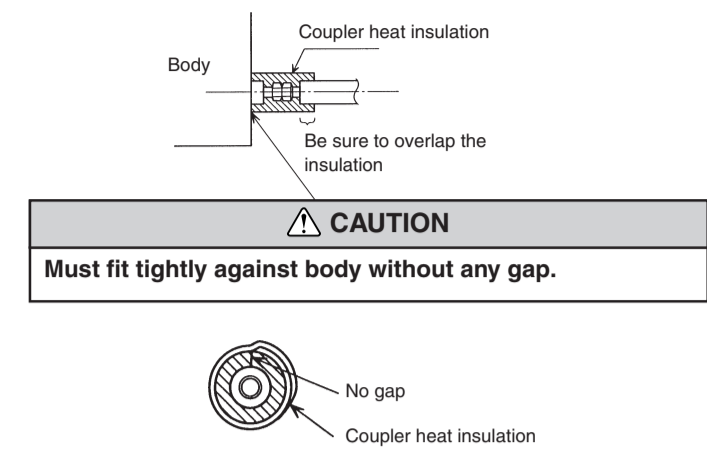


6 INSTALLING THE COUPLER HEAT INSULATION

After checking for gas leaks, insulate by wrapping insulation around the two parts (large and small) of the indoor unit coupling, using the coupler heat insulation.

Fig. 18



7 ELECTRICAL WIRING

HOW TO CONNECT WIRING TO THE TERMINALS

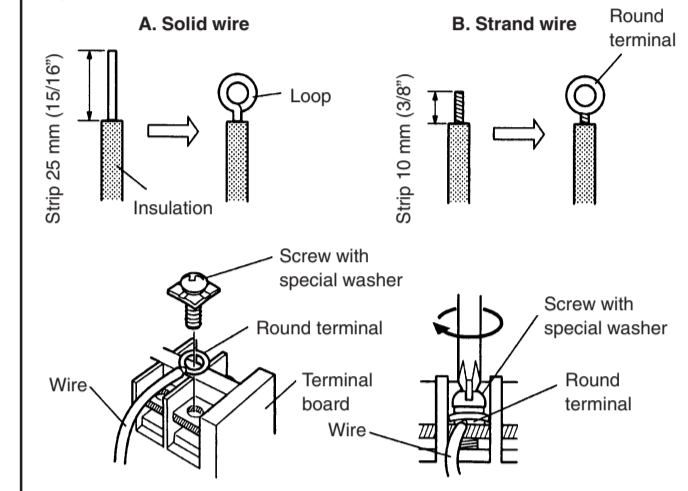
A. For solid core wiring (or F-cable)

- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm (1 5/16") of 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") of 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. 19



1. Indoor unit side

- Remove the control box cover and install the connection cord. (Figs. 20 and 21)

Fig. 20

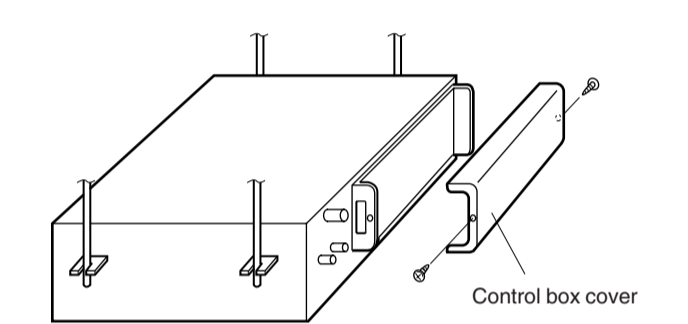
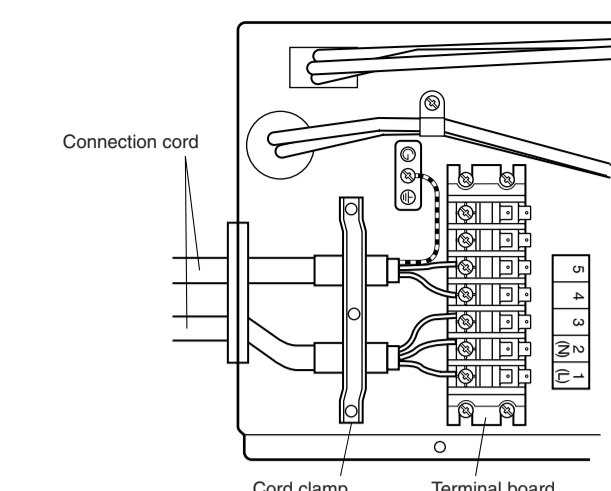
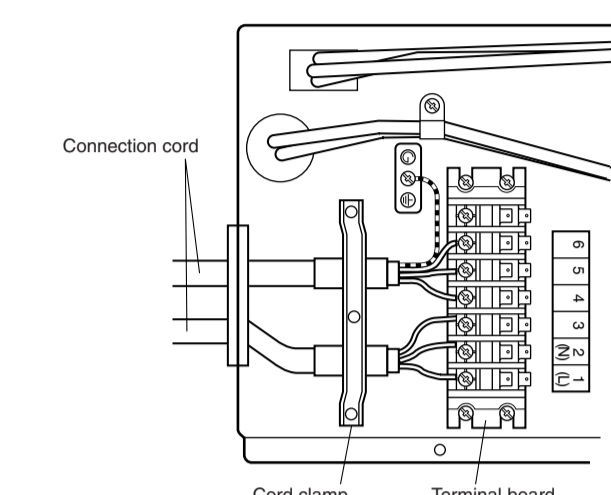


Fig. 21

[Cooling model]



[Heat & Cool model (Reverse cycle)]



2. Outdoor unit side

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

- Remove the terminal cover of the outdoor unit, and insert the end of the connection cord and the power cord into the terminal board.
- Fasten the connection cord and the power cord with the cord clamps.

Fig. 22

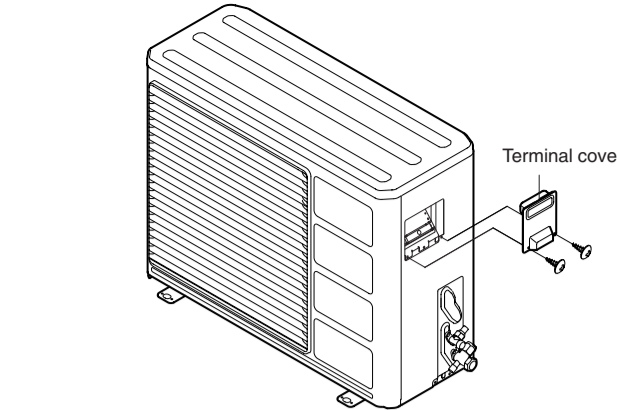
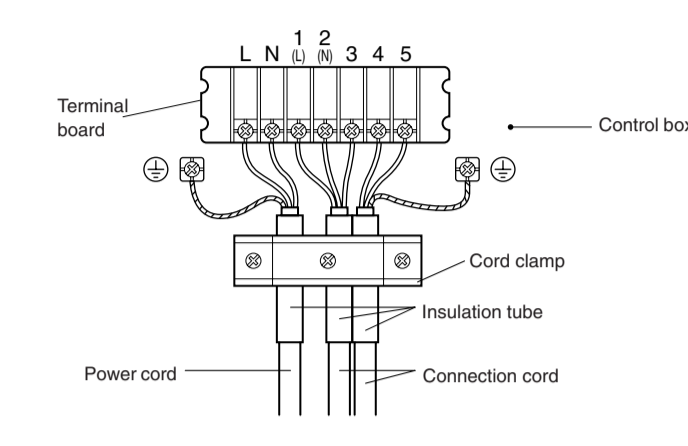


Fig. 23
[Cooling model]



[Heat & Cool model (Reverse cycle)]

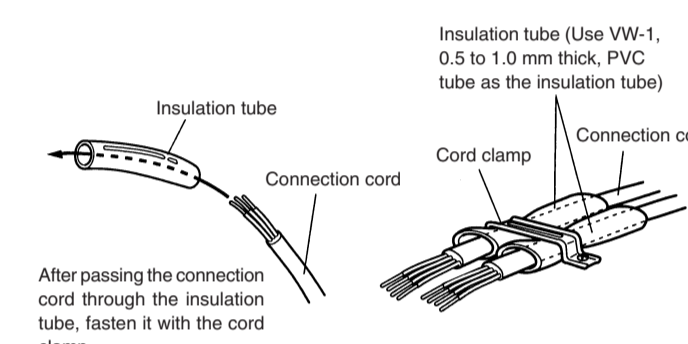
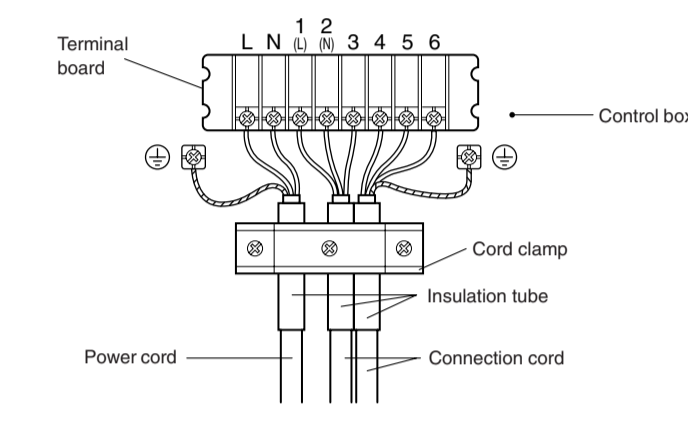
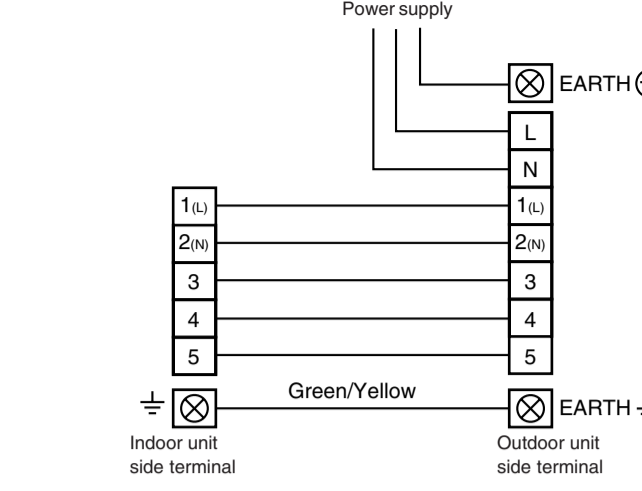
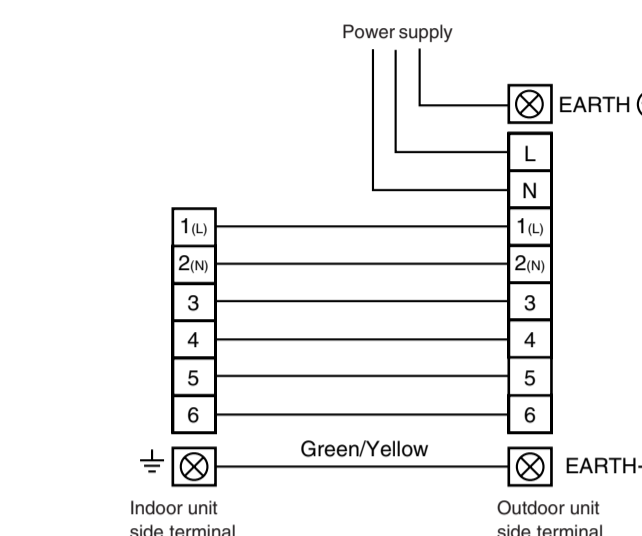


Fig. 24

[Cooling model]

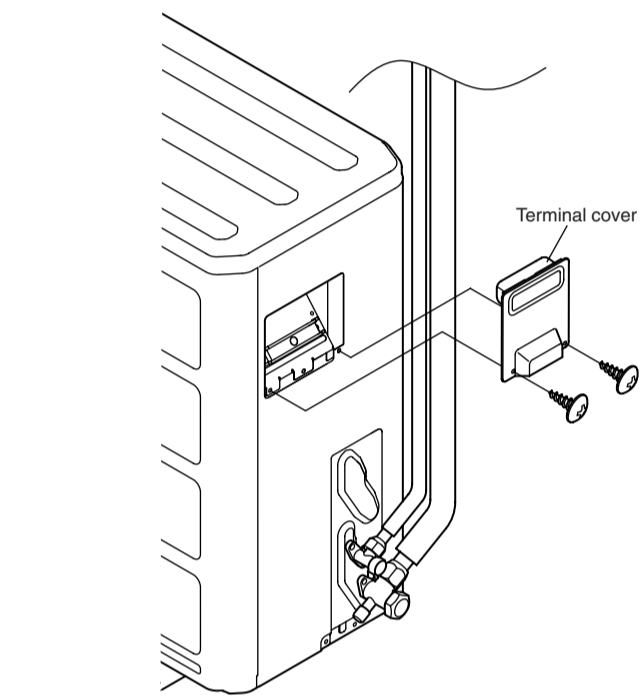


[Heat & Cool model (Reverse cycle)]



- Install the valve cover and terminal cover.

Fig. 25

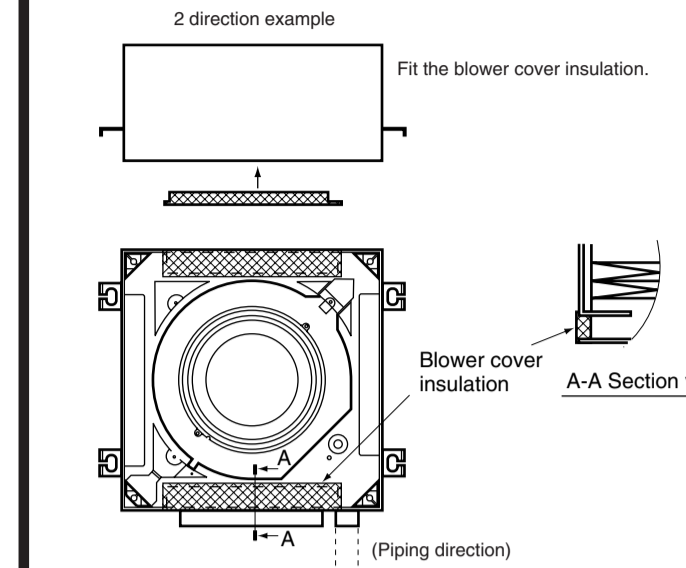


8 GRILLE INSTALLATION

1. Blower cover insulation

Install the blower cover insulation only when the outlet direction is not specified. Two blower cover insulations are packed with the grille assembly. Install the blower cover insulation at the diffuser position shown in Fig. 26. At the time, use the piping position as the criteria.

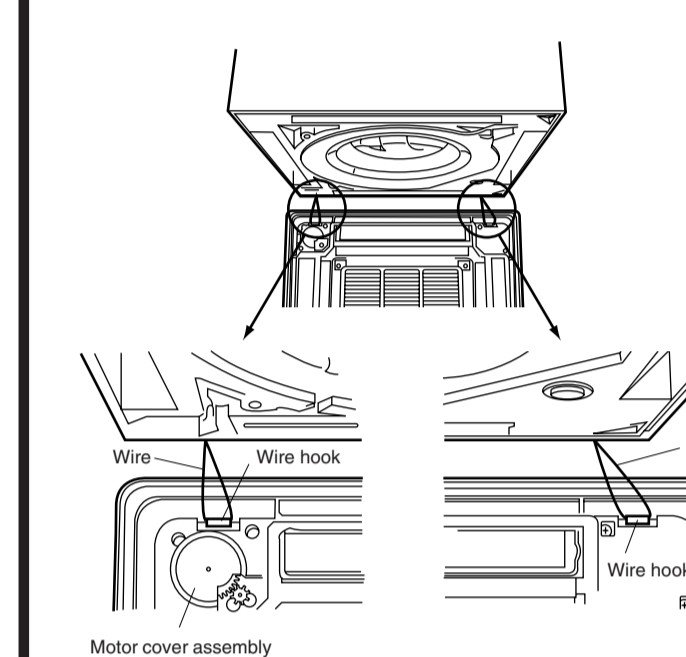
Fig. 26



2. Installing grille assembly to body

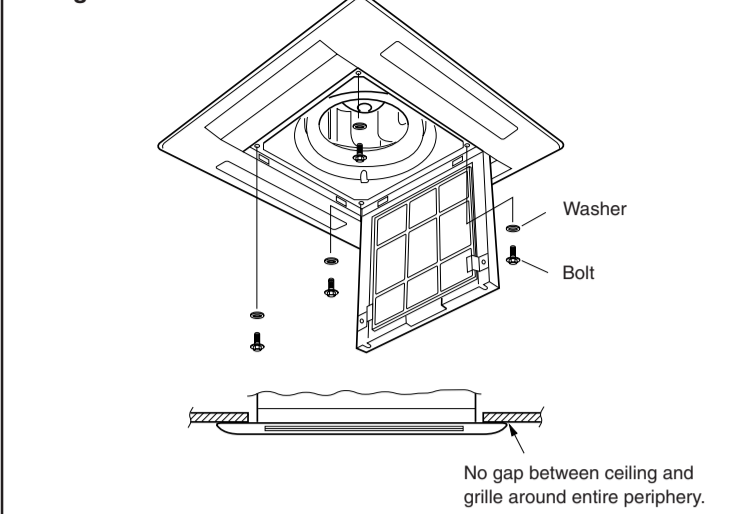
Hang the grille assembly on the wires attached to the indoor unit as shown in Fig. 27.

Fig. 27



Bolting the grille assembly to the body
Install the grille assembly to the body with the four bolts, spring washers, and washers.

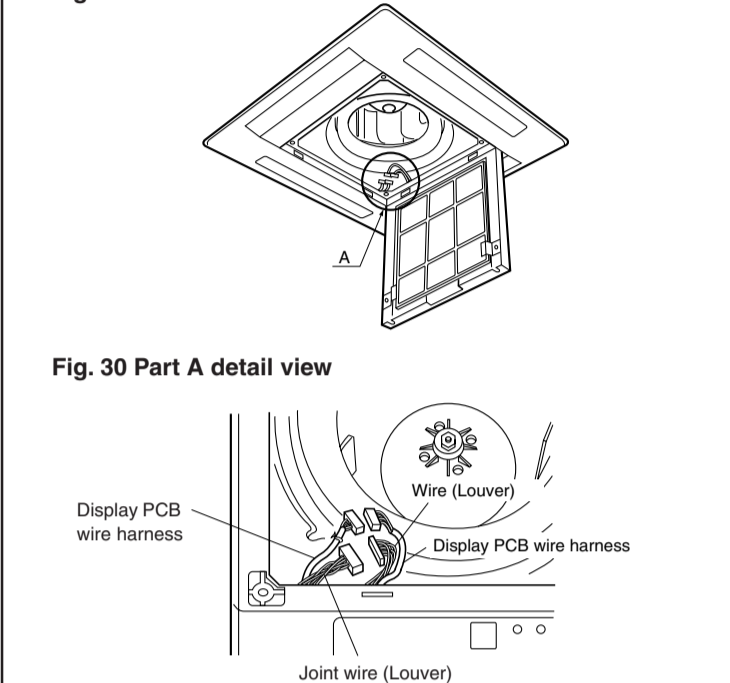
Fig. 28



Wireless unit connection wire wiring

Connect the connector in accordance part A detail view. Then clamp the lead wire with clamp so that it does not touch the rotating parts.

Fig. 29

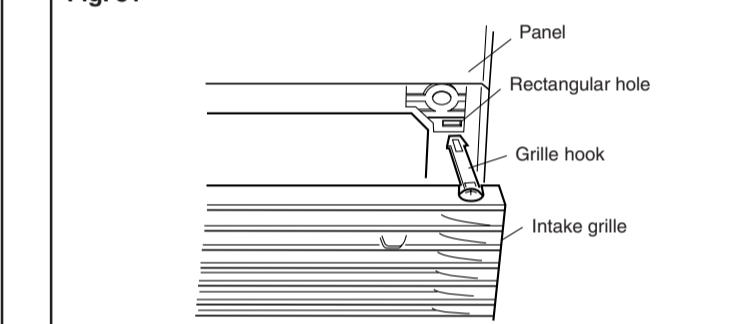


INSTALLING/REMOVING THE INTAKE GRILLE

1. Installing the intake grille

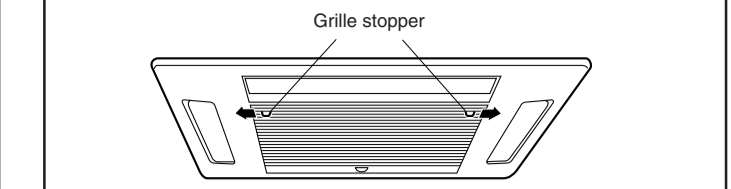
- Fully insert the intake grille hooks into the rectangular holes in the panel.

Fig. 31



- Close the intake grille, then slide the two grille stoppers outward.

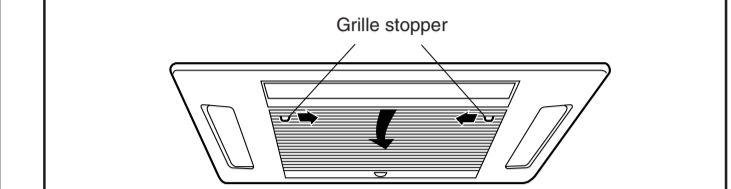
Fig. 32



2. Removing the intake grille

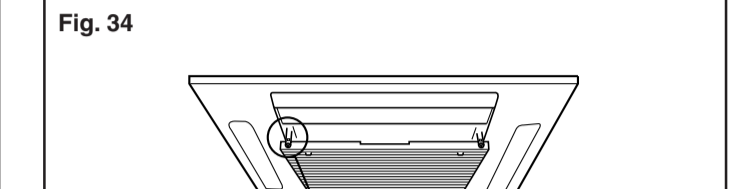
- Slide the two grille stoppers inward, then open the intake grille.

Fig. 33



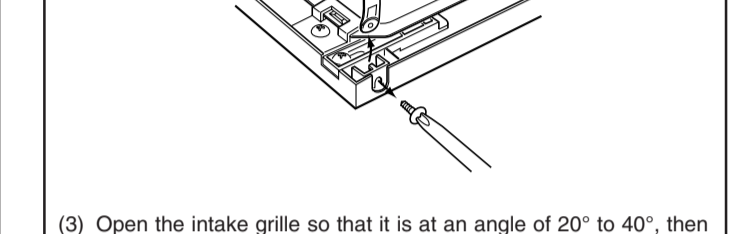
- Remove the grille hook screws, then open the intake grille.

Fig. 34



- Open the intake grille so that it is at an angle of 20° to 40°, then remove the grille.

Fig. 35



9 POWER

WARNING

- The rated voltage of this product is 230 V A.C. 50 Hz.
- Before turning on the verify that the voltage is within the 198 V to 264 V range.
- Always use a special branch circuit and install a special breaker to supply power to the room air conditioner.
- Use a circuit breaker matched to the capacity of the air conditioner. (Install in accordance with standard)
- The circuit breaker is installed in the permanent wiring. Always use a circuit that can trip all the poles of the wiring and has an isolation distance of at least 3 mm between the contacts of each pole.
- Perform wiring work in accordance with standards so that the room air conditioner can be operated safely and positively.
- Install a leakage circuit breaker in accordance with the related laws and regulations and electric company standards.

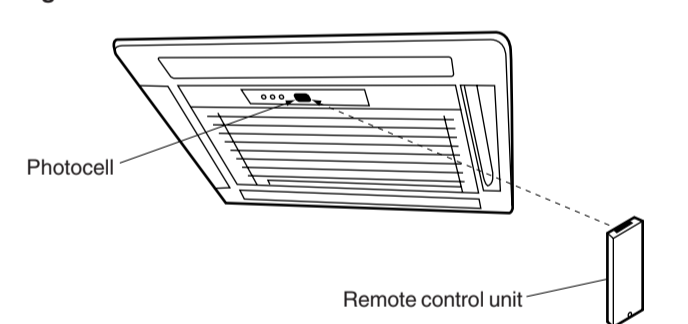
CAUTION

- The power source capacity must be the sum of the air conditioner current and the current of other electrical appliances. When the current contracted capacity is insufficient, change the contracted capacity.
- When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage raised.

10 REMOTE CONTROL UNIT INSTALLATION

- Install the remote control unit so that the front is facing the photocell. (Fig. 36)

Fig. 36



- Install the remote control unit with a distance of 5 m between the remote control unit and the grille photocell as the criteria. However, when installing the remote control unit, check that it operates positively.

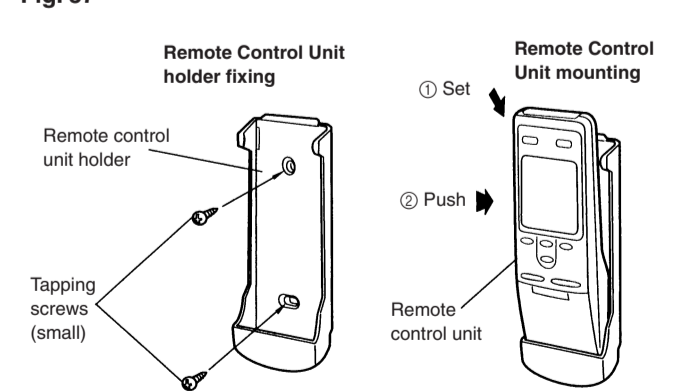
CAUTION

- 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 holder to a wall, pillar, etc. with the tapping screws.

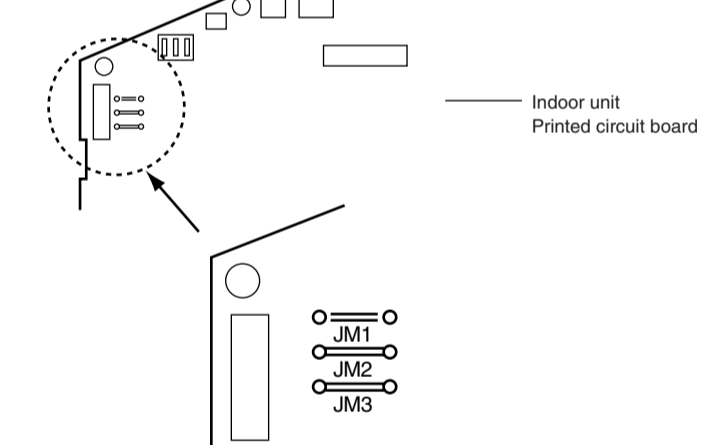
Fig. 37



2. SWITCHING REMOTE CONTROL UNIT SIGNAL CODES

- Air conditioner settings

Fig. 38



- Remote control unit settings

- Press the START/STOP button and display only the clock.

Fig. 39

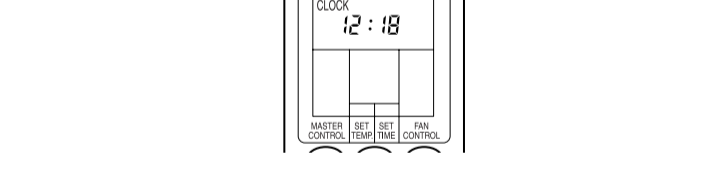
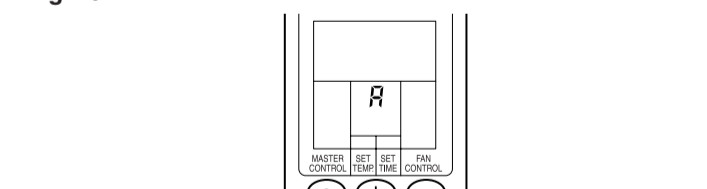
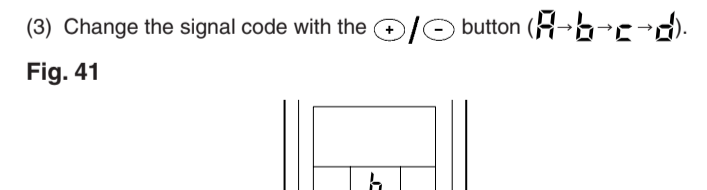


Fig. 40



- Change the signal code with the \odot/\odot button (R-b-c-d).

Fig. 41



- Press the MASTER CONTROL button again to return to the clock display and change the signal code.

Confirm the setting of the remote control unit signal code and the printed circuit board setting. If these are not confirmed, the remote control unit cannot be used to operate for the air conditioner.

Jumper wire		Remote control unit signal code
JM2	JM3	
Connect	Connect	A (Primary setting)
Connect	Disconnect	B
Disconnect	Connect	C
Disconnect	Disconnect	D

Table 8

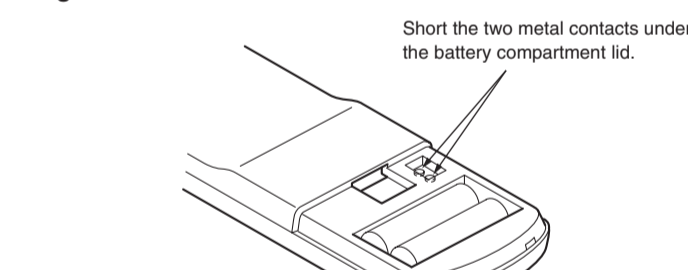
OPERATION lamp	TIMER lamp	SWING lamp	Error contents
Blinks	Blinks	Goes off	Model information abnormal (permanent type)
Pulses 4 times	Blinks	Goes off	Drain abnormal (permanent type)
Pulses 6 times	Blinks	Goes off	Indoor fan abnormal
Pulses 2 times	Blinks	Goes off	Room air temperature thermistor open circuit
	Blinks	Blinks	Room air temperature thermistor short circuit
Pulses 3 times	Blinks	Goes off	Piping thermistor open circuit
	Blinks	Blinks	Piping thermistor short circuit

Table 9

11 TEST RUNNING

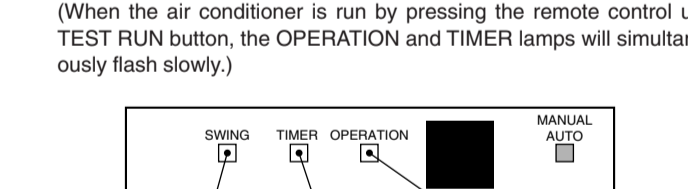
- Perform test operation and check items 1 and 2 below. For the operation method, refer to the operating manual.
- The outdoor unit may not run, depending on the room temperature. In this case, the "TEST RUN" signal is received during air conditioner operation (Use a metallic object to short the two metal contacts under the battery compartment lid and send the "TEST RUN" signal from the remote control unit).

Fig. 42



- To end test operation, press the remote control unit START/STOP button.

(When the air conditioner is run by pressing the remote control unit TEST RUN button, the OPERATION and TIMER lamps will simultaneously flash slowly.)



Operation can be checked by lighting and flashing of the grille display section OPERATION and TIMER lamps. Perform judgment 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 9) according to the error contents.

OPERATION lamp	TIMER lamp	SWING lamp	Error contents
Blinks	Blinks	Goes off	Model information abnormal (permanent type)
Pulses 4 times	Blinks	Goes off	Drain abnormal (permanent type)
Pulses 6 times	Blinks	Goes off	Indoor fan abnormal
Pulses 2 times	Blinks	Goes off	Room air temperature thermistor open circuit
	Blinks	Blinks	Room air temperature thermistor short circuit
Pulses 3 times	Blinks	Goes off	Piping thermistor open circuit
	Blinks	Blinks	Piping thermistor short circuit

Table 9

OPERATION lamp	TIMER lamp	SWING lamp	Error contents
Blinks	Blinks	Goes off	Model information abnormal (permanent type)
Pulses 4 times	Blinks	Goes off	Drain abnormal (permanent type)
Pulses 6 times	Blinks	Goes off	Indoor fan abnormal
Pulses 2 times	Blinks	Goes off	Room air temperature thermistor open circuit
	Blinks	Blinks	Room air temperature thermistor short circuit
Pulses 3 times	Blinks	Goes off	Piping thermistor open circuit
	Blinks	Blinks	Piping thermistor short circuit

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?

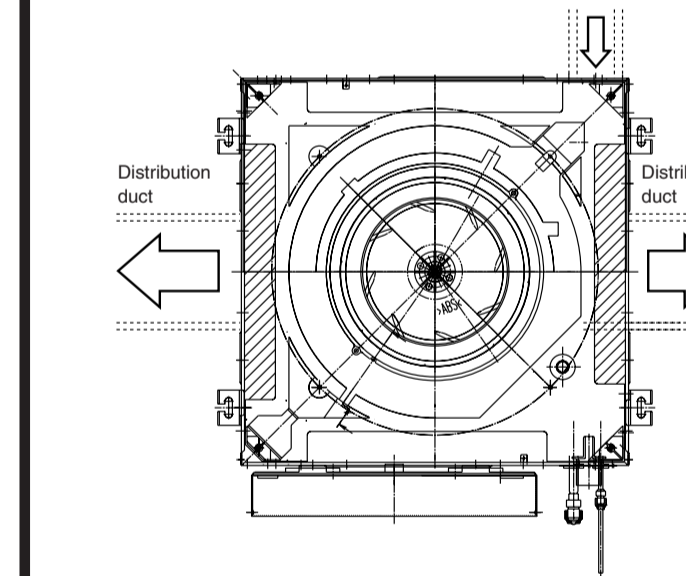
(2) OUTDOOR UNIT

- 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.

12 OPENING THE DUCT CONNECTION HOLE

Fig. 43



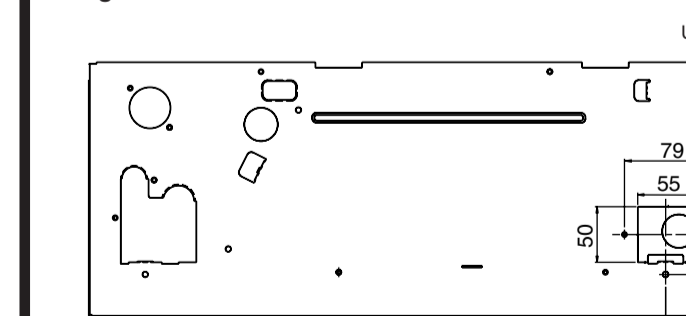
CAUTION

- When performing hole opening work, be careful not to damage the drain pan.
- When connecting the distribution duct, to make the air flow easily, block the outlet port with the blower cover insulation as shown by the hatched lines in fig. 43. For the blocking direction, refer to Fig. 26.

1. DIMENSION

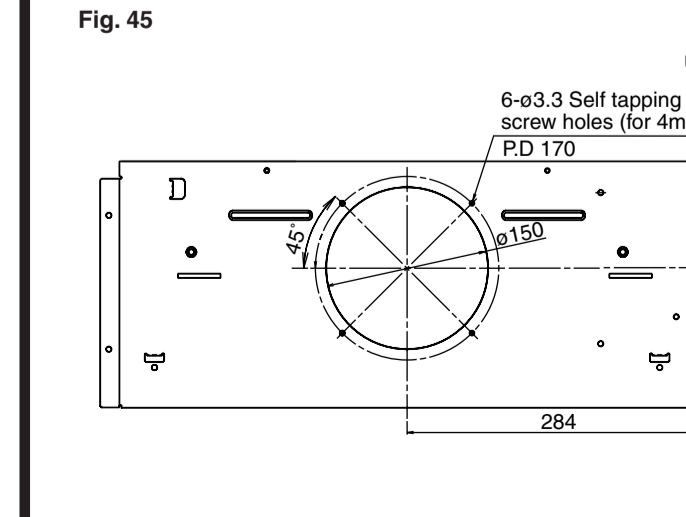
- Fresh air duct connection hole and screw positions.

Fig. 44



- Distribution duct connection hole and screw positions.

Fig. 45

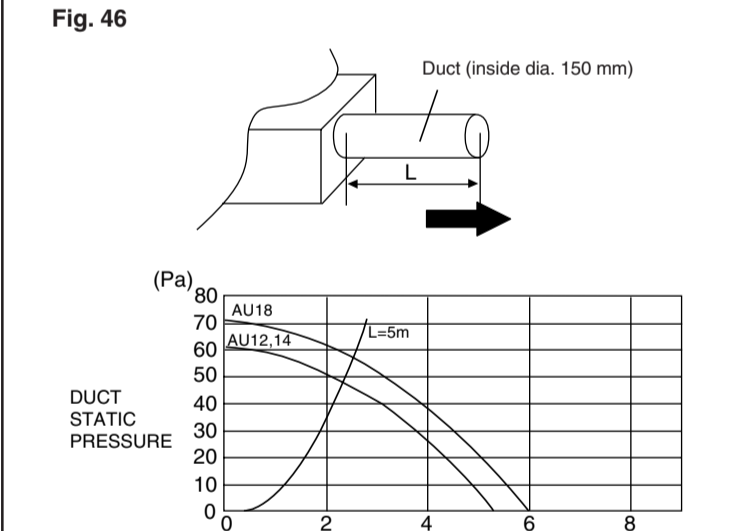


CAUTION

The air conditioner cannot take in fresh air by itself. When connecting a fresh air duct, always use a duct fan.

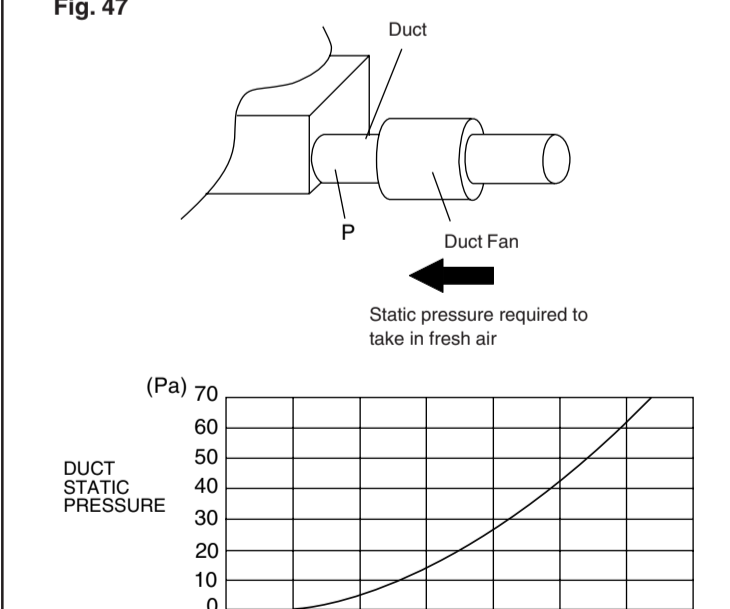
OUTLET AIR

Fig. 46



FRESH AIR

Fig. 47



13 INSTALLING THE OPTION PARTS (ADDITIONAL GRILLE)

THE ADDITIONAL GRILLE

- Mount the assembled additional grille to the indoor unit (grille) that has been removed from the main unit.
- Make sure all areas are properly installed the reinforcement plate.
- Mount 4 additional grilles. (Fig. 49)
- After confirming proper meshing of the additional grilles, secure them in place using the 6 screws provided.

Fig. 48

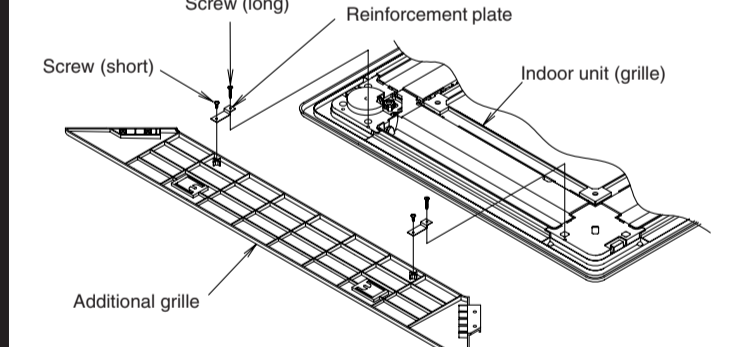
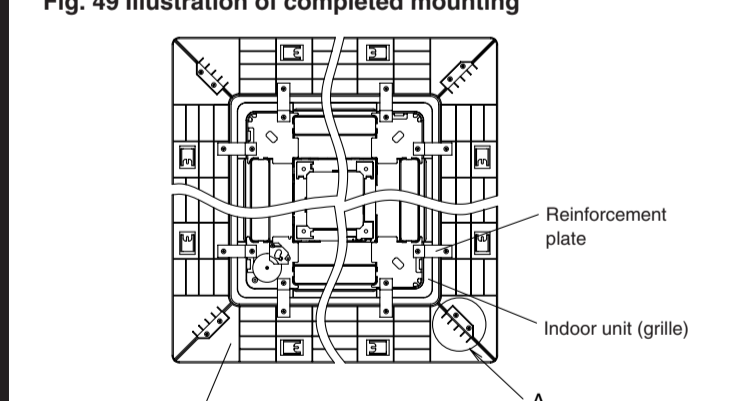
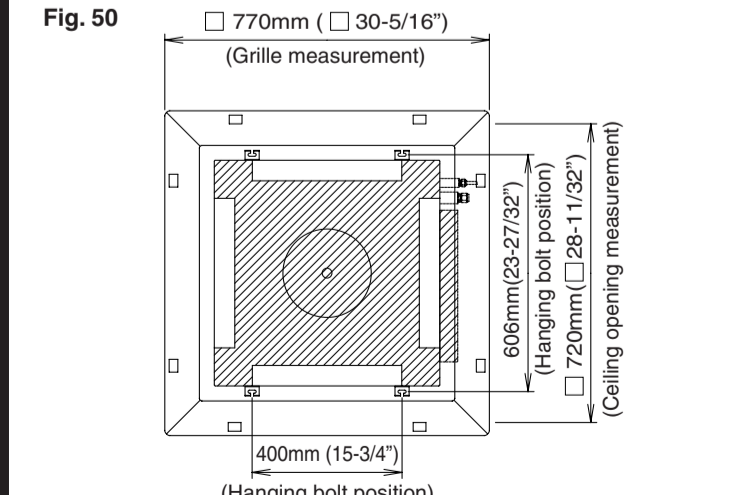


Fig. 49 Illustration of completed mounting



POSITION THE CEILING HOLE AND HANGING BOLTS

Fig. 50



CAUTION

When installing the additional grille, please refer to the installation instruction sheet supplied with the additional grille.