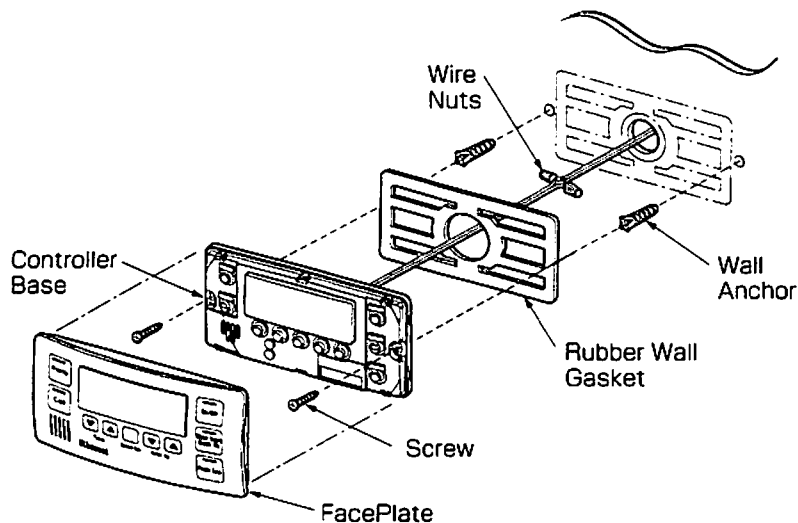




BC-100V-1US (Deluxe Bathroom Controller)

Installation Instructions



Tools Needed for Installation:

- Phillips screwdriver,
- Flathead screwdriver,
- Electric drill,
- 3/16-in drill bit,
- 3/4-in drill bit,

note:Wire nuts and spade connectors are not included with the controller.

Part Name	Form	Qty.
Controller		1
Packing		1
Screw (φ 3.8×25)		2
Wall Anchor		2
Wire clamp (Small)		1
Wire clamp (Large)		1

Application Requirments

- The BC-100V -1US remote control is intended to control hot water flow from one water heater. Do not install the BC-100V-1US with multiple Rinnai water heaters.
- The BC-100V-1US must be installed with tub fill fixtures that have two separate valves, one valve dedicated to cold water supply and one valve dedicated to hot water supply.
- The BC-100V-1US must not be used with circulation, when hot water is circulated through the Rinnai water heater.

Location Considerations

- Due to verbal instructions from the BC-100V-1US, the controller should be located in the same room as the tub intended for use with the bathfill function.
- Position the BC-100V-1US in a location that is easily accessible by adults. Avoid locations that easily accessible for children.
- Avoid locations that would submerge the controller under water.
- Avoid locations subject to direct sunlight. The controller can be difficult to read in direct sunlight.

Mounting The Controller



**Can cause electrical shock or equipment damage.
Disconnect power before wiring**

1. Place the controller face up on a flat surface.
2. While pushing down on the controller screen with you thumbs, firmly grasp the top lip of the faceplate and lift up.
(Fig.1)

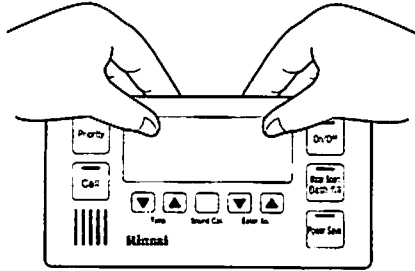


Fig.1: Face Plate Removal

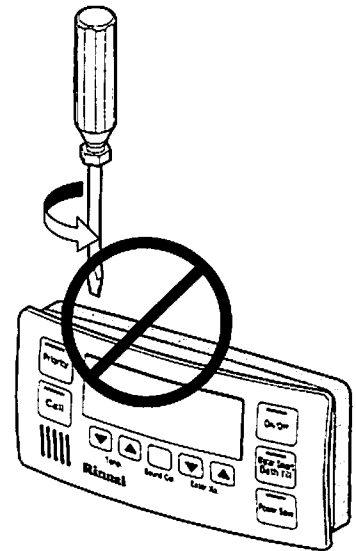


Fig.2: Do not use Screwdriver

3. Do not attempt to remove the faceplate with a screwdriver. (Fig.2)
4. Position and level the controller base on the wall.
5. Use a pencil to mark the mounting holes.
6. Remove the controller base from the wall. Drill two hole in the wall as marked.
For drywall drill two 3/16-in. holes (other wall material may require alternate mounting details).
7. Gently tap the wall anchors (provided) into the drilled holes until flush with the wall.
8. Carefully drill a 3/4-in. hole centered between the two wall anchors. (Fig.3)
9. Remove the white plastic film from one side of the "Rubber Wall Gasket". Center the gasket on the back of the controller base between the two mounting holes.
10. Run low voltage thermostat wire through the 3/4-in drilled hole. Connect the thermostat wire to the Controller Base wire using wire nuts or other approved solderless connectors. (Fig.4)
11. Remove the white plastic film from the other side of the gasket and position the controller base on the wall over the "Wall Anchors".
12. Insert the screws into the mounting holes and tighten the controller base to the wall.
13. Push the face plate onto the controller base. (Fig.5)

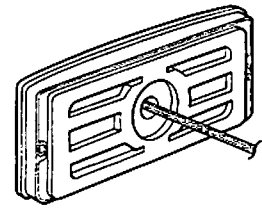


Fig.3: Packing Placement

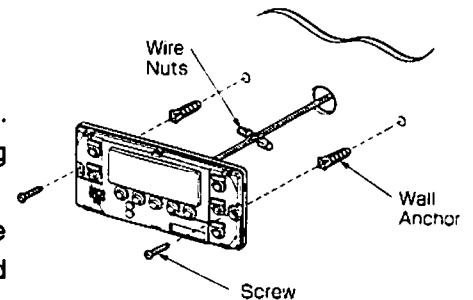


Fig.4: Gasket Placement

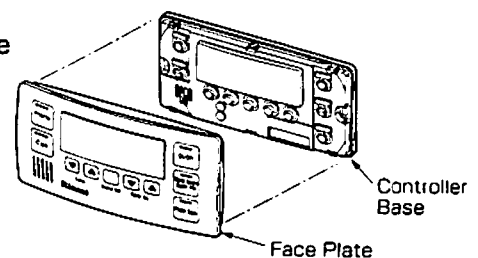


Fig.5: Face Plate Assembly

Wiring The Controller To The Water Heater



WARNING

**Can cause electrical shock or equipment damage.
Disconnect power before wiring.**

1. With a #2 phillips head screw driver, remove the front cover of the water heater.
(Fig.1)

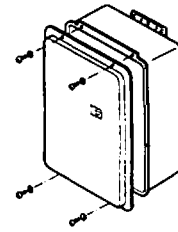
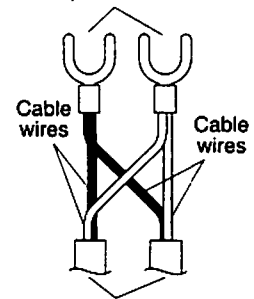


Fig.1: Removal of Front Cover

2. Connect one wire from each controller cable to a common spade connector.
(Fig.2)

New spade connectors



Remote control cable sheaths

Fig.2: Wire Connections

3. Thread the controller cable through the access hole at the base of the water heater. Connect the spade connectors to the terminals labeled "TERMINALS FOR CONTROLS". (Fig.3)

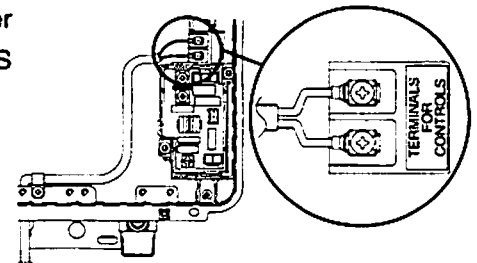


Fig.3: PCB Connection

note:

Polarity to the terminals is not important. Either wire can be connected to either terminal.

4. Replace the front cover of the water heater.

Wiring Multiple Controllers To the Water Heater

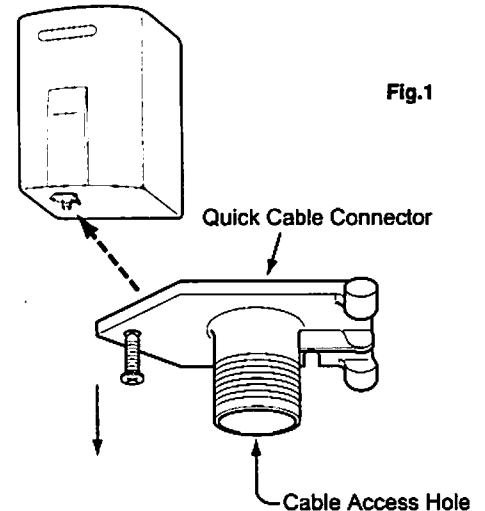


WARNING

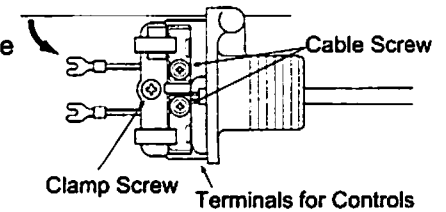
**Can cause electrical shock or equipment damage.
Disconnect power before wiring.**

For Quick Cable Connector model.

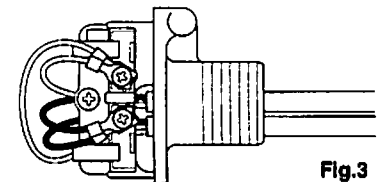
1. Remove the screw on the "Quick Cable Connector". (Fig.1)



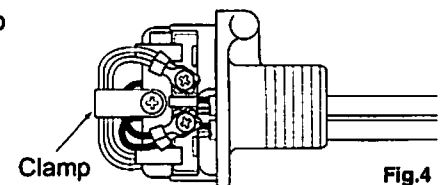
2. Rotate the "Quick Cable Connector" 90° counter clock wise to access the cable screws.
3. Insert wire cable through Cable Access Hole so that it can be accessed from the back. (Fig.2)



4. Loosen the two Cable Screws on Terminals for Controls and connect the cable accordingly. If installing more than one controller attach the cables in parallel by using one spade connector for each cable screw. (Fig.3)



5. Loosen the Clamp Screw and attach the wire to the terminal with the clamp provided with the remote control. (Fig.4)



6. Install cable connection as before. (Fig.5)

