

# Non-Condensing Cold Weather Kit

## INSTALLATION INSTRUCTIONS

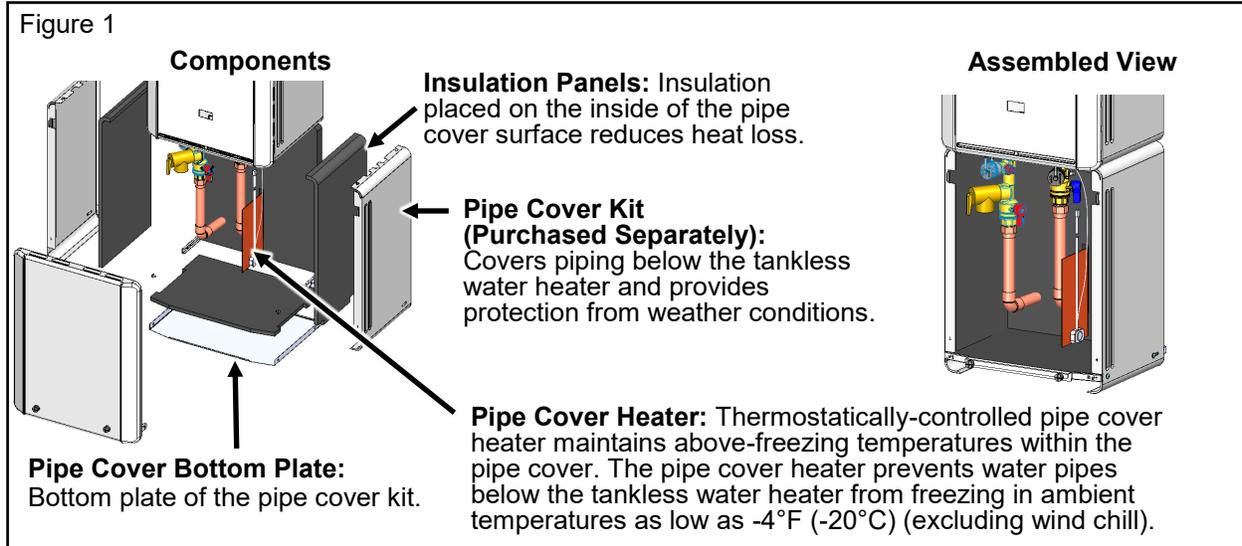
### **! WARNING**

Failure to correctly assemble the components according to these instructions may result in electric shock, injury, or death.

Kit Part Number	REColdKit
Kit Name	Non-Condensing Cold Weather Kit
Compatible Rinnai Tankless Water Heaters	RE199e, RE180e, RE160e, RE140e, REP199e, REP160e

## Overview

The Rinnai Non-Condensing Cold Weather Kit prevents the water pipes below the tankless water heater from freezing and causing damage by providing a pipe cover heater and insulation panels for the pipe cover enclosure (Figure 1).



### **➔ IMPORTANT**

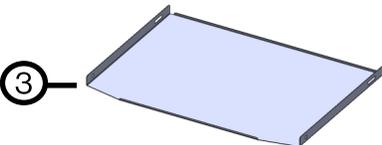
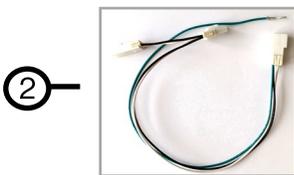
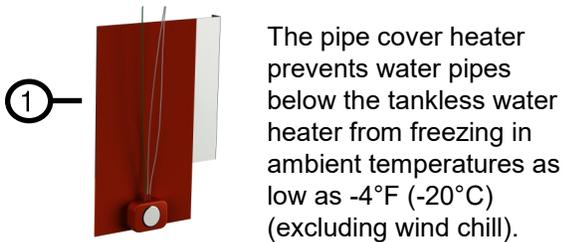
Insulate all pipes and fittings outside of the pipe cover enclosure to prevent pipes from freezing using pipe insulation, heat tape, heat cables, or other insulation methods.

**Rinnai**<sup>®</sup>

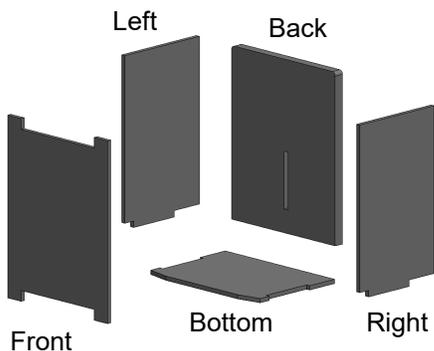
## Items Inside Product Box

Before installation, please make sure all parts are located inside the product box.

Item	Item Name	Qty
1	Pipe Cover Heater	1
2	Wire Harness Splitter	1
3	Pipe Cover Bottom Plate	1
4	Insulation Panels with Adhesive Backing	5



④ Insulation Panels:



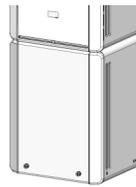
## You Will Need

### Items Supplied with Purchase:

- Pipe Cover Heater
- Wire Harness Splitter
- Pipe Cover Bottom Plate
- Five (5) Insulation Panels

### Required Item Purchased Separately (Not Included in Purchase):

- Pipe Cover Kit:



*Pipe cover image is for illustrative purposes only. Actual pipe cover may appear differently than image.*

Part #	Applicable Models
PCD09-SHS	RE & REP Outdoor

### Recommended Item (Optional) (Purchased Separately):

- The Non-Condensing Cold Weather Kit requires a constant supply of electrical power to operate. In the event of power loss during freezing conditions, it is recommended that the **Rinnai Freeze Protection Drain Down Kit (Part # 10400059)** is installed to prevent frozen pipes.

### Tools and Parts (Field-Supplied):

- Wood or concrete wall screws (Qty 2) and wall anchors (Qty 2) for wall mounting the pipe cover heater
- Phillips head screwdriver
- Drill and drill bit set

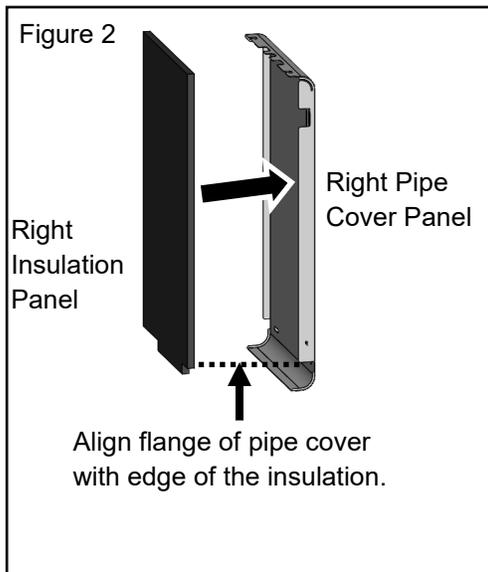
# Instructions

## ➔ IMPORTANT

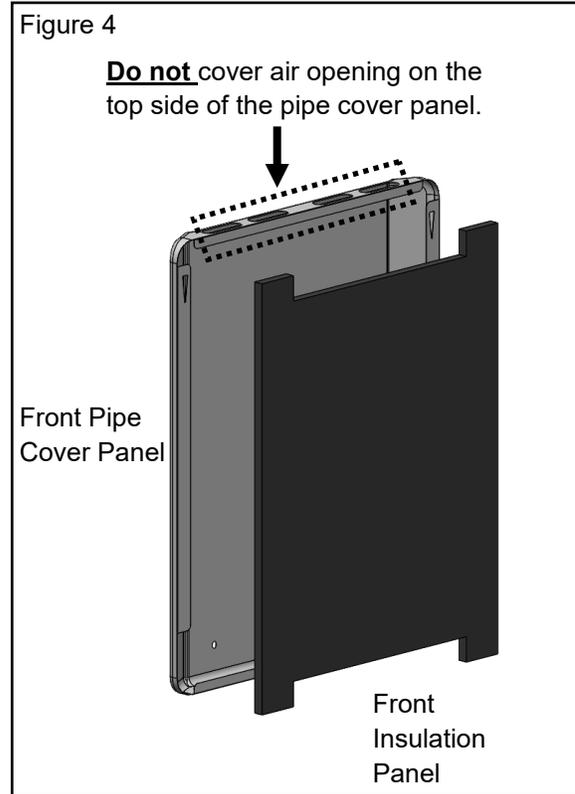
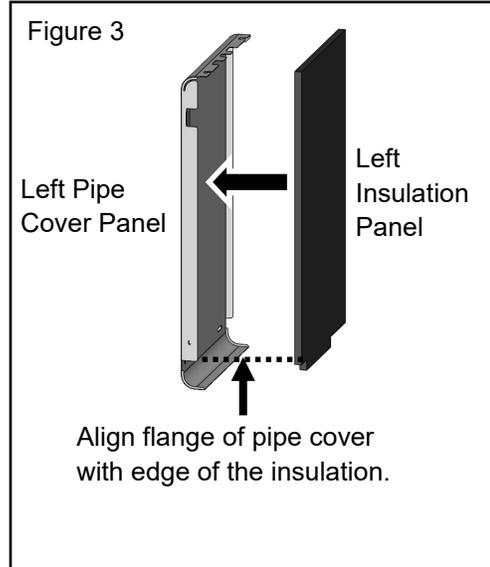
The Non-Condensing Cold Weather Kit is best installed after the Rinnai tankless water heater is wall mounted, but before connecting the plumbing, gas and electrical.

### Insulate and Install Pipe Cover Panels:

1. Insulate right panel:
  - Remove the adhesive paper from the right insulation panel (discard the adhesive paper).
  - Carefully apply the insulation panel to the inside surface of the pipe cover panel. Make sure the insulation edges are flush with the back and bottom (Figure 2). When complete, set panel aside until future step.

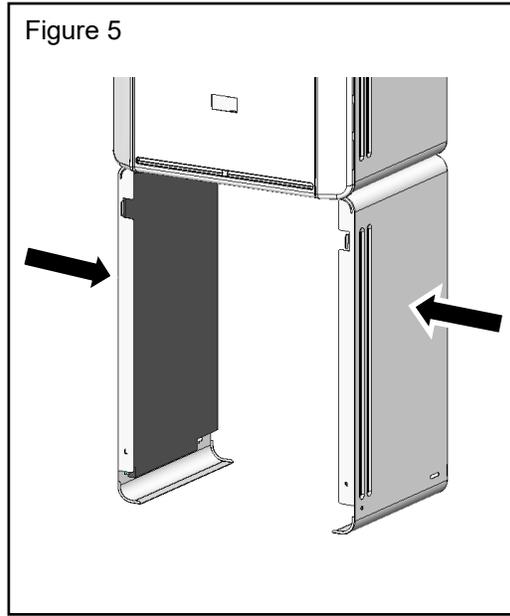


2. Repeat Step 1 with the left panel (Figure 3) and front panel (Figure 4).

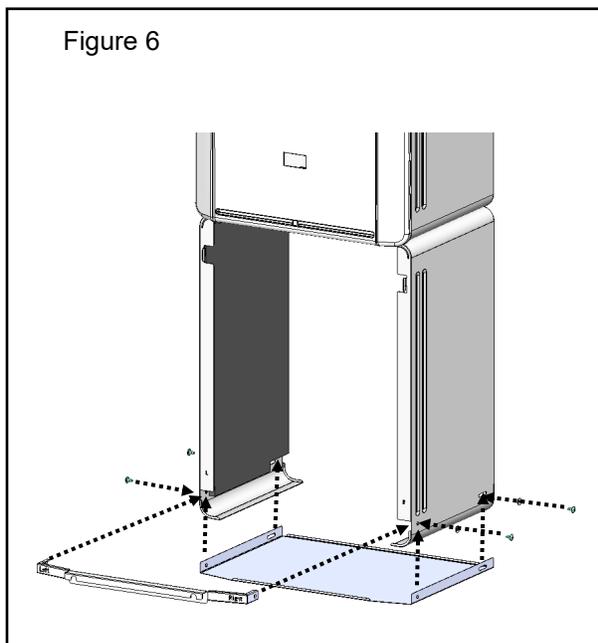


3. Install the right and left pipe cover panels onto the tankless water heater as described in the instructions provided with the pipe cover kit (Figure 5).

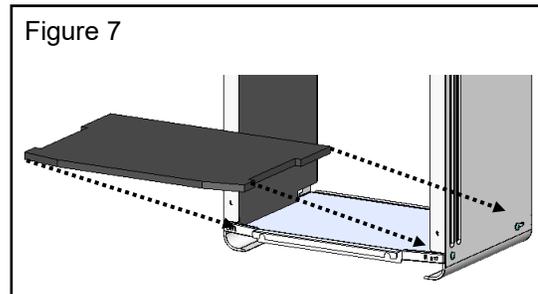
Leave the front cover panel off until future step.



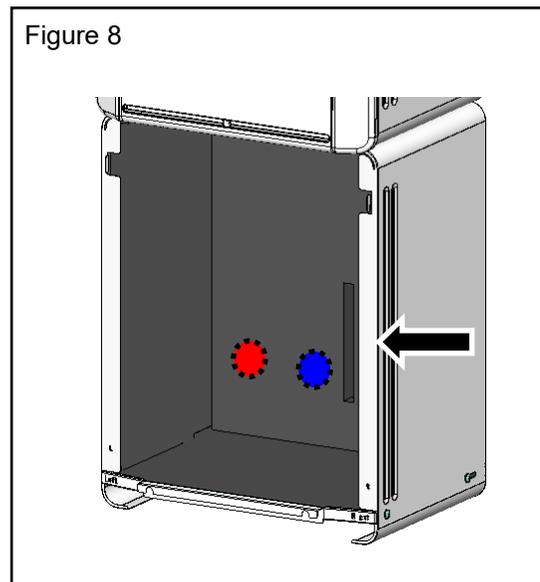
4. Install the supplied pipe cover bottom plate (Figure 6).



5. Place the bottom plate insulation panel onto the bottom plate (apply panel in either front-facing direction) (Figure 7).



6. Test fit the back insulation panel before creating openings for plumbing, gas and electrical lines. Some trimming of the insulation may be required to properly fit panel into place. Use a utility knife to properly trim the installation if necessary.
7. Remove the adhesive paper from the back insulation panel and apply to the wall (Figure 8).



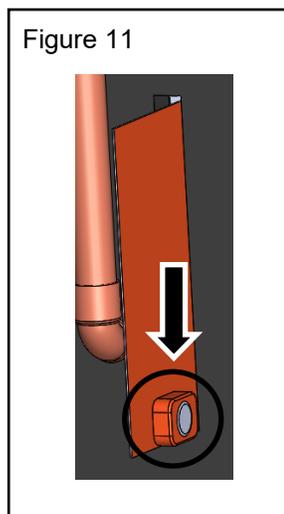
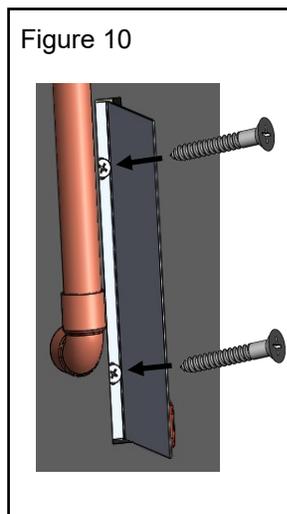
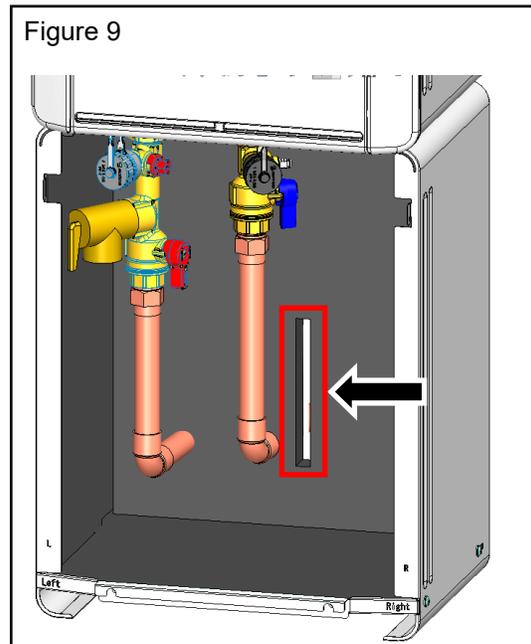
- Pre-cut openings for plumbing, gas and electrical were not cut into the back insulation panel to give the installer flexibility of placing those openings as best suited for each install (Figure 9).
- It is best to avoid penetrations through the pipe cover (including for the pressure relief valve), but in cases where penetrations are unavoidable, the opening should be properly sealed off and insulated as best as possible.

## Install Pipe Cover Heater

8. The pre-cut section highlighted in Figure 9 is the pipe cover heater location.

Install the pipe cover heater vertically using wood or concrete wall screws based on the wall material (Figure 10).

The thermostat on the pipe cover heater should be at the bottom as shown in Figure 11.

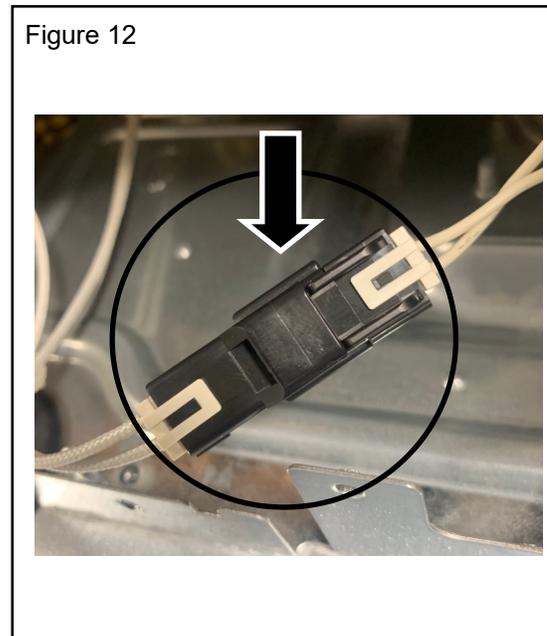


## Wire Pipe Cover Heater

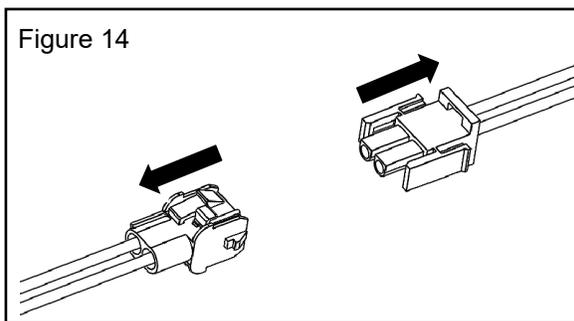
### **WARNING**

The pipe cover heater is wired in parallel with the tankless water heater's ceramic heater circuit. This section requires connecting the supplied wire harness splitter inline with the ceramic heater wires to connect power to the pipe cover heater. **Electricity must be disconnected from the tankless water heater before starting the next step.**

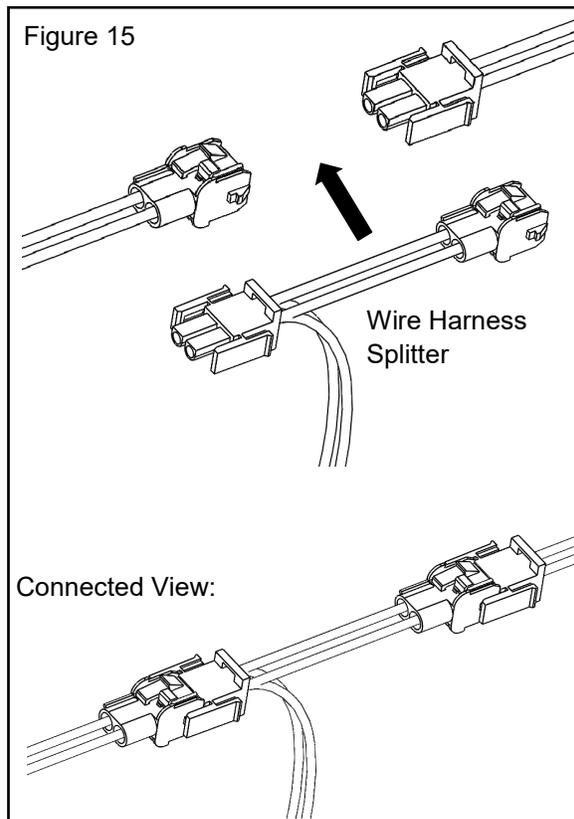
9. Turn off the tankless water heater and disconnect from the power supply as indicated in the above warning.
10. Remove the tankless water heater front cover (for detailed instructions, refer to the Installation and Operation Manual supplied with the tankless water heater).
11. Inside the tankless water heater, locate the black ceramic heater harness connector in the lower left area of the cabinet; the connector can be identified by the black wire connector and white wires (Figure 12).



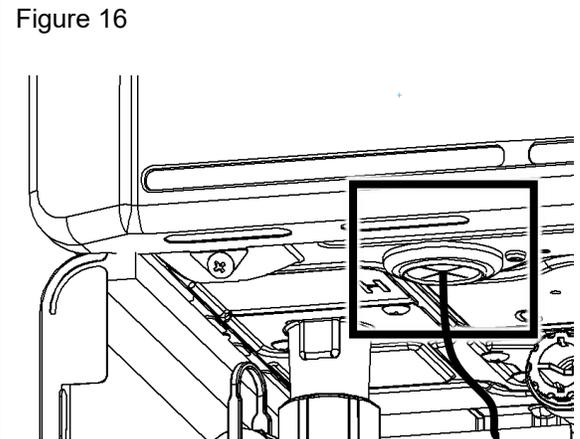
12. Disconnect and separate the green ceramic heater harness connectors (Figure 14).



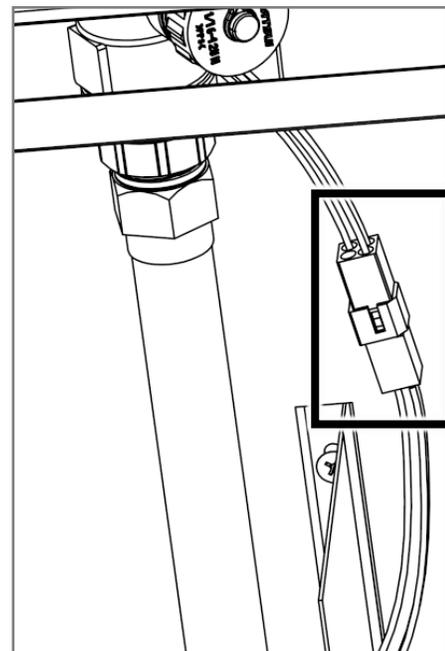
13. Connect both ends of the green ceramic heater harness connectors with the wire harness splitter (Figure 15).



14. Route the remaining connector end of the splitter through the left grommet opening of the tankless water heater cabinet and connect to the end of the pipe cover heater (Figure 16).



Route the connector end of the splitter through the left grommet opening of the tankless water heater cabinet.



Connect to end of pipe cover heater.

15. Attach the green grounding wire of the wire harness splitter (Figure 17) onto either tankless grounding point located in the lower, right side of the tankless cabinet (Figure 18).

Figure 17

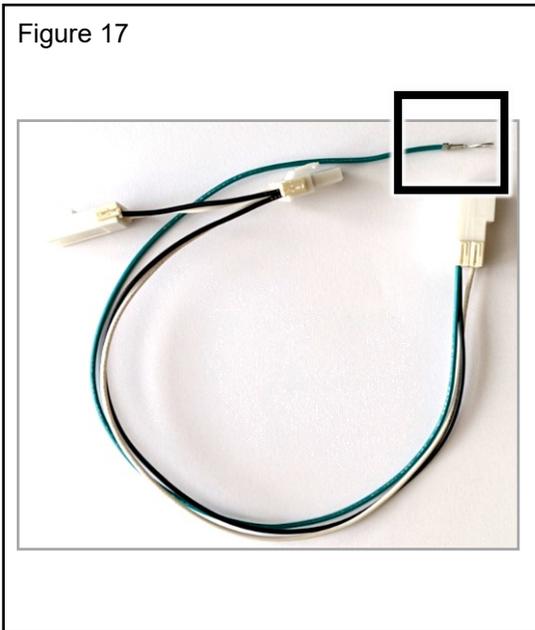
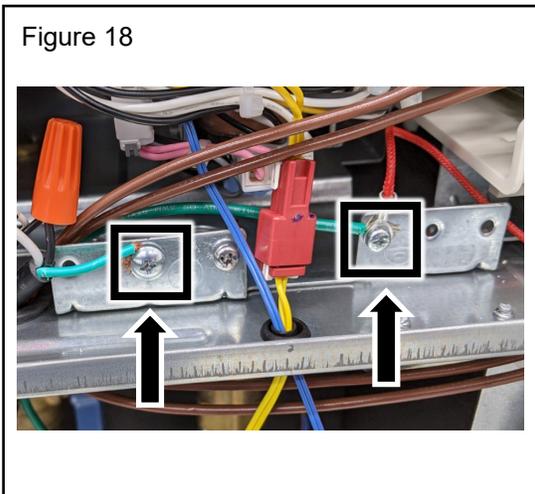


Figure 18



16. Install the tankless water heater front cover.
17. Reconnect power and turn on the tankless water heater.

## If You Need Service

For help with product installation, troubleshooting, servicing and more, visit

[rinnaiopro.myabsorb.com](http://rinnaiopro.myabsorb.com)

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