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# Low Water Cut-Off Device Replacement



**Kit Part Number: PGRKIT20**

**Included in the Kit:** (1) LWCO device

**Tools required:**

- Screwdriver - Slotted
- Adjustable wrench
- Needle nose type pliers
- Pipe sealant
- Garden Hose
- Voltmeter or Continuity Checker



**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**

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 proper order.

**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.

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# Low Water Cut-Off Device Replacement

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## DELTA Combination Heaters

### Removal of the LWCO device

1. Disconnect the power supply to the Combination Heater
2. Remove the front jacket panel by inserting the slotted screwdriver between the front and side jacket panels and use a twisting motion.

### NOTICE

**Use extreme care as not to damage or scratch the jacket panels with the screwdriver when removing the front jacket panel.**

3. Close all primary heating system isolation valves and the fill valve system on the supply and return lines at the Combination Heater.
4. Attach a garden hose to the drain valve located on the lower rear of the unit. Direct the hose to a suitable place of drainage.
5. Open the drain valve to drain the outer tank of the Combination Heater.

### WARNING

**Water from the drain valve 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**

6. Once the outer tank has been completely drain, remove the wire leads from the LWCO terminal. Use of pliers is recommended to avoid damaging the wire terminals.
7. Remove the LWCO device from the unit using an adjustable wrench.

## Installation of the LWCO device

1. Apply pipe sealant evenly along the threads of the new LWCO device. Ensure no pipe sealant is applied to the end of the LWCO device.
2. Thread the LWCO device onto the unit and tighten completely.
3. Open all isolation valves and the fill system on the unit to refill the outer tank. Check for leaks around the LWCO and tighten the device if necessary.
4. Once the outer tank is completely fill and 12 psig pressure is established, check continuity across the LWCO terminals.
5. If the LWCO device shows an open contact at 12 psig, increase the system pressure to 15 psig and recheck the continuity across the device. If the LWCO device continues to show an open contact, repeat the procedures for removing the device and replace it.
6. If the contacts show as closed, attach the wire terminals to the LWCO device.
7. Re-install the front jacket panel by inserting the lower tabs into the side jacket panels and then engaging the front jacket into the upper locking pins.
8. Reconnect power supply to the unit and return the unit back to service.

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# Low Water Cut-Off Device Replacement

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## PRESTIGE Boiler

### Removal of the LWCO device

1. Disconnect the power supply to the PRESTIGE Boiler.
2. Remove the 3 mounting screws along the upper edge of the front jacket panel on older units or the thumb screw on the newer unit and remove the front panel.
3. Close all isolation valves on the system piping to the boiler. Close the fill valve system line to boiler.
4. 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 any close isolation valve.
5. 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

6. On the Prestige 60 and 110, swing open the MCBA panel to access the LWCO device. Removal of retaining screw is required.
7. Once the boiler has been completely drain , remove the wire leads from the LWCO terminals. Use of pliers is recommended to avoid damaging the wire terminals.
8. Remove the LWCO device from the internal boiler piping using an adjustable wrench. use a second wrench to support the boiler piping and to avoid potential damage.

### Installation of the LWCO device

1. Apply pipe sealant evenly along the threads of the new LWCO device. Ensure no pipe sealant is applied to the end of the LWCO device.
2. Thread the LWCO device onto the boiler piping and tighten completely using the two wrench method.
3. Open all isolation valves and the fill system on the boiler to refill the unit. Check for leaks around the LWCO and tighten the device if necessary.
4. Once the boiler is completely fill and 12 psig pressure is established, check continuity across the LWCO terminals.
5. If the LWCO device shows an open contact at 12 psig, increase the system pressure to 15 psig and recheck the continuity across the device. If the LWCO device continues to show an open contact, repeat the procedures for removing the device and replace it.
6. If the contacts show as closed, attach the wire terminals to the LWCO device.
7. Re-install the front jacket panel using the 3 mounting screws or thumb screw.

### NOTICE

**On the Prestige 60 and 110 the MCBA panel must be swing back into position and secure with the retaining screw before re-installing front jacket panel.**

8. Reconnect power supply and return the boiler back to service.