

WARNING

- Before starting work, check that power is not being supplied to indoor unit and the outdoor unit.
- Match the terminal block numbers and connection cord colors of the indoor unit and the outdoor unit. Erroneous wiring may cause burning of the electric parts.
- Connect the connection cords firmly to the terminal block. Imperfect installation may cause a fire.
- Always fasten the outside covering of the connection cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.)
- Always connect the ground wire.

HOW TO CONNECT WIRING TO THE TERMINALS**A. For solid core wiring (or F-cable)**

- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm (1 5/16") to expose the solid wire.
- Using a screwdriver, remove the terminal screw(s) on the terminal board.
- Using pliers, bend the solid wire to form a loop suitable for the terminal screw.
- Shape the loop wire properly, place it on the terminal board and tighten securely with the terminal screw using a screwdriver.

B. For strand wiring

- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm (3/8") to expose the strand wiring.
- Using a screwdriver, remove the terminal screw(s) on the terminal board.
- Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped wire end.
- Position the round terminal wire, and replace and tighten the terminal screw using a screwdriver.

Fig. 28

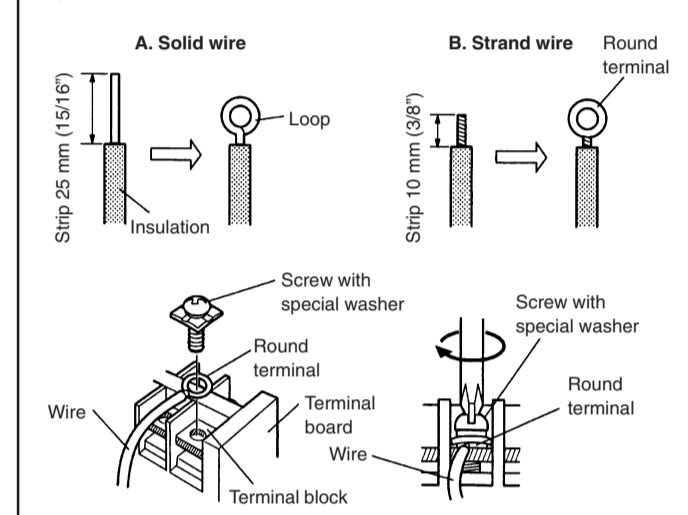
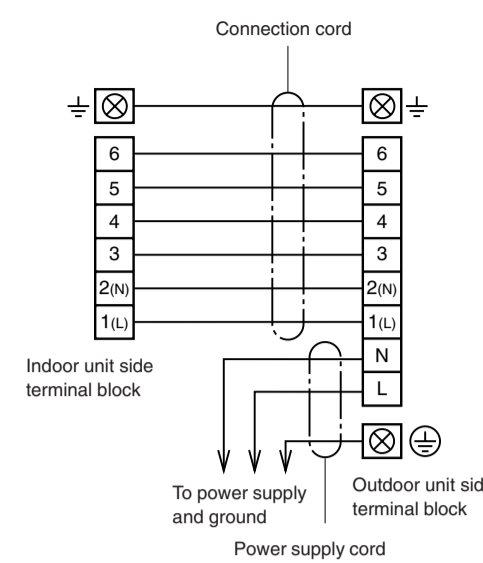
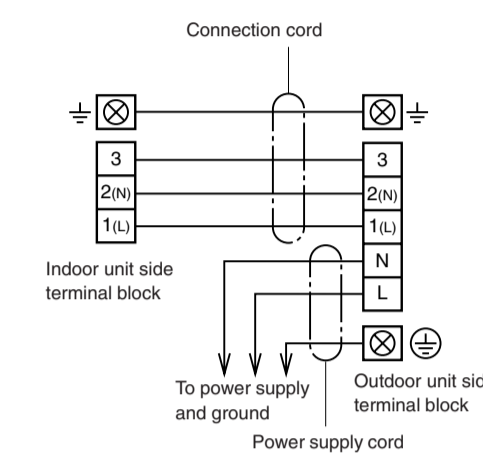
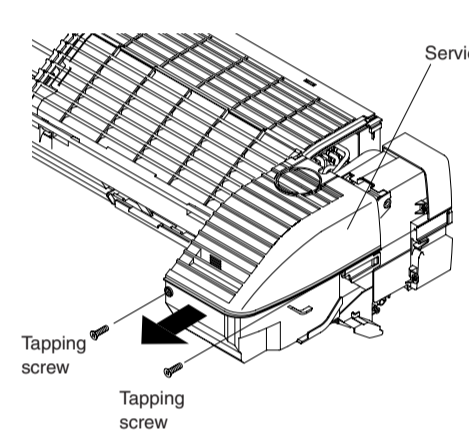
**1. CONNECTION DIAGRAM**

Fig. 29

[Heat & Cool model (Reverse cycle)]**[Cooling model]****2. INDOOR UNIT SIDE**

- Remove the service cover (Fig. 30).
- Remove the cord clamp.
- Connect the end of the connection cord fully into the terminal block.
- Fasten the connection cord with a cord clamp.
- Install the service cover with the screw.

Fig. 30

**Mount to position high on the wall:**

Use the table below to set the wall mounting position.

Fig. 31

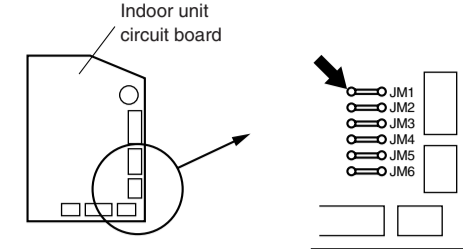
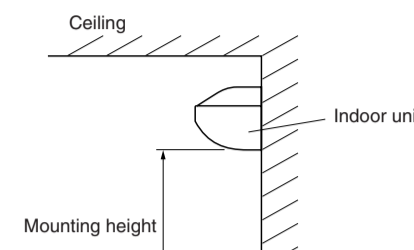


Fig. 32



Mounting height	Jumper wire (JM1)
1.5 m - 2.0 m	Connect (primary setting)
2.0 m - 2.5 m	Disconnect

[Heat & Cool model (Reverse cycle)]

Fig. 33

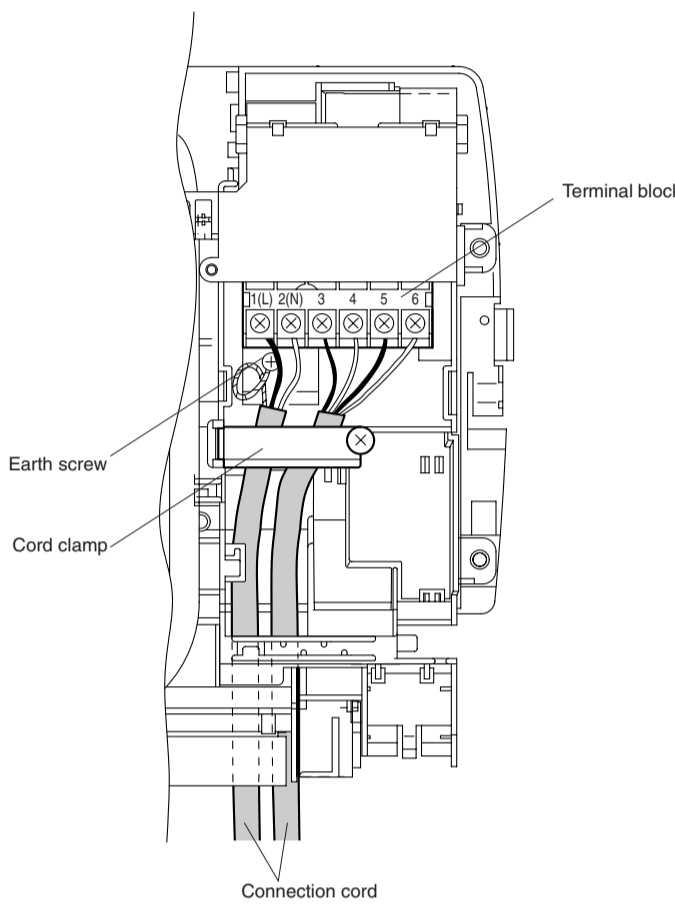
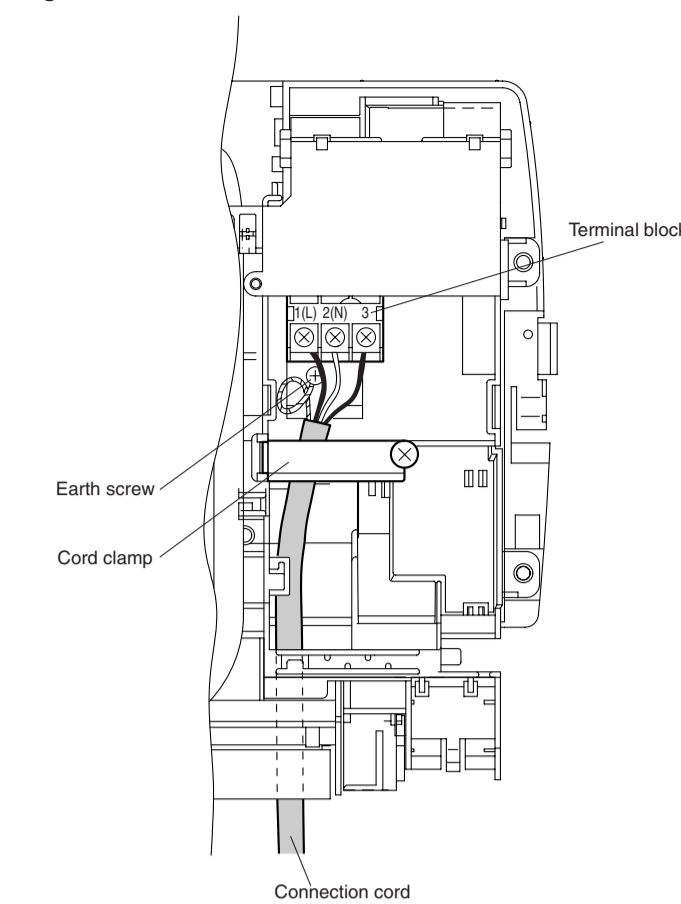
**[Cooling model]**

Fig. 34

**3. OUTDOOR UNIT SIDE****CAUTION**

Use VW-1, 12 mm diameter, 0.5 to 1.0 mm thick, connection PVC tube as the insulation tube.

- Remove the outdoor unit terminal cover and cord clamp.
- Process the end of the connection cords to the dimensions shown in Fig. 37.
- Connect the end of the connection cord fully into the terminal block and fasten with the screws.
- Fasten the sheath with a cord clamp. (Fig. 36)
- Install the terminal cover.

Fig. 35

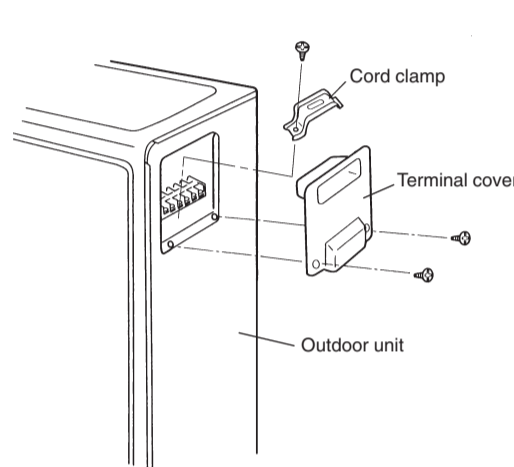


Fig. 36

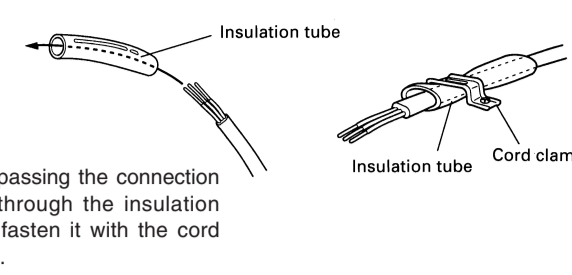
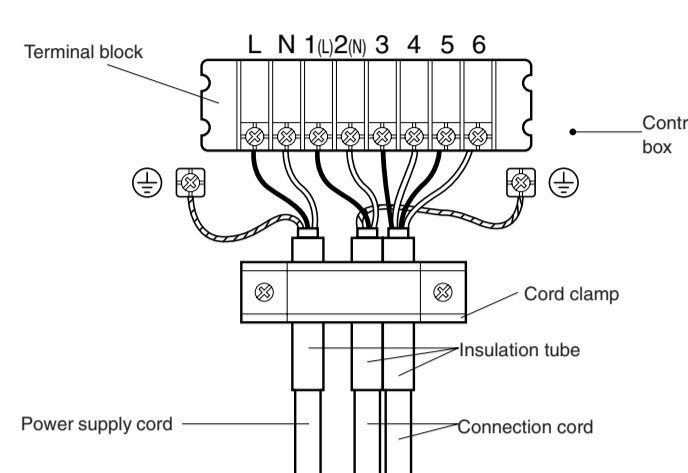
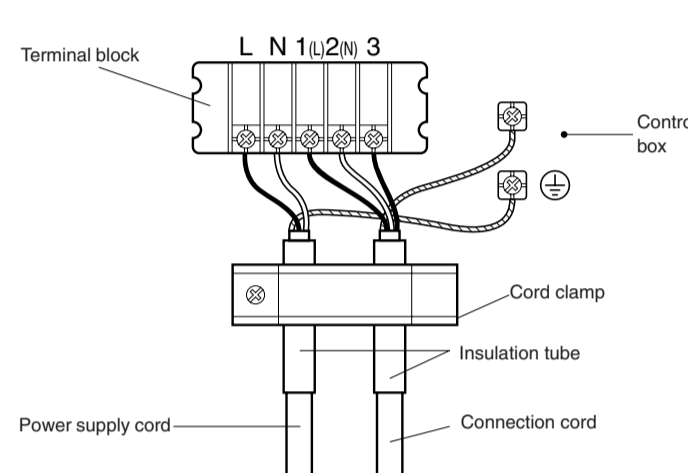
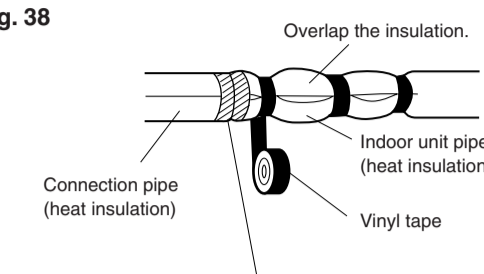


Fig. 37

[Heat & Cool model (Reverse cycle)]**[Cooling model]****1. CONNECTION PIPE, CORD AND DRAIN HOSE**

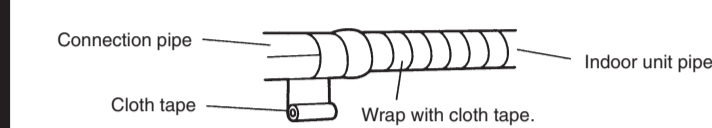
- Insulate between pipes.
 - For ① Rear, ② Right, and ③ Bottom piping, overlap the connection pipe heat insulation and indoor unit pipe heat insulation and bind them with vinyl tape so that there is no gap.
 - For ④ Left rear and ⑤ Left piping, butt the connection pipe heat insulation and indoor unit pipe heat insulation together and bind them with vinyl tape so that there is no gap.

Fig. 38



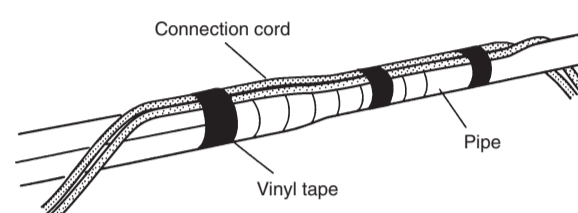
- For ④ Left rear and ⑤ Left piping, wrap the area which accommodates the rear piping housing section with cloth tape.

Fig. 39



- For ④ Left rear and ⑤ Left piping, bind the connection cord to the top of the pipe with vinyl tape.

Fig. 40

**Check that:**

- The top and bottom hooks are hooked firmly and the indoor unit does not move to the front and rear or left and right.
- The indoor unit is accurately positioned horizontally and vertically.
- When connected from the left rear, the drain hose is at the bottom left of the wall pipe.

Fig. 41

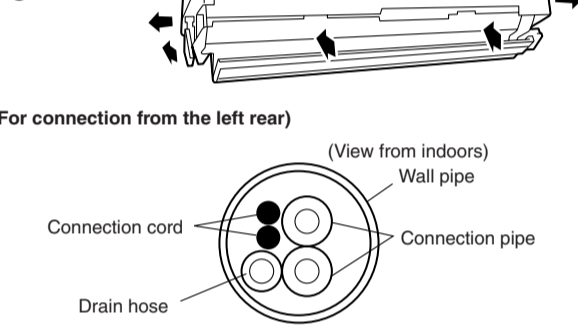
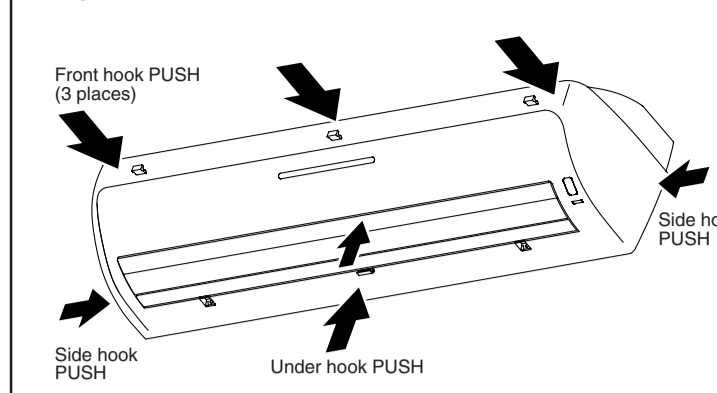


Fig. 45



- Temporarily fasten the connection cord along the connection pipe with vinyl tape. (Wrap to about 1/3 the width of the tape from the bottom of the pipe so that water does not enter.)
- Fasten the connection pipe to the outside wall with a saddle, etc.
- Fill the gap between the outside wall pipe hole and the pipe with sealer so that rain water and wind cannot blow in.

Fig. 42

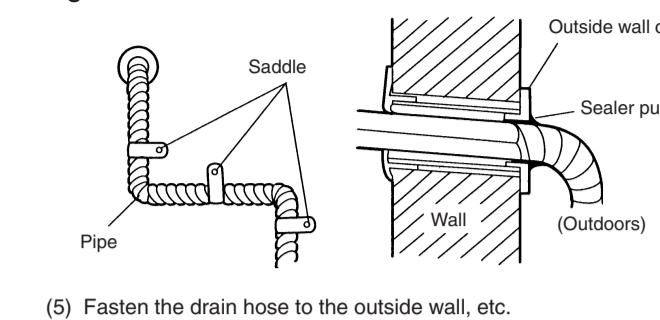
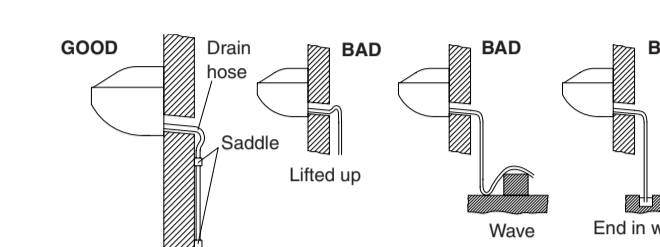


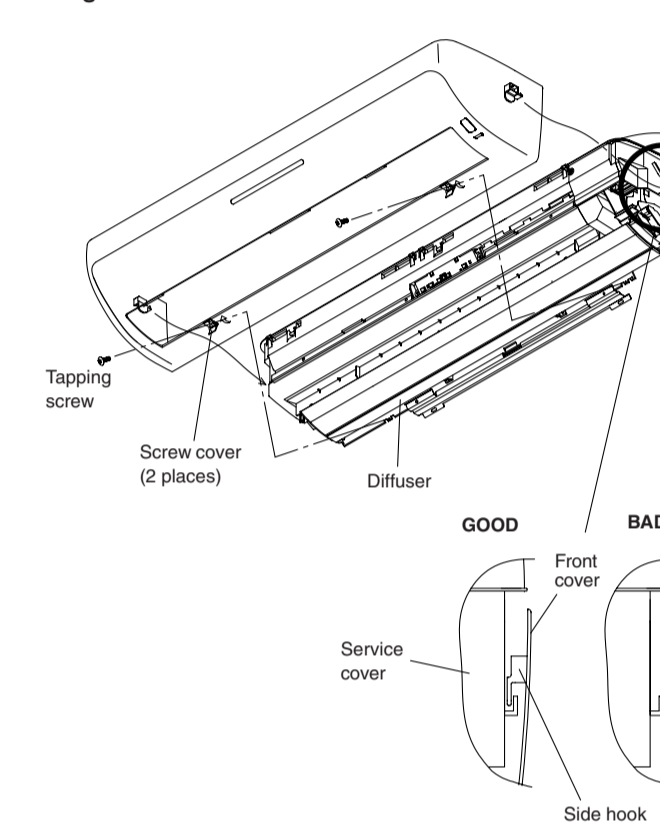
Fig. 43

Check the following:

**2. INSTALLING FRONT COVER**

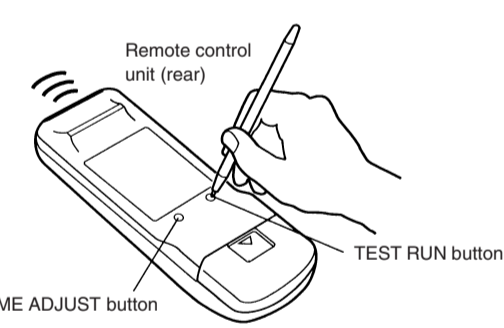
- Carefully attach the front cover to the diffuser on the front of the body of the indoor unit.
- Secure the lower section of the front cover with tapping screws in two locations and close the screw cover.
- Push in the following hooks from the outside: front hook, 3 locations; side hook, 2 locations; under hook, 1 location.
- The last step is to push in the hook above the blower outlet.

Fig. 44



- Perform test operation and check items 1 and 2 below.
- For the operation method, refer to the operating manual.
- The outdoor unit may not run, depending on the room temperature. In this case, press the test run button at the back of the remote control unit while the room air conditioner is running. (With the transmit section of the remote control unit facing the body, press the TEST RUN button with the tip of a ball point pen.)

Fig. 46



Operation can be checked by lighting and flashing of the display section OPERATION and TIMER lamps. Perform judgement in accordance with the following.

Test running

When the air conditioner is run by pressing the remote control unit test run button, the OPERATION and TIMER lamps flash slowly at the same time.

Error

The OPERATION, TIMER and SWING lamps operate as follows (Table 6) according to the error contents.

Table 6

Error contents	Error display		
	OPERATION (RED)	TIMER (YELLOW)	SWING (ORANGE)
Indoor unit circuit board error	○	○	—
Indoor unit room temperature sensor wire opened	2 times ●	○	—
Indoor unit room temperature sensor wire short circuited	2 times ●	○	○
Indoor unit piping sensor wire opened	3 times ●	○	—
Indoor unit piping sensor short circuited	3 times ●	○	○
Indoor unit fan error	6 times ●	○	—

CHECK ITEMS**(1) INDOOR UNIT**

- Is operation of each button on the remote control unit normal?
- Does each lamp light normally?
- Do not air flow direction louvers operate normally?
- Is the drain normal?
- Is there any abnormal noise and vibration during operation?

(2) OUTDOOR UNIT

- Is there any abnormal noise and vibration during operation?
- Will noise, wind, or drain water from the unit disturb the neighbors?
- Is there any gas leakage?

- Do not operate the air conditioner in the test running state for a long time.
- For the operation method, refer to the operating manual and perform operation check.

CAUTION

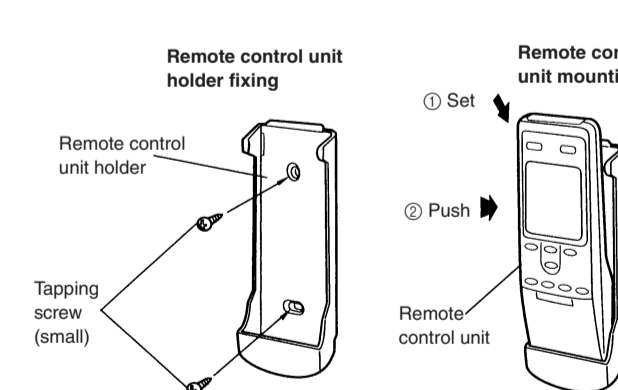
- Check that the indoor unit correctly receives the signal from the remote control unit, then install the remote control unit holder.

- Select the remote control unit holder selection site by paying careful attention to the following:
 - Avoid places in direct sunlight.
 - Select a place that will not be affected by the heat from a stove, etc.

1. REMOTE CONTROL UNIT HOLDER INSTALLATION

- Install the remote control unit with a distance of 7 m between the remote control unit and the photocell as the criteria. However, when installing the remote control unit, check that it operates positively.
- Install the remote control unit holder to a wall, pillar, etc. with the tapping screw (Fig. 47).

Fig. 47



Explain the following to the customer in accordance with the operating manual:

- Starting and stopping method, operation switching, temperature adjustment, timer, air flow switching, and other remote control unit operations.
- Air filter removal and cleaning, and how to use the air louvers.
- Give the operating manual and installation instruction sheet to the customer.