ALL AMERICAN PART #4158-B (75X) / #3158-B (50X)

Heating Element

The element sits in the base of electric sterilisers. To reach it you take off the control box first, so allow about an hour. New fibre gaskets are included with the element.

Fits: 50X (#3158-A 120V, #3158-B 240V) and 75X (#4158-A 120V, #4158-B 240V)

TOOLS NEEDED

#1 and #2 Phillips screwdrivers
Flat screwdriver
Needle nose pliers
5/16 in socket
3/4 in combination spanner
220 grit sandpaper
Olive oil

⚠ **Electrical work.** Unplug before starting. All American recommend factory fitting, and parts not fitted by the factory void the warranty.

Remove the control box

1. Unplug the steriliser before you start.

   ⚠ **Warning:** Risk of electric shock if it is still plugged in.

2. Take the lid off and turn the base upside down on a table so you can reach the control box. Undo the screws on the control box cover plate, turning anticlockwise with the 5/16 in socket.



3. Pull the control knob straight off with your fingers.

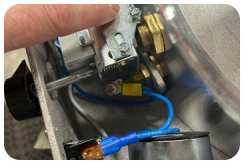


4. Undo the 4 screws holding the dial plate, turning anticlockwise with the #1 Phillips screwdriver.



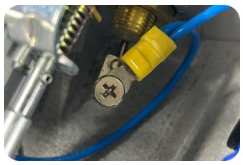
5. Loosen the 3 screws on the thermal switch plate anticlockwise with the flat screwdriver. You do not need to take them out. The plate can now slide across.





6. Remove the screw holding the blue lead wire to the heating element. Hold the wires with the needle nose pliers so they do not twist, and undo the screw with the #2 Phillips screwdriver.

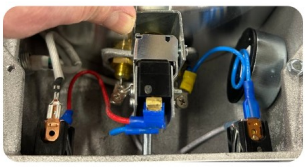
   ⚠ **Warning:** If the element connector bends while you undo the screw, gently bend it back to its original shape with the pliers.





Remove the control box

7 Rotate the thermal switch clockwise to reach the white lead wire on the heating element.

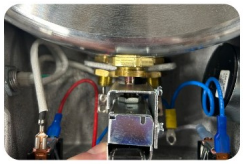


8 Remove the screw holding the white lead wire to the heating element. Grip the connector with the pliers and undo the screw anticlockwise with the #2 Phillips screwdriver.

> ⚠ **Warning:** If the element connector bends while you undo the screw, gently bend it back to its original shape with the pliers.



9 Undo the 2 nuts holding the control box on, turning anticlockwise with the 3/4 in spanner.





10 Pull the control box away from the base.

> ⚠ **Warning:** Take care not to bend the thermal switch, or the box will be hard to refit.



Remove the old element

11 Turn the base back over. Undo the 2 nuts holding the heating element to the container, turning anticlockwise with the 3/4 in spanner.



12 Pull the old heating element out from the inside of the container.



Fit the new element

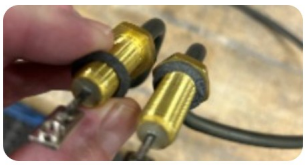
13 Lightly sand around the holes inside the container with 220 grit sandpaper to remove any old gasket material or debris.

> ⚠ **Warning:** Feel around the holes with your hand. They must be smooth so the new element seals.



14 Fit new fibre gaskets (2158FG) onto each end of the new element.

> ⚠ **Warning:** Never reuse old gaskets. They will not seal and will leak.

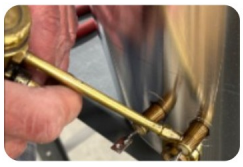


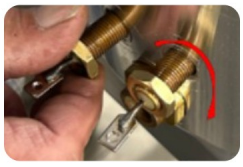
Fit the new element

15 Fit the new heating element into the base of the steriliser from the inside.



16 Put a drop of olive oil on the threads at each end of the element, then screw on the 2 new brass nuts clockwise.





17 Tighten the nuts clockwise with the 3/4 in spanner.

> ⚠ **Warning:** Hold the element down inside the container so it does not twist out of position. Do not overtighten, or the threads can strip and the gaskets will not seal.





18 The element should sit about 1/4 in (6 mm) above the bottom and must never touch it. Adjust by pressing down lightly where it enters the container, or by lifting the far end. Small adjustments do not affect how it works.



Refit the control box

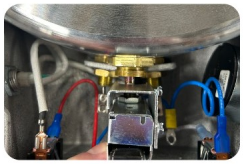
19 Fit the control box, guiding the thermal switch into its well without damaging it.

> ⚠ **Warning:** A bent or damaged thermal switch makes the box very hard to refit.



20 Fit the 2 new brass nuts on the ends of the heating element and tighten clockwise with the 3/4 in spanner.

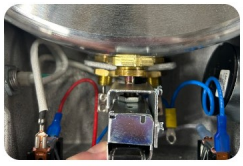
> ⚠ **Warning:** These nuts only hold the control box on. Do not overtighten.





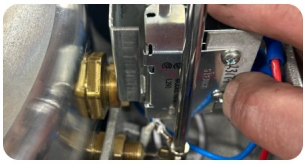
21 Attach the blue lead wire to the heating element with the new screws supplied, using the needle nose pliers and the #2 Phillips screwdriver.

> ⚠ **Warning:** If the element connector bends while you undo the screw, gently bend it back to its original shape with the pliers.





22 Rotate the thermal switch back and attach the white wire the same way as the blue wire in step 21.



Refit the control box

23 Slide the thermal switch plate back across so its edge sits in the groove on the brass nut. With the flat screwdriver, tighten only the 2 screws that hold the plate in place.




24 Rotate the thermal switch until it stops. Turn the locking screw clockwise until it stops, then only a further 1/4 to 1/2 of a turn.

> ⚠ **Warning:** Do not overtighten. This screw only stops the thermal switch rotating out of position.



25 Refit the dial plate with its 4 screws, turning clockwise with the #1 Phillips screwdriver.



26 Line up the two flat edges and push the knob on with your fingers only.



27 Refit the control box cover plate screws, turning clockwise with the 5/16 in socket.



28 Follow the All American operating instructions to set up and run a test cycle, and confirm the steriliser works correctly.

> ⚠ **Warning:** If anything does not seem right, take the steriliser out of service and contact Rootlab on 1300 386 487.

