

# Prestige Temperature Sensor Replacement Kit



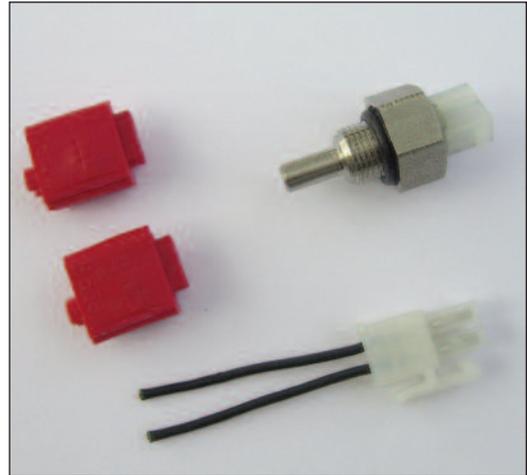
Kit Part Number: PTRKIT122

## Included in the Kit:

- (1) Temperature Sensor
- (1) Wiring Harness Adapter
- (2) Wire Taps

## Tools required:

- Screwdriver - Slotted
- Adjustable Wrench
- Pliers
- Garden Hose



This kit replaces the following temperature sensors:

	PS60/PS110/PE110	PS175/250	PT60/PT110/PTE110	PT175/250
Supply Temperature Sensor	✓ *	✓ *	✓	✓
Return Temperature Sensor	✓ *	✓ *	✓	✓
Flue Temperature Sensor	✓ *			

\*Requires using included wiring harness adapter

### WARNING

Indicates a potentially hazardous situation which, if ignored, can result in serious injury or substantial property damage.

### NOTICE

Indicates special instructions on installation, operation or maintenance, which are important to equipment but not related to personal injury hazards.

### WARNING

For your safety, turn off electrical power supply at service panel before proceeding to avoid possible electrical shock hazard. Failure to do so can cause severe personal injury or death.

### WARNING

Failure to follow instructions below can result in severe personal injury or damage if ignored:

- Instructions are for a qualified installer / service technician
- Read all instructions before proceeding
- Follow instructions in the proper order.

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# Prestige Temperature Sensor Replacement Kit

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## PT Model

### Temperature Sensor Removal

1. Turn power to the unit “OFF”
2. Remove the front panel of the Prestige by removing the thumb screw along the upper edge of the unit. Lift the panel up and pull forward to remove the front panel from the unit.
3. Removal of the supply or return temperature sensors requires draining the boiler as outlined below.
  - Close all isolation valves on the system piping to the boiler. Close the fill valve line to the system.
  - Connect a garden hose to the boiler drain. Direct the hose to a suitable place of drainage. Ensure boiler drain connection is between the boiler and the closed isolation valve.
  - Open the drain valve and begin draining the boiler.

### **WARNING**

**Water from the boiler drain connection may be extremely hot. To avoid personal injury, death or substantial property damage:**

- **Tighten all drain hose connections**
- **Direct hot water away from all persons.**

4. Slide control panel retaining clips inward and swing panel down.
5. Press in the retaining tab on the wiring harness sensor connector and pull to remove from the sensor.
6. Before removing the supply or return temperature sensors, verify that the boiler has complete-

ly drained. Remove the supply or return temperature sensor using an adjustable wrench.

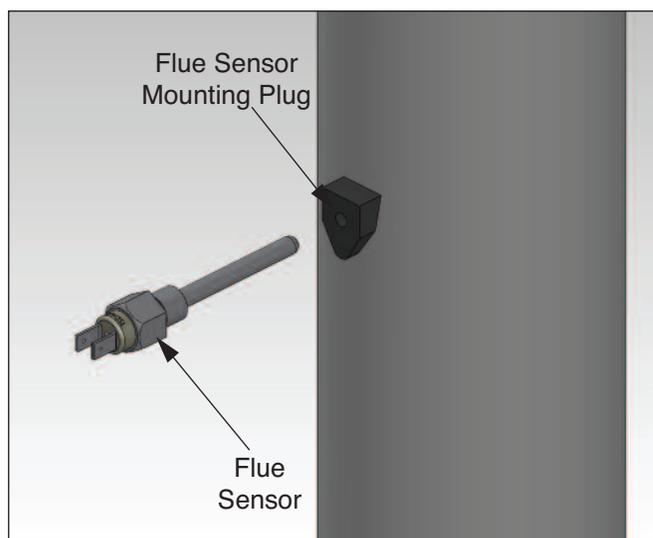
7. Remove the flue temperature sensor using an adjustable wrench if screwed into the vent pipe or by pulling the flue sensor out of the mounting plug depending on the vent pipe style.

### Threaded Temperature Sensor Installation

1. Verify that an o-ring is installed at the base of the temperature sensor before installing the sensor.
2. Thread the temperature sensor on by hand and tighten as tightly as possible. Tighten the temperature sensor an additional 1/4 turn using an adjustable wrench.
3. Reconnect the wiring harness to the sensor.

### Flue Temperature Sensor Installation with Mounting Plug

1. Verify that the flue sensor mounting plug is oriented correctly in the PP vent outlet pipe. The point of the flue sensor mounting plug should be pointed down as shown in Figure 1.



**Fig. 1: Flue Sensor Installation**

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2. Moisten the shaft of the flue temperature sensor with some clean water and carefully slide the sensor into the flue sensor mounting plug until threaded section is flush with the plug. The plug will expand slightly to ensure a tight fit with the flue pipe.
3. Reconnect the wiring harness to the sensor.
3. Remove the retaining screw from the bottom of the swing out control panel. Disconnect the ignition wire from the MCBA control. Open the display panel cover and swing the control panel out.
4. Removal of the supply or return temperature sensors requires draining the boiler as outlined below.

### Return to Operation

1. Perform the following steps if a supply or return temperature sensor was replaced.
    - Close the boiler drain valve.
    - Open all isolation valves on the system piping to the boiler. Open the fill valve line to the system. Check for leaks around the supply or return temperature sensors which were replaced.
  2. Perform the following step if a flue temperature sensor was replaced.
    - Restore power to the unit and operate to verify there is no flue gas leakage around the flue temperature sensor.
  3. Swing control panel up to engage retaining clips.
  4. Replace the front jacket panel and secure with the thumb screw along the upper edge.
- Close all isolation valves on the system piping to the boiler. Close the fill valve line to the system.
  - Connect a garden hose to the boiler drain. Direct the hose to a suitable place of drainage. Ensure boiler drain connection is between the boiler and the closed isolation valve.
  - Open the drain valve and begin draining the boiler.



**Water from the boiler drain connection may be extremely hot. To avoid personal injury, death or substantial property damage:**

- **Tighten all drain hose connections**
- **Direct hot water away from all persons.**

### PS Model

#### Temperature Sensor Removal

1. Turn power to the unit “OFF”
2. Remove the front panel of the Prestige by removing the thumb screw along the upper edge of the unit. Lift the panel up and pull forward to remove the front panel from the unit.
5. Remove the wire connections from the sensor.
6. Before removing the supply or return temperature sensors, verify that the boiler has completely drained. Remove the supply or return temperature sensor using an adjustable wrench.
7. Remove the flue temperature sensor using an adjustable wrench.

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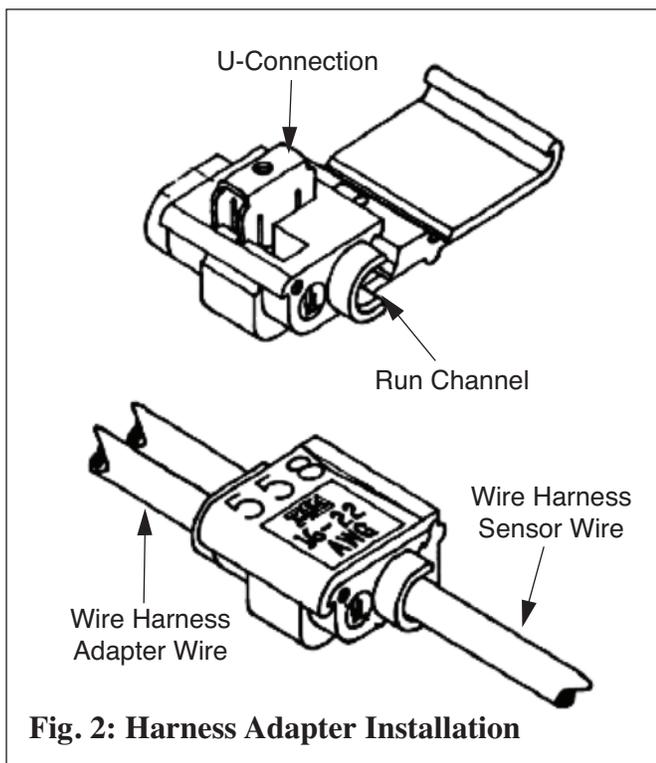
## Temperature Sensor Installation

1. Verify that an o-ring is installed at the base of the temperature sensor before installing the sensor.
2. Thread the temperature sensor on by hand and tighten as tightly as possible. Tighten the temperature sensor an additional  $\frac{1}{4}$  turn using an adjustable wrench.
3. Connect the Harness Adapter to the boiler wiring harness using the Wire Taps included with the kit.
  - Place the unstripped wire harness wire into the run channel of the Wire Tap and close the side cover.
  - Insert the Harness Adapter unstripped wire into the Wire Tap and use pliers to squeeze the U-Connection into the Wire Tap.
  - Closed the hinged cover and make sure it latches.

4. Plug the Harness Adapter into the sensor.

## Return to Operation

1. Perform the following steps if a supply or return temperature sensor was replaced.
  - Close the boiler drain valve.
  - Open all isolation valves on the system piping to the boiler. Open the fill valve line to the system. Check for leaks around the supply or return temperature sensors which were replaced.
2. Perform the following step if a flue temperature sensor was replaced.
  - Restore power to the unit and operate to verify there is no flue gas leakage around the flue temperature sensor.
3. Swing the control panel into the boiler and secure with the retaining screw. Connect the ignition wire to the MCBA control.
4. Replace the front jacket panel and secure with the thumb screw along the upper edge.



**Fig. 2: Harness Adapter Installation**