

SPLIT TYPE AIR CONDITIONER Ceiling Suspension Type INSTALLATION MANUAL

(PART NO. 9360461018-03)
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 in a place that can withstand the weight of the indoor and outdoor units and install positively so that the units will not rattle or fall.
 - Do not install the unit near a source of heat, steam, or flammable gas.
 - If children under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit.

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

- OUTDOOR UNIT**
- If possible, do not install the unit where it will be exposed to direct sunlight. If necessary, install a blind that does not obstruct with the air flow.
 - Do not install the unit where a strong wind blows or where it is very dusty.
 - Do not install the unit where people pass.
 - Take your neighbors into consideration so that they are not disturbed by air blowing into their windows or by noise.
 - Provide the space shown in Fig. 4 so that the rear of the unit is not blocked. Also, for efficient operation, leave open space at the four directions from rear, and both sides.

Fig. 4

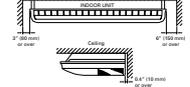


Fig. 1

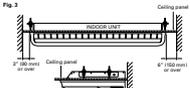


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

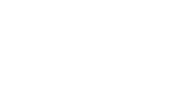


Fig. 11

STANDARD PARTS

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

Name and Shape	Qty	Application
Remote control unit	1	Use for air conditioner operation
Battery (penlight)	4	For remote control unit
Remote control unit holder	1	For mounting the remote control unit
Adhesive tape (4x12)	3	For remote control unit holder installation
Drain hose insulation	1	Adhesive tape 70 x 230
VT wire	1	For fixing the drain hose to a 200 mm
Coupler heat insulator (large)	2	For indoor side pipe joint large pipe
Coupler heat insulator (small)	1	For indoor side pipe joint small pipe
Nylon fastener	1	For fixing the coupler heat insulator
Special nut A (large flange)	4	For installing indoor unit
Special nut B (small flange)	4	For installing indoor unit
Installation template	1	For positioning the indoor unit
Auxiliary pipe assembly	1	For connecting the piping

OUTDOOR UNIT ACCESSORIES

Flower cap	1	For power cord installation
Auxiliary pipe assembly	1	For connecting the piping
Edge cover	1	For edge protection
Tapping screw	2	For cabinet A and cabinet D mounting (1) Spare 1)
Bracket	1	For power supply cord binding
Putty	1	For outdoor side pipe joint
Coupler heat insulation	1	For outdoor side pipe joint
Pipe clamp	2	For outdoor unit drain piping work (may not be supplied, depending on the model)
Flexible tube	1	For outdoor unit drain piping work (may not be supplied, depending on the model)
Cap (short)	1	For outdoor unit drain piping work (may not be supplied, depending on the model)

CONNECTION PIPE REQUIREMENT

Size	Length	Maximum length (without insulation and support)	Maximum length (with insulation and support)
Small	3/8"	34'	164 ft (50 m)
Large	1/2"	34'	99 ft (30 m)

- Use 0.7 mm to 1.2 mm thick pipe.
- Use pipe with water-resistant heat insulation.

ELECTRICAL REQUIREMENT

Electric wire size and fuse/breaker capacity:

Power supply cord (mm ²)	MAX.	MIN.
Power supply cord (mm ²)	2.0	1.5
Connection cord (mm ²)	1.5	1.0
Fuse/breaker capacity (A)	20	15

- Always use HETN/F or equivalent as the cord.
- Install the disconnect device with a contact gap of at least 3 mm nearby the units. Each indoor unit and outdoor unit.

INSTALLATION PROCEDURE

Install the air conditioner as follows:

1. PREPARING INDOOR UNIT INSTALLATION

REMOVE THE INTAKE GRILLE AND SIDE COVER

- Remove the two floor grilles (Fig. 5).
- Remove the two intake grilles (Fig. 5).
- Remove the Side cover A (Right side) and Side cover B (Left side).
- Remove the Side cover A (Right side) and Side cover B (Left side).

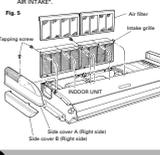


Fig. 5

2. INDOOR UNIT INSTALLATION

You can use the necessary template to help you install the indoor unit. The template helps you determine the appropriate locations for suspension bolts and pipe openings (drain pipe and connection cord).

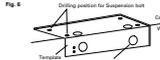


Fig. 6

1. LOCATION OF CEILING SUSPENSION BOLTS

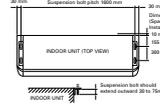


Fig. 7

[For Half-Concealed Installation]

- Suspension bolt pitch should be as shown in Fig. 7.

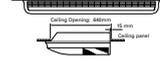


Fig. 8

2. SELECT PIPING DIRECTION

Select connection piping and drain piping directions (Fig. 9).



Fig. 9

[For Left rear piping, Left piping]

- Transfer the Drain cap and Drain cap seal.

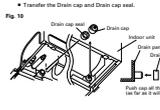


Fig. 10

3. DRILLING THE HOLES AND ATTACHING THE SUSPENSION BOLTS

- Drill 42mm holes at the suspension-bolt locations.
- Install the bolts, then temporarily attach Special nuts A, B and a normal M10 nut to each bolt. (The two special nuts are provided with the unit. The M10 nut must be obtained locally.) Refer to Fig. 11.

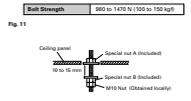


Fig. 11

[If using anchor bolts]

- Drill holes for anchor bolts at the locations at which you will use the suspension bolts. Note that anchor bolts use M10 bolts to be obtained locally.
- Install the anchor bolts, then temporarily attach special nut "B" (included) and a locally procured M10 nut to each of the bolts. (See Fig. 12.)

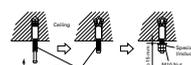


Fig. 12

4. INSTALLING THE INDOOR UNIT

- Lift unit so that suspension bolts pass through the suspension rings at the outer floor plates, and slide the unit back. (See Fig. 13.)

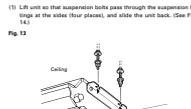


Fig. 13

[For Half-Concealed Installation]

- Use the necessary items as follows only.

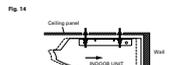


Fig. 14

[For Half-Concealed Installation]

- When installing the indoor unit in a semi-concealed orientation, make sure to reinforce the reaction of the unit on all sides. Drop of water may fall from the unit if it is not thoroughly installed.



Fig. 15

4. CONNECTING THE PIPING

1. FLARE PROCESSING

- Use the connection pipe with pipe cutters so that the pipe is not deformed.
- Hold the pipe downward so that cuttings cannot enter the pipe, remove the burrs.
- Remove the flare nut from the indoor unit pipe and outdoor unit and assemble as shown in (Table 3) and insert the flare nut onto the pipe, and flare with a flare ring.
- Check if the flare part "L" (Fig. 21) is spread uniformly and that there are no cracks.

[Outdoor unit side]

- Turn the flare part of the connection pipe at the outdoor unit value connector. The tightening method is the same as that at the indoor side.
- Deal with the assembly points so that water does not enter at the top of the pipe insulation installed to the connection pipe (large pipe and small pipe).

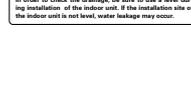


Fig. 20

2. BENDING PIPES

- The pipes are shaped by your hands, be careful not to collapse them.

[Indoor unit side]

- When bending the pipe, do not bend it in a sharp angle less than 90°.
- If it is in a sharp angle, bend and straighten repeatedly, the material will be hardened, causing the pipe to kink or cracked. Be sure to limit the number of bending and straightening to three times.
- When bending the pipe, do not bend it in a sharp angle less than 90°.
- If it is in a sharp angle, bend and straighten repeatedly, the material will be hardened, causing the pipe to kink or cracked. Be sure to limit the number of bending and straightening to three times.



Fig. 21

3. CONNECTION PIPES

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

OUTDOOR UNIT INSTALLATION

1. OUTDOOR UNIT PROCESSING

- When the outdoor unit will be exposed to strong wind, fasten it with bolts or wires at the four places indicated by the arrows. (Fig. 16)
- Close the drain water flare nut of the outdoor unit using flange operation, install the drain pipe and connect it to a commercial 1/2 inch hose. (When heating when the outdoor temperature is 0°C or less, connect so that drain water drained from the outdoor unit will not freeze in the drain pipe. (Reverse cycle model only).)
- When installing the drain pipe, plug of the holes other than the drain pipe mounting hole in the bottom of the outdoor unit with putty so there is no water leakage. (Fig. 16) (Reverse cycle model only.)

Fig. 16

2. OUTDOOR UNIT CONNECTION CORD AND PIPE CONNECTION PREPARATION

- Piping and connection cord mounting direction (4-way connection).

Fig. 17

3. CONNECTION PIPES

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

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[Indoor unit side]

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[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

[Outdoor unit side]

- Remove the filter guide (Fig. 26).

[Indoor unit side]

- Remove the filter guide (Fig. 26).

5

VACUUMING AND ADDITIONAL CHARGE

1. VACUUM

- Vacuum inside the indoor unit and the piping to a pressure of 1.5 mmHg abs or less from the charging valve with a vacuum pump.
- After vacuuming inside the indoor unit and the piping, remove the cap of the two valves.
- Open the handle of the two valves from the closed state (Table 6).
- Tighten the cap of the two valves to the specified torque.

Table 5

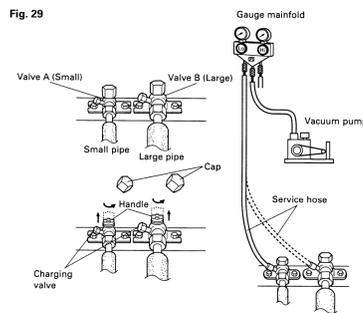
	Tightening torque	
	Large valve	Small valve
Handle	15 kgf·cm (1.47 N·m) or less	
Cap	150 to 200 kgf·cm (14.7 to 19.6 N·m)	

Table 6

Open valve state	Closed valve state

* If the handle is not fully open, performance will drop and an abnormal sound will be generated.

Fig. 29



2. ADDITIONAL CHARGE

Refrigerant suitable for a piping length of 5 m [36,000 BTU class (Cooling model)] or 20 m for other models is charged in the outdoor unit at the factory. When the piping is longer than 5 m [36,000 BTU class (Cooling model)] or 20 m for other models, additional charging is necessary. For the additional amount, see the table below.

Table 7

Pipe length Model type	33 ft (10 m)		66 ft (20 m)		99 ft (30 m)		132 ft (40 m)		164 ft (50 m)		oz/ft (g/m)
	Cooling model	Reverse cycle model	Cooling model	Reverse cycle model	Cooling model	Reverse cycle model	Cooling model	Reverse cycle model	Cooling model	Reverse cycle model	
36,000 BTU class	4.8 oz (135 g)	None	14.3 oz (405 g)	23.8 oz (675 g)	33.3 oz (945 g)	42.9 oz (1215 g)	0.95oz/3.3 ft (27 g/m)				
45,000 BTU class	None	None	14.1 oz (400 g)	28.2 oz (800 g)	42.3 oz (1200 g)		1.41oz/3.3 ft (40 g/m)				
54,000 BTU class	None	None	17.6 oz (500 g)	35.2 oz (1000 g)	52.8 oz (1500 g)		1.76oz/3.3 ft (50 g/m)				

CAUTION

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

6

GAS LEAKAGE INSPECTION

CAUTION

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

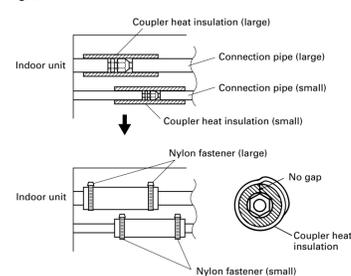
7

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. 30



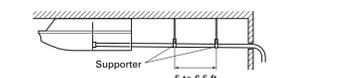
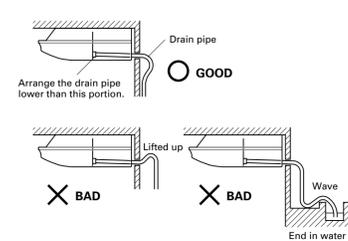
- When using an auxiliary pipe, make sure that the fastener used is insulated in the same way.

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. 31).
- Do not perform air bleeding.
- Always heat insulate (8mm or over thick) the indoor side of the drain pipe.

Fig. 31



- Install insulation for the drain pipe. (See Figs. 32 and 33.) Cut the included insulation material to an appropriate size and adhere it to the pipe.

Fig. 32

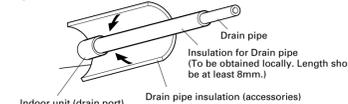


Fig. 33

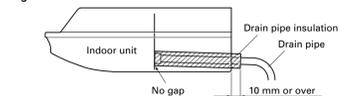
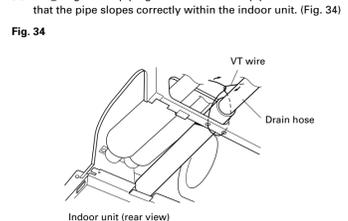


Fig. 34



9

ELECTRICAL WIRING

HOW TO CONNECT WIRING TO THE TERMINALS

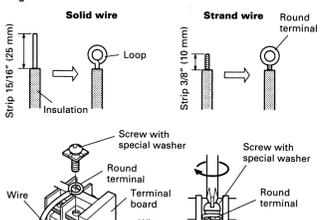
A. For solid core wiring (or F-cable)

- 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.

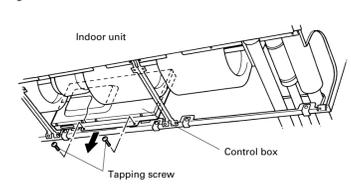
Fig. 35



1. INDOOR UNIT SIDE

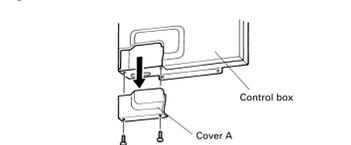
- Remove the two tapping screws and pull the control box downward. (Fig. 36)

Fig. 36



- Remove the Cover A and install the Connection cord (Fig.37)
- After wiring is complete, clamp the Connection cord with the Cord clamp (Fig.38)
- 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. 38)

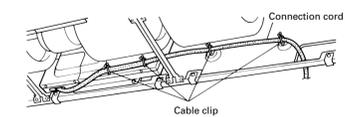
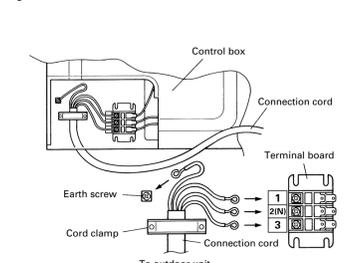
Fig. 37



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. 38



2. OUTDOOR UNIT SIDE

- Remove outdoor unit cabinet A and connect the power cord and the outdoor unit connection cord wired at the indoor unit.
- Fasten the power cord and connection cord with cable clip and binders as shown in (Fig. 40)

WARNING

- Before starting work, check that power is not being supplied to the outdoor unit.
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Fig. 39

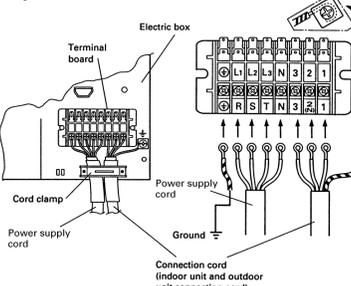


Fig. 40

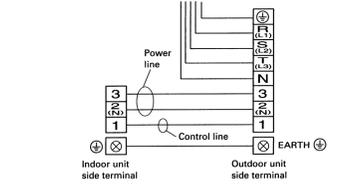
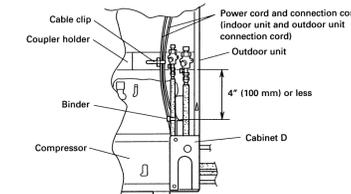


Fig. 40



10

POWER

WARNING

- The rated voltage of this product is 3ø4W 380-415V 50Hz.
- Before turning on verify that the voltage is within the 342V to 457V 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 : 20 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.

CAUTION

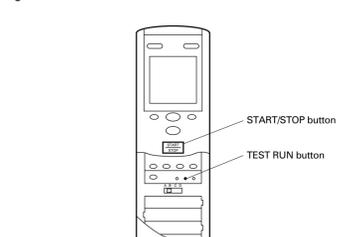
When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage raised.

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, press the TEST RUN button while the air conditioner is running. (With the transmit section of the remote control unit facing the power, press the TEST RUN button with the tip of a ball point pen.)

Fig. 41



- 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 grills.
- 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.

14

REMOTE CONTROL UNIT INSTALLATION

CAUTION

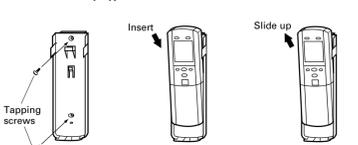
- Check that the indoor unit correctly receives the signal from the remote control unit, then install the remote control unit holder.
- Select the remote control unit holder selection site by paying careful attention to the following: Avoid places in direct sunlight. Select a place that will not be affected by the heat from a stove, etc.

1. REMOTE CONTROL UNIT HOLDER INSTALLATION

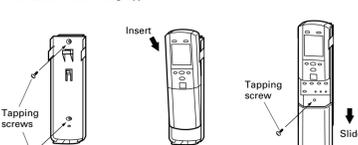
Install the remote control unit holder to a wall or pillar with the tapping screws.

Fig. 42

For use as Handy Type



For use as Wall Fixing Type



2. REMOTE CONTROL UNIT CODE SWITCHING

Fig. 43

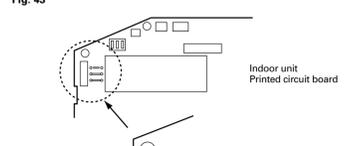
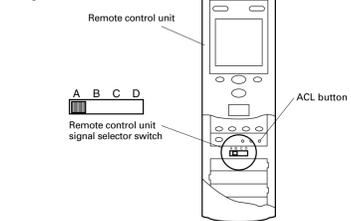


Fig. 44



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 8

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

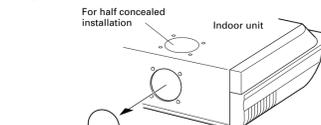
After setting the remote control unit signal selector switch, press the ACL button.

15

FRESH-AIR INTAKE

- Open up the knockout hole for the fresh-air intake, as shown in Fig. 45. (If using half-concealed installation, open up the top knockout hole instead.)

Fig. 45

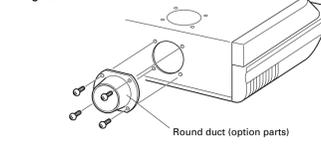


CAUTION

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

- Fasten the round flange (optional) to the fresh-air intake, as shown in Fig. 46. (If using half-concealed installation, attach to the top.)

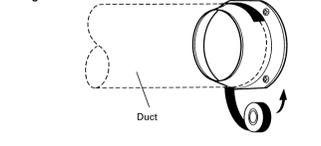
Fig. 46



[After completing "INDOOR UNIT INSTALLATION" ...]

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

Fig. 47



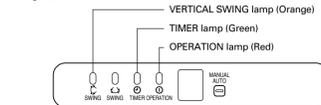
16

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. 48



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 9) according to the error contents.

Error display			Error contents
OPERATION lamp	TIMER lamp	VERTICAL SWING lamp	
Blinks	Blinks	Goes off	Model information abnormal (permanent type)
Pulses 4 times	Blinks	Goes off	Drain abnormal (permanent type)
Pulses 6 times	Blinks	Goes off	Indoor fan abnormal
Pulses 2 times	Blinks	Goes off	Room air temperature thermistor open circuit
Pulses 3 times	Blinks	Blinks	Room air temperature thermistor short circuit
Pulses 5 times	Blinks	Goes off	Piping thermistor open circuit
Pulses 3 times	Blinks	Blinks	Piping thermistor short circuit
Pulses 5 times	Blinks	Goes off	Serial communications abnormal
Blinks	Pulses 2 times	Goes off	Reverse phase wire connection abnormal
Blinks	Pulses 3 times	Goes off	Outdoor heat exchange thermistor open circuit
Blinks	Pulses 3 times	Blinks	Outdoor heat exchange thermistor short circuit
Blinks	Pulses 6 times	Goes off	High pressure abnormal
Blinks	Pulses 5 times	Goes off	Outdoor discharge thermistor open circuit
Blinks	Pulses 5 times	Blinks	Outdoor discharge thermistor short circuit
Blinks	Pulses 7 times	Goes off	Discharge temperature abnormal
Blinks	Pulses 4 times	Goes off	Outdoor air temperature thermistor open circuit
Blinks	Pulses 4 times	Blinks	Outdoor air temperature thermistor short circuit

2. OUTDOOR UNIT

Error

The LED lamps operate as follows (Table 10) according to the error contents.

Table 10

Error display		Error contents
ON	Lighting continue	
ON	Puls 1 time repeated	Outdoor heat exchanger temperature sensor abnormal
ON	Pulses 2 times repeated	Outdoor temperature sensor abnormal
ON	Pulses 3 times repeated	Discharge pipe temperature sensor abnormal
ON	Lighting continue	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.