

SK Sterilizer Error Guide

Error 1 – Heater Error (Temperature does not rise)

Note: The unit will **not** produce a visual or audible error warning for this problem.

Possible Causes:

- A. Disconnected heater**
- B. Defective heater**

A. Disconnected heater

1. Turn the sterilizer off, take the cover off, and empty the chamber.
2. Turn the unit upside down.
3. Remove the bottom panel by removing the screws within the rubber feet.
4. Locate the heater connections (See Figure 1) and make sure both connections are securely in place.
5. If the connections are in place, continue to **Step B**

B. Defective heater

1. To check if the heater is defective, check the resistance across the connections.
2. If the heater reads approximately **12 ohms**, the CPU or SSR is defective.
3. If the resistance reads **OL (overload)**, the heater is defective.
4. If replacement parts are needed, please contact Yamato Scientific customer service at (408) 235-7725.

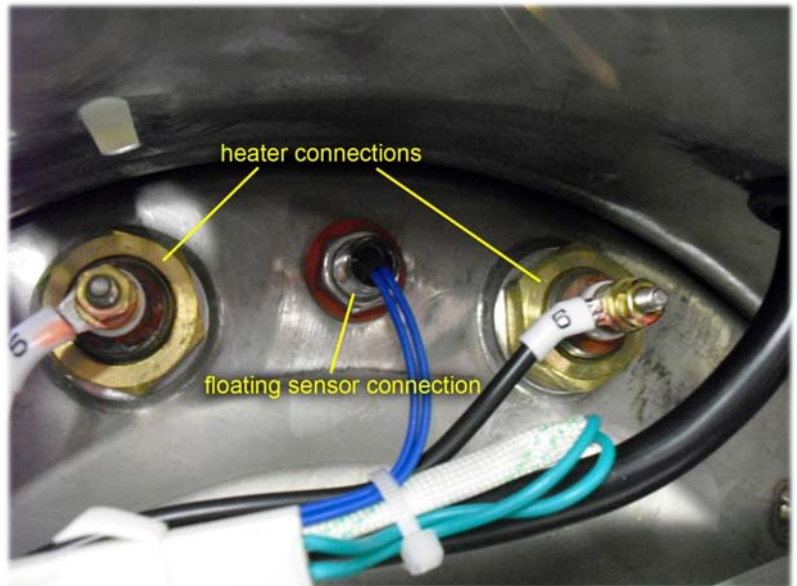


Figure 1

If the heater still fails to function after performing the troubleshooting steps listed above, please email technical support at technical@yamato-usa.com

Error 2 – Water Level Error

Possible Causes:

- A. Not enough water
- B. Stuck/jammed floating sensor
- C. Defective floating sensor

A. Not enough water

1. Ensure that there is sufficient water in the chamber. The heater should be completely submerged and the floating sensor (See Figure 2) should rise.
2. If there is insufficient water, the sensor will not rise and make contact with the top of its pole.
3. If the floating sensor does not rise with the water, it may be stuck/jammed.

B. Stuck/jammed floating sensor

1. Remove the sterilizer's cover and locate the floating sensor in the chamber (See Figure 2).

Caution: Make sure that the heater is off before proceeding. Reaching for the floating sensor while the heater is on may cause burns.

2. Check to see if the floating sensor can move freely up and down.
3. If the sensor can move freely and the water lamp and alarm buzzer still indicate a water level error, continue to **Step C**.

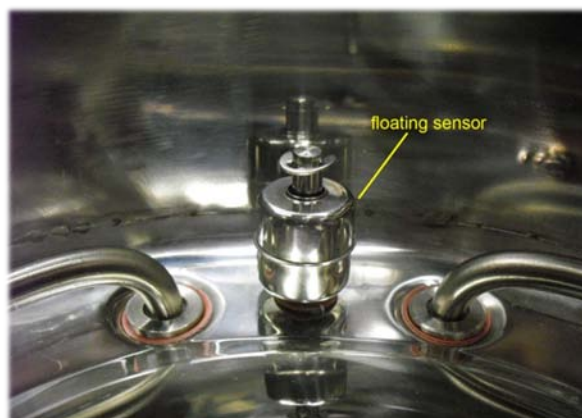


Figure 2

C. Defective floating sensor

1. To check if the floating sensor is defective, first turn the sterilizer off, take the cover off, and empty the chamber.
2. Turn the unit upside down and remove the bottom panel by removing the screws within the rubber feet.
3. Locate the white connection along the sensor wires (See Figure 3a).
4. Disconnect the white pieces to reveal the contact points from which to test the resistance. (See Figure 3b)
5. Test the resistance.
6. The resistance should read **0 ohms**.

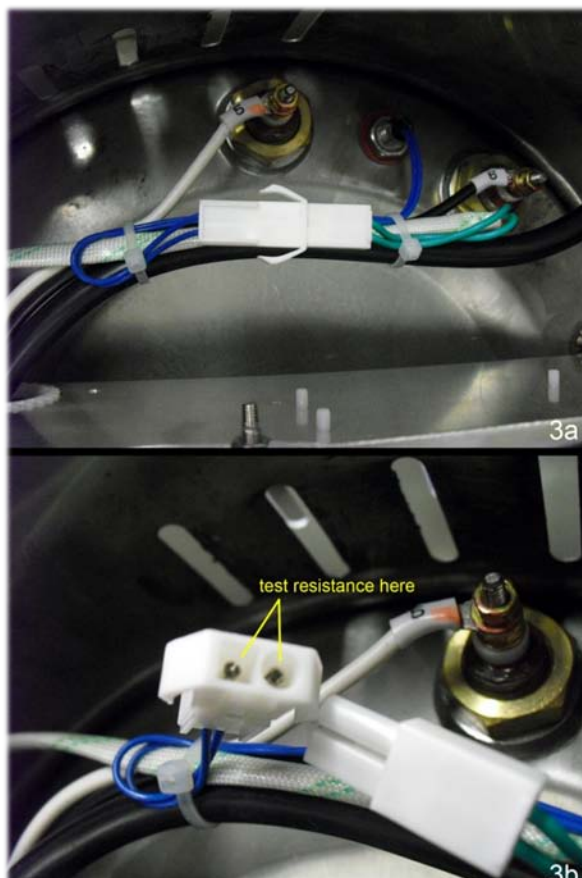


Figure 3a (top), 3b (bottom)

7. If the resistance reads **OL (overload)** the floating sensor is defective and needs to be replaced. Please contact Yamato Scientific customer service at (408) 235-7725.

If Error 2 remains after performing the troubleshooting steps listed above, please email technical support at technical@yamato-usa.com

Error 3 – Temperature Sensor Error

Possible Causes:

- A. Improper use**
- B. Defective temperature sensor**

A. Improper use

1. If the unit is being operated with too much material, the temperature sensor might produce false readings.
2. To avoid false readings, make sure that the chamber does not contain too much material; otherwise, the sensor becomes insulated and cannot read the correct temperature.

B. Defective temperature sensor

1. To test if the temperature sensor is defective, first turn the sterilizer off, take the cover off, and empty the chamber.
2. Turn the unit upside down and remove the bottom panel by removing the screws within the rubber feet.
3. Pop out the plastic compartment that houses the control panel. This will give access to the circuit board.
4. Locate where the temperature sensor connects to the CPU board (See Figure 4).
5. Test the resistance across the left and middle terminals or the left and right terminals.
6. If the resistance reads approximately **110 ohms**, the CPU or SSR is defective and needs to be replaced. Please contact Yamato Scientific customer service at (408) 235-7725.
7. If the resistance reads **OL (overload) or 0**, the temperature sensor is defective and needs to be replaced. Please contact Yamato Scientific customer service at (408) 235-7725.

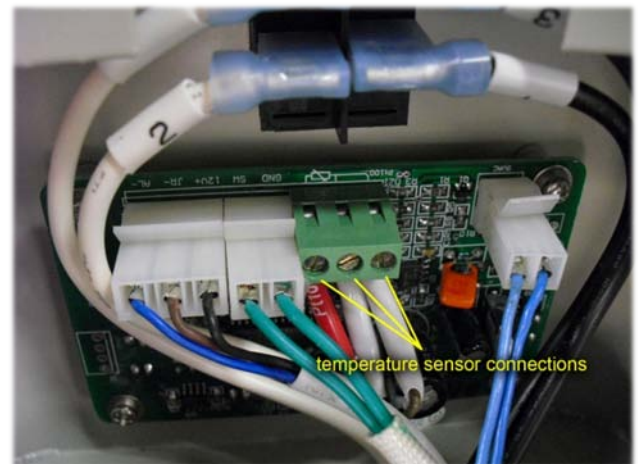


Figure 4

If Error 3 remains after performing the troubleshooting steps listed above, please email technical support at technical@yamato-usa.com

Error 4 – Display Error (No display when turned on)

Possible Causes:

A. Blown fuse/defective CPU board

A. Blown fuse

1. To check if the fuse is blown, first turn the sterilizer off, take the cover off, and empty the chamber.
2. Turn the unit upside down and remove the bottom panel by removing the screws within the rubber feet.
3. Locate the fuse under the wires (See Figure 5).
4. Carefully remove the fuse by pulling it up from its housing.
5. If the wire inside is damaged, the fuse has been blown and needs to be replaced.
Additionally, even if the fuse appears intact, if the resistance across the fuse is **OL (overload)**, the fuse will need to be replaced.
6. Replace the fuse using a **15 amp** fuse only.
7. If the fuse is intact, the CPU board is defective and needs to be replaced. Please contact Yamato Scientific customer service at (408) 235-7725.

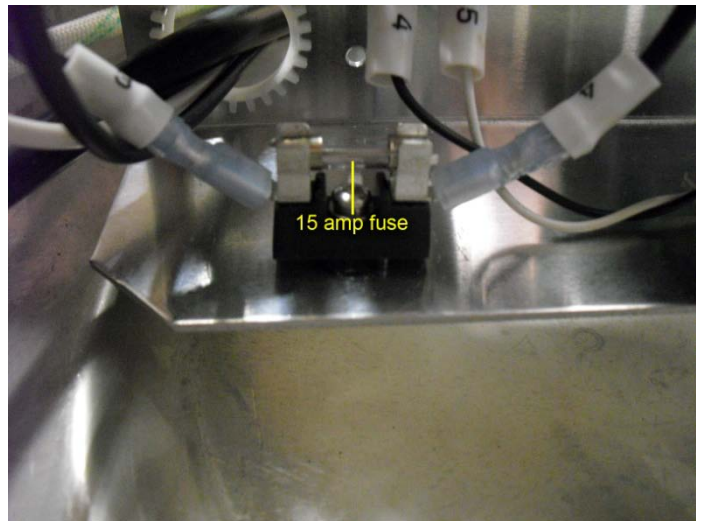


Figure 5

If Error 4 remains after performing the troubleshooting steps listed above, please email technical support at technical@yamato-usa.com