

SPLIT TYPE AIR CONDITIONER Duct Type INSTALLATION INSTRUCTION SHEET

(PART NO. 9361795037)

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.

Let the customer keep this installation instruction sheet because it is read where 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.

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 read where 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.

The following installation parts are furnished. Use them as required.

STANDARD PARTS

INDOOR UNIT ACCESSORIES

Name and Shape	Qty	Application
Installation template	1	For positioning the indoor unit.
Hanger	4	For suspending the indoor unit from ceiling.
Special nut A (Large flange)	4	For suspending the indoor unit from ceiling.
Special nut B (Small flange)	4	For indoor side pipe joint (large pipe).
Coupler head	2	For indoor side pipe joint (small pipe).
Coupler head insulation foam	1	For indoor side pipe joint (small pipe).
Nylon fastener	1	For fixing the drain hose.
Remote controller	1	For installing the remote controller.
Remote controller cord (2m)	10	For installing the remote controller cord (2m).
Refrigerant service valve	10	For installing the remote controller cord (2m).
Assembly pipe	1	For wiring remote controller.
Drain hose	1	For installing the drain hose.

OUTDOOR UNIT ACCESSORIES

Refrigerant service valve	1	For installing the remote controller cord (2m).
Cable clip	2	For power supply cord binding.
Hanging bracket (standard)	1	For fixing the valve cover.
Drain pipe	1	For outdoor unit drain piping (2m).
Drain cap	2	For outdoor unit drain piping (2m).

SELECTING THE MOUNTING POSITION

Install at a place that can withstand the weight of the indoor and outdoor units and install positively so that the units will not topple or fall.

CONNECTION PIPE REQUIREMENT

CAUTION! The maximum lengths of the product are shown in Table 1. If the units are further apart than this, correct operation cannot be guaranteed.

Small	Large	Maximum length between indoor and outdoor
3.5 mm (1/8")	15.88 mm (5/8")	30 m (98 ft)
4.76 mm (3/16")	20 mm (3/4")	25 m (82 ft)
6.35 mm (1/4")	25 mm (1 1/8")	15 m (50 ft)

Use 2.0 mm (3/16") thick pipe.

Use pipe with water resistant heat insulation.

The pipe that can withstand a pressure of 2.0 MPa (20 kg/cm²).

ELECTRICAL REQUIREMENT

Electric wire size and fuse/breaker capacity:

Power supply cord	MAX	0.5
Disconnection point <th>MIN</th> <td>1.5</td>	MIN	1.5
Fuse/Breaker capacity (A) <th>MIN</th> <td>1.0</td>	MIN	1.0
	MAX	20

Install the disconnection device with a connect gap of at least 3 mm nearby the units. (Both indoor unit and outdoor unit)

INSTALLATION PROCEDURE

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 be strongly shaken or vibrated.

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.

Press the anchor bolts into the drilled holes, and drive the pipe completely into the anchor bolts with a hammer.

Anchor Bolt Strength: 9.8 to 14.7 N (100 to 150 kg/cm)

Install the hangers to the unit.

When fastening the hangers, make the both positions uniform.

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5. SERVICE HOLE DIMENSIONS

1. Vertical dimension: 800 mm (31 1/2") from the left from reference B.

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2. OUTDOOR UNIT INSTALLATION

1. OUTDOOR UNIT PROCESSING

When the outdoor unit will be exposed to strong wind, fasten it with bolts at the places indicated by the arrows. (Fig. 16)

Set the unit on a strong stand, such as one made of concrete blocks to maintain check and vibration.

Do not fasten the unit directly on the ground because it will cause trouble.

Remove outdoor unit valve cover.

After removing the antenna, remove valve cover.

Connect the piping, connection cord and power supply cord.

When moving and installing the air conditioner, do not use gas other than the specified refrigerant (R22) inside the refrigerant cycle.

When adding refrigerant, add the refrigerant from the charging valve at the completion of work.

If the units are further apart than the maximum pipe length, correct operation cannot be guaranteed.

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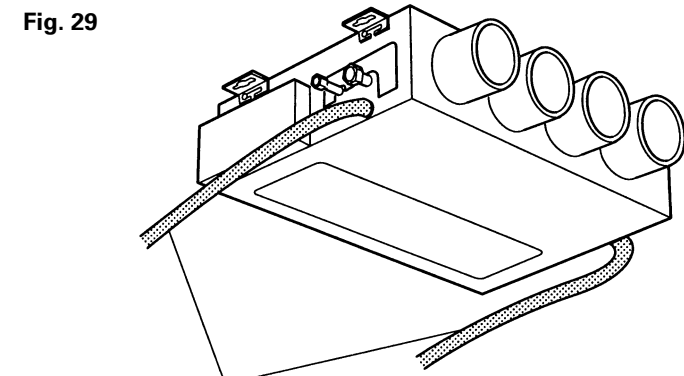
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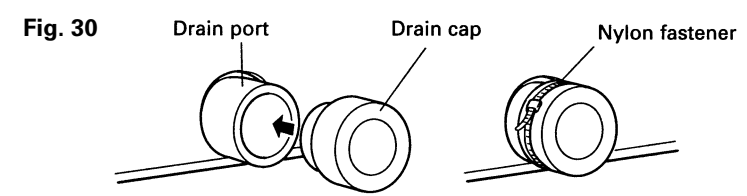
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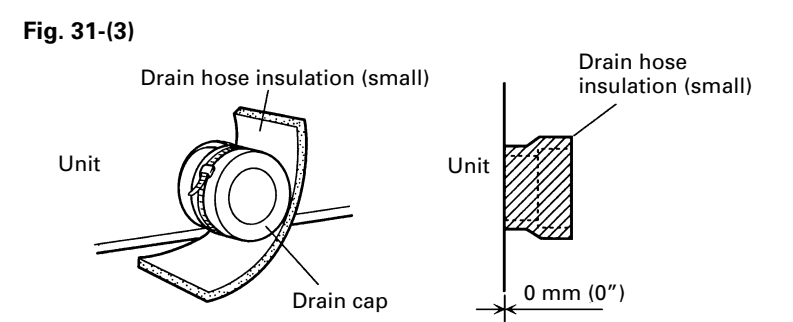
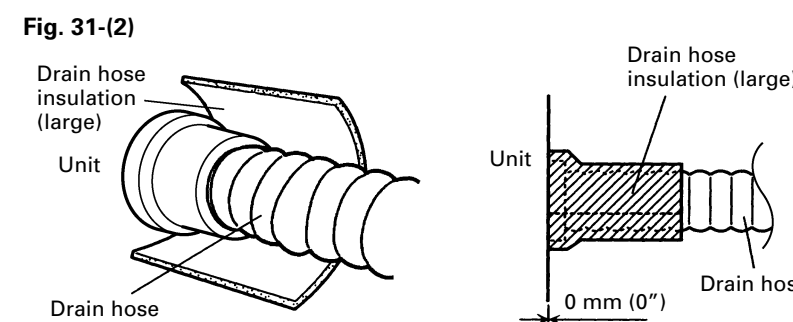
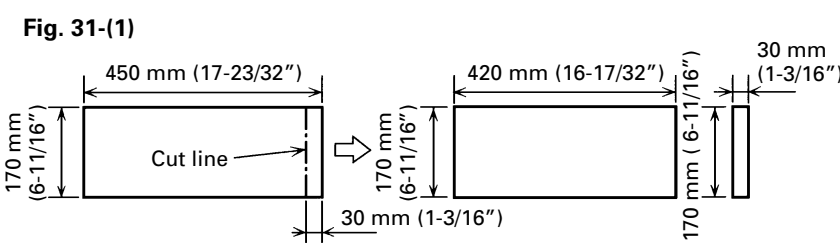
- When the unit is shipped from the factory, the drain port is on the left side (control box side).
- When using the drain port on the right side of the unit, reinstall the drain cap to the left side drain port.



CAUTION

Always check that the drain cap is installed to the unused drain port and is fastened with the nylon fastener. If the drain cap is not installed, or is not sufficiently fastened by the nylon fastener, water may drip during the cooling operation.

- Cut the drain hose insulation at a position approximately 30 mm from the end with cutters, etc. (Fig. 31-1)
- Stick the large drain hose insulation at the drain hose installation side. (Fig. 31-2)
- Stick the small drain hose insulation at the drain cap side (Fig. 31-3)

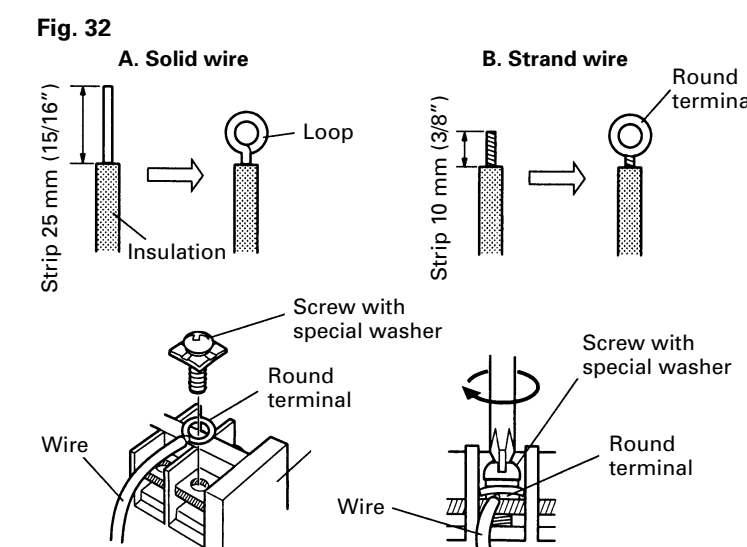


7 ELECTRICAL WIRING

HOW TO CONNECT WIRING TO THE TERMINALS

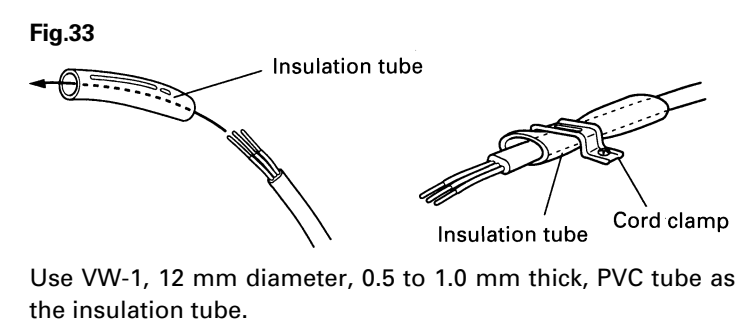
A. For solid core wiring (or F-cable)

- (1) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm (15/16") to expose the solid wire.
 - (2) Using a screwdriver, remove the terminal screw(s) on the terminal board.
 - (3) Using pliers, bend the solid wire to form a loop suitable for the terminal screw.
 - (4) 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
- (1) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm (3/8") to expose the strand wiring.
 - (2) Using a screwdriver, remove the terminal screw(s) on the terminal board.
 - (3) Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped wire end.
 - (4) Position the round terminal wire, and replace and tighten the terminal screw with a screwdriver.



HOW TO FIXED CONNECTION CORD AND POWER SUPPLY CORD AT THE CORD CLAMP

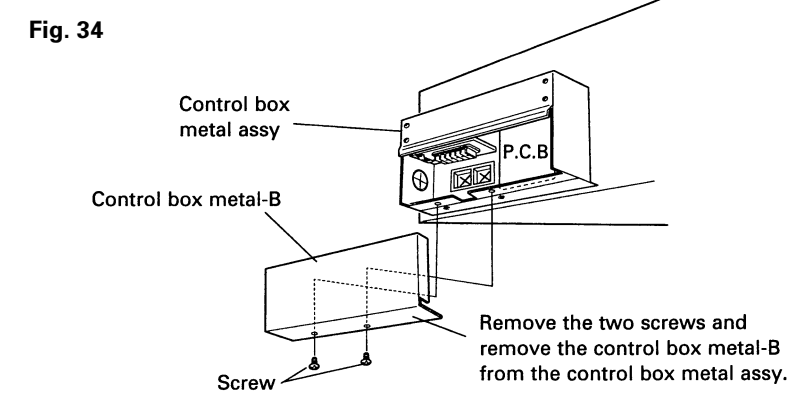
After passing the connection cord and power supply cord through the insulation tube, fasten it with the cord clamp.



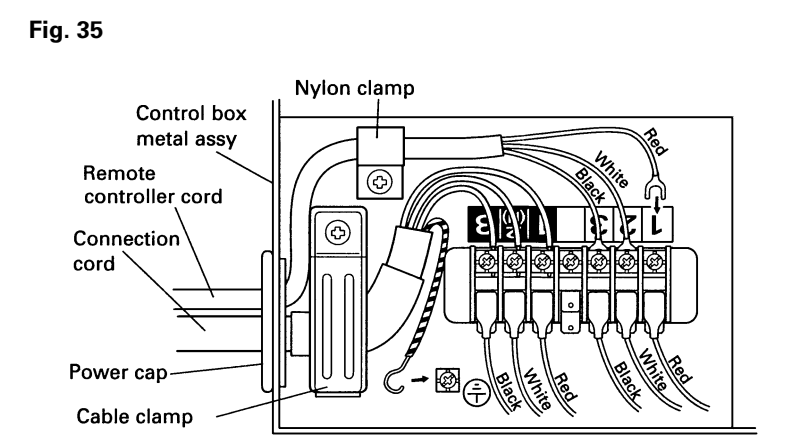
Use VW-1, 12 mm diameter, 0.5 to 1.0 mm thick, PVC tube as the insulation tube.

1. INDOOR UNIT SIDE

- (1) Remove the control box metal-B from the control box metal-8 assy.



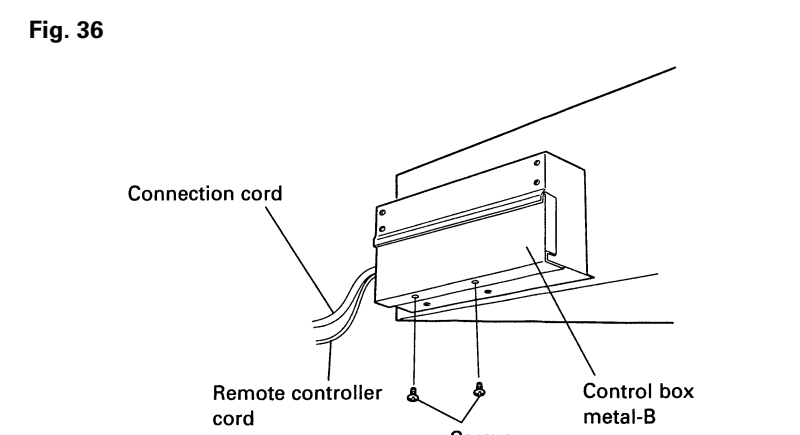
- (2) Connection cord and remote controller cord connections.
 - Clamp the connection cord with the cable clamp and the remote controller cord with the nylon clamp.
 - Connect the connection cord to the terminals with the white characters on the terminal nameplate.
 - Connect the remote controller cord to the terminals with the black characters on the terminal nameplate.



CAUTION

- ① Tighten the indoor unit connection cord (to the outdoor unit) indoor and outdoor unit terminal board connections firmly with the terminal board screws. Faulty connection may cause a fire.
- ② If the indoor unit connection cord (to the outdoor unit) are wired incorrectly, the air conditioner may be damaged.
- ③ Wire the indoor unit connection cord (to the outdoor unit) by matching the numbers of the outdoor and indoor units terminal board numbers as shown in (Fig. 35).
- ④ Ground both the indoor and outdoor units by attaching a ground wire.
- ⑤ Unit shall be grounded in compliance with the applicable local and national codes.

- (3) Control box metal-B installation
Fasten control box metal-B with the two screws.
For the connection cord outlet port see Fig. 36.

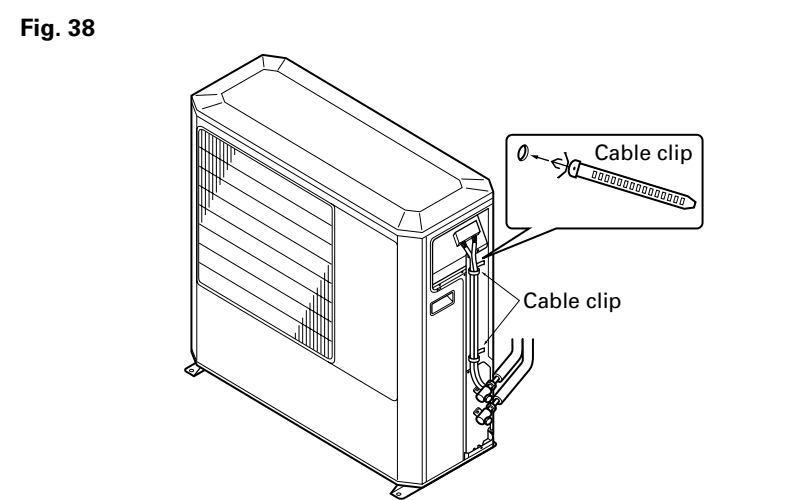
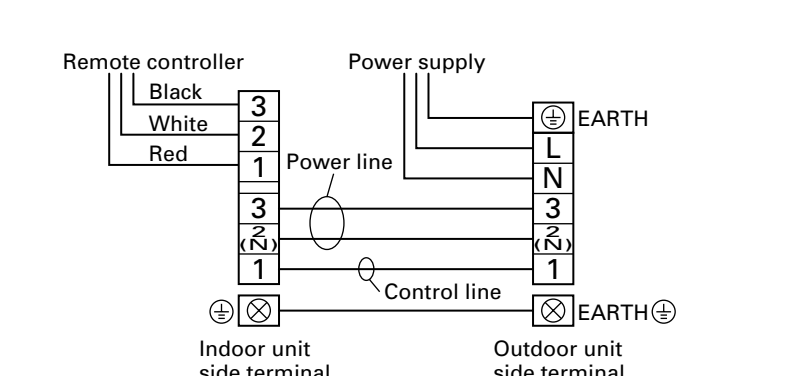
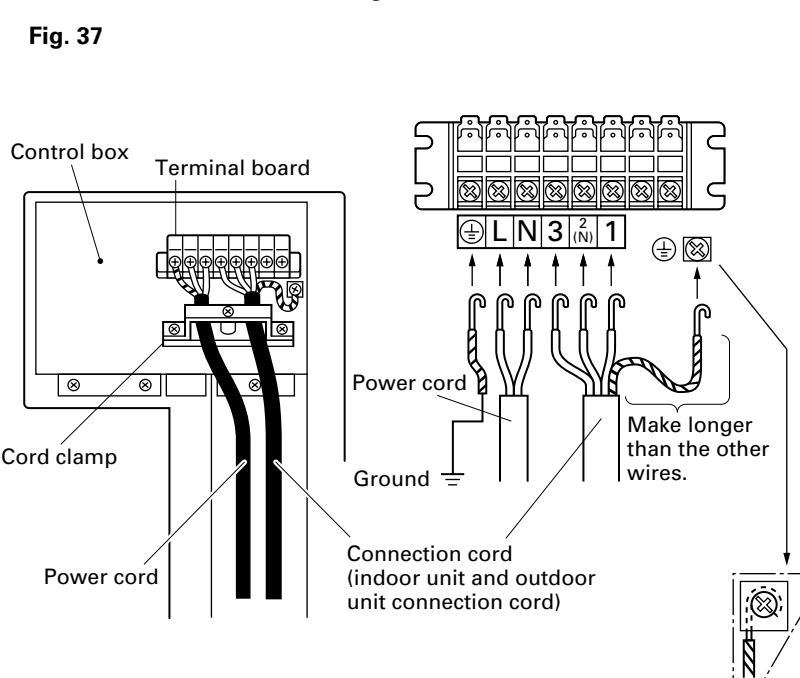


2. OUTDOOR UNIT SIDE

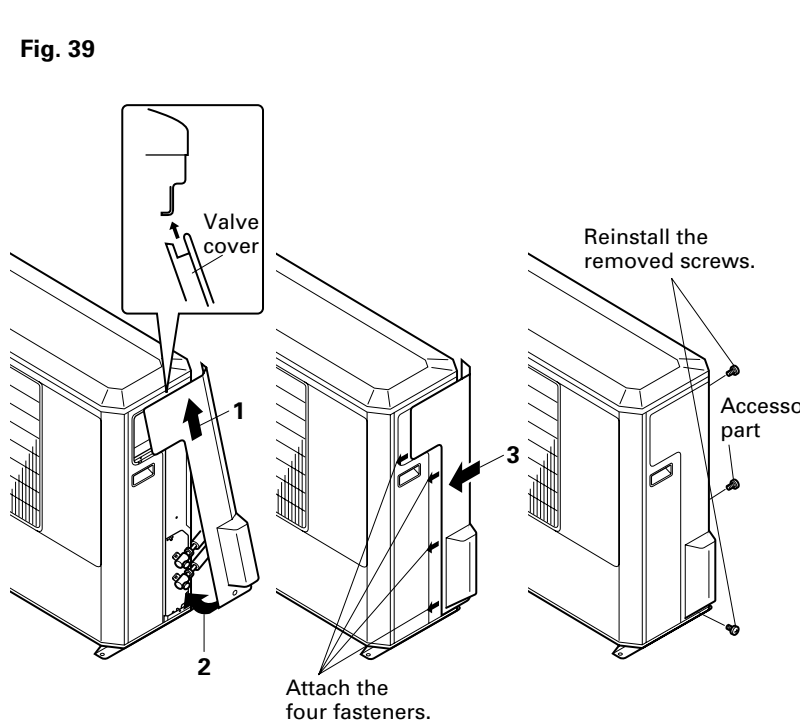
WARNING

- ① Before starting work, check that power is not being supplied to the indoor unit and outdoor unit.
- ② 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.
- ③ Connect the connection cord and the power supply cord firmly to the terminal board. Imperfect installation may cause a fire.
- ④ Always fasten the outside covering of the connection cord and the power supply cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.)
- ⑤ Always connect the ground wire.

- (1) Remove outdoor unit valve cover and connect the power supply cord and the outdoor unit connection cord wired at the indoor unit.
- (2) Fasten the power supply cord and connection cord with cable clip and binders as shown in (Fig. 38).



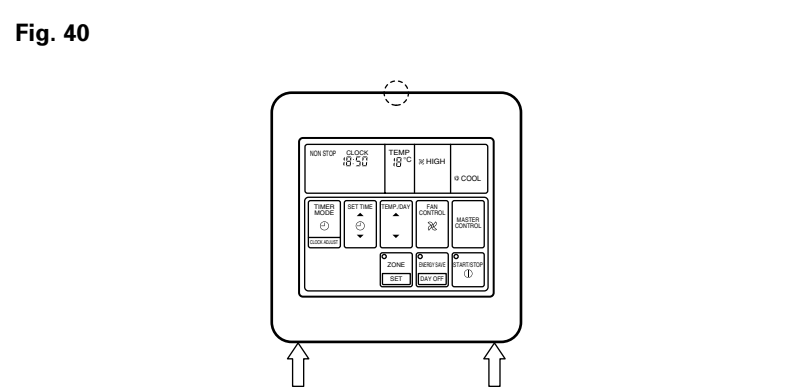
- (3) Install the valve cover.



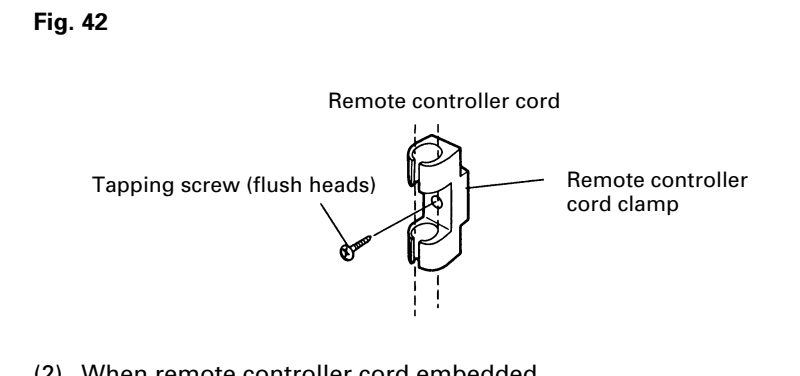
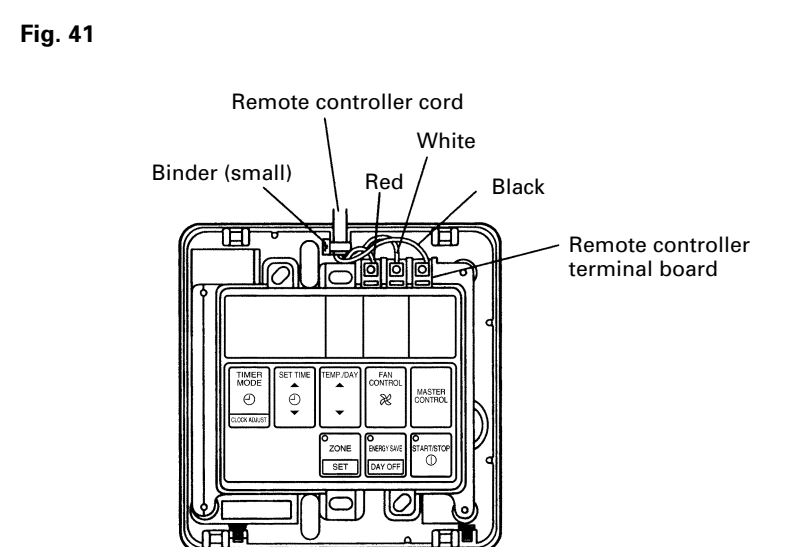
8 REMOTE CONTROLLER INSTALLATION

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.

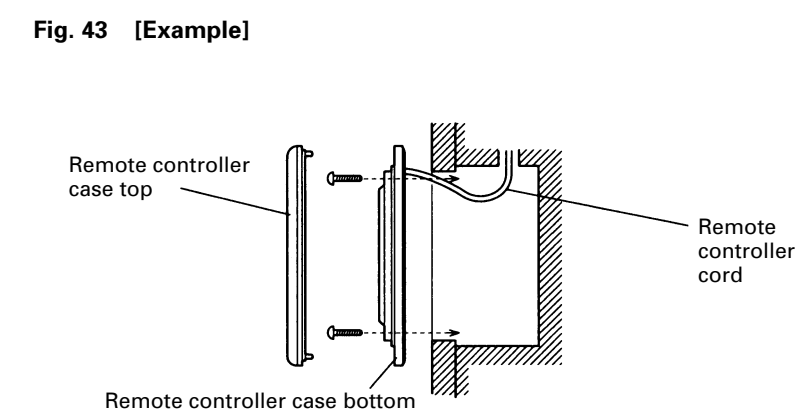
- Insert the end of a flat blade screwdriver at the arrow parts of the groove at the side of the remote controller case and remove the remote controller case top by turning the screwdriver.
- Disconnect the remote controller cord from the remote controller terminal board.



- (1) When remote controller exposed
 - 1) Make a notch in the thin part (part of Fig. 40) at the remote controller case top and bottom with nippers, file, etc.
 - 2) Connect the remote controller cord to the remote controller terminal board specified in (Fig. 41).
 - 3) Clamp the remote controller cord sheath with the binder (small) as shown in Fig. 41.
 - 4) Cut off the excess binder.
 - 5) Clamp the remote controller cord to a wall, etc. with the remote controller cord clamp furnished (Fig. 42).



- (2) When remote controller cord embedded
 - 1) Embed the remote controller cord and box.
 - 2) Pass the remote controller cord through the hole at the remote controller case bottom and install the cord to the box. (Fig. 43)
 - 3) Connect the remote controller cord to the remote controller terminal board specified in (Fig. 41).



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

CAUTION

- ① 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.
- ② 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.
- ③ Do not touch the remote controller PC board and PC board parts directly with your hands.

9 POWER

WARNING

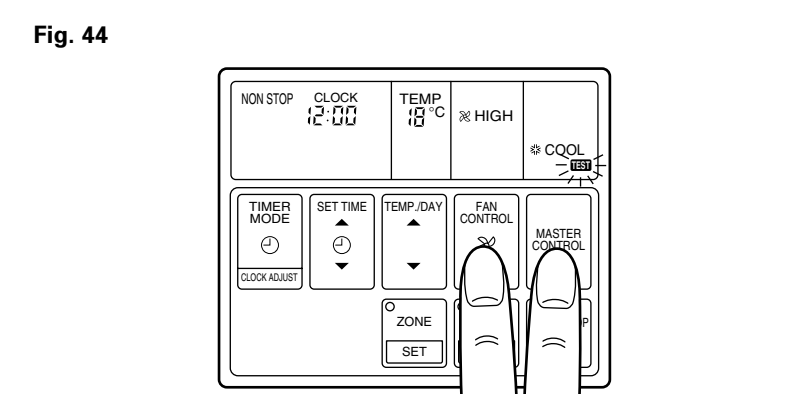
- ① The rated voltage of this product is to 220-240 V 50 Hz.
- ② Before turning on the verify that the voltage is within the 198 V to 264 V range.
- ③ Always use a special branch circuit and install a special receptacle to supply power to the air conditioner.
- ④ Use a circuit breaker and receptacle matched to the capacity of the air conditioner. (Install in accordance with standard.)
When connecting the power supply to the outdoor unit, always install a circuit breaker between the outdoor unit and the power supply. Use the circuit breaker has an isolation distance of at least 3 mm between the contacts of each pole.
- ⑤ Perform wiring work in accordance with standards so that the air conditioner can be operated safely and positively.
- ⑥ Install a leakage circuit breaker in accordance with the related laws and regulations and electric company standards.

CAUTION

- ① 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.
- ② When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage raised.

10 TEST RUNNING

1. 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 TEMP/DAY setting button does not function, but all other buttons, displays, and protection functions operate (Fig. 44).



- When EE : EE blinks at the current time display, there is an error inside the air conditioner. If the SET TIME button () and 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. 45). When the operation lamp lights, press the START/STOP button and after operation lamp goes off, perform the same operation (Fig. 45). Process the error contents by referring to (Table 6).

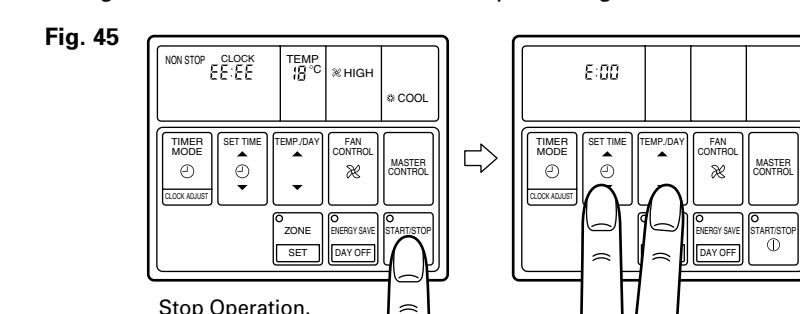


Table 6

Error code	Error contents
E:00	Communication error (indoor unit → remote controller)
E:01	Communication error (indoor unit → outdoor unit)
E:02	Room temperature sensor open
E:03	Room temperature sensor shortcircuited
E:04	Indoor heat exchanger temperature sensor open
E:05	Indoor heat exchanger temperature sensor shortcircuited
E:06	Outdoor heat exchanger temperature sensor open
E:07	Outdoor heat exchanger temperature sensor shortcircuited
E:08	Power source connection error
E:09	Float switch operated
E:0A	Outdoor temperature sensor open
E:0B	Outdoor temperature sensor shortcircuited
E:0C	Discharge pipe temperature sensor open
E:0D	Discharge pipe temperature sensor shortcircuited
E:0E	Outdoor high pressure abnormal
E:0F	Discharge pipe temperature abnormal
E:11	Model abnormal
E:12	Indoor fan abnormal
E:13	Outdoor signal abnormal
E:14	Outdoor EEPROM abnormal

- To stop test running, press the START/STOP button.
- For the operation method, refer to the operating manual and perform operation check.
- Check that there are no abnormal sounds or vibration sounds during the test running.

2. OUTDOOR UNIT

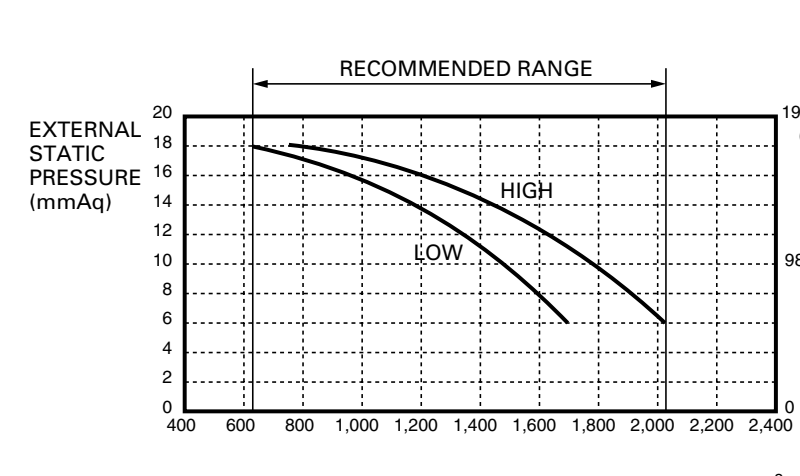
When the outdoor temperature drops, the outdoor unit's fans may switch to low speed, or one of the fans may stop intermittently. The LED lamps operate as follows (Table 7) according to the error contents. The LED lamps are on the outdoor unit board.

Error display	LED1	LED2	Error contents
Quick flash continued	ON 0.1 sec. OFF 0.1 sec.	ON 0.1 sec. OFF 0.1 sec.	Model abnormal or EEPROM abnormal
1 quick flash repeated	ON 0.5 sec. OFF 2 sec.	ON 0.5 sec. OFF 2 sec.	Power source connection error
2 quick flash repeated	ON 0.5 sec. OFF 2 sec.	ON 0.5 sec. OFF 2 sec.	Discharge temperature sensor error
3 quick flash repeated	ON 0.5 sec. OFF 2 sec.	ON 0.5 sec. OFF 2 sec.	Outdoor heat exchanger temperature sensor error
4 quick flash repeated	ON 0.5 sec. OFF 2 sec.	ON 0.5 sec. OFF 2 sec.	Outdoor temperature sensor error
5 quick flash repeated	ON 0.5 sec. OFF 2 sec.	ON 0.5 sec. OFF 2 sec.	Communication signal error
6 quick flash repeated	ON 0.5 sec. OFF 2 sec.	ON 0.5 sec. OFF 2 sec.	Indoor unit error
7 quick flash repeated	ON 0.5 sec. OFF 2 sec.	ON 0.5 sec. OFF 2 sec.	Discharge temperature abnormal
8 quick flash repeated	ON 0.5 sec. OFF 2 sec.	ON 0.5 sec. OFF 2 sec.	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.

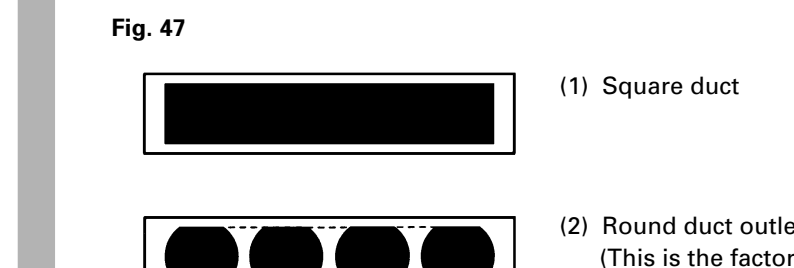
11 STATIC PRESSURE CHARACTERISTIC

Fig. 46 FAN PERFORMANCE AND AIR FLOW EXTERNAL STATIC PRESSURE



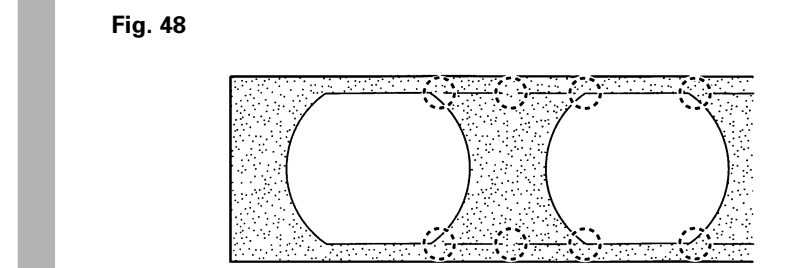
12 OUTLET DUCT CONNECTION

1. DUCT INSTALLATION PATTERN (CUT PART)



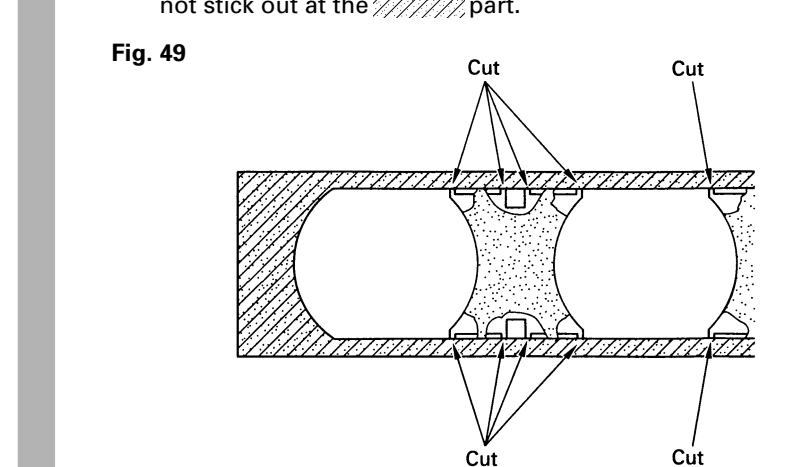
2. WHEN USING AS A SQUARE DUCT

- (1) Cut the slit seam with a cutter.



3. SPECIAL ITEMS

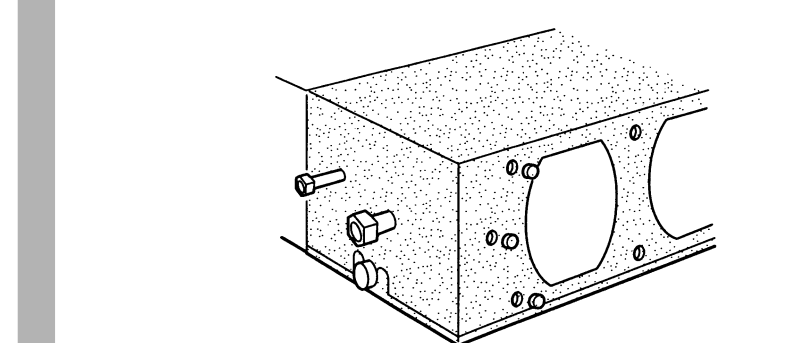
When connecting the square duct and round duct, use the optional square flange or round flange and flexible duct.



- (2) Turn up the insulation around the points to be cut according to the outlet port shape working points so that the insulation does not stick out at the part.

- (3) Cut with nippers and remove the sheet metal.
- (4) Since there is a slit in the insulation, use radio pliers, tweezers, etc. to stretch tight the screw hole part used when installing the round flange and square flange when connecting the duct.

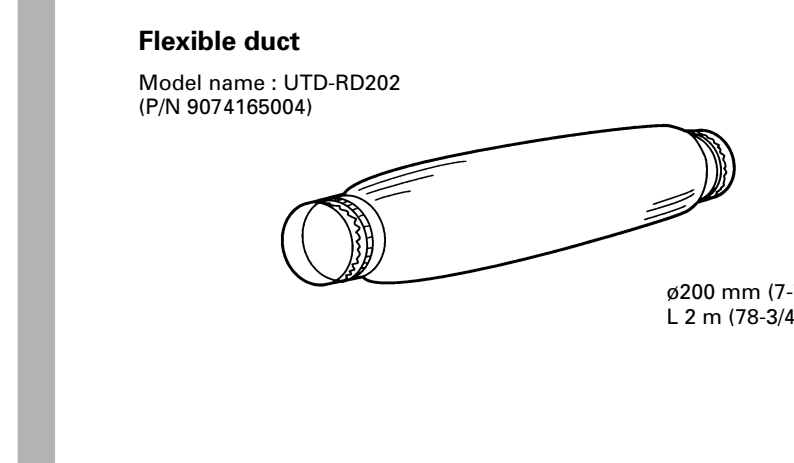
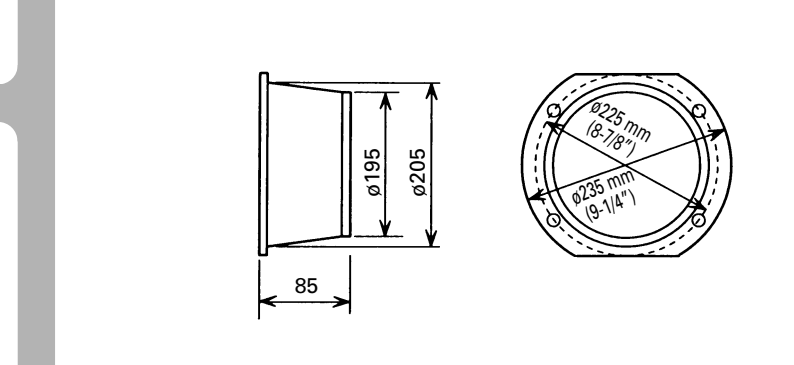
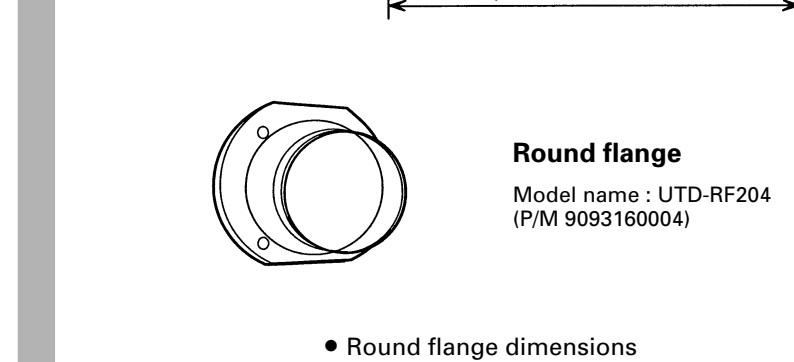
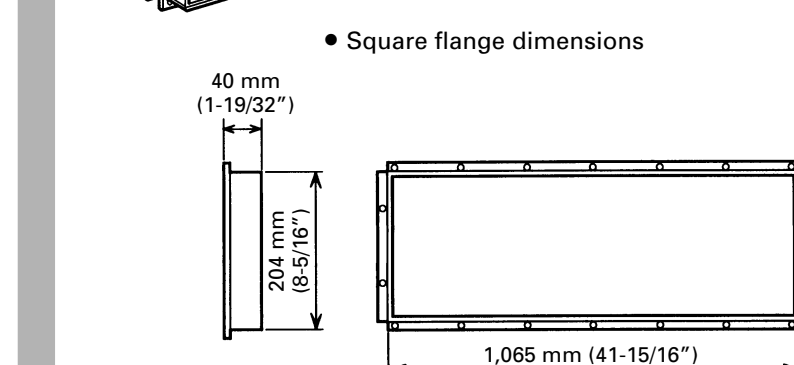
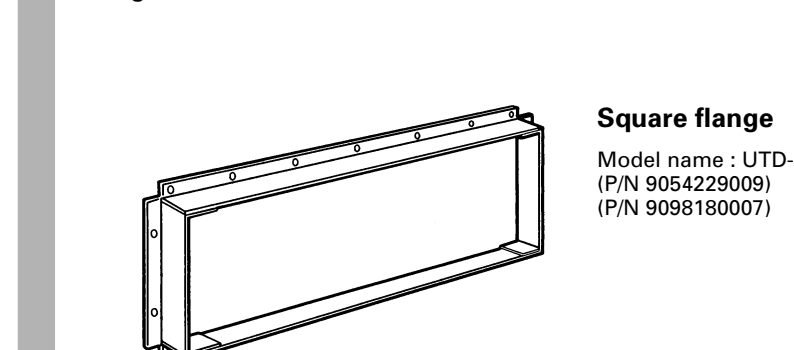
Fig. 50



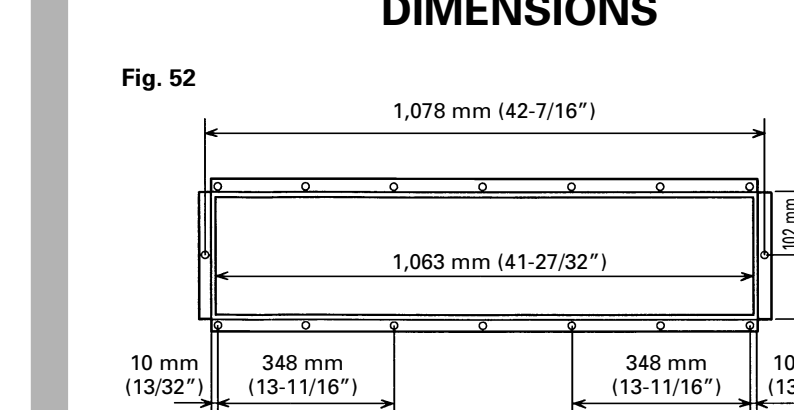
3. SPECIAL ITEMS

When connecting the square duct and round duct, use the optional square flange or round flange and flexible duct.

Fig. 51



13 INTAKE PORT REAR COVER DIMENSIONS



14 INTAKE PORT

- (1) The square flange (rear side) and panel (intake panel) are installed at the factory at the places shown in Fig. 53.
- (2) When taking in air from the bottom side, reinstall the square flange (rear side) and panel (intake panel).

CAUTION

When air is taken in from the bottom side, the operating sound of the product will easily enter the room. Install the product and intake grilles where the affect of the operating sound is small.

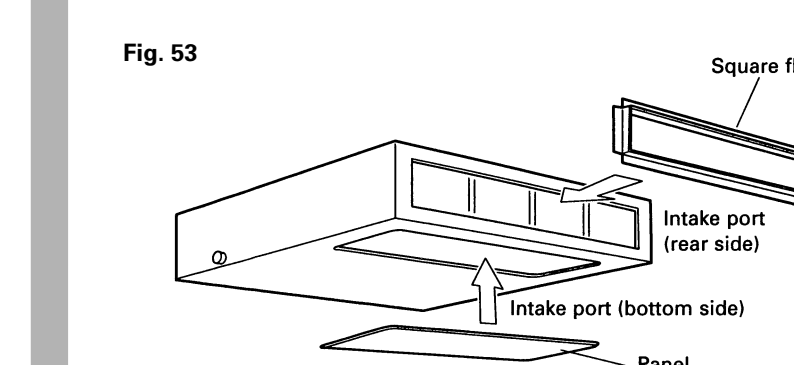


Fig. 53

15 FRESH AIR IN TAKE (Processing before use)

- (1) When taking in fresh air, cut a slit shaped cabinet in the left side of the outer case as shown in Fig. 54 with nippers.

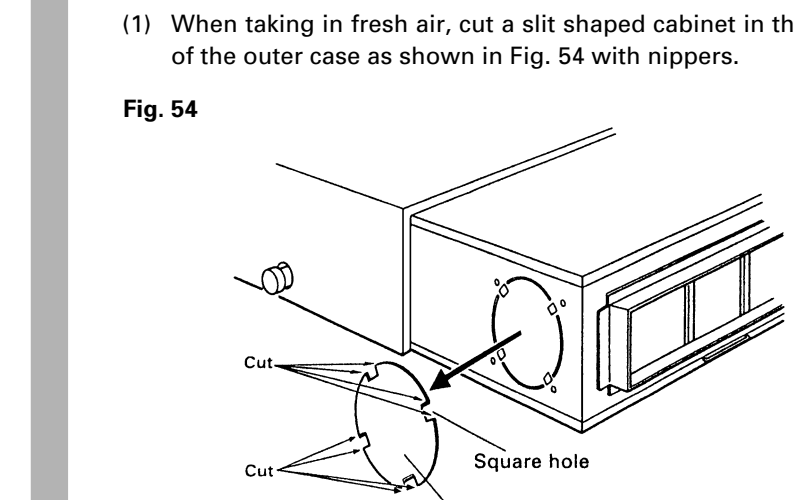


Fig. 54

CAUTION

- ① When removing the cabinet (iron plate), be careful not to damage the indoor unit internal parts and surrounding area (outer case).
- ② When processing the cabinet (iron plate), be careful not to injure yourself with burrs, etc.

- (2) Install the round flange (optional parts) to the fresh air intake.

Fig. 55

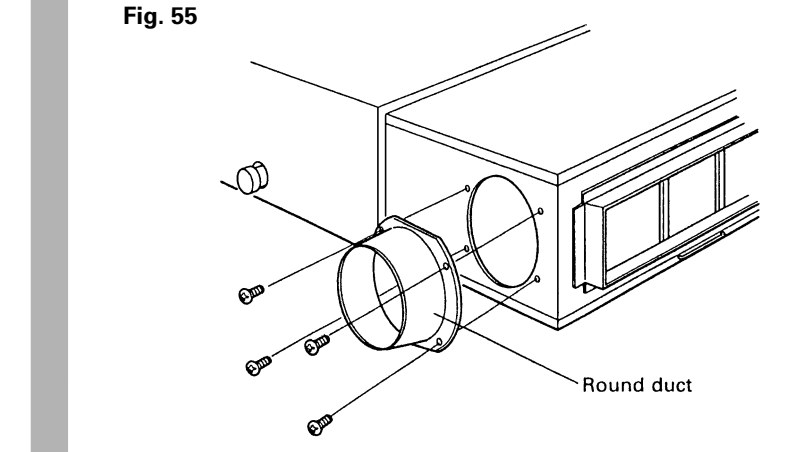


Fig. 55

- (3) Connect the duct to the round flange.
- (4) Seal with a band and vinyl tape, etc. so that air does not leak from the connection.

Fig. 56

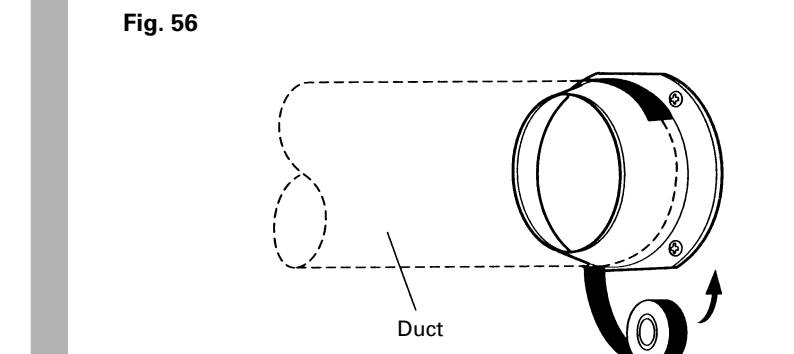


Fig. 56