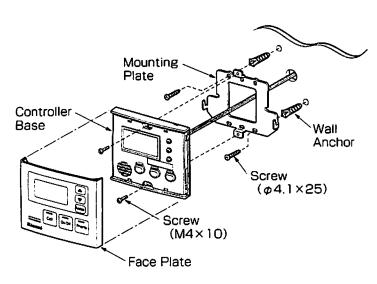


MC-100V-1US (Deluxe Controller)

Installation Instructions



Tools Needed fot Installation:

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

Part Name	Form	Qty.
Controller	William III	1
Mounting Plate		1
Screw (M4x10)	O m	2
Screw (φ4.1x25)	8	S
Wall Anchor	EMIN	2
Wire Clamp (Small)		1
Wire Clamp (Large)		1

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

Application Requirments

- The MC-100V -1US controller should be used in combination with the BC-100V-1US controller.
- Before resetting the controller always confirm all hot water taps are closed.

Location Considerations

- Due to verbal instructions from the MC-100V-1US, the controller should be located in an audible location.
- Position the MC-100V-1US in a location that is easily accessible by adults. Avoid locations that are 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. Identify the most suitable position for the controller.
- 2. With a flat head screw driver, carefully remove the Face Plate from the controller base. (Fig.1)



3. Position and level the mounting plate.

- 4. Using a pencil, mark the mounting holes and the large square opening on the center of the plate. (Fig.2)
- 5. Remove the mounting plate from the wall. Drill two holes in the wall as marked. For drywall drill two 3/16-in. holes (other wall material may require alternate mounting details).
- 6. Gently tap the wall anchors (provided) into the drilled holes until flush with the
- 7. Carefully drill a 3/4-in. hole in the center of the large square marked in step 4... (Fig.2)
- 8. Using a phillips head screw driver, attach the mounting plate to the wall with the 4.1X25 screws. (Fig.3)

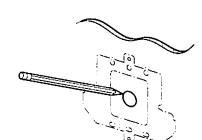


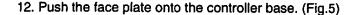
Fig.1: Face Plate Removal

right turn

Fig.2: Hole Locations

Fig.3: Mounting Plate Placement

- 9. Run low voltage thermostat wire through the 3/4-in drilled hole. With spade connectors and a phillips head screw driver, attach the thermostat wire to the controlled base. (Fig.4)
- 10. Assemble the Controller Base to the Mounting Plate. Using a phillips head screw driver, attach the Controller Base to the Mounting Plate with the two M4X10 screws.



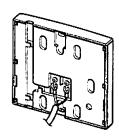
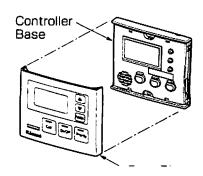


Fig.4: Cable Connection



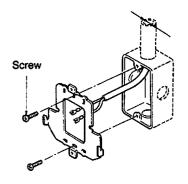


Fig.6

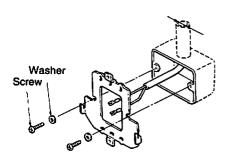


Fig.7

Continue installation steps 9 thru 12. (Fig.6 · Fig.7)

Wiring The Controller To The Water Heater

AVARNIG

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

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

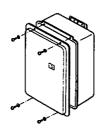
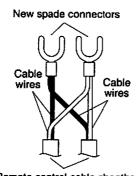


Fig.1: Removal of Front Cover

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



Remote control cable sheaths Fig.2: Wire Connections

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)

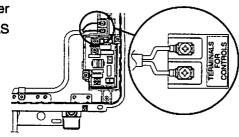


Fig.3: PCB Connection



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

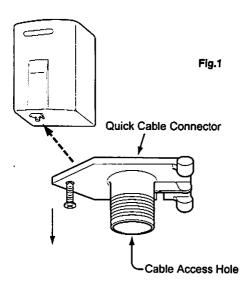
Wiring Multiple Controllers To the Water Heater



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 Conector" 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)

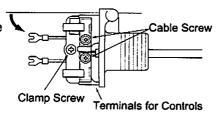
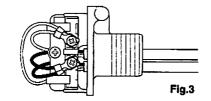
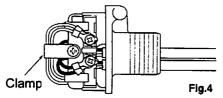


Fig.2

 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)

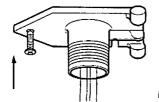


Fig.5

