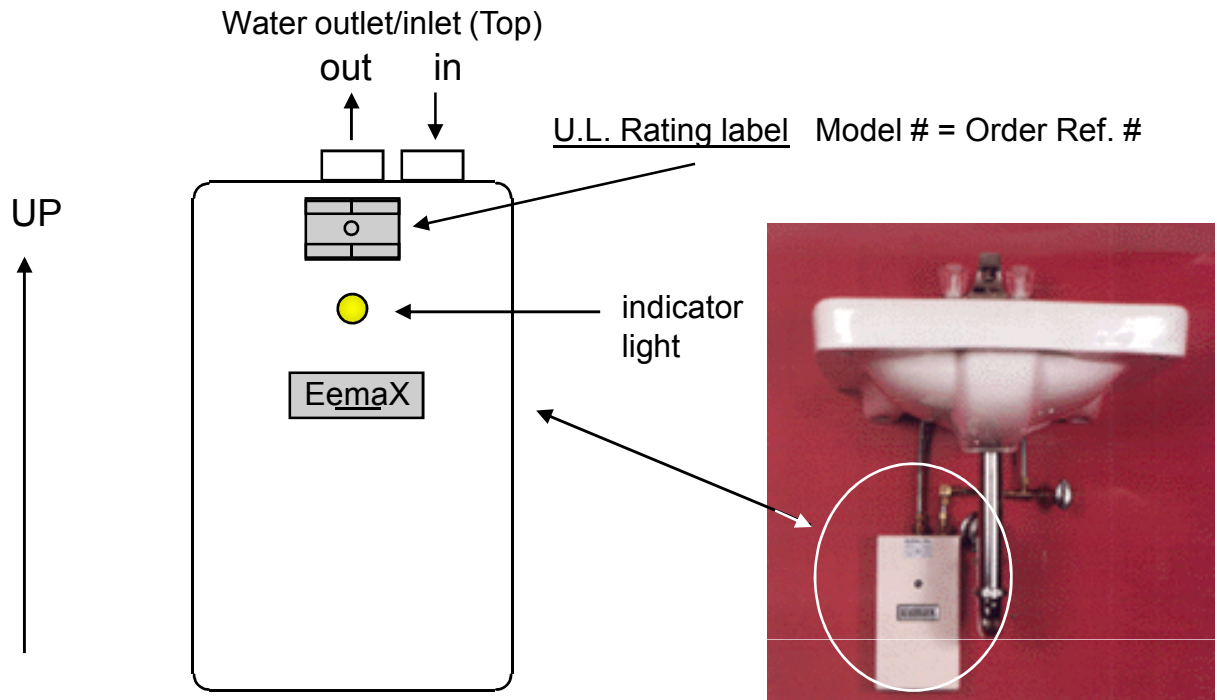
INSTRUCTIONS FOR TROUBLESHOOTING YOUR EEMAX WATER HEATER

Everything you need to know about troubleshooting your Eemax unit is contained in this fully illustrated guide. If you still have problems after reading and carrying out the instructions in this manual then please call the Eemax technical support department on the toll free number below and we will be happy to help.

PHONE TOLL FREE- 800/543-6163

PAGE TWO

SP-MODELS



This is how your Eemax "SP" model should look when mounted correctly on the wall.

Any other mounting configuration is wrong and the unit will not work!

Check to see if you have an " SP" model on the U.L. rating label on the front cover of your Eemax unit.

If the unit is mounted correctly and still does not produce hot water then have a look to see if the indicator light comes on when the hot water faucet is fully opened.

If the light comes on turn to page 5
If the light does not come on turn to page 3

PAGE THREE

The Indicator light does not come on (when the hot water faucet is opened):

STEP ONE:

_____ Is the circuit breaker switched on at the breaker panel?

YES → Go to Step two

NO →

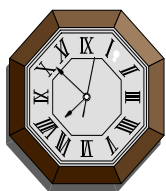


Run water at the hot faucet for a couple of minutes before turning on the breaker. Turn on breaker.

STEP TWO:

_____ The unit won't switch on unless enough water is flowing through the heater.

You will need a flow rate of about 0.5 gallons per minute (1/2 gpm). Measure the flow rate.

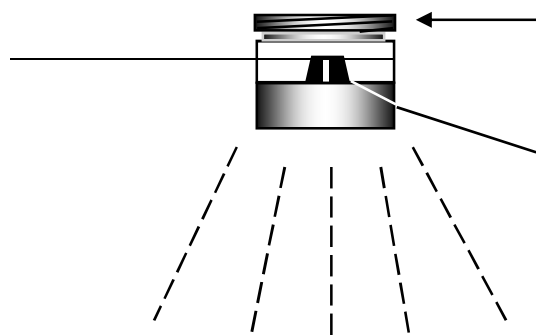


Take a 1 gallon "milk" container and using only water from the hot outlet time how long it takes to fill. Longer than 2 minutes and you probably do not have enough water flow to turn on the unit.

Open all water valves as much as possible.

If this does not work try unscrewing the aerator situated on the end of your faucet. Now run the water with the faucet open fully, if the indicator light still does not illuminate then proceed to step 3.

Aerator - Fits on the end of the faucet.



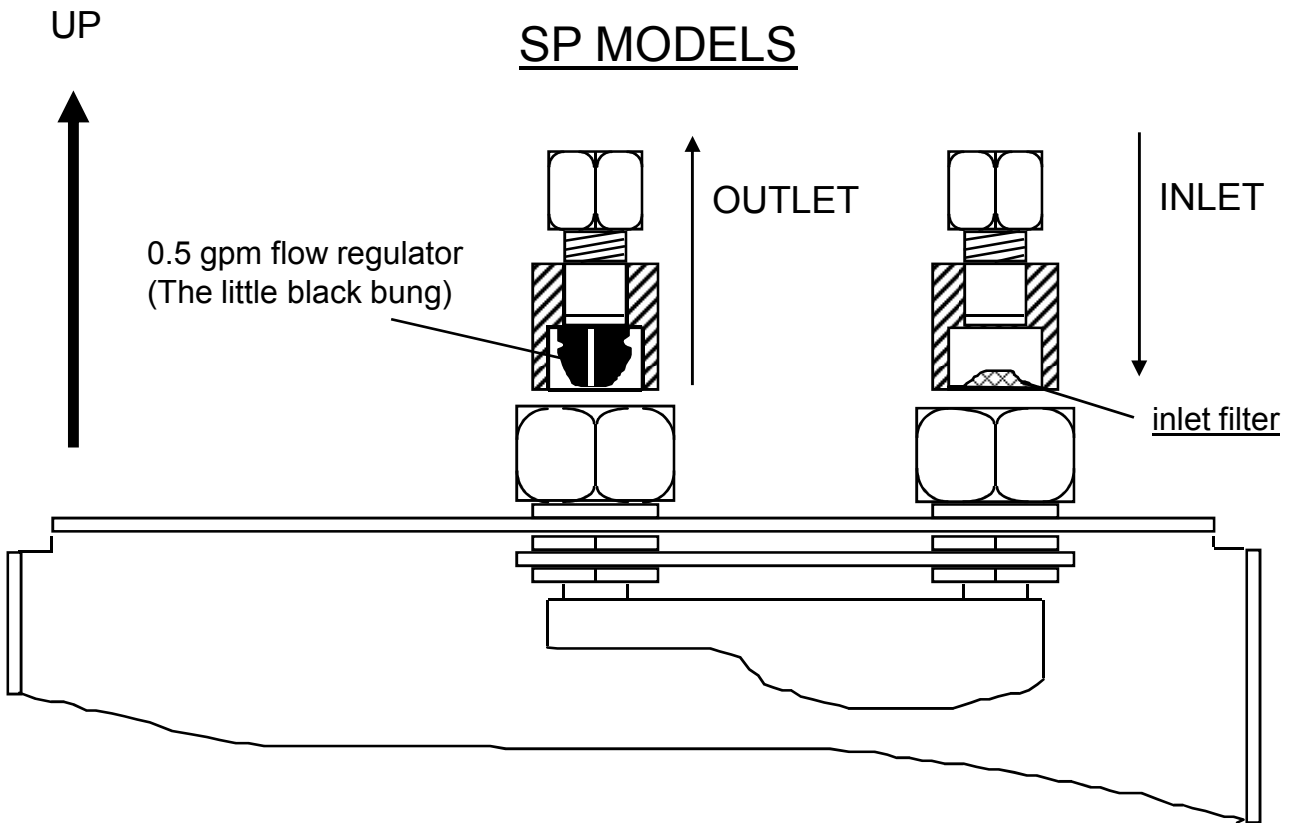
Male/female threaded adapter on top of aerator.

flow restrictor - (maybe removed to increase flow)

PAGE FOUR

STEP THREE:

In the brass outlet fitting there is a flow restrictor
This is a little black bung. Shut the water off to the unit and then
remove the bung from the fitting. Now replace the fitting and with the
faucet open fully see if the light comes on now, with water flowing
through the unit.

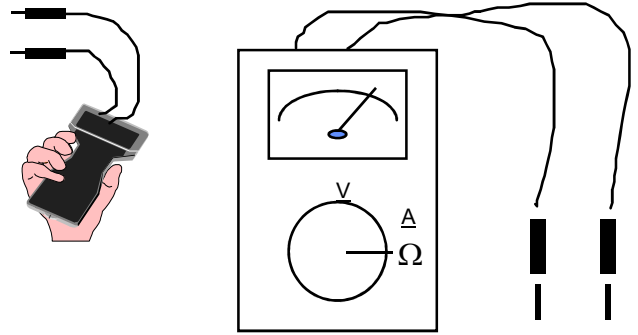


If the heater now turns "on" with water flowing, call Eemax at 1-800-543-6163.
Describe what you have done and we will send you a selection of "bungs" to replace
the one which you have removed. This will allow the unit to turn "on" but will also
control the flow rate to give you the correct rise in temperature.

If the heater still does not work proceed to step 4.

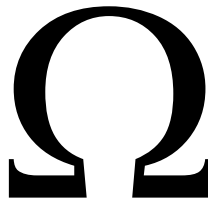
STEP FOUR:

You will require a multimeter / voltmeter to carry out the next tests.



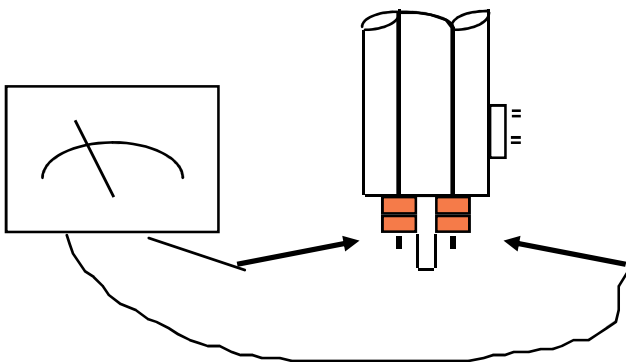
DANGER!
TURN OFF THE BREAKER BEFORE PROCEEDING WITH THE NEXT TESTS

Set the meter to the single Ohms setting
Do not measure continuity this will not work.



The Ohm symbol
(The upside down horse shoe)

Remove the heater cover, at the end of the black heater body there are two threaded silver rods with brass nuts on them. (where the wires go). Take a reading of the ohms value between these two rods.



If the reading is less than 20 ohms on the "Rx 1" scale or the "Rx 10" scale the element is good, if it is much greater e.g.... 10,000 ohms or if you get a reading on the "Rx 1K" scale then you must replace the element (contact Eemax).
Tel : 1-800-543-6163 for replacement elements.

PAGE SIX

The Indicator light comes “on” but there is no heat or the water temperature is low:

STEP ONE:

_____ The water flow is too high. Reduce the water flow using the faucet, with experimentation you should notice an increase in temperature. Make sure the aerator supplied with the heater is attached to the faucet, these are integral to the proper performance of your heater. If you do not have the special Eemax aerator call Eemax at 1-800-543-6163 and we will send you one.

STEP TWO:

_____ Make sure that the unit is connected to the voltage supply specified on the U.L. rating label on the front cover of the heater and no other.

STEP THREE:

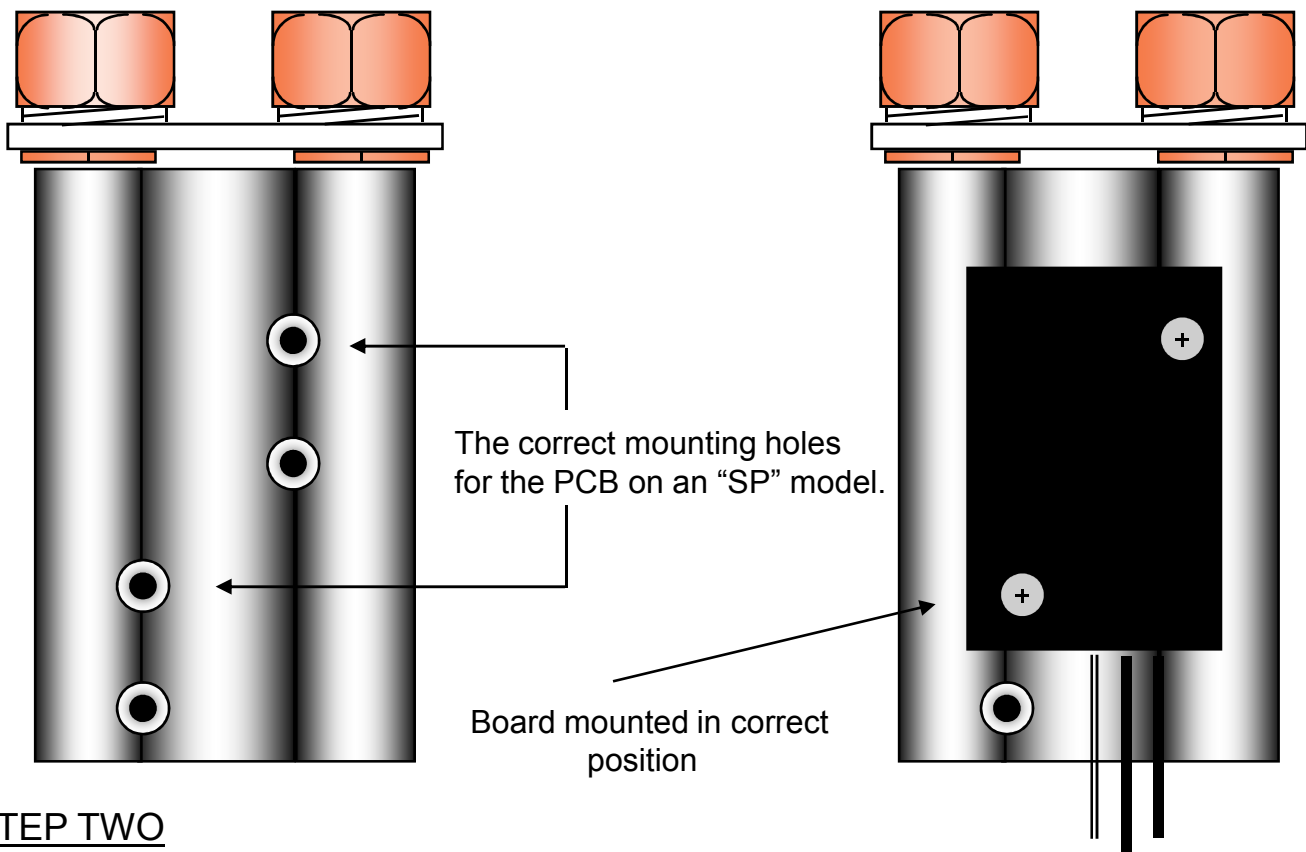
_____ Take a resistance reading of the element. To do this follow instructions on page five.

PAGE SEVEN

Other possible solutions:

STEP ONE:

_____ Make sure the printed circuit board is mounted in the correct position. This is the top set of mounting holes. (see diagram below). Failure to mount the board in the correct position will cause element burn out and may cause further damage to your heater. (This board may have been incorrectly moved when serviced previously.)



STEP TWO

_____ Inspect the inlet filter (see diagram on page four for location). Make sure it is free from debris, pipe dope or anything else which may hinder water flow.

IF HAVING CARRIED OUT ALL THE TESTS LISTED ABOVE YOUR HEATER IS STILL NOT FUNCTIONING PLEASE CALL THE TECHNICAL SUPPORT LINE AT EEMAX : 1-800-543-6163

PLEASE HAVE THE FOLLOWING INFORMATION AVAILABLE :

- 1) ORDER REF. NUMBER (on U.L. rating label on the front cover of unit.)
- 2) SERIAL NUMBER (inside unit on backplate)