

# Instinct Circulator Replacement



Kit Part Number	Description	Model
INSRKIT21	Circulator Replacement	All Instincts

## Each Kit Includes:

- Circulator (with 2 gaskets)

## Recommended Tools:

- Adjustable Wrenches
- Phillips Head Screwdriver



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



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



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



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

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

# Instinct Circulator Replacement



## 1. Preliminary Instructions

1. Verify that the circulator replacement kit is correct for the model of boiler. See table on page 1.
2. Carefully open and unpack the PARTS BOX from its shipping carton.
3. Carefully remove and check for any damage. Ensure the circulator is shipped with 2 gaskets.

### NOTICE

*Installing a damaged circulator will cause malfunction of the boiler. Contact Triangle Tube right away if the circulator is damaged in any way.*

4. Turn off the electrical power supply to the boiler.
5. Close the manual gas shut off valve to the unit.

## 2. Drain Boiler

1. Close all isolation valves on the system piping to the boiler. Close the fill valve line to the system.
2. Connect a garden hose to the boiler drain.
3. Direct the hose to a suitable place of drainage. Ensure boiler drain connection is between the boiler and the closed isolation valve.
4. 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 to avoid leakage.
- Direct hot water away from all persons.

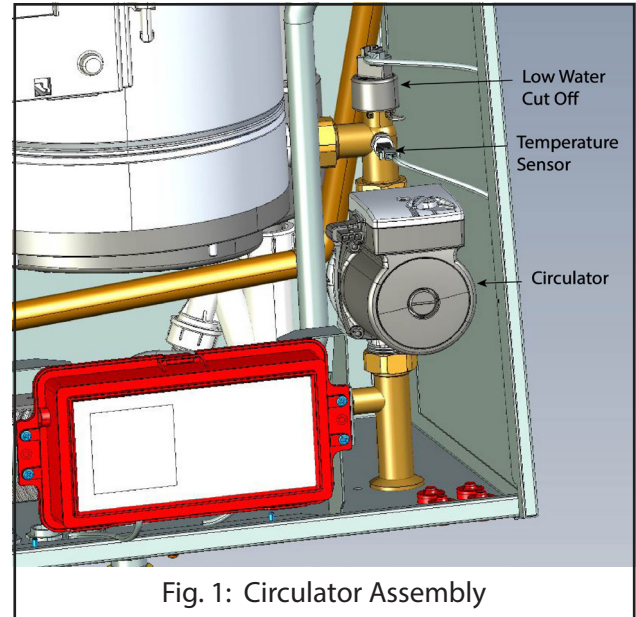


Fig. 1: Circulator Assembly

## 3. Circulator Removal

1. Note the orientation of the circulator as the replacement must be installed in the same manner.
2. Unscrew the 2 phillips head screws on the circulator cover plate to access the wires.
3. Disconnect the wires from the circulator by pushing the tabs in and pulling the wire out.
4. Unscrew the plastic grommet and remove the wires from the circulator.
5. Unbolt and remove the circulator from the internal piping.
6. Ensure the gaskets connecting the piping to the circulator are removed and not reused.

## 4. Circulator Installation

1. Install the new gaskets in both nuts of the circulator piping.

### NOTICE

*For the reassembly process do not use adhesive on any gasket surface.*

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2. Insert the circulator in the same orientation as the original into the recirculation piping.
3. Hand tighten the nuts.
4. Using 2 wrenches, tighten the nut an additional 1/4 turn.

### NOTICE

*Ensure the o-rings did not dislodge. Disassemble and re-seat the o-ring if they became dislodged.*

5. Unscrew the 2 phillips head screws on the circulator cover plate to access the wiring.
6. Screw in the plastic grommet into the new circulator and thread the hot, neutral, and ground wires

into the new circulator.

7. Insert the hot, neutral, and ground wires into the proper connectors by pushing the tab in and pushing the wire in.
8. Screw the 2 phillips head screws on the circulator cover plate.
9. Refill the boiler water and check for leakage. Repair any leaks before putting the unit back into service.
10. Push the lower front jack panel in place
11. Screw secure the lower front panel.
12. Return the unit to normal service.