

SPLIT TYPE AIR CONDITIONER Ceiling Suspension Type INSTALLATION MANUAL

(PART NO. 9361156029-02)
For authorized service personnel only.

- WARNING**
- For the air conditioner to operate satisfactorily, install it as outlined in this installation manual.
 - Installation work must be performed in accordance with national wiring standards by authorized personnel only.
 - Do not turn on the power until all installation work is complete.

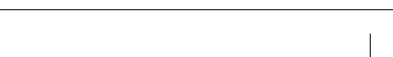
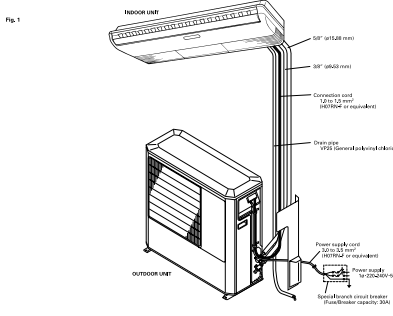
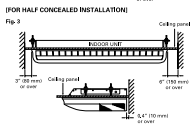
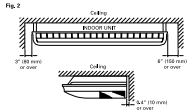
Be careful not to scratch the air conditioner when handling it.
After installation, explain correct operation to the customer, using the operating manual.
Let the customer keep this installation manual because it is used when the air conditioner is serviced or moved.

SELECTING THE MOUNTING POSITION

- WARNING**
- 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.
 - Do not install where there is the danger of concrete spalling or leakage.
 - Do not install the unit near a source of heat, steam, or flammable gas.
 - Children under 10 years old may approach the unit. Take preventive measures so that they cannot reach the unit.
- CAUTION**
- Do not install where there is the danger of concrete spalling or leakage.
 - Do not install the unit near a source of heat, steam, or flammable gas.
 - Children under 10 years old may approach the unit. Take preventive measures so that they cannot reach the unit.

Observe the mounting position with the customer as follows:

- INDOOR UNIT**
 - Install the indoor unit level on a strong wall which is not subject to vibration.
 - The side and ceiling parts should not be obstructed; the air should be able to circulate freely.
 - Do not install the unit where it will be exposed to direct sunlight.
 - Install the unit where connection to the outdoor unit is easy.
 - Install the unit where the drain pipe can be easily installed.
 - Take warning, etc. into consideration and leave the space shown in Fig. 2 or 3. Also install the unit where the filter can be removed.



STANDARD PARTS

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

INDOOR UNIT ACCESSORIES

Name and Shape	Qty	Application
Remote control unit	1	Use for air conditioner operation
Battery (single)	2	For remote control unit
Remote control unit holder	1	For mounting the remote control unit
Remote control unit holder	1	For remote control unit holder installation
Drain hose insulation	2	Adhesive tape 19 x 230
VT wire	1	For fixing the drain hose
Coupler lead insulator (large)	2	For indoor side pipe joint (large pipe)
Coupler lead insulator (small)	1	For indoor side pipe joint (small pipe)
Hydro leveler	1	For fixing the coupler lead insulator
Special nut A (large flange)	4	For installing indoor unit
Special nut B (small flange)	4	For installing indoor unit
Insulation template	1	For insulating the indoor unit
Auxiliary pipe assembly	1	For connecting the piping

OUTDOOR UNIT ACCESSORIES

Refrigerant wrench	1	For opening the refrigerant valve on the outdoor unit
Cable tie	2	For power cord binding
Tapping screw (small)	1	For fixing the valve cover
Drain pipe	1	For outdoor side drain piping work (check & Coupler (reverse) (right) (model) only)
Drain cap	2	

CONNECTION PIPE REQUIREMENT

Table 1									
<table border="1"> <thead> <tr> <th>Length</th> <th>Small</th> <th>Large</th> </tr> </thead> <tbody> <tr> <td>MAX. length (mm)</td> <td>100</td> <td>150</td> </tr> <tr> <td>MIN. length (mm)</td> <td>50</td> <td>100</td> </tr> </tbody> </table>	Length	Small	Large	MAX. length (mm)	100	150	MIN. length (mm)	50	100
Length	Small	Large							
MAX. length (mm)	100	150							
MIN. length (mm)	50	100							

- Use 22 mm or 1/2 inch thick pipe.
- Use pipe with anti-rust treatment.

ELECTRICAL REQUIREMENT

Electric wire size and fuse/breaker capacity:

Table 2									
<table border="1"> <thead> <tr> <th>Power supply cord (mm²)</th> <th>MAX.</th> <th>MIN.</th> </tr> </thead> <tbody> <tr> <td>MAX. length (mm)</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>MIN. length (mm)</td> <td>1.5</td> <td>1.5</td> </tr> </tbody> </table>	Power supply cord (mm ²)	MAX.	MIN.	MAX. length (mm)	1.5	1.5	MIN. length (mm)	1.5	1.5
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<table border="1"> <thead> <tr> <th>Fuse/breaker capacity (A)</th> <th>30</th> </tr> </thead> <tbody> <tr> <td>MAX. length (mm)</td> <td>1.5</td> </tr> <tr> <td>MIN. length (mm)</td> <td>1.5</td> </tr> </tbody> </table>	Fuse/breaker capacity (A)	30	MAX. length (mm)	1.5	MIN. length (mm)	1.5			
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MIN. length (mm)	1.5								

- Always use electrical equipment in accordance with the instructions.
- Install the disconnect device with a contact gap of at least 3 mm near the units. (Both indoor unit and outdoor unit)

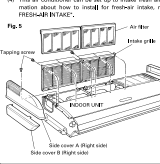
INSTALLATION PROCEDURE

For the air conditioner as follows:

1. PREPARING INDOOR UNIT INSTALLATION

REMOVE THE BYTARE GRILLE AND SIDE COVER

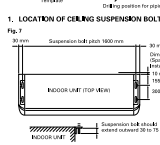
- Remove the two Air Filter (Fig. 5).
- Remove the two Brake pin (Fig. 5).
- For (L) Left side and (R) Right side: Remove Air Filter and Brake pin at three places. Refer to **INDOOR UNIT INSTALLATION**.



2. INDOOR UNIT INSTALLATION

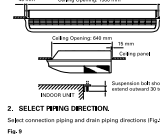
You can use the accessories provided to help you install the indoor unit. The accessories include: the appropriate position for suspension bolts and pipe openings, drain pipe and connection cords.

1. LOCATION OF CEILING SUSPENSION BOLTS



2. SELECT PIPING DIRECTION

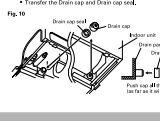
Select connection piping and drain piping directions (Fig. 6).



3. OUTDOOR UNIT INSTALLATION

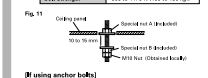
1. OUTDOOR UNIT PROCESSING

- When the outdoor unit is to be exposed to strong wind, fasten it with hold-up (shown below) by the screws (Fig. 16).
- Transfer the Drain cap and Drain pipe.



3. DRILLING THE HOLES AND ATTACHING THE SUSPENSION BOLTS

- Drill 48 mm holes at the suspension bolt locations.
- Insert the bolts, then temporarily attach Special nuts A and B and a normal M10 nut to each hole. (The two special nuts are provided with the unit. The M10 nut must be obtained locally.) Refer to Fig. 11.



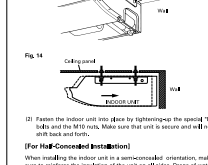
2. INSTALLING ANCHOR BOLTS

- Drill 48 mm holes for anchor bolts at the locations at which you will set the suspension bolts. Note that anchor bolts are M10 bolts to be obtained locally.
- Insert the anchor bolts, then temporarily attach Special nut "A" (indicated) and a normal M10 nut to each of the holes. (See Fig. 12)



4. INSTALLING THE INDOOR UNIT

- Use an L-shaped suspension bolt to pass through the suspension fittings at the holes that already exist in the unit base. (See Fig. 13)
- Fasten the indoor unit into place by tightening up the special "L" bolts. Make sure that unit is secure and will not wobble back and forth.



2. CONNECTING THE PIPING

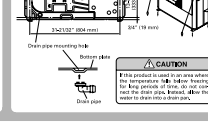
When installing the indoor unit in a semi-concealed orientation, make sure to maintain the insulation of the unit on all sides. Change of water may flow from the unit if it is not thoroughly insulated.



3. OUTDOOR UNIT INSTALLATION

1. OUTDOOR UNIT PROCESSING

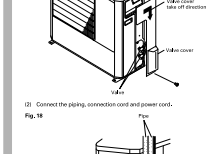
- When the outdoor unit is to be exposed to strong wind, fasten it with hold-up (shown below) by the screws (Fig. 16).
- Transfer the Drain cap and Drain pipe.



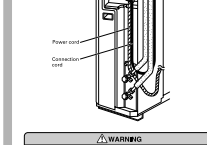
2. OUTDOOR UNIT CONNECTION CORD AND PIPING CONNECTION PREPARATIONS

1. REMOVE OUTDOOR UNIT COVER

- Remove outdoor unit valve cover.
- After removing the screws, remove valve cover.



2. CONNECT THE PIPING, CONNECTION CORD AND POWER CORD



3. CONNECTING THE PIPING

- Install the unit where it will not be tilted by more than 5°.
- When installing the outdoor unit which may be exposed to strong wind, fasten it securely.
- Set the unit on a strong base, such as one made of concrete blocks to minimize shock and vibration.
- Ground the unit directly on the ground because it is a flammable trouble.

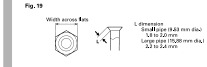
4. LIMITATION OF REFRIGERANT PIPING LENGTH

Table 3									
<table border="1"> <thead> <tr> <th>Max. length (L) (mm)</th> <th>Coupler (small)</th> <th>Heat & Coupler (reverse) (coupler)</th> </tr> </thead> <tbody> <tr> <td>MIN. length (mm)</td> <td>100</td> <td>100</td> </tr> <tr> <td>MAX. length (mm)</td> <td>150</td> <td>150</td> </tr> </tbody> </table>	Max. length (L) (mm)	Coupler (small)	Heat & Coupler (reverse) (coupler)	MIN. length (mm)	100	100	MAX. length (mm)	150	150
Max. length (L) (mm)	Coupler (small)	Heat & Coupler (reverse) (coupler)							
MIN. length (mm)	100	100							
MAX. length (mm)	150	150							

2. FLARE PROCESSING

- Cut the connection pipe with pipe cutter so that the pipe is not deformed.
- Hold the pipe downward so that outdoor cover water the pipe, remove the burrs.
- Remove the flare nut from the indoor unit pipe and outdoor unit and assemble as shown in Table 4 and insert the flare nut into the pipe and use the tapping tool.
- Check if the flare port "L" (Fig. 19) is spread uniformly and that there are no cracks.

Table 4						
<table border="1"> <thead> <tr> <th>Flare nut</th> <th>Flare nut</th> </tr> </thead> <tbody> <tr> <td>Small pipe</td> <td>Small (width across: 46.2 mm)</td> </tr> <tr> <td>Large pipe</td> <td>Large (width across: 46.2 mm)</td> </tr> </tbody> </table>	Flare nut	Flare nut	Small pipe	Small (width across: 46.2 mm)	Large pipe	Large (width across: 46.2 mm)
Flare nut	Flare nut					
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3. BENDING PIPES

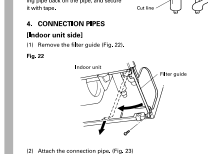
- The pipes are shaped by your hands. Be careful not to hit pipes them.
- Use the correct bending method. (See Fig. 20)



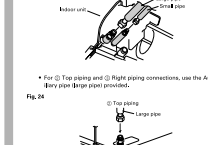
4. CONNECTION PIPES

1. REMOVE THE FILTER GUIDE (Fig. 22)

- Remove the filter guide (Fig. 22).
- Attach the connection pipe (Fig. 23)



2. ATTACH THE CONNECTION PIPE (Fig. 23)



3. BE SURE TO APPLY THE PIPE AGAINST THE PORT ON THE INDOOR UNIT CORRECTLY. IF THE CONNECTION IS INAPPROPRIATE, THE FLARE NUT CANNOT BE TIGHTENED SECURELY. IF THE FLARE NUT IS LOOSE, THE THERMALS WILL BE DAMAGED.

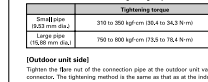
- When the flare nut is tightened properly by your hand, hold the hole side with a square wrench. Then tighten with a torque wrench (Fig. 25).
- Hold the torque wrench at its grip, keeping it to the right angle with the pipe as shown in Fig. 25, in order to tighten the flare nut correctly.



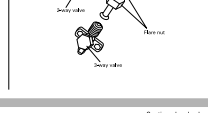
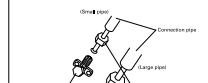
4. HOLD THE TORQUE WRENCH AT ITS GRIP, KEEPING IT TO THE RIGHT ANGLE WITH THE PIPE AS SHOWN IN FIG. 25, IN ORDER TO TIGHTEN THE FLARE NUT CORRECTLY.

Table 5					
<table border="1"> <thead> <tr> <th>Flare nut tightening torque</th> </tr> </thead> <tbody> <tr> <td>Small pipe (1/2 inch dia.)</td> <td>210 to 260 kgf-cm (15.4 to 18.3 N-m)</td> </tr> <tr> <td>Large pipe (3/4 inch dia.)</td> <td>290 to 360 kgf-cm (20.5 to 25.4 N-m)</td> </tr> </tbody> </table>	Flare nut tightening torque	Small pipe (1/2 inch dia.)	210 to 260 kgf-cm (15.4 to 18.3 N-m)	Large pipe (3/4 inch dia.)	290 to 360 kgf-cm (20.5 to 25.4 N-m)
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Small pipe (1/2 inch dia.)	210 to 260 kgf-cm (15.4 to 18.3 N-m)				
Large pipe (3/4 inch dia.)	290 to 360 kgf-cm (20.5 to 25.4 N-m)				

5. TIGHTEN THE FLARE NUT OF THE CONNECTION PIPE AT THE OUTDOOR UNIT USE CONNECTION. THE TIGHTENING METHOD IS THE SAME AS THAT AS AT THE INDOOR SIDE.



6. TIGHTEN THE FLARE NUT OF THE CONNECTION PIPE AT THE OUTDOOR UNIT USE CONNECTION. THE TIGHTENING METHOD IS THE SAME AS THAT AS AT THE INDOOR SIDE.



5

AIR PURGE

- AIR PURGE**
 - 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. 27

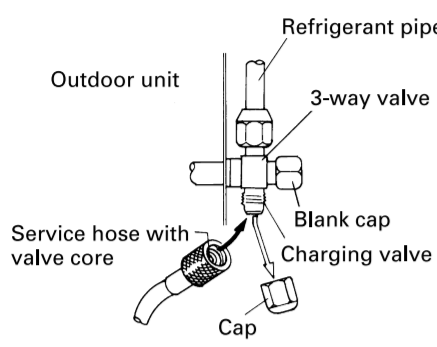
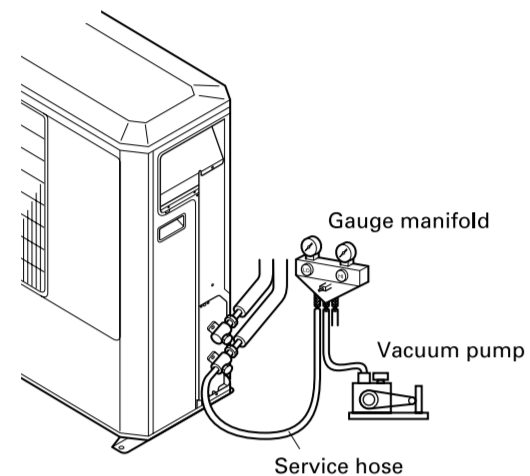


Fig. 28



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 6

Additional refrigerant	Pipe length				
	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	4.4 oz (125 g)	13.2 oz (375 g)	22.0 oz (625 g)	30.9 oz (875 g)
Cooling model	None	1.8 oz (50 g)	5.3 oz (150 g)	8.8 oz (250 g)	12.3 oz (350 g)

Between 7.5 m and 30 m, when using a connection pipe other than that in the table, charge additional refrigerant with 1.8 oz (50 g) / 3.3 ft (1 m) (Reverse cycle model), 0.7 oz (20 g) / 3.3 ft (1 m) (Cooling model) as the criteria.

CAUTION

- When moving and installing the air conditioner, do not mix 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 can not be guaranteed.

6

GAS LEAKAGE INSPECTION

CAUTION

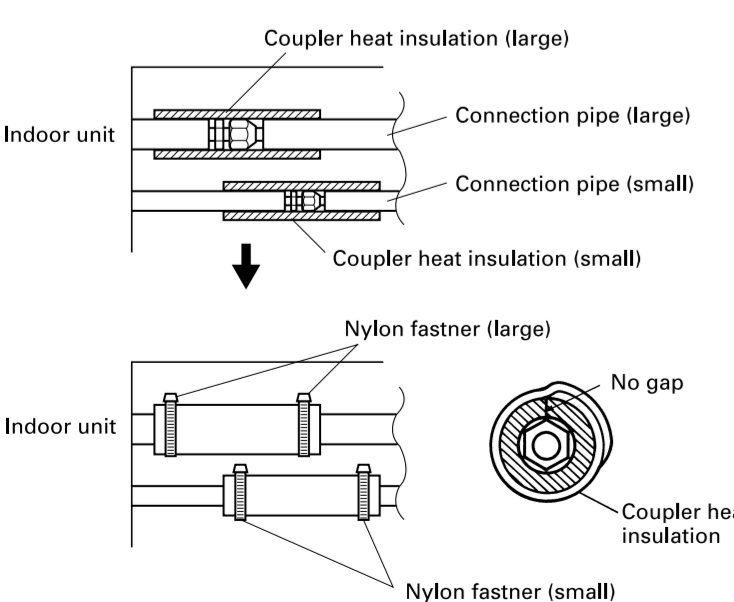
- After connecting the piping, check the joints for gas leakage with gas leak detector.

7

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.
Secure both ends of the heat insulation material using nylon fasteners.

Fig. 29



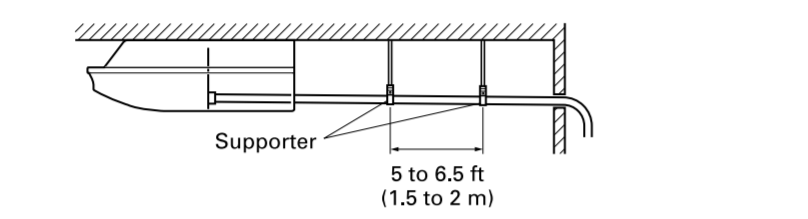
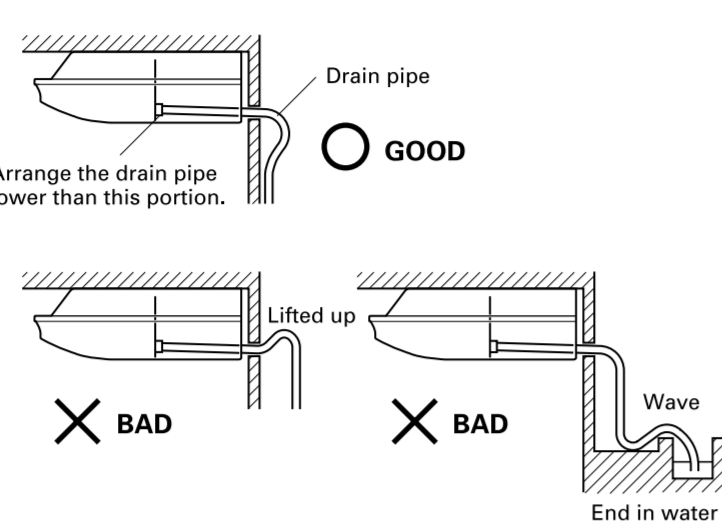
- When using an auxiliary pipe, make sure that the fastener used is insulated in the same way.

8

DRAIN PIPING

- Install the drain pipe with downward gradient (1/50 to 1/100) and so there are no rises or traps in the pipe.
- Use general hard polyvinyl chloride pipe (VP25) [outside diameter 38 mm].
- During installation of the drain pipe, be careful to avoid applying pressure to the drain port of the indoor unit.
- When the pipe is long, install supporters (Fig. 30).
- Do not perform air bleeding.
- Always heat insulate (8 mm or over thick) the indoor side of the drain pipe.

Fig. 30



- Install insulation for the drain pipe. (See Figs. 31 and 32.)
Cut the included insulation material to an appropriate size and adhere it to the pipe.

Fig. 31

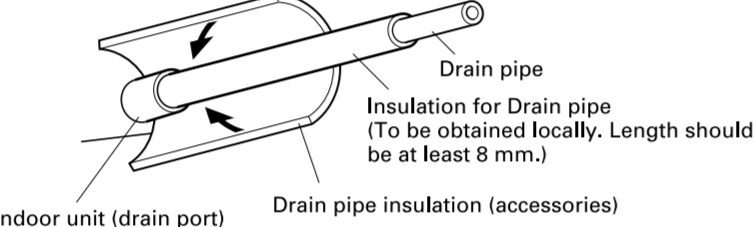
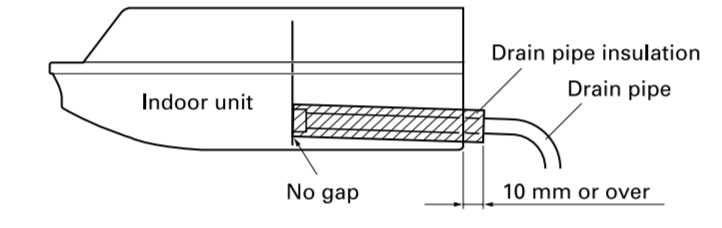
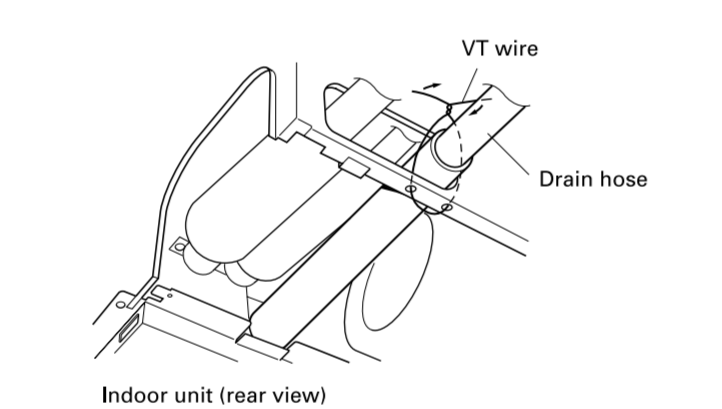


Fig. 32



- If "Right rear piping": fasten the drain pipe with VT wire so that the pipe slopes correctly within the indoor unit. (Fig. 33)

Fig. 33



9

ELECTRICAL WIRING

HOW TO CONNECT WIRING TO THE TERMINALS

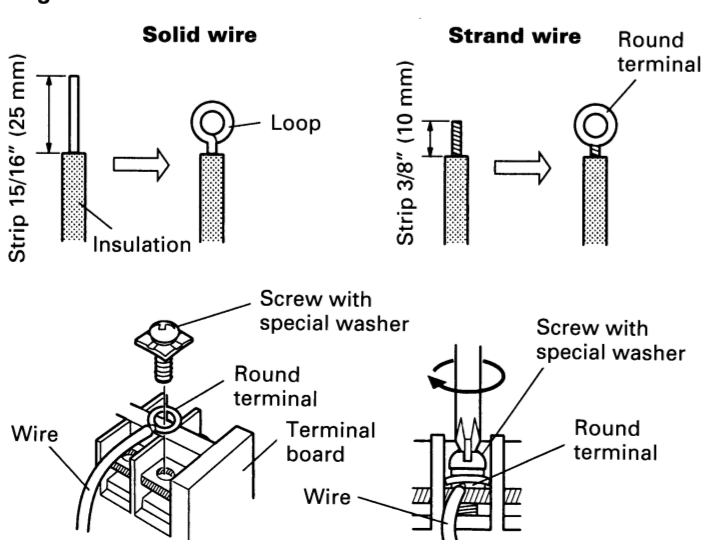
A. For solid core wiring (or F-cable)

- Cut the wire and 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 and 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.

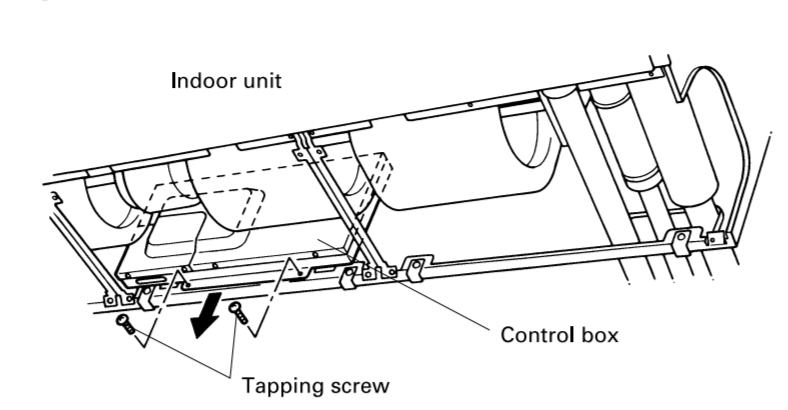
Fig. 34



1. INDOOR UNIT SIDE

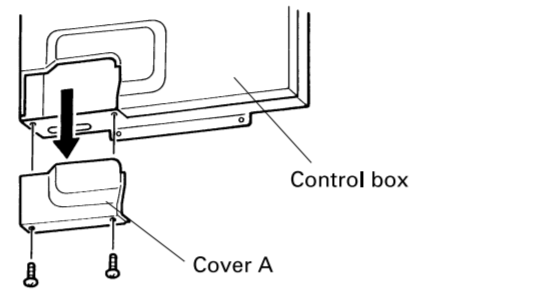
- Remove the two tapping screws and pull the control box downward. (Fig. 35)

Fig. 35



- Remove the Cover A and install the Connection cord (Fig. 36 and 37)
- After wiring is complete, clamp the Connection cord with the Cord clamp. (Fig. 37)
- Reattach Cover A. Then fasten the control box back into its original position using the two tapping screws.
- Attach the connection cord and cable clips. Make sure that they are positioned so that they will not interfere with opening and closing of the intake grille or with removal and installation of the air filters. (Fig. 37)

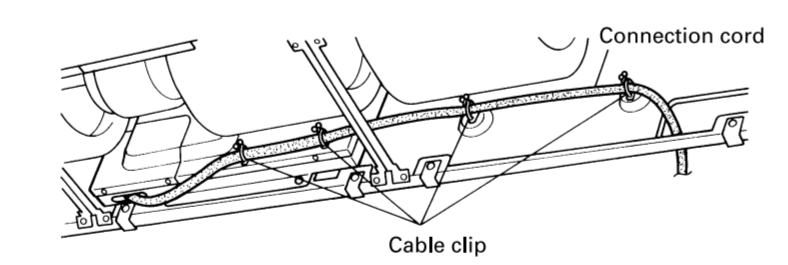
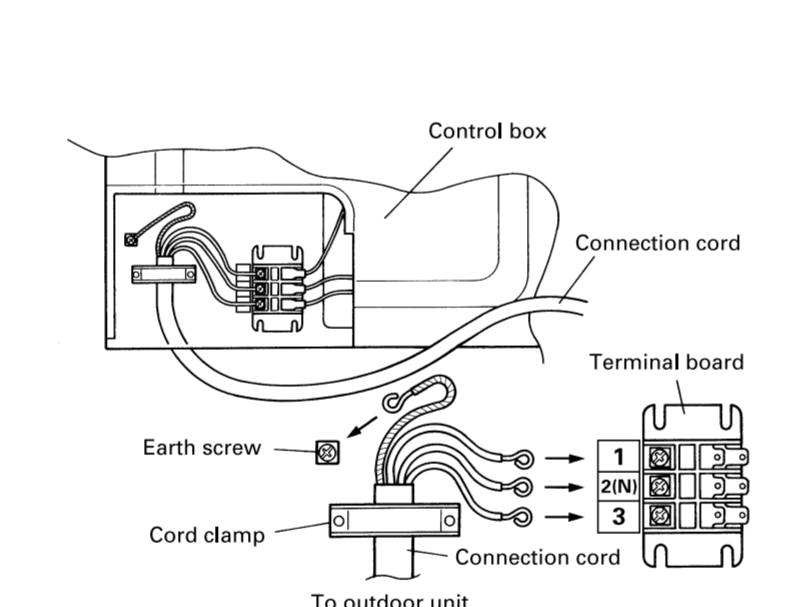
Fig. 36



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 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.

Fig. 37



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 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.

CAUTION

- Use 1.0 mm² to 1.5 mm² H07RN-F or equivalent as the connection cord.
- Select power cable matched to the fuse capacity. (Install in accordance with standard.)
- Use VW-1, 12 mm diameter, 0.5 to 1.0 mm thick, PVC tube as the insulation tube.

- Remove outdoor unit valve cover and connect the power cord and the outdoor unit connection cord wired at the indoor unit.
- Fasten the sheath with a cord clamp.
- Fasten the power cord and connection cord with cable clip and binders as shown in (Fig. 40).

Fig. 38

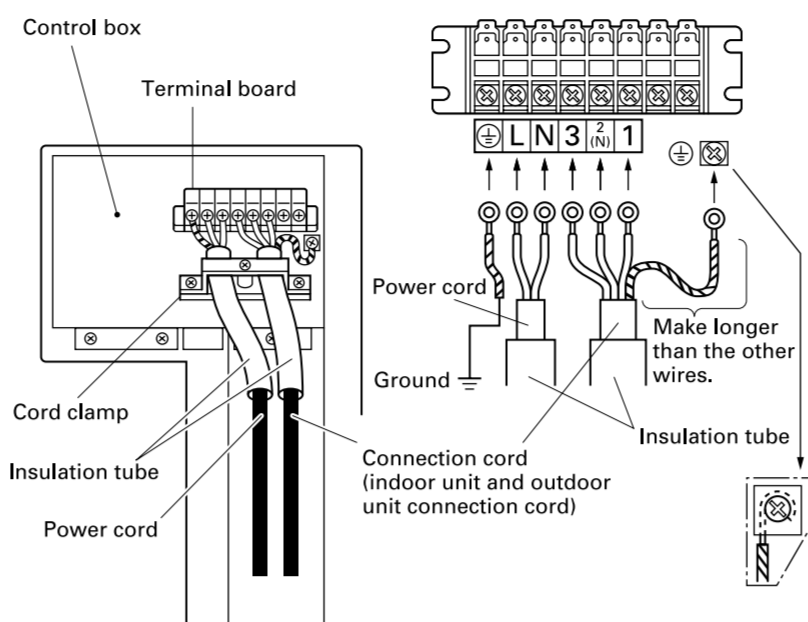


Fig. 39

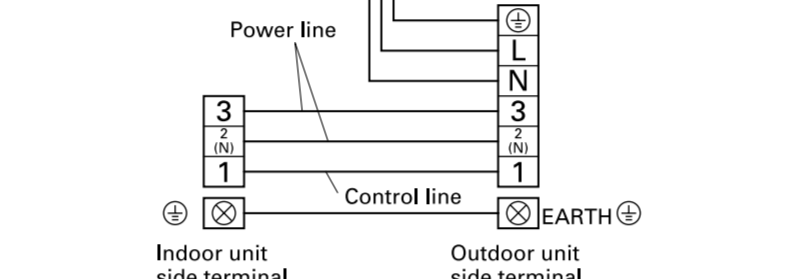
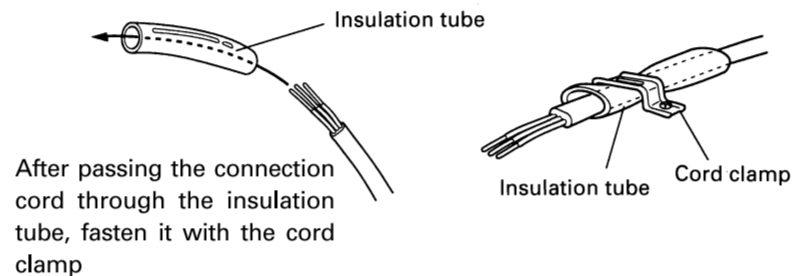


Fig. 40



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

Fig. 41

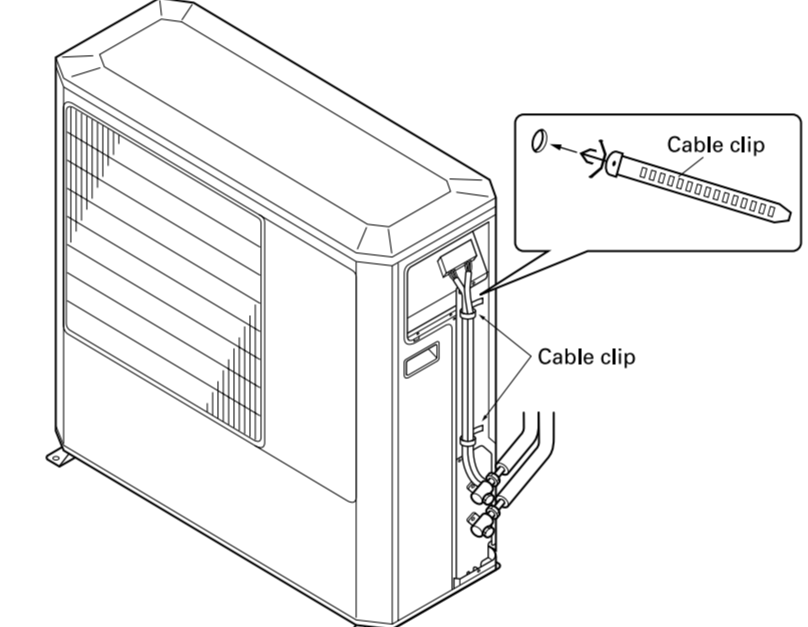
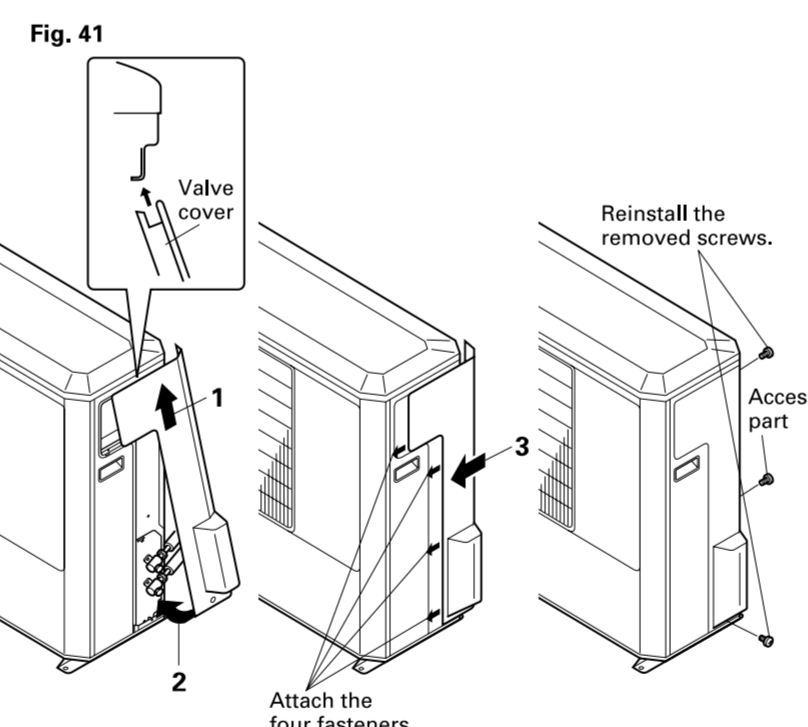


Fig. 42



10

POWER

WARNING

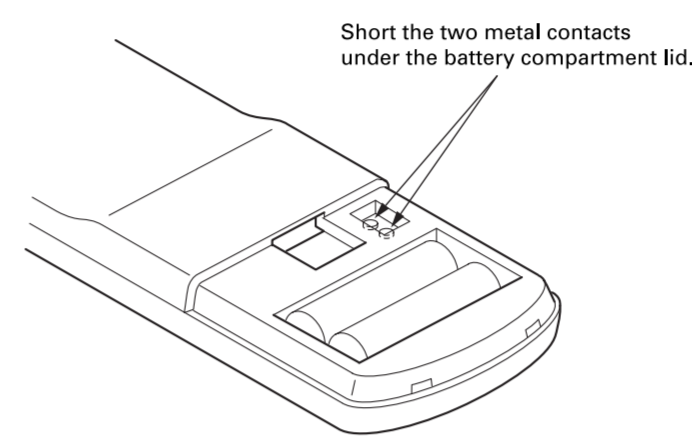
- The rated voltage of this product is 220-240V AC 50Hz.
- Before turning on verify that the voltage is within the 198V to 264V range.
- Always use a special branch circuit and install a special receptacle to supply power to the air conditioner.
- Use a special branch circuit breaker and receptacle matched to the capacity of the air conditioner. (Fuse/Breaker capacity: 30 A)
- The special branch 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 3mm 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 special branch circuit breaker in accordance with the related laws and regulations and electric company standards.

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.)

1. INDOOR UNIT

- Is operation of each button on the remote control unit normal?
- Does each lamp light normally?
- Do not air flow direction flap and louvers operate normally?
- Is the drain normal?

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?

12

FINISHING

- Install the filter guide.
- Install the intake grille.
- Install side covers A and B (if the unit is installed in a half-concealed orientation, only install side cover A).
- Install the air filters.

13

CUSTOMER GUIDANCE

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

- Starting and stopping method, operation switching, temperature adjustment, timer, air flow adjustment, and other remote control unit operations.
- Air filter removal and cleaning.
- Give the operating and installation manuals to the customer.
- If the signal code is changed, explain to the customer how it changed (the system returns to signal code A when the batteries in the remote control unit are replaced).

14

REMOTE CONTROL UNIT INSTALLATION

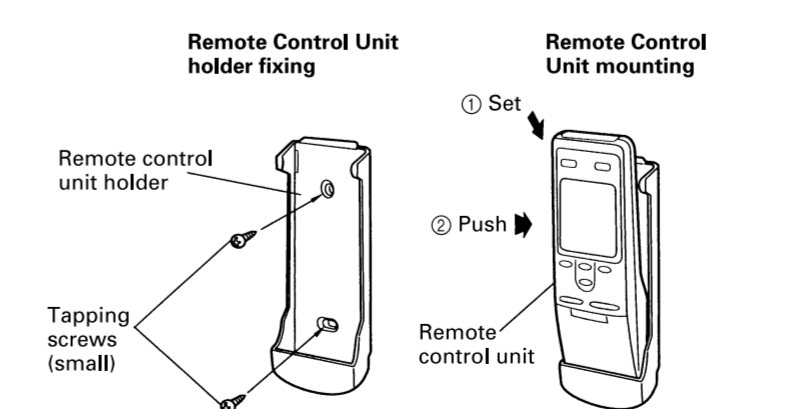
CAUTION

- 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 or pillar with the tapping screws.

Fig. 43



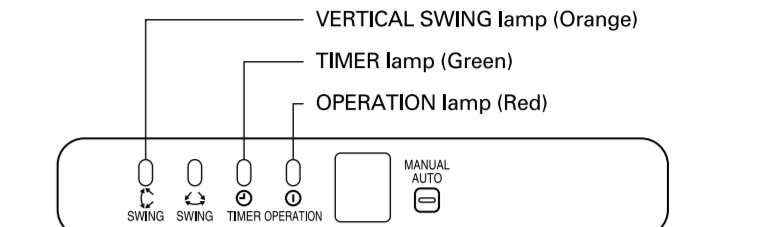
16

A ERROR DISPLAY

1. INDOOR UNIT

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

Fig. 51



Test running

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

Error

The OPERATION, TIMER and VERTICAL SWING lamps operate as follows (Table 8) according to the error contents.

Table 8

Error contents	OPERATION lamp (RED)	TIMER lamp (GREEN)	SWING lamp (ORANGE)
Indoor EEPROM abnormal	○	○	×
Outdoor EEPROM abnormal	○	○	○
Indoor room temperature sensor open	(2 times) ●	○	×
Indoor room temperature sensor shortcircuited	(2 times) ●	○	○
Indoor heat exchanger temperature sensor open	(3 times) ●	○	×
Indoor heat exchanger temperature sensor shortcircuited	(3 times) ●	○	○
Float switch operated	(4 times) ●	○	×
Indoor signal abnormal	(5 times) ●	○	×
Outdoor signal abnormal	(5 times) ●	○	○
Indoor fan abnormal	(6 times) ●	○	×
Outdoor power source connection abnormal	○	(2 times) ●	×
Outdoor heat exchanger temperature sensor open	○	(3 times) ●	×
Outdoor heat exchanger temperature sensor shortcircuited	○	(3 times) ●	○
Outdoor temperature sensor open	○	(4 times) ●	×
Outdoor temperature sensor shortcircuited	○	(4 times) ●	○
Outdoor discharge pipe temperature sensor open	○	(5 times) ●	×
Outdoor discharge pipe temperature sensor shortcircuited	○	(5 times) ●	○
Outdoor high pressure abnormal	○	(6 times) ●	×
Outdoor discharge pipe temperature abnormal	○	(7 times) ●	×

○ : 0.1s ON/0.1s OFF (flash) × : OFF
● : 0.5s ON/0.5s OFF (flash)

2. OUTDOOR UNIT HEAT & COOL (REVERSE CYCLE) MODEL ONLY

Error

The LED lamps operate as follows (Table 9) according to the error contents.

Table 9

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

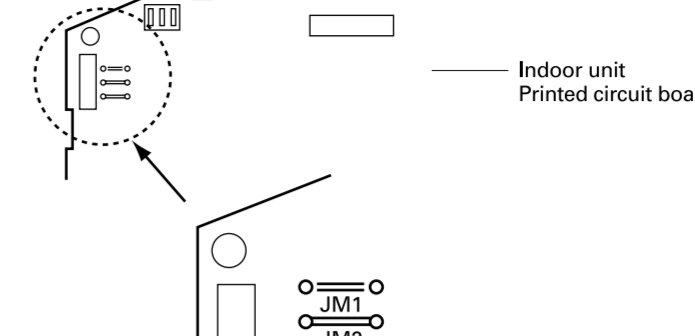
When the fault is cleared, the LED lamp goes off. However, for discharge pipe temperature abnormal and high pressure abnormal, the LED lamp lights continuously for 24 hours, as long as the power is not turned off.

15

FRESH-AIR INTAKE

- Open up the knockout hole for the fresh-air intake, as shown in Fig. 48. (If using half-concealed installation, open up the top knockout hole instead.)

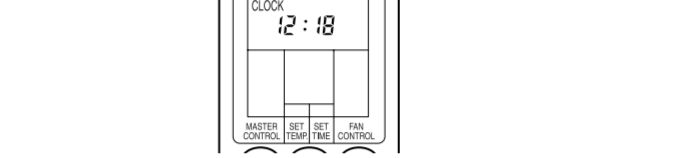
Fig. 48



- Remote control unit settings

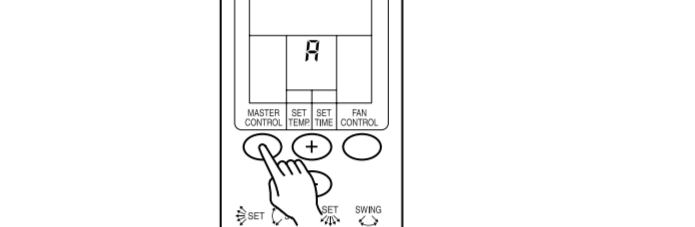
- Press the START/STOP button and display only the clock.

Fig. 45



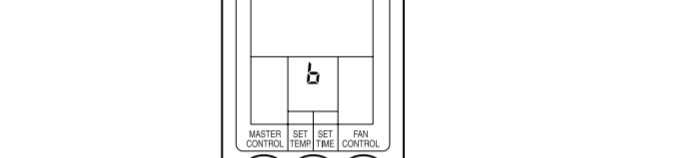
- Press the MASTER CONTROL button continuously for more than five seconds to display the current signal code.

Fig. 46



- Change the signal code with the button (A-b-c-d).

Fig. 47



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

Confirm the remote control unit signal selector switch selection and printed circuit board setting. If these are not confirmed, the remote control unit cannot be operated for the air conditioner.

Table 7

Jumper wire	JM 2	JM 3	Remote control unit signal selector switch
Connect	Connect	A (Primary setting)	
Connect	Disconnect	B	
Disconnect	Connect	C	
Disconnect	Disconnect	D	

15

FRESH-AIR INTAKE

- Open up the knockout hole for the fresh-air intake, as shown in Fig. 48. (If using half-concealed installation, open up the top knockout hole instead.)

Fig. 48

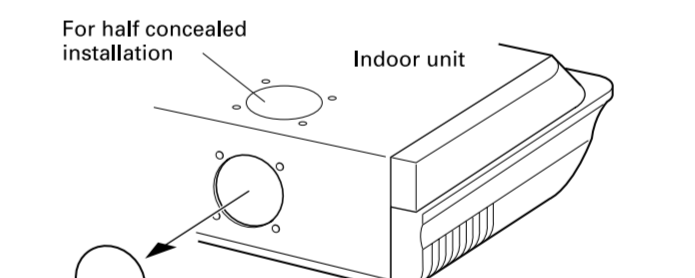


Fig. 49

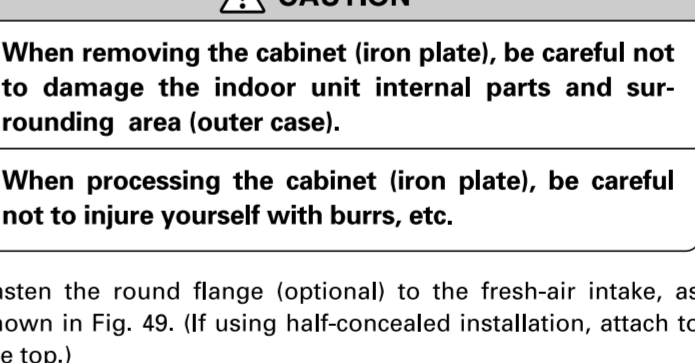


Fig. 49

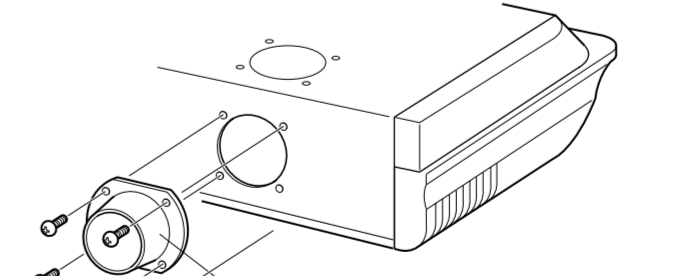


Fig. 49

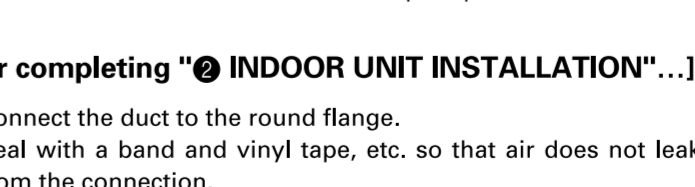


Fig. 49

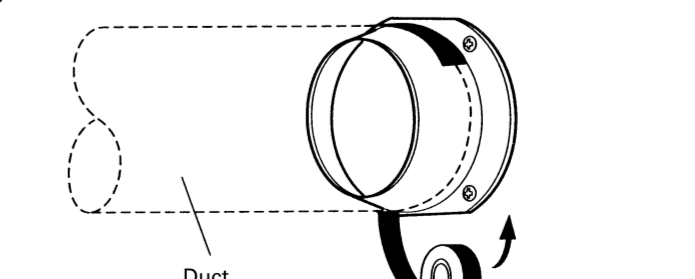


Fig. 49