

Installation Guide

SHB8127-01



SHB8127

Requests to Installers

- In order to use the water heater safely, read this installation guide carefully, and follow the installation instructions.
- Failures and damage caused by erroneous work or work not as instructed in this manual are not covered by the warranty.
- Refer to the Installation Manual provided with the water heater for complete installation details.

In order to use this product safely, read this installation manual carefully and follow the installation instructions.

- Potential dangers from accidents during installation and use are described below. Closely observe these warnings, they are critical to your safety.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

The remote controller is not water resistant. Keep it dry.

CAUTION

- Do not connect power to the system unit until the remote controller installation is complete.
- Be sure to fasten the mounting screws tightly by hand so that the remote controller will be secure.
 - * Do not use electric drivers, impact drivers and so forth. Tightening with excessive force may cause the mounting bracket to be damaged and lead to failures.
- Install the remote controller on an even wall surface.
 - * Installing it on an uneven wall surface may cause the bracket to be damaged and lead to failures.
- This remote controller has a built-in speaker which can be damaged by metal shavings resulting in sound cracking.
 - Keep the remote controller in a safe location prior to mounting it on the wall to prevent metal shavings from entering the remote controller.

Note

- Cutting too large of a hole on the wall may result in failure to properly secure the remote controller.
- Never fasten or loosen unnecessary screws in order to complete the remote controller installation.
- Be sure to check the positions of wall studs or other obstructions when determining the installation location for the remote controller.
- Secure the remote controller cable with appropriate anchors, ties, etc.
- Wire the remote controller cable in an area where it will not be directly affected by heat.
- To embed the remote controller cable in concrete, brick, etc., enclose it in conduit in order to prevent the remote controller cable from becoming damaged.
- When penetrating a wall containing metal lath, prevent the lath from coming into contact with any metallic conduit used in order to prevent electrical interference.
- Wiring shall be provided so that the remote controller cable length is 300 ft (90m) or shorter.
- Connect the remote controller cable to the terminal block of the water heater (see Installation Manual provided with the water heater).

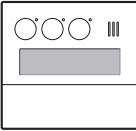
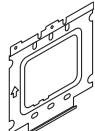




Post-installation Checks

- (1) Check if the remote controller is installed securely.
- (2) Verify remote controller operation (see Owner's Guide).
 - * Press the Power On/Off button approximately 5 seconds after connecting power to the system.
 - * Check if the temperature setting on the remote controller is appropriate.

Explanation to the Customer

Explain the "Important Safety Information", "Operation Procedures" and "Follow-up Service" according to the Owner's Guide supplied with the water heater.

Included Parts List (The value in () indicates the quantity.)

Remote Controller	Mounting bracket	Raised countersunk head wood screw	Wall anchor	Raised countersunk head screw	Machine screw
 (1)	 (1)	 (2)	 (2)	 (2) (For junction box installation)	 (2)

Notes on the Installation Location

- The remote should be installed in an easily accessible location.
- Avoid installing in a place where water or steam can come into contact with the controller.
- Avoid locations where special chemical agents (e.g., benzene, fatty and oily detergents) are used.
- Avoid outdoor installation, or installation in an indoor location where it will be exposed to direct sunlight.

Connection of Remote Controller Cord

White Connector → To Remote controller

Y-shaped terminals (two-core) → To Water heater

- * Confirm the connection with the labels at both ends of the remote controller cord.
- A 26' (8m) cord can be purchased separately (Part # RC-CORD26).
- The remote controller cord can be extended up to 300 ft (90m), by splicing the cord and using 18 gauge wire to extend the cord to the appropriate length.

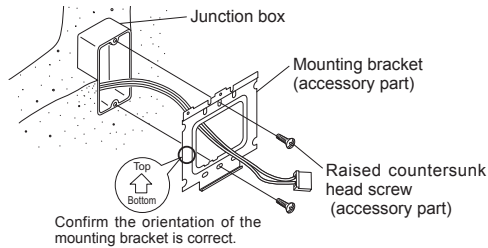
Installation

1. Attach the mounting bracket to the wall.
The parts to be used vary depending on the attachment method.

* Never use electric drivers, impact drivers and so forth.
Tightening with excessive force may result in deformation of the mounting bracket and/or failures.

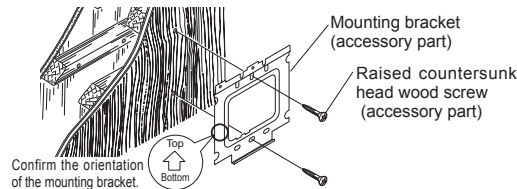
<When attaching to a junction box>

- Use the raised countersunk head screws to attach the mounting bracket to the junction box.
(In this case, the wall anchor and round countersunk head wood screws are not used.)



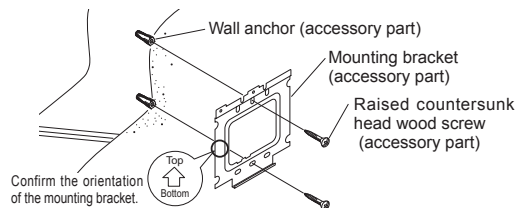
<When attaching to a wood surface>

- Use the raised countersunk head wood screws to attach the mounting bracket.
(In this case, the wall anchor and raised countersunk head screws are not used.)

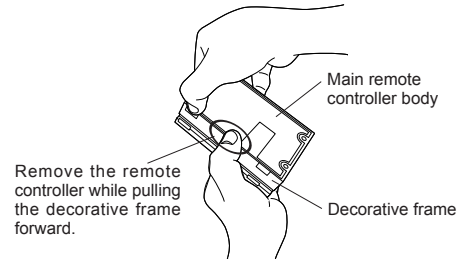


<When attaching to a concrete wall surface>

- Drill a $\phi 1/4"$ ($\phi 6\text{mm}$) hole, approx. 1" (25mm) in depth, and hammer in the wall anchor.
Attach the mounting bracket using the raised countersunk head wood screws.
(In this case, raised countersunk head screws are not used.)

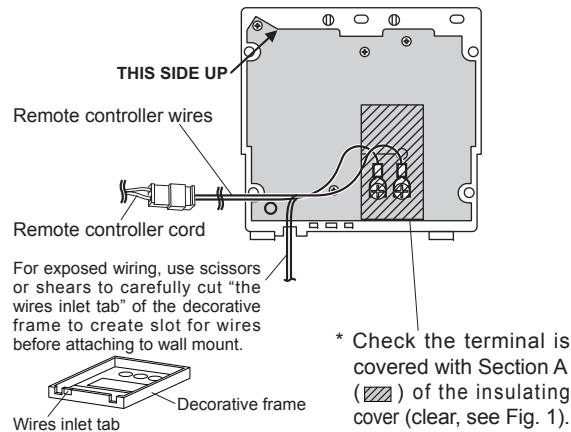


2. Remove the decorative frame from the remote controller.
(The remote controller is inserted in the decorative frame.)



3. Connect the remote controller wires to the cord supplied with the water heater.

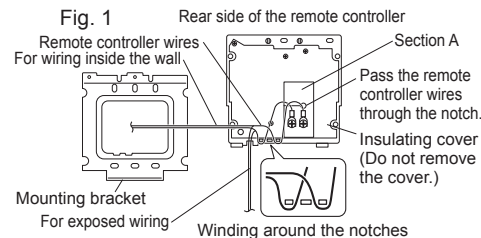
* Do not remove the remote controller wires from the terminal block, connect these wires to the remote controller cord.
* Do not remove the insulating cover (clear).
* Some modifications are required on the frame to complete the installation. See note below.



* Check the terminal is covered with Section A (hatched) of the insulating cover (clear, see Fig. 1).

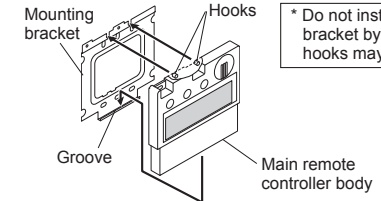
* If the Y-shaped terminal is not covered, the exposed section may come into contact with the mounting bracket resulting in improper operation or failure.

4. Secure the remote controller wires by winding them around the notches as shown in Fig. 1.

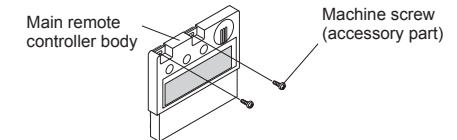


5. Attach the remote controller to the mounting bracket.
Insert the bottom of the remote controller into the groove at the bottom of the bracket and push in the 2 hooks on top of the remote controller completely.

* If it is difficult to attach, do not try to force it as it may result in broken hooks. Check for proper alignment in the groove or for loose wires obstructing the remote controller.

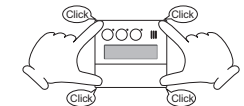


6. Secure the remote using the machine screws.



7. Attach the decorative frame which was removed in the second step.
Push the 4 corners of the decorative frame until there is a click.

* Incomplete installation may result in failures such as switch operation failure.



Note: To remove the decorative frame after installation of the remote controller and the frame, pull the entire decorative frame forward while pressing the sections indicated (where the fingers are) in the figure below.

* If it does not come off, insert a flat head driver into the notch at the bottom of the decorative frame and slightly twist it to remove (due caution is required not to scratch the remote controller, decorative frame or the wall in doing so).

