

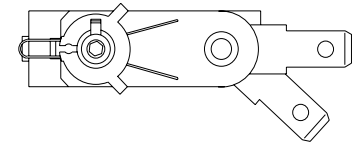


SERVER

Thermostat Replacement Kit

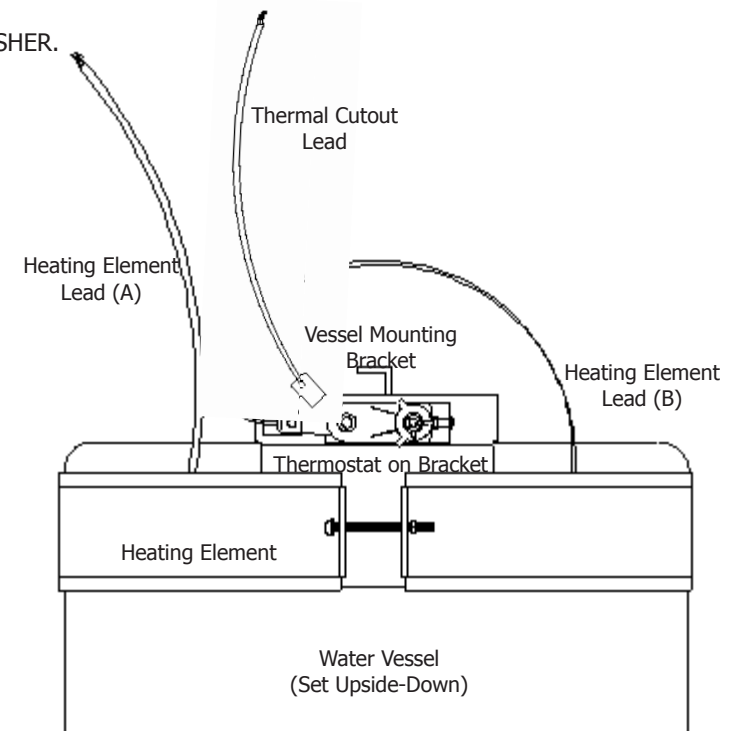
Stock No. 55034 or 81035

(This kit replaces thermostat 81034)



THERMOSTAT INSTALLATION

- 1 TURN UNIT OFF AND UNPLUG CORD. Allow unit to fully cool before proceeding to the next step. REMOVE LID AND EMPTY WATER VESSEL(S).
- 2 REMOVE THERMOSTAT KNOB and knob guard, if your unit includes one. (Pointer type knobs have a setscrew.)
- 3 DISASSEMBLE SHROUD FROM WATER VESSEL(S) enough to access wiring between these two parts. Place unit on its side and unscrew shroud from vessel. You may need to remove the rubber feet first, depending on which unit you have. Slowly pull vessel away from shroud by tilting shroud until thermostat shaft clears hole provided in shroud.
- 4 Cut wire ties if necessary to pull vessel further away from shroud. DISCONNECT CORD ASSEMBLY WHITE LEAD FROM HEATING ELEMENT LEAD (A). DISCONNECT THERMAL CUTOUT LEAD FROM ANGLED TERMINAL ON THERMOSTAT. The thermostat can be best accessed when the vessel is set upside down on your work surface. If there is still insufficient access to thermostat, disconnect the green ground lead.
- 5 REMOVE HEATING ELEMENT LEAD (B) FROM THERMOSTAT STRAIGHT TERMINAL.
- 6 REMOVE SCREW, NUT, AND WASHER(S) SECURING THERMOSTAT TO THERMOSTAT BRACKET AND REMOVE OLD THERMOSTAT.
- 7 POSITION NEW THERMOSTAT ON BRACKET AND SECURE WITH SCREW, NUT, AND A SINGLE LOCKWASHER. Make sure lockwasher is under nut. Tighten nut to 18 in. lbs. (2.03 Nm) torque.
- 8 CONNECT HEATING ELEMENT LEAD (B) TO THERMOSTAT STRAIGHT TERMINAL. IF THE GREEN GROUND LEAD WAS DISCONNECTED IN STEP 4, THEN RE-CONNECT IT.
- 9 BEGIN TO ASSEMBLE VESSEL BACK INTO SHROUD.
- 10 CONNECT THERMAL CUTOUT LEAD TO ANGLED TERMINAL ON THERMOSTAT. CONNECT CORD ASSEMBLY WHITE LEAD TO HEATING ELEMENT LEAD (A).
- 11 CONTINUE ASSEMBLING VESSEL INTO SHROUD until thermostat shaft aligns into hole provided in shroud and the vessel aligns with the screw holes in the shroud.
- 12 INSTALL SCREWS OR RUBBER FEET WHICH SECURE THE VESSEL TO THE SHROUD.
- 13 SET UNIT UPRIGHT ON A LEVEL SURFACE.
- 14 PLUG UNIT INTO POWER SOURCE.
- 15 CALIBRATE UNIT per calibration instructions (opposite page).



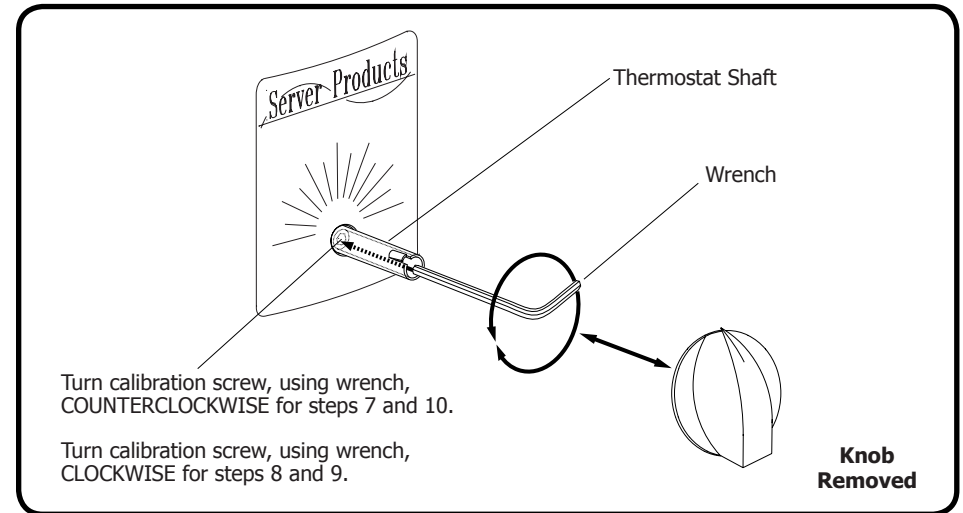
**FACTORY-INSTALLED THERMOSTATS ARE SEALED AFTER CALIBRATION.
DO NOT ATTEMPT TO CALIBRATE A FACTORY-INSTALLED THERMOSTAT.**

TOOLS NEEDED FOR CALIBRATION PROCEDURE

- Hexagonal Wrench or Allen Wrench (1.5 mm)
-included in Kit
- Dial Thermometer (stem type)
-to measure water temperature of 90°-170°F (32.2°-76.7°C)
- Water Vessel Cover Plate (with hole in it)
-to hold the Dial Thermometer.

CALIBRATION PROCEDURE (FOLLOWS THERMOSTAT INSTALLATION)

- 1 ALIGN KNOB ONTO THERMOSTAT SHAFT AND PRESS KNOB ONTO SHAFT.
- 2 TURN KNOB TO SETTING OF:
100°F (37.8°C)
-for models which have a knob range of 50°F (9.99°C) to 150°F (65.6°C)
OR
150°F (65.6°C)
-for FS-4 models and models which have a knob range of 100°F (37.77°C) to 200°F (93.3°C)
- 3 CAREFULLY REMOVE KNOB with straight pull to avoid turning thermostat shaft.
- 4 FILL WATER VESSEL AT LEAST 1/2 FULL OF WATER.
- 5 PLACE WATER VESSEL COVER (WITH HOLE IN IT) ON VESSEL AND INSERT THERMOMETER THROUGH COVER OPENING.
- 6 TURN UNIT ON AND ALLOW UNIT TO HEAT UP TO A MINIMUM OF:
110°F (43.3°C)
-for models which have a knob range of 50°F (9.99°C) to 150°F (65.6°C)
OR
160°F (71.1°C)
-for models which have a knob range of 100°F (37.77°C) to 200°F (93.3°C)
OR
170°F (76.7°C)
-for FS-4 models
 - The above "Heat Up-To" temperatures are considered minimum temperatures because exceeding these temperatures, for each model type, will not affect the final calibration.
- 7 IF THE TEMPERATURE DOES NOT REACH THE MINIMUM "HEAT UP TO" TEMPERATURES, FOR EACH MODEL TYPE, HOLD THE THERMOSTAT SHAFT WITH ONE HAND AND ROTATE THE CALIBRATION SCREW 1/2 TURN COUNTERCLOCKWISE, USING THE SUPPLIED WRENCH. Continue to repeat the 1/2 turn of the calibration screw, until the temperature reaches the minimum.
- 8 WHEN THE TEMPERATURE REACHES THE MINIMUM "HEAT UP TO" TEMPERATURES, FOR EACH MODEL TYPE, TURN CALIBRATION SCREW TWO FULL TURNS CLOCKWISE.



- 9 ALLOW APPLIANCE TO COOL TO:
100°F (37.8°C)
-for models which have a knob range of 50°F (9.99°C) to 150°F (65.6°C)
OR
150°F (65.6°C)
-for models which have a knob range of 100°F (37.77°C) to 200°F (93.3°C)
OR
160°F (71.1°C)
-for FS-4 models
 - IF UNIT DOES NOT COOL TO THE ABOVE "COOL TO" TEMPERATURES, FOR EACH MODEL TYPE, TURN CALIBRATION SCREW TWO ADDITIONAL FULL TURNS CLOCKWISE.
- 10 WHEN THE TEMPERATURE REACHES THE "COOL TO" TEMPERATURE, FOR EACH MODEL TYPE, TURN CALIBRATION SCREW COUNTERCLOCKWISE UNTIL A SOFT AUDIBLE CLICK IS HEARD.
- 11 REPEAT STEPS 6 THROUGH 10 UNTIL THE FOLLOWING STEADY TEMPERATURES ARE REACHED IN THE WATER:
97°F (36.1°C) to 107°F (41.6°C)
-for models which have a knob range of 50°F (9.99°C) to 150°F (65.6°C)
OR
147°F (63.8°C) to 157°F (69.4°C)
-for models which have a knob range of 100°F (37.77°C) to 200°F (93.3°C)
OR
157°F (69.4°C) to 167°F (75°C)
-for FS-4 models
- 12 SECURE THE CALIBRATION SCREW BY PLACING SUITABLE THREAD-LOCKING MATERIAL, SUCH AS LOCTITE, IN THE SHAFT CENTER.
- 13 ALIGN KNOB ONTO THERMOSTAT SHAFT AND PRESS KNOB ONTO SHAFT.
If unit includes a knob guard, install knob guard.
- 14 RE-CHECK SETTING AND RETURN UNIT TO SERVICE.

**Clockwise rotation of the calibration screw lowers operating temperature.
Counterclockwise rotation of the screw raises the operating temperature.
Rotation of the knob or the thermostat shaft does just the opposite.**