

Electric Element Replacement Instructions for Electric Water Heaters

See Table 4 in this Manual for a List of Applicable Part Numbers

STOP! Follow these instructions or warranty will be void!

WARNING

This installation shall be done by a qualified service agency in accordance with these instructions, all applicable codes, and requirements of the authority having jurisdiction. Failure to follow these instructions could result in substantial property damage, severe personal injury, or death.

Installation Must Comply With:

1. National Electrical Code
2. In Canada, CSA C22.1 Canadian Electrical Code Part 1, and CGA No. B149 (latest version)
3. Local, state, provincial, and national codes, laws, regulations, and ordinances.

Included with Kit:

NSF Approved Lubricant and Sealant (6060-998)
Electric Element(s) w Square Gasket(s)
Round Gasket(s)
Round Brass Washer(s)
Instructions

Tools and Parts Required (Not Included):

Electric Element Installation Tool or 1 1/2" Deep Socket
Nylon Brush
Phillips Head Screwdriver
3/8 Nut Driver

Installing an Electric Element:

CAUTION

DO NOT replace the heating element(s) with a generic heating element. Only heating elements from the water heater manufacturer are approved for use with this water heater. Failure to follow this warning will result in premature product failure and VOID the warranty.

Carefully review the table in this manual to ensure the heating element is compatible with the water heater. Failure to ensure element to water heater compatibility could result in operation issues, and/or premature element or water heater failure. Such failures ARE NOT COVERED by warranty.

STEP #1 - Turn off power to the water heater. Use a Phillips Head screwdriver to remove the wires from the element or thermostat.

DANGER

Do not proceed with the installation if the water heater remains powered. Failure to disconnect the power from the water heater before replacing the heating element will result in property damage, severe personal injury, or death due to electric shock.

STEP #2 - Run hot water at a faucet in the system. When it runs cold, shut off the faucet. Then shut off water at the main cold water inlet or, if possible, valve off the water heater from the system. Drain the water from the system, or just the water heater if it can be isolated from the system.

WARNING

Completely drain the water heater before removing and replacing a heating element. Failure to do so will result in a leakage of water and property damage, and could possibly result in moderate to severe personal injury or death.

WARNING

Water drained from the water heater may be scalding hot. Take care to avoid scalding. Wear gloves and safety glasses, and direct water to a safe drainage location. Wait until the water heater has had sufficient time to cool before proceeding with installation. Failure to comply with this warning could result in property damage, severe personal injury, or death.

Step #3 - Use a 3/8 Nut Driver to remove screws from the element access cover(s). Remove the insulation to expose the electric element and wiring. Set aside the access cover(s), screws, and insulation in a safe place for reinstallation.

NOTE: DO NOT lose the access cover(s), screws, or insulation. Replacements ARE NOT included with this kit.

Step #4 - Remove the element with a 1 1/2" socket wrench or element tool.

Step #5 - Inspect the removed element. Determine whether the replacement element will need a square or circular gasket and washer. See Figure 5.

NOTE: The replacement element must utilize the same gasket as the removed element. Using the wrong gasket could result in leaks and property damage. Such damages ARE NOT covered by product warranty.

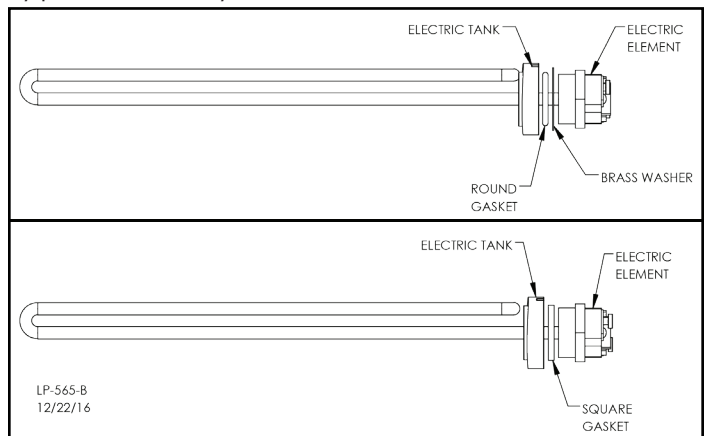


Figure 1 - Heating Element Detail

Step #6 - Ensure thread and opening are completely free of debris. Use a nylon brush to clear away any debris.

Step #7 - Put a small amount of NSF approved lubricant and sealant on the appropriate gasket and/or washer for the installation. Put the gasket and/or washer on the element.

Step #8 - Screw the element clockwise into the tank, and tighten with the 1 1/2" socket wrench or element tool. Be sure gasket seats properly.

NOTE: Repeat Steps 3 - 6 as Necessary for Multiple Elements

Step #9 - Open the main cold water inlet. If the water heater has been isolated from the system, open the valves. Refill the tank with cold water. Open a hot water faucet high in the system to bleed any air pressure from the system. Water will flow freely when air is completely bled.

 **WARNING**

When filling the water heater, open a hot water tap to release air in the tank and piping. The tank must be full of water before the heater is turned on. Failure to ensure the water heater is full before turning it on will result in damage to the water heater and elements, and could result in property damage, serious personal injury, or death. Such damages ARE NOT covered by water heater warranty.

Step #9 - Pressure check the tank for leaks around element(s).

- a. If leaks are found, repair before wiring the element(s).
- b. If no leaks are found, use a Phillips Head screwdriver to connect the wires to the element and thermostat, if necessary. See water heater installation manual for thermostat wiring details.

Step #10 - Reinstall the insulation. Use a 3/8 Nut Driver and the removed screws to reinstall the access cover(s).