

# SPLIT TYPE AIR CONDITIONER Cassette Type INSTALLATION INSTRUCTION SHEET (PART NO. 9365388020)

For authorized service personnel only.

- 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.

- 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 room air conditioner piping and cords available from our standard parts. This installation instruction sheet describes the correct connections using the installation set available from our standard parts.
  - Installation work must be performed in accordance with national wiring standards by authorized personnel only.
  - If refrigerant leaks while work is being carried out, ventilate the area. If the refrigerant comes in contact with a flame, it produces a toxic gas.
  - Do not turn on the power until all installation work is complete.
- Be careful not to scratch the air conditioner when handling it.
- 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.
- The maximum length of the piping is shown in Table 1. If the units are further apart than this, correct operation cannot be guaranteed.

## STANDARD PARTS

The following table shows the standard parts. Use them as required.

### INDOOR UNIT ACCESSORIES

Name and Shape	Qty	Application
Coupler base installation	2	For indoor side pipe joint
Remote controller cord clamp	10	For installing the remote controller cord
Screw	10	For installing the remote controller cord clamp
Special nut A (large flange)	4	For installing indoor unit
Special nut B (small flange)	4	For installing indoor unit
Remote controller	1	Installation in indoor unit
Template	1	For marking base cutting
Binder	2	For remote controller cord binding
Blower cover installation	2	For remote controller and blower cover cord binding
Hook wire	2	For installing intake grille

### OUTDOOR UNIT ACCESSORIES

Hexagon wrench	1	For opening the refrigerant valve on the outdoor unit
Drain pipe	1	For outdoor unit drain piping work (flexible pipe, model only)
Drain cap	2	

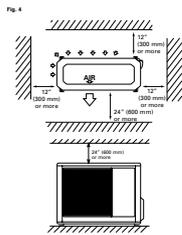
## SELECTING THE MOUNTING POSITION

Caution: The installation place is very important for the split type air conditioner because it is very difficult to move from place to place after the installation.

Decide the mounting position together with the customer as follows: The discharge direction can be selected as shown below.



- Do not install the unit where it will be exposed to direct sunlight. If necessary, install a blind that does not interfere with the air flow.
- Install the outdoor unit in a place where it will be free from being open or getting wet by rain as much as possible.
- When the unit is installed in a place where the drain water flows, install the outdoor unit in a place where the drain water flow will be obstructed.
- Do not place animals and plants in the path of the warm air.
- Take the air conditioner weight into account and select a place where the installation is easy.
- During heating operation, drain water flows from the outdoor unit. Therefore, install the outdoor unit in a place where the drain water flow will be obstructed.
- Select a place so that the warm air and noise from the air conditioner do not disturb neighbors.
- Provide the space shown in Fig. 4 so that the air flow is not blocked. Also, do not get the unit directly on the ground because it will cause trouble.
- Set the unit on a strong stand, such as one made of concrete blocks to minimize shock and vibration.



## CONNECTION PIPE REQUIREMENT

Standard	Maximum length	Maximum height between indoor and outdoor
Small	33' 0"	52.8' (16.1 m)
Large	52' 8"	52.8' (16.1 m)

- Use 1/2 inch to 1.2 mm thick pipe.
- Use pipe with water resistant heat insulation.
- Use pipe that can withstand a pressure of 2.52 MPa.

## ELECTRICAL REQUIREMENT

Power supply	VOLTS	AMPS
Phase	220V	4.0
Neutral	220V	3.2
Common	220V	2.2
Ground	220V	1.2

Fuse/Breaker capacity (A): 20

- Always use HCFRNU or equivalent to the connection cord.
- Install the disconnect device with a contact gap of at least 3 mm nearby the units (both indoor unit and outdoor unit).

## INSTALLATION PROCEDURE

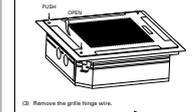
Installation of the air conditioner as follows.

### 1. INDOOR UNIT INSTALLATION

- WARNING:**
  - Install the air conditioner in a location which can withstand a load of at least five times the weight of the main unit and which will not undergo expansion or vibration. If the installation location is not strong enough, the indoor unit may fall and cause injuries.
  - If the job is done with the panel frame only, there is a risk that the unit will come loose. Please take care.

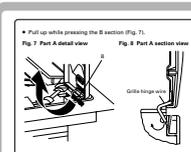
### REMOVING THE INTAKE GRILLE

- Push the intake grille pushbuttons three places.
- Open the intake grille.



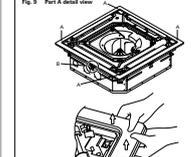
### 2. HANGING PREPARATIONS

- Position the ceiling hole and hanging bolts.
  - Remove the grille frame.



### REMOVING THE PANEL FRAME

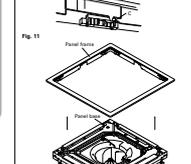
- Push out the corner sections (A) of the panel frame as shown in Fig. 9 (A) detail view.



### 3. BODY INSTALLATION

- The ceiling hole height is 9 1/2" (239 mm) or more. (Standard setting) [The ceiling hole height is 7 1/2" (190 mm) or more. (Slender setting)]
- Place the body and mount the body onto the hanging bolt between the special nut (Fig. 10).
- Turn special nut B to adjust the height of the body (Fig. 10).
- Leveling.
- Using a level, or vinyl hose filled with water, fine adjust so that the body is level.

### PERFORM FINAL TIGHTENING BY TIGHTENING THE DOUBLE NUT FIRMLY.

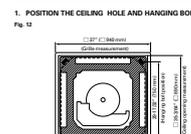


### INSTALLING THE PANEL FRAME

- Remove the panel frame after removing the intake grille.

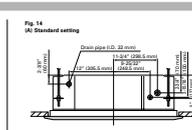
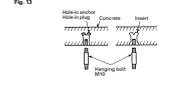
### 1. POSITION THE CEILING HOLE AND HANGING BOLTS

- Remove the grille frame.



### 2. HANGING PREPARATIONS

- Firmly fasten the hanging bolts as shown in Fig. 12 or by another method.
- Install the hanging bolts at a place where they would be capable of holding a weight of at least 50 kg per bolt.



### 2. BENDING PIPES

- These pipes are shipped by your hands. Be careful not to collapse them.

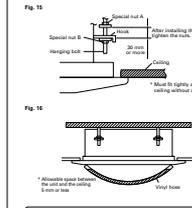
### NOTE: Install the drain pipe.

- Install the drain pipe with downward gradient (1/50 to 1/100) and so there are no flow or traps in the pipe.
- Use general hard polyvinyl chloride pipe (PVC) (outside diameter 1 1/2" (38 mm) and connect it with softeners (polyvinyl chloride) as the joints are no leakage.
- When the pipe is long, install supports.
- Do not perform air blowing.
- Always fasten inside the indoor side of the drain pipe.
- When drawing a high chair pipe length, install it to 21" (530 mm) or less from the ceiling with a range of 4" (102 mm) from the body. A rise dimension over this range will cause leakage.

### 3. BODY INSTALLATION

- The ceiling hole height is 9 1/2" (239 mm) or more. (Standard setting) [The ceiling hole height is 7 1/2" (190 mm) or more. (Slender setting)]
- Place the body and mount the body onto the hanging bolt between the special nut (Fig. 10).
- Turn special nut B to adjust the height of the body (Fig. 10).
- Leveling.
- Using a level, or vinyl hose filled with water, fine adjust so that the body is level.

### PERFORM FINAL TIGHTENING BY TIGHTENING THE DOUBLE NUT FIRMLY.

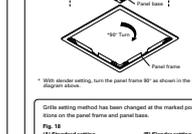


### INSTALLING THE PANEL FRAME

- Remove the panel frame after removing the intake grille.

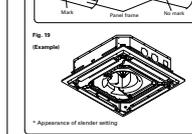
### 1. FLARE PROCESSING

- Cut the connection pipe with pipe cutters so that the pipe is not deformed.
- Hold the pipe downward so that the cuttings cannot enter the pipe and remove the burrs.
- Remove the flare nut from the indoor unit pipe and outdoor unit and install an anchor B (Table 2) and insert the flare nut onto the pipe, and flare with a flaring tool.
- Check if the flared part (C) (Fig. 23) is spread uniformly and that there are no cracks.



### 2. CONNECTING THE PIPING

- Be sure to connect the large pipe after connecting the small pipe completely.



## INSTALLING DRAIN PIPE

### 1. INSTALLING DRAIN PIPE

- Install the drain pipe in accordance with the instructions in this installation instruction sheet and keep the area warm enough to prevent condensation. Problems with the piping may lead to water leaks.

### NOTE: Install the drain pipe.

- Install the drain pipe with downward gradient (1/50 to 1/100) and so there are no flow or traps in the pipe.
- Use general hard polyvinyl chloride pipe (PVC) (outside diameter 1 1/2" (38 mm) and connect it with softeners (polyvinyl chloride) as the joints are no leakage.
- When the pipe is long, install supports.
- Do not perform air blowing.
- Always fasten inside the indoor side of the drain pipe.
- When drawing a high chair pipe length, install it to 21" (530 mm) or less from the ceiling with a range of 4" (102 mm) from the body. A rise dimension over this range will cause leakage.

### 2. BENDING PIPES

- These pipes are shipped by your hands. Be careful not to collapse them.

### NOTE: Install the drain pipe.

- Do not bend the pipe in an angle more than 90°.
- When pipes are repeatedly bent or expanded, the material will harden, making it difficult to bend or stretch them any more. Do not bend or stretch the pipe more than three times.
- When bending the pipe, do not bend it as in the figure. The pipe will be collapsed. In this case, use the heat insulating pipe with a sharp corner as shown in Fig. 24, and bend it after expanding the pipe. After bending the pipe as you wish, be sure to put the heat insulating pipe back on the pipe, and secure it with tape.

### 3. CONNECTION PIPES

- Be sure to connect the large pipe after connecting the small pipe completely.

### 1. OUTDOOR UNIT PROCESSING

- When the outdoor unit will be exposed to weather, fasten it with bolts at the four places indicated by the arrow (Fig. 21).

### 2. OUTDOOR UNIT CONNECTION CORD AND PIPE CONNECTION PREPARATIONS

- Remove outdoor unit valve cover and terminal cover.

### 3. CONNECTING THE PIPING

- Be sure to connect the large pipe after connecting the small pipe completely.

### 1. FLARE PROCESSING

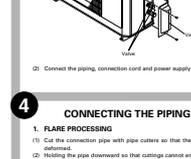
- Cut the connection pipe with pipe cutters so that the pipe is not deformed.
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- Remove the flare nut from the indoor unit pipe and outdoor unit and install an anchor B (Table 2) and insert the flare nut onto the pipe, and flare with a flaring tool.
- Check if the flared part (C) (Fig. 23) is spread uniformly and that there are no cracks.

### 2. CONNECTING THE PIPING

- Be sure to connect the large pipe after connecting the small pipe completely.

### OUTDOOR UNIT

- WARNING:**
  - Install the unit where it will not be tilted by more than 5°.
  - When installing the outdoor unit where it may be exposed to strong wind, fasten it securely.



### CONNECTING THE PIPING

- Be sure to connect the large pipe after connecting the small pipe completely.

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- Cut the connection pipe with pipe cutters so that the pipe is not deformed.
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### OUTDOOR UNIT

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  - Install the unit where it will not be tilted by more than 5°.
  - When installing the outdoor unit where it may be exposed to strong wind, fasten it securely.



Continued on back.

5

## VACUUM PROCESS

- VACUUM**
  - Remove the cap, and connect the gauge manifold and the vacuum pump to the charging valve by the service hoses.
  - Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below 1.5 mmHg.
  - Disconnect the service hoses and fit the cap to the charging valve (Tightening torque : 70 to 90 kgf-cm).
  - Remove the blank caps, and fully open the spindles of the 2-way and 3-way valves with a hexagon wrench (Torque : 2-way valve: 70 to 90 kgf-cm, 3-way valve: 100 to 120 kgf-cm).
  - Tighten the blank caps of the 2-way valve and 3-way valve to the specified torque (200 to 250 kgf-cm).

Fig. 29

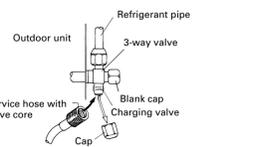
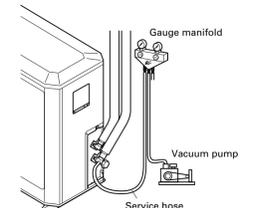


Fig. 30



## 2. ADDITIONAL CHARGE

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

Table 5

Pipe length (7.5 m)	25 ft (7.5 m)	33 ft (10 m)	49 ft (15 m)	66 ft (20 m)	82 ft (25 m)	
	Heat & Cool (Reverse cycle)	None	3.5 oz (100 g)	10.6 oz (300 g)	17.6 oz (500 g)	24.7 oz (700 g)
Additional refrigerant	Cooling model	None	1.5 oz (43 g)	4.5 oz (128 g)	7.5 oz (213 g)	10.5oz (298 g)

Between 7.5 m and 25 m, when using a connection pipe other than that in the table, charge additional refrigerant with 1.4 oz (40 g)/3.3 ft (1 m) (Reverse cycle model), 0.6 oz (17 g)/3.3 ft (1 m) (Cooling model) as the criteria.

### CAUTION

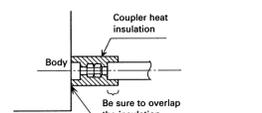
- When charging the refrigerant, always use a measuring cylinder.
- Add refrigerant from the charging valve after the completion of the work.

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. After installing the coupler heat insulation, wrap both ends with vinyl tape so that there is no gap.

Fig. 31



### CAUTION

Must fit tightly against body without any gap.



7

## ELECTRICAL WIRING

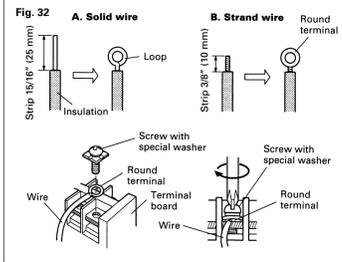
### HOW TO CONNECT WIRING TO THE TERMINALS

#### 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 15/16" (25 mm) 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 3/8" (10 mm) 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.

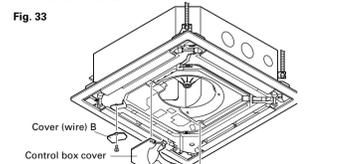


## 1. INDOOR UNIT SIDE

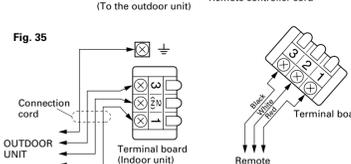
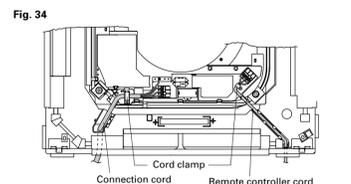
### WARNING

- Before starting work, check that power is not being supplied to the indoor 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 cord 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 cover (wire) B and install the connection cord.



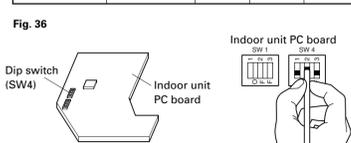
- After wiring is complete, clamp the remote controller cord and connection cord with the cord clamp.
- Install the control box cover and cover (wire) B.



### Ceiling height setting

Set the DIP switch for the ceiling height according to the table below.

Ceiling height (m)		DIP-SW4		
		1	2	3
2.5 - 3.0	Normal	—	OFF	OFF
3.0 - 3.5	High ceiling 1	—	ON	OFF
More than 3.5	High ceiling 2	—	OFF	ON
Less than 2.5	Low ceiling	—	ON	ON



- If the setting for a low ceiling is selected, the capacity of the air conditioner decreases slightly.
- Do not set any switches other than those specified in this sheet or the remote controller installation instruction sheet. The air conditioner may not operate correctly if any switches other than those specified are changed.

### CAUTION

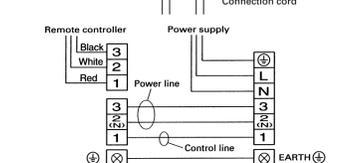
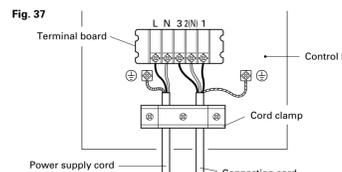
- If the setting for a low ceiling is selected, the capacity of the air conditioner decreases slightly.
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## 2. OUTDOOR UNIT SIDE

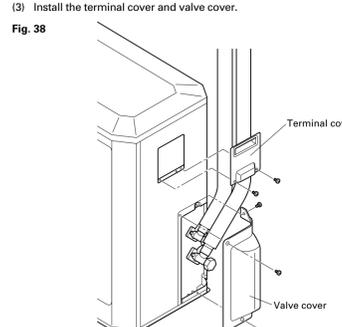
### WARNING

- 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 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.

- Remove outdoor unit terminal cover and connect the power supply cord and the outdoor unit connection cord wired at the indoor unit.
- Fasten the power supply cord and connection cord with cord clamp as shown in Fig. 37.



- Install the terminal cover and valve cover.

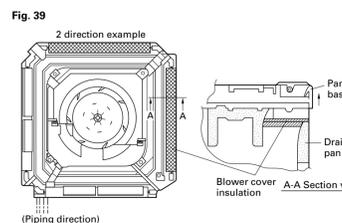


8

## GRILLE INSTALLATION

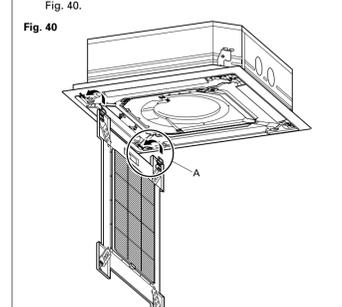
### BLOWER COVER INSULATION

Install the blower cover insulation only when the outlet direction is not specified. Two blower cover insulations are packed with the indoor unit. Install the blower cover insulation at the diffuser position shown in Fig. 39. At this time, use the piping position as the criteria.



### INSTALLING THE INTAKE GRILLE

- Mount the grille hinge wire to the hook shaft as shown in Fig. 40.



9

## POWER

### WARNING

- The rated voltage of this product is 220-240 V 50 Hz.
- Before turning on verify that the voltage is within the 198 to 264 V range.
- Always use a special branch circuit and install a special receptacle to supply power to the air conditioner.
- Use a special branch circuit breaker and receptacle matched to the capacity of the air conditioner. (Install in accordance with standard.)
- Perform wiring work in accordance with standards so that the air conditioner can be operated safely and positively.
- Install a leakage special branch circuit breaker in accordance with the related laws and regulations and electric company standards.

### CAUTION

When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage raised.

10

## REMOTE CONTROLLER INSTALLATION

When mounting the remote controller, refer to the enclosed REMOTE CONTROLLER INSTALLATION INSTRUCTION SHEET. Then, make the necessary settings on both the remote controller and the main unit.

- Insert the end of a flat blade screwdriver at the arrow parts of the groove at the side of the remote controller case and remove the remote controller case top by turning the screwdriver.
- Disconnect the remote controller cord from the remote controller terminal board.

- When remote controller exposed
  - Make a notch in the thin part (C) part of Fig. 47) at the remote controller case top and bottom with nippers, file, etc.
  - Connect the remote controller cord to the remote controller terminal board specified in Fig. 48).
  - Clamp the remote controller cord sheath with the binder (small) as shown in Fig. 48).
  - Cut off the excess binder.
  - Clamp the remote controller cord to a wall, etc. with the remote controller cord clamp furnished (Fig. 49).

- When remote controller cord embedded
  - Embed the remote controller cord and box.
  - Pass the remote controller cord through the hole at the remote controller case bottom and install the cord to the box (Fig. 50).
  - Connect the remote controller cord to the remote controller terminal board specified in Fig. 48).

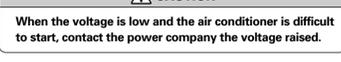
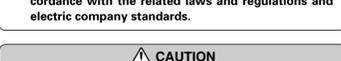
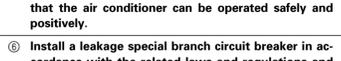
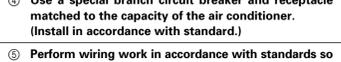
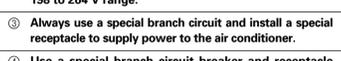
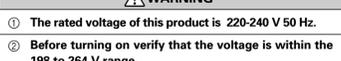
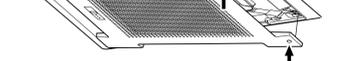
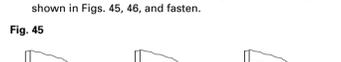
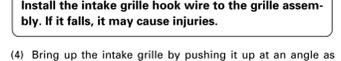
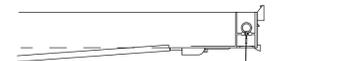
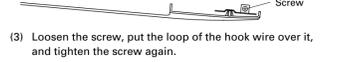
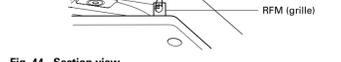
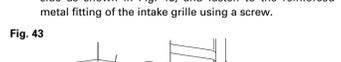
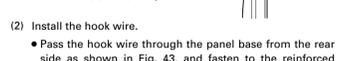
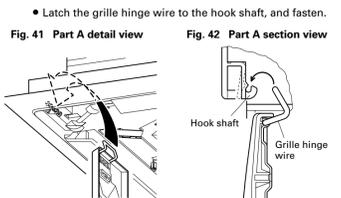
- Bring up the intake grille by pushing it up at an angle as shown in Figs. 45, 46, and fasten.

- After wiring work is complete, return the remote controller case top to its original state.

- Do not bundle the remote controller cord, or wire the remote controller cord in parallel, with the indoor unit connection wire (to the outdoor unit) and the power supply cord. It may cause erroneous operation.

- When installing the remote controller and cord near a source of electromagnetic waves, separate the remote controller from the source of the electromagnetic waves and use shielded cord.

- Do not touch the remote controller PC board and PC board parts directly with your hands.

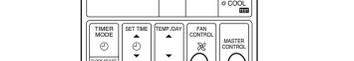
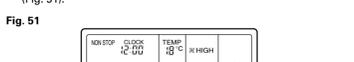
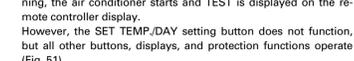


11

## TEST RUNNING

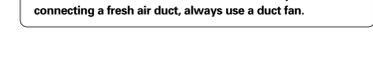
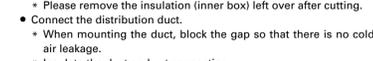
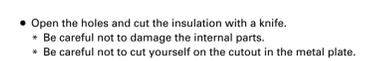
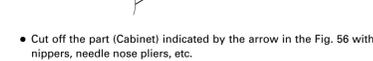
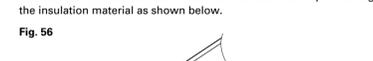
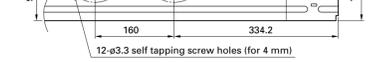
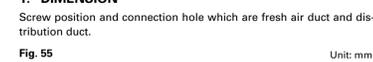
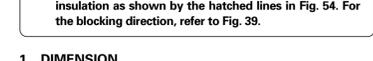
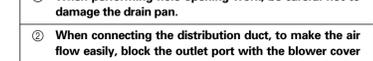
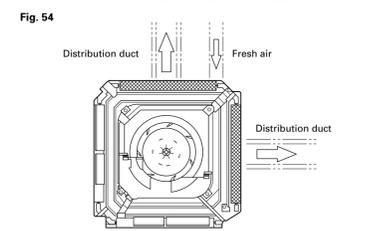
- REMOTE CONTROLLER**
  - Supply power to the crankcase heater 12 hours before the start of operation in the winter.
  - For test running, when the remote controller FAN CONTROL button and MASTER CONTROL button are pressed simultaneously for more than three seconds when the air conditioner is not running, the air conditioner starts and TEST is displayed on the remote controller display.

However, the SET TEMP./DAY setting button does not function, but all other buttons, displays, and protection functions operate (Fig. 51).



12

## OPENING THE DUCT CONNECTION HOLE



- When EE:EE blinks at the current time display, there is an error inside the air conditioner. If the SET TIME button (▼) and SET TEMP./DAY button (▼) are pressed simultaneously for more than three seconds, the self diagnosis check will start and the error contents will be displayed at the current time display (Fig. 52). When the operation lamp lights, press the START/STOP button and after operation lamp goes off, perform the same operation (Fig. 52). Process the error contents by referring to (Table 7).

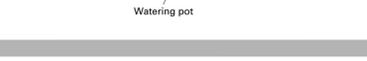
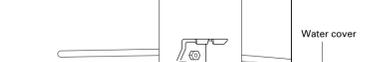
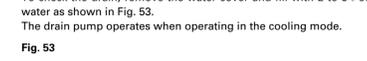
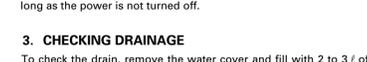
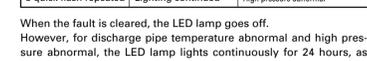
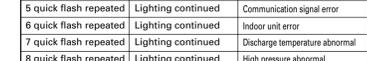
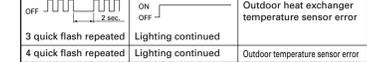
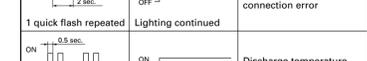
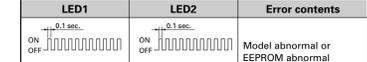
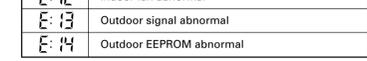
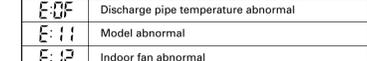
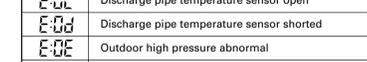
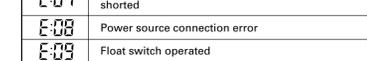
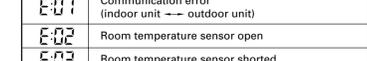
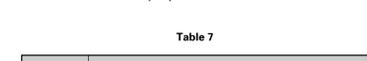


Table 7

Error code	Error contents
E00	Communication error (indoor unit ↔ remote controller)
E01	Communication error (indoor unit ↔ outdoor unit)
E02	Room temperature sensor open
E03	Room temperature sensor shorted
E04	Indoor heat exchanger temperature sensor open
E05	Indoor heat exchanger temperature sensor shorted
E06	Outdoor heat exchanger temperature sensor open
E07	Outdoor heat exchanger temperature sensor shorted
E08	Power source connection error
E09	Float switch operated
E0A	Outdoor temperature sensor open
E0b	Outdoor temperature sensor shorted
E0c	Discharge pipe temperature sensor open
E0d	Discharge pipe temperature sensor shorted
E0E	Outdoor high pressure abnormal
E0F	Discharge pipe temperature abnormal
E11	Model abnormal
E12	Indoor fan abnormal
E13	Outdoor signal abnormal
E14	Outdoor EEPROM abnormal

## 2. OUTDOOR UNIT

When the outdoor temperature drops, the outdoor unit's fans may switch to low speed.

**ERROR : HEAT & COOL MODEL (REVERSE CYCLE) ONLY**  
The LED lamps operate as follows (Table 8) according to the error contents.

Table 8

Error display	LED1	LED2	Error contents
ON 0.1 sec. OFF	ON 0.1 sec. OFF	ON 0.1 sec. OFF	Model abnormal or EEPROM abnormal
Quick flash continued	Quick flash continued	Quick flash continued	Power source connection error
1 quick flash repeated	Lighting continued	Lighting continued	Discharge temperature sensor error
2 quick flash repeated	Lighting continued	Lighting continued	Outdoor heat exchanger temperature sensor error
3 quick flash repeated	Lighting continued	Lighting continued	Outdoor temperature sensor error
4 quick flash repeated	Lighting continued	Lighting continued	Communication signal error
5 quick flash repeated	Lighting continued	Lighting continued	Indoor unit error
6 quick flash repeated	Lighting continued	Lighting continued	Discharge temperature abnormal
7 quick flash repeated	Lighting continued	Lighting continued	High pressure abnormal

When the fault is cleared, the LED lamp goes off.

However, for discharge pipe temperature abnormal and high pressure abnormal, the LED lamp lights continuously for 24 hours, as long as the power is not turned off.

## 3. CHECKING DRAINAGE