

# Refrigerant R410A SPLIT SYSTEM AIR CONDITIONER INSTALLATION INSTRUCTION SHEET

(PART NO. 935992007)

**WARNING** This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.

**CAUTION** This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

**This air conditioner uses new refrigerant HFC (R410A).**

- The basic installation work procedures are the same as conventional refrigerant (R22) models. However, pay careful attention to the following points:
- Check the working pressure is 1.5 times higher than that of conventional refrigerant (R22) models, some of the piping and installation and service tools are special. (See the table below.) Especially, when replacing a conventional refrigerant (R22) model with a new refrigerant R410A model, always replace the conventional piping and flare nuts with the R410A piping and flare nuts.
  - Models that use refrigerant R410A have a different charging port thread diameter to prevent erroneous charging with conventional refrigerant (R22) and for safety. Therefore, check beforehand. (The charging port thread diameter for R410A is 1/2 UNF 20 threads per inch.)
  - Be more careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant (R22) models. Also, when starting the piping, securely seal the openings by pinching, taping, etc.
  - When charging the refrigerant, take into account the slight change in the composition of the gas and liquid phases, and always charge from the liquid phase side whose composition is stable.

**Special tools for R410A**

Tool name	Comments or usage
Charge manifold	Pressure is high and cannot be measured with a conventional gauge. To prevent erroneous reading of other equipment, the diameter of each hose has been changed.
Charge hose	1.5 to 3 MPa (1.5 to 30 kg/cm <sup>2</sup> ) rating is 5.5 kg/cm <sup>2</sup> or higher pressure.
Charge pipe	A 4mm diameter charge pipe can be used by attaching a 4mm diameter adapter.
Charge adapter	4mm diameter adapter for the charge manifold.

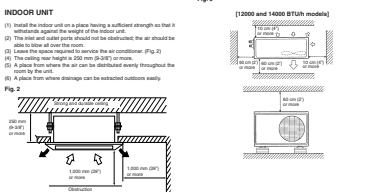
**Table 1 Thickness of Annealed Copper Pipes**

Refrigerant	Refrigerant (psi)	Refrigerant (bar)	R410A	(psi) R22
Copper pipe	150	1.0	0.80	0.80
	300	2.0	0.80	0.80
Copper pipe	150	1.0	0.80	0.80
	300	2.0	0.80	0.80

- For authorized service personnel only.
- WARNING**
- For the air conditioner to operate satisfactorily, install it as outlined in this installation instruction sheet.
  - Connect the indoor unit and outdoor unit with the air conditioner piping and cords available from our standards parts. This installation instruction sheet describes the correct connections using the installation set available from our standards parts.
  - Installation work must be performed in accordance with national standards or authorized personnel only.
  - Do not work on the power unit at all installation work.
    - After installation, explain correct operation to the customer, using the operating manual.
    - Let the customer keep this installation instruction sheet because it is used when the air conditioner is serviced or moved.

## SELECTING THE MOUNTING POSITION

- Especially, the installation place is very important for the unit type as compared to conventional air conditioning units. Therefore, check the following points before the installation work.
- INDOOR UNIT**
- Install the indoor unit on a place having sufficient strength so that it will not vibrate or sag.
  - The inlet and outlet ports should not be obstructed. The air should be able to flow smoothly.
  - The ceiling height is 2.0 m (6'6") or more.
  - A place from where the drain can be discharged smoothly through the drain pipe to the outdoors.
  - A place from where drainage can be discharged smoothly.



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## STANDARD PARTS

The following installation parts are standard. Check them as required.

**INDOOR UNIT ACCESSORIES**

Name and Shape	Qty	Application
Copper heat insulation	2	For indoor unit pipe joint
Special nut (1/2 inch)	4	For mounting indoor unit
Special nut (3/8 inch)	4	For mounting indoor unit
Template	1	For cutting hole cutting
Removal cover (1/2 inch)	1	Use for air conditioner operation
Battery (battery)	2	For remote control unit
Removal cover (holder)	1	For mounting the remote control unit
Removing cover (1/2 inch)	2	For remote control unit holder installation

## OUTDOOR UNIT ACCESSORIES

Name and Shape	Qty	Application
Clean pipe	1	For outdoor unit drain piping (Heat & Cool mode (Reverse cycle) only)
Clean pipe (1/2 inch and 3/8 inch)	2	Heat & Cool mode (Reverse cycle) only
Clean pipe (1/2 inch)	1	Heat & Cool mode (Reverse cycle) only

## GRILLE ACCESSORIES

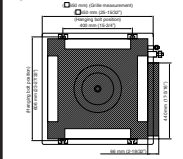
Name and Shape	Qty	Application
Screw	4	For mounting pipe
Washer	4	For mounting pipe
Spring washer	4	For mounting pipe
Blower cover (cover)	2	For discharged air

## INSTALLATION PROCEDURE

Install an indoor or outdoor as follows:

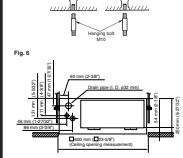
### 1. INDOOR UNIT INSTALLATION

- Position the ceiling hole and hanging bolts as shown in Fig. 4.



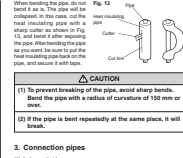
### 2. Hanging preparation

- Firmly fasten the hanging bolts as shown in Fig. 5 for another method.



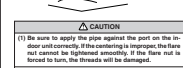
### 3. Body installation

- Install special nut A from special nut B onto the hanging bolt (Fig. 7).
- Place the body and mount to make sure the hanging bolt is locked.
- Turn special nut B to adjust the height of the body (Fig. 7).
- Using a level or string from fixed with water, adjust so that the body is level.
- Turn special nut B to adjust the height of the body (Fig. 7).
- Using a level or string from fixed with water, adjust so that the body is level.



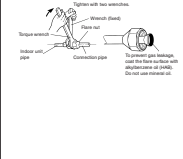
### 4. Connecting the piping

- When handling the pipe, do not bend it so as to be damaged. The pipe will be collapsed in this case, and the pipe cannot be used.
- Do not use the existing R22 piping and flare nuts. If the existing materials are used, this pressure inside the refrigerant cycle will rise and cause leakage, injury, etc. (See the special R410A manuals.)
- Do not use mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the lifetime of the unit.
- When welding the pipes, be sure to blow dry nitrogen gas through them.
- The maximum lengths of this product are shown in table 2. If the units are further apart than this, correct operation will not be guaranteed.



### 5. VACUUM PROCESS

- Do not purge the air with refrigerant. Just use a vacuum pump to vacuum the installation. There is no extra charge for purging the air with refrigerant.
- Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.



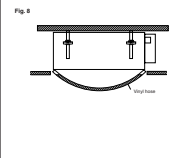
### 2. INSTALLING DRAIN PIPE

- Note: Install the drain pipe.**
- Install the drain pipe with downward gradient (1/50 to 1/100) and so from side to side or right to left in the pipe.
  - Use long (green) heat-insulated (VPI) (insulation diameter 12 mm (1/2 inch) and covered it with soft foam (polyurethane) or other material so as not to sag.
  - When the pipe is long, install support.
  - Always heat insulate the indoor side of the drain pipe.
  - When discharging a high-temperature liquid (up to 40°C (104°F)) or less from the cooling water of a range of 100 mm (3.9 inch) from the body, A (the observation over the range of 100 mm) from the body, A.



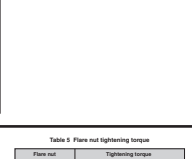
### 3. OUTDOOR UNIT INSTALLATION

- Set the unit on a strong stand, such as one made of concrete blocks to maintain steady installation.
- Do not set the unit directly on the ground because it will cause trouble.
- Place the unit on a level ground. If the outdoor unit is on a sloping ground, install the stand and connect it to an extension 1.6 m (5'3") high.
- When installing the stand, place it at the table 1.6 m (5'3") or more from the ground. (The stand height is 1.6 m (5'3") or more.)
- When installing the stand, place it at the table 1.6 m (5'3") or more from the ground. (The stand height is 1.6 m (5'3") or more.)



### 4. CONNECTING THE PIPING

- When moving and installing the air conditioner, do not mix gas other than the specified refrigerant (R410A) inside the refrigerant cycle.
- When charging the refrigerant R410A, always use an electronic balance for refrigerant charging to measure the refrigerant by weight.
- When charging the refrigerant, take into account the slight change in the composition of the gas and liquid phases, and always charge from the liquid phase side whose composition is stable.
- Add refrigerant from the charging valve after the completion of the work.
- If the units are further apart than the maximum pipe length, correct operation can not be guaranteed.

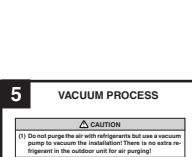


### 5. GAS LEAKAGE INSPECTION

- After connecting the piping, check the joints for gas leakage with gas leak detector.

### 6. INSTALLING THE COUPLER HEAT INSULATION

- After charging for gas leaks, install by wrapping insulation around the two pipe joints (large and small) and the indoor and outdoor unit heat insulation.
- CAUTION** Must fit tightly against pipe without any gaps.



### 7. ADDITIONAL CHARGE

- Refrigerant suitable for a piping length of 7.5 m is charged in the outdoor unit at factory.
- When the piping is longer than 7.5 m, additional charging is necessary. For the additional amount, see the table below.

**Table 7**

Additional piping length (m)	1.5	3.0	4.5	6.0	7.5
13000 and 14000 BTUH models	25 g	50 g	75 g	100 g	125 g
18000 BTUH model	None	25 g	50 g	75 g	100 g

### 8. ELECTRICAL REQUIREMENT

- Electric wire size and fuse capacity.

**Table 8**

Model	13000 and 14000 BTUH models	18000 BTUH model
Power supply voltage (V)	220	220
Current (A)	2.5	2.5
Wiring capacity (A)	1.5	1.5
Fuse capacity (A)	1.5	2.0

### 9. REMARKS

- Always use R410A for replacement to the connection cord.
- Install the circuit breaker nearby the cable. (Main indoor unit and outdoor unit)

### 10. NOTES

- When handling the pipe, do not bend it so as to be damaged. The pipe will be collapsed in this case, and the pipe cannot be used.
- Do not use the existing R22 piping and flare nuts. If the existing materials are used, this pressure inside the refrigerant cycle will rise and cause leakage, injury, etc. (See the special R410A manuals.)
- Do not use mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the lifetime of the unit.
- When welding the pipes, be sure to blow dry nitrogen gas through them.
- The maximum lengths of this product are shown in table 2. If the units are further apart than this, correct operation will not be guaranteed.

### 11. TABLES

#### Table 2 Pipe outside diameter

Pipe outside diameter	1/2 inch	3/8 inch
Refrigerant	15.88 (0.625)	15.88 (0.625)
Drain	15.88 (0.625)	15.88 (0.625)
Gas	15.88 (0.625)	15.88 (0.625)
Condenser	15.88 (0.625)	15.88 (0.625)
Evaporator	15.88 (0.625)	15.88 (0.625)

#### Table 3 Flare nut tightening torque

Flare nut	Tightening torque
6.35 mm (1/4 inch)	14 to 18 N·m (1.05 to 1.35 kgf·cm)
9.52 mm (3/8 inch)	20 to 25 N·m (1.50 to 1.80 kgf·cm)
12.70 mm (1/2 inch)	30 to 35 N·m (2.25 to 2.60 kgf·cm)

#### Table 4 Connection pipe requirements

Indoor unit side	Outdoor unit side
Maximum length	20 (65.6)
Minimum length	20 (65.6)
Maximum height	20 (65.6)
Minimum height	20 (65.6)

#### Table 5 Flare nut tightening torque

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9.52 mm (3/8 inch)	20 to 25 N·m (1.50 to 1.80 kgf·cm)
12.70 mm (1/2 inch)	30 to 35 N·m (2.25 to 2.60 kgf·cm)

#### Table 6 Vacuum process

Bank size (2-way valve)	Tightening torque
20 to 25 mm (0.787 to 0.984 inch)	20 to 25 N·m (1.50 to 1.80 kgf·cm)
25 to 30 mm (0.984 to 1.181 inch)	25 to 30 N·m (1.80 to 2.20 kgf·cm)
30 to 35 mm (1.181 to 1.378 inch)	30 to 35 N·m (2.20 to 2.60 kgf·cm)
35 to 40 mm (1.378 to 1.575 inch)	35 to 40 N·m (2.60 to 2.90 kgf·cm)

#### Table 7 Refrigerant suitable for a piping length of 7.5 m

Additional piping length (m)	1.5	3.0	4.5	6.0	7.5
13000 and 14000 BTUH models	25 g	50 g	75 g	100 g	125 g
18000 BTUH model	None	25 g	50 g	75 g	100 g

#### Table 8 Electrical requirement

Model	13000 and 14000 BTUH models	18000 BTUH model
Power supply voltage (V)	220	220
Current (A)	2.5	2.5
Wiring capacity (A)	1.5	1.5
Fuse capacity (A)	1.5	2.0

#### Table 9 Remarks

- Always use R410A for replacement to the connection cord.
- Install the circuit breaker nearby the cable. (Main indoor unit and outdoor unit)

#### Table 10 Notes

- When handling the pipe, do not bend it so as to be damaged. The pipe will be collapsed in this case, and the pipe cannot be used.
- Do not use the existing R22 piping and flare nuts. If the existing materials are used, this pressure inside the refrigerant cycle will rise and cause leakage, injury, etc. (See the special R410A manuals.)
- Do not use mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the lifetime of the unit.
- When welding the pipes, be sure to blow dry nitrogen gas through them.
- The maximum lengths of this product are shown in table 2. If the units are further apart than this, correct operation will not be guaranteed.

# 7 ELECTRICAL WIRING

## HOW TO CONNECT WIRING TO THE TERMINALS

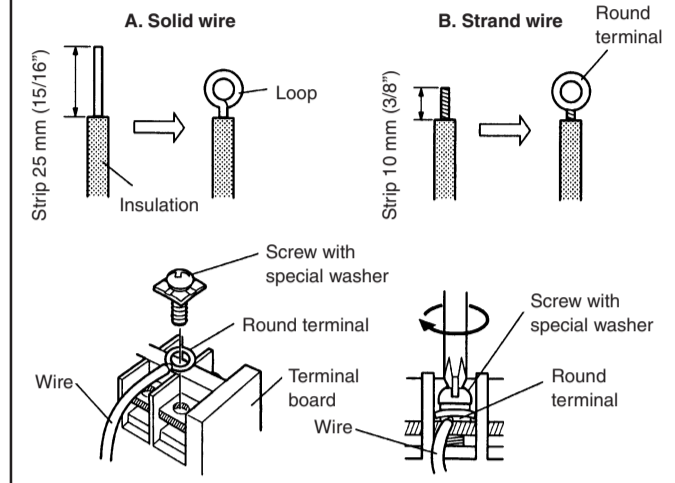
### A. For solid core wiring (or F-cable)

- 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

#### WARNING

- Before starting work, check that power is not being supplied to indoor unit and the outdoor unit.
- Match the terminal board numbers and connection cord colors with those of the outdoor unit. Erroneous wiring may cause burning of the electric parts.
- Connect the connection cords firmly to the terminal board. 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.

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

Fig. 20

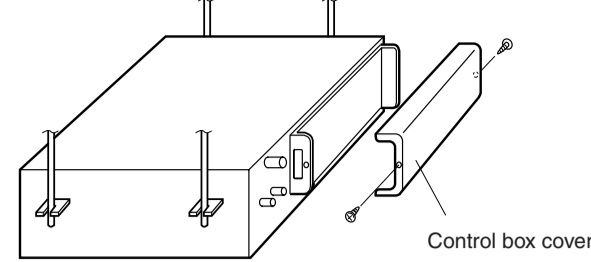
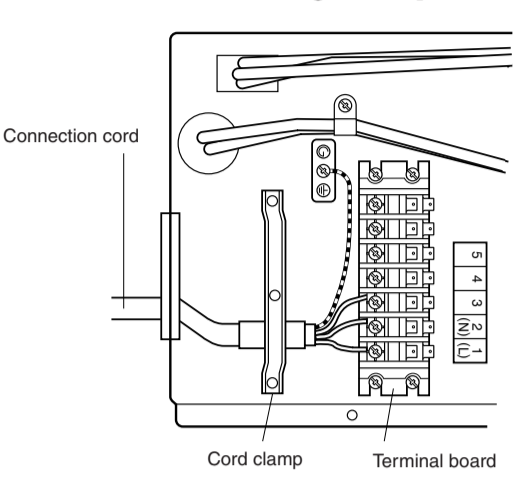
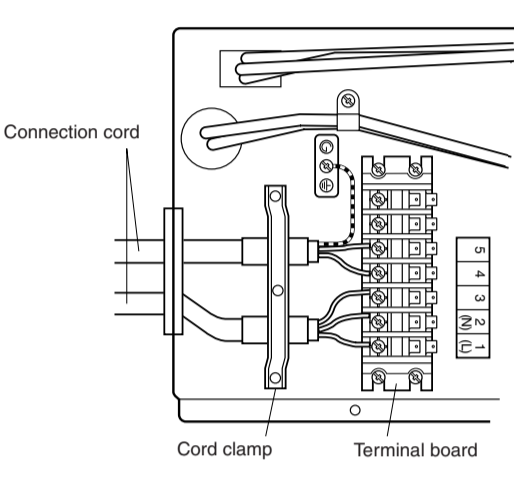


Fig. 21

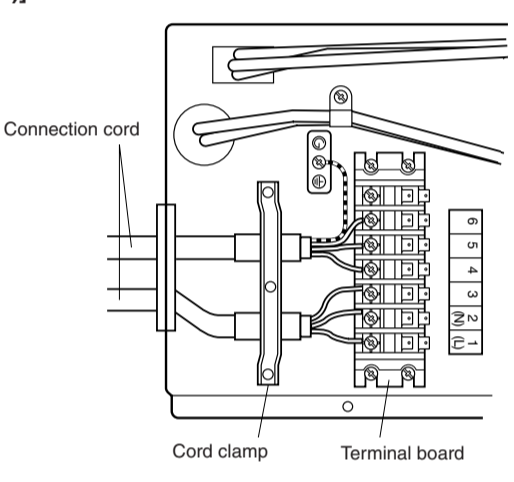
[12000 and 14000 BTU/h Cooling models]



[18000 BTU/h Cooling model]



[12000, 14000 and 18000 BTU/h Heat & Cool models (Reverse cycle)]

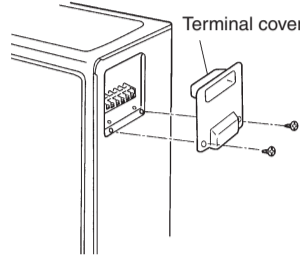


### 2. Outdoor unit side

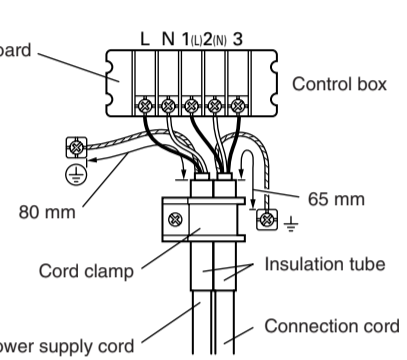
#### WARNING

- Before starting work, check that power is not being supplied to the indoor unit and 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 supply cord firmly to the terminal board. Imperfect installation may cause a fire.
- Always fasten the outside covering of the connection cord and the power supply cord with cord clamps. (If the insulator is chafed, electric leakage may occur.)
- Always connect the ground wire.

Fig. 22



[12000 and 14000 BTU/h Cooling models]



[12000 and 14000 BTU/h Heat & Cool models (Reverse cycle)]

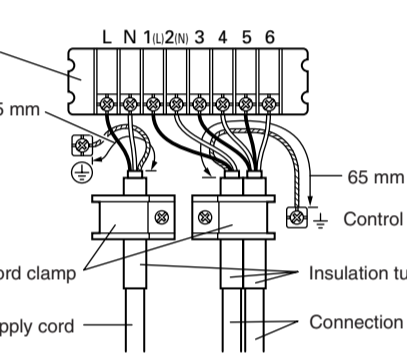
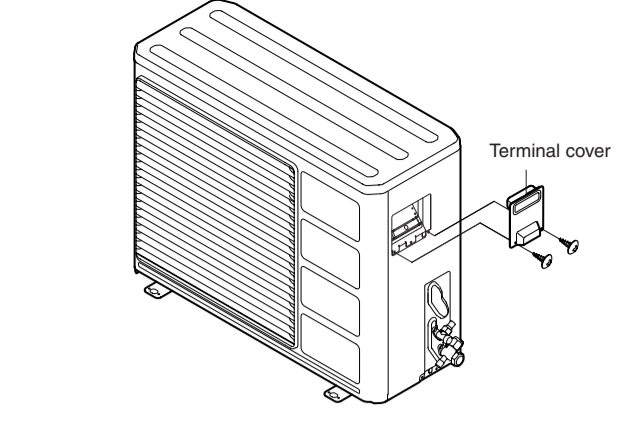
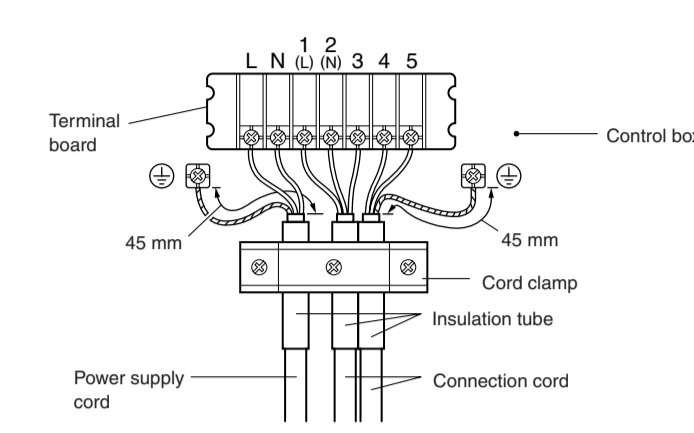


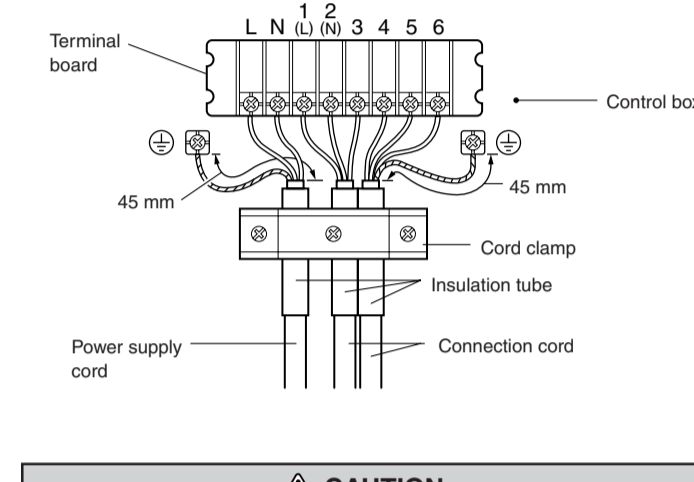
Fig. 23



[18000 BTU/h Cooling model]



[18000 BTU/h Heat & Cool model (Reverse cycle)]



#### CAUTION

When routing the ground wires, leave slack as shown in the illustrations.

Fig. 24

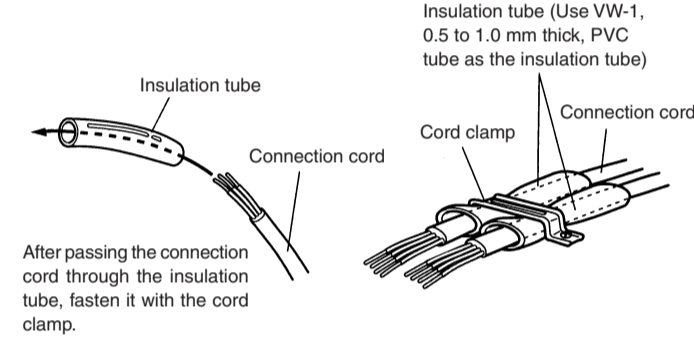
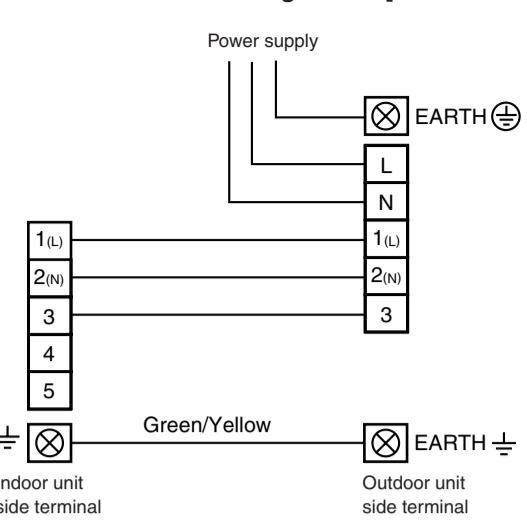
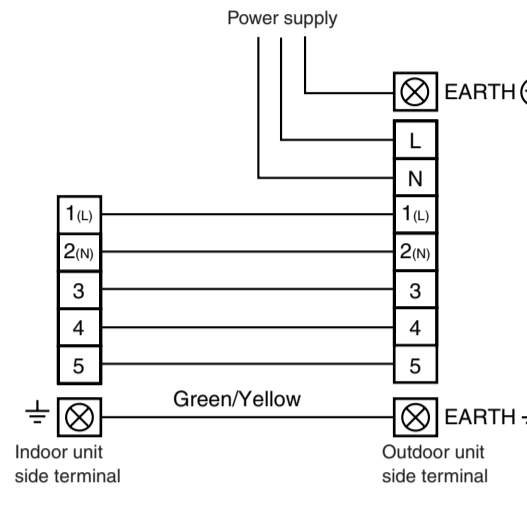


Fig. 25

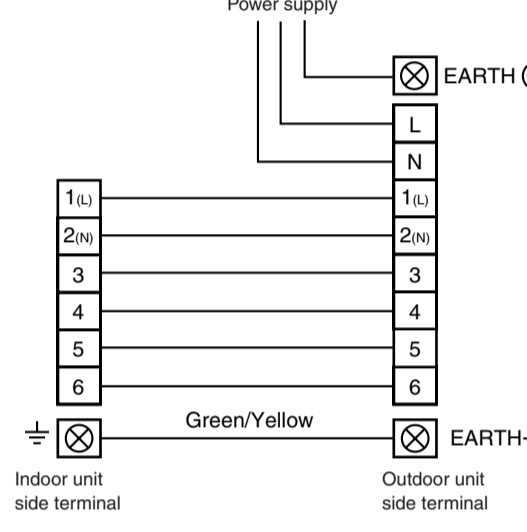
[12000 and 14000 BTU/h Cooling models]



[18000 BTU/h Cooling model]



[12000, 14000 and 18000 BTU/h Heat & Cool models (Reverse cycle)]

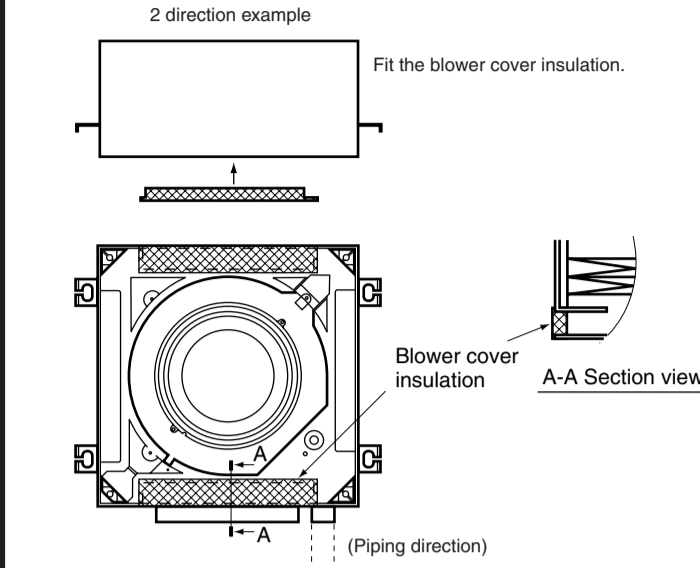


# 8 GRILLE INSTALLATION

### 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.

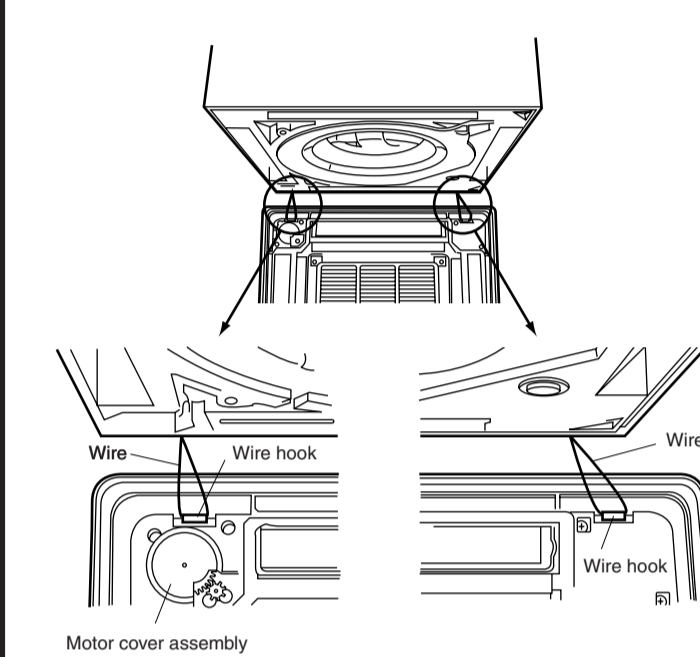
Fig. 26



### 2. Installing grille assembly to body

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

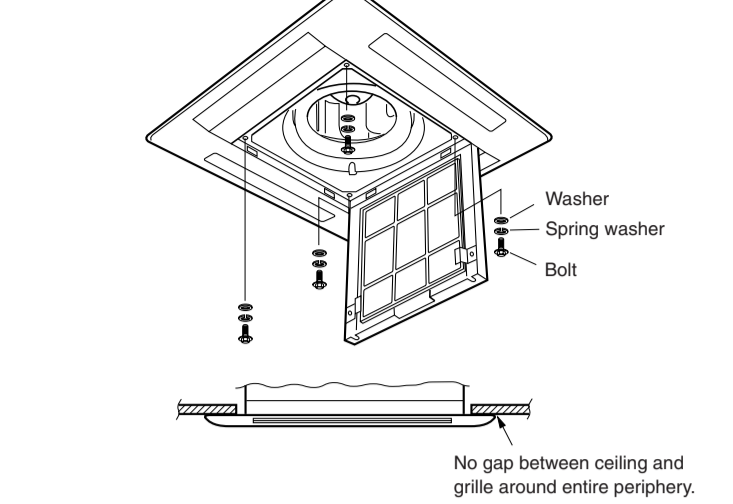
Fig. 27



### Bolting the grille assembly to the body

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

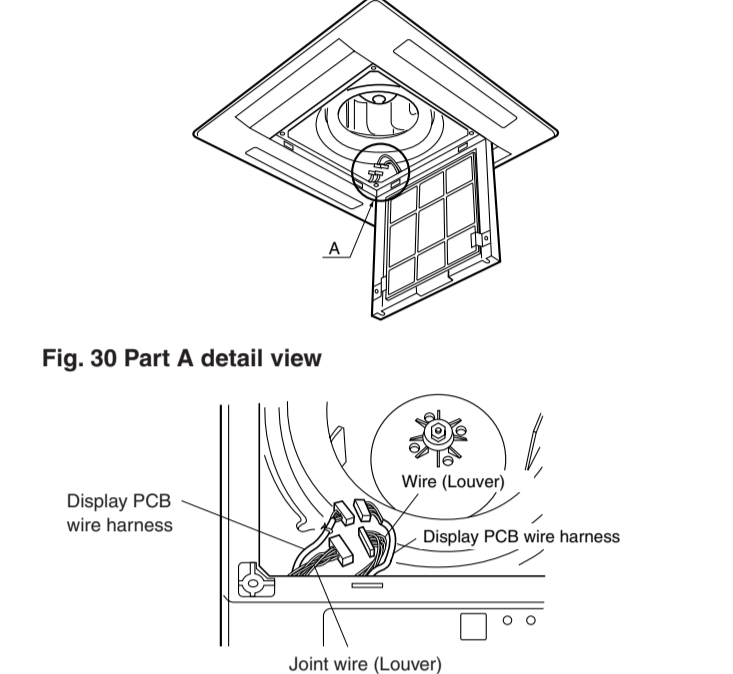
Fig. 28



### Wireless unit connection wire wiring

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

Fig. 29

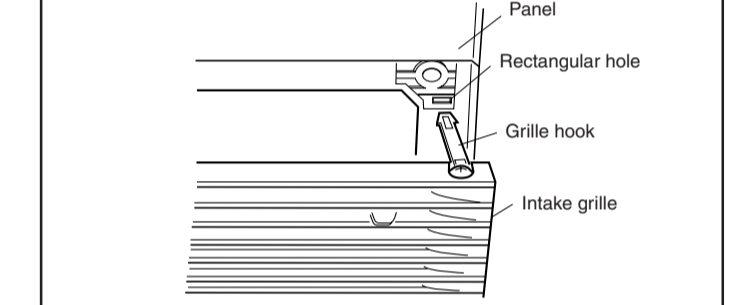


### INSTALLING/REMOVING THE INTAKE GRILLE

#### 1. Installing the intake grille

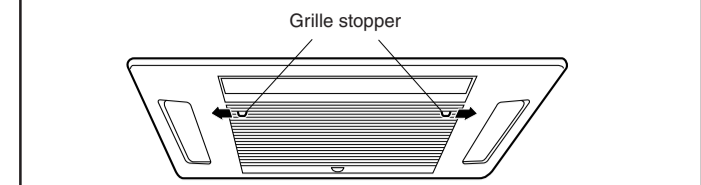
- Fully insert the intake grille hooks into the rectangular holes in the panel.

Fig. 31



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

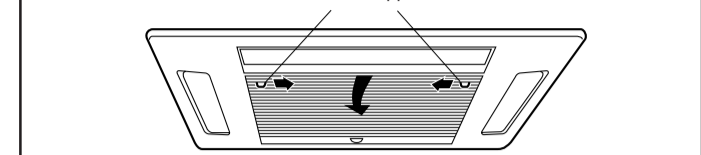
Fig. 32



#### 2. Removing the intake grille

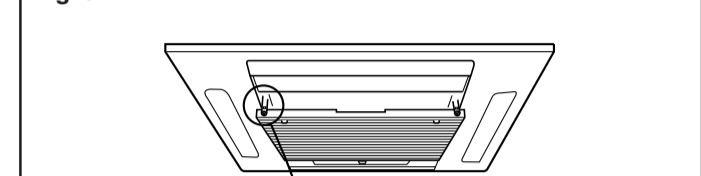
- Slide the two grille stoppers inward, then open the intake grille.

Fig. 33



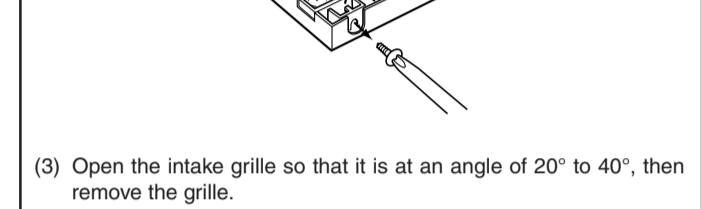
- Remove the grille hook screws, then open the intake grille.

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 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 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.

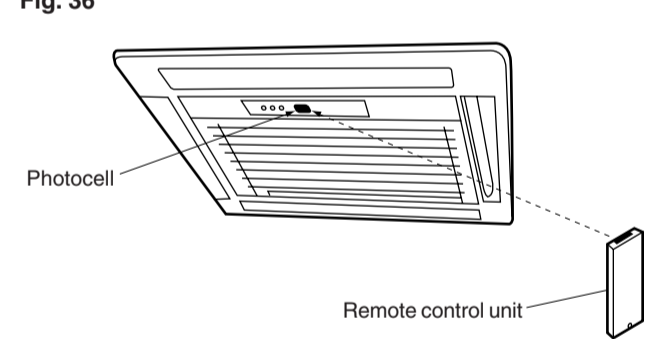
#### CAUTION

- 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.
- This air conditioner must be connected to a power source that has an electrical impedance of 0.25 Ω or less or has a supply current of 100 A or greater. If the power supply does not meet the specifications, contact the power company.

# 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.

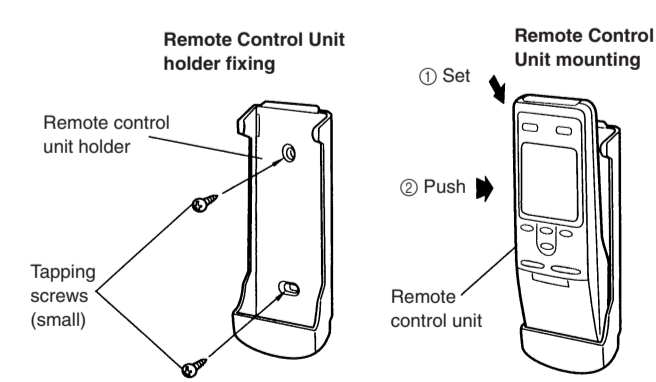
#### CAUTION

- 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.

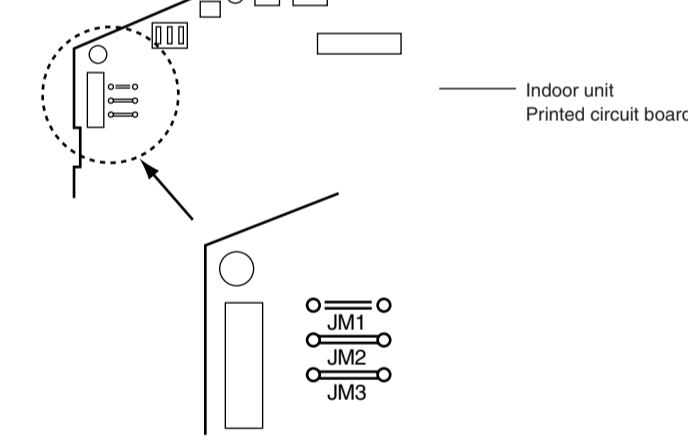
Fig. 37



### 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

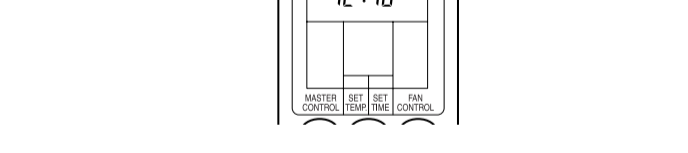
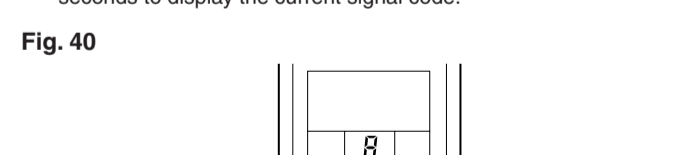


Fig. 40



- Change the signal code with the (R) 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.

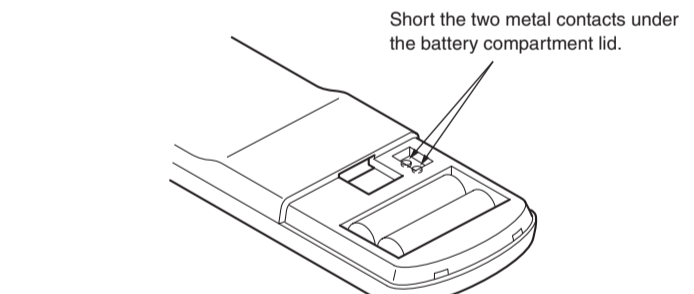
Table 8

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

# 11 TEST RUNNING

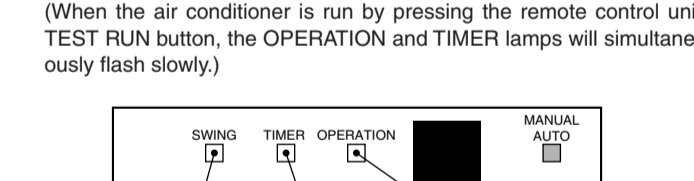
- Perform test operation and check items 1 and 2 below. For the operation method, refer to the operating manual.
- The outdoor unit may not run, depending on the room temperature. In this case, the "TEST RUN" signal is received during air conditioner operation (Use a metallic object to short the two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



- 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.

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?

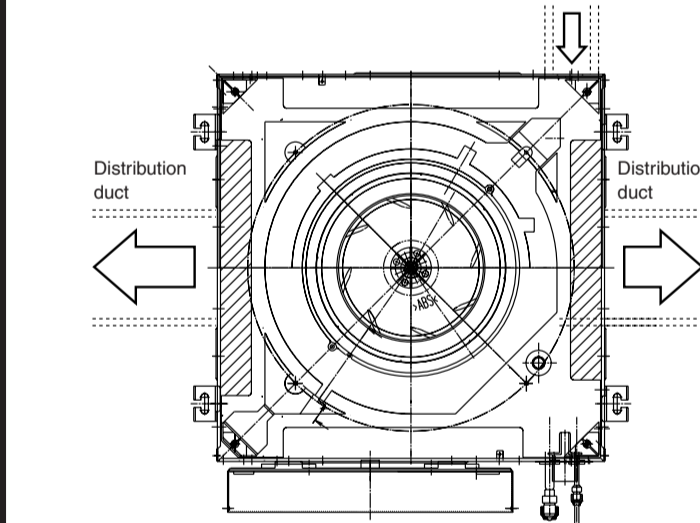
#### (2) OUTDOOR UNIT

- 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

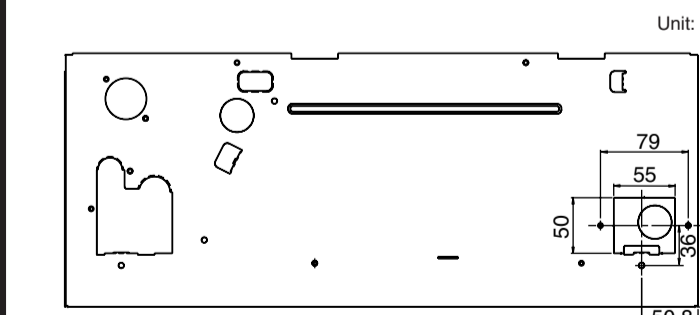
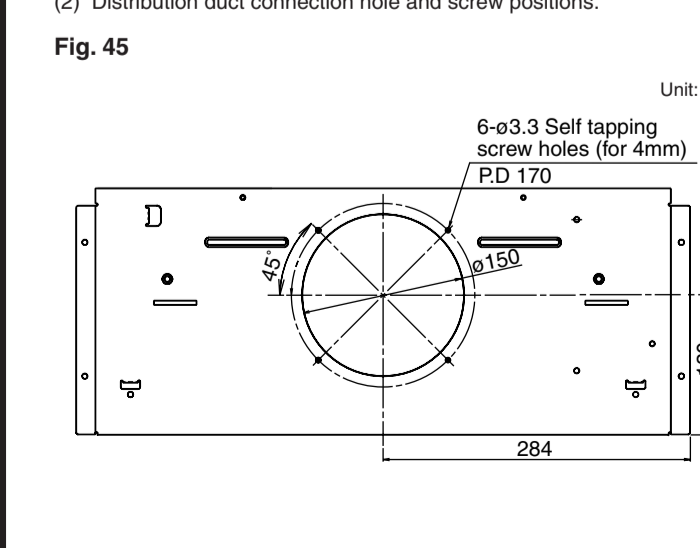


Fig. 45

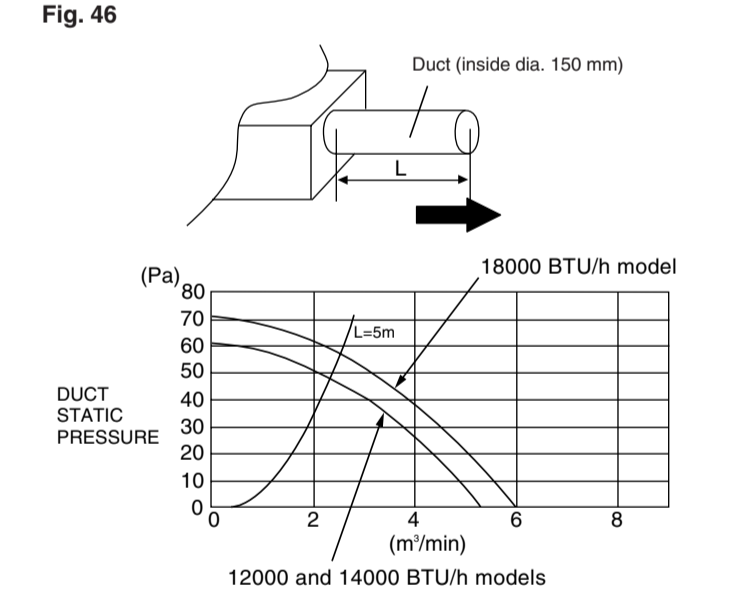


#### CAUTION

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

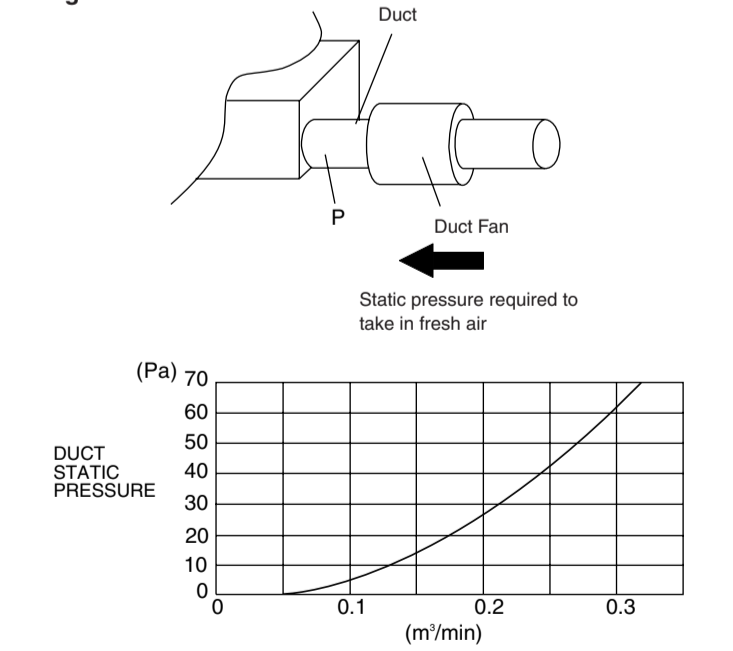
### OUTLET AIR

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 8 screws provided.

Fig. 48

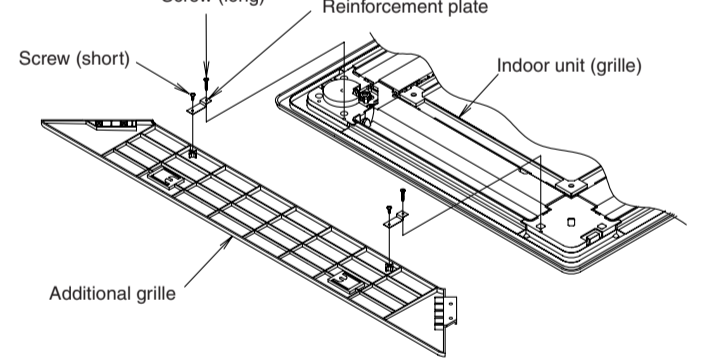
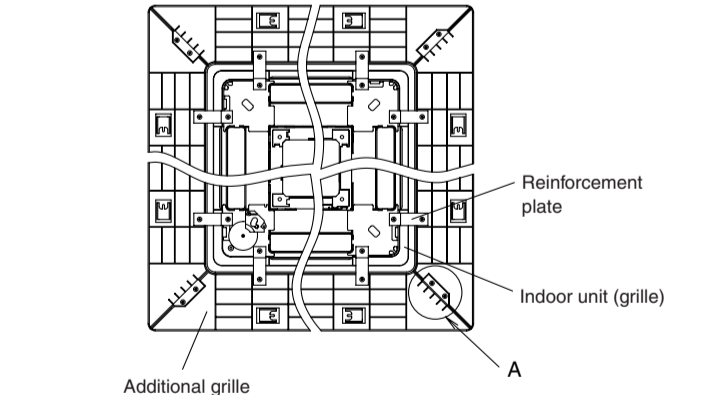
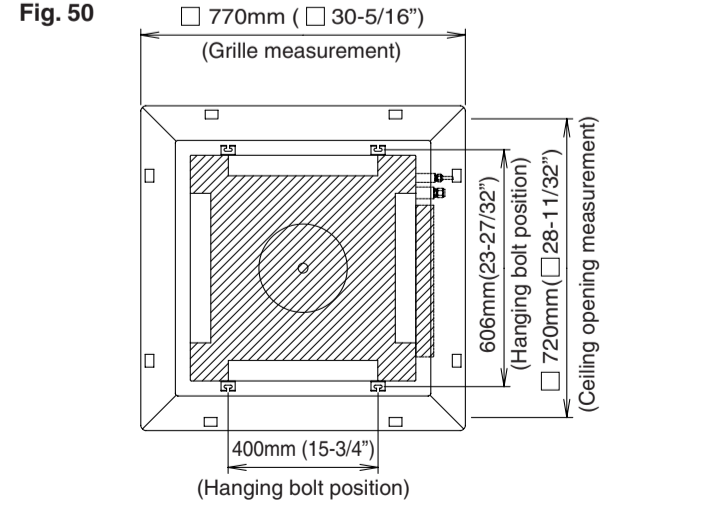


Fig. 49 Illustration of completed mounting



### 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.