

SPLIT TYPE ROOM AIR CONDITIONER INSTALLATION INSTRUCTION SHEET

(PART NO. 9374872053-02)

CAUTION
R410A REFRIGERANT
This air conditioner uses R410A refrigerant. R410A is a non-flammable, non-toxic, non-ozone depleting refrigerant. However, it is a high pressure refrigerant. Therefore, it is necessary to observe the safety precautions when handling R410A. For more information, refer to the safety precautions in the R410A safety data sheet.

This air conditioner uses new refrigerant R410A.
The basic installation work procedures are the same as conventional refrigerant models.
Especially, when replacing a conventional refrigerant model with a new refrigerant R410A model, always replace the installation piping and flare nuts with the R410A piping and flare nuts.
Models that use refrigerant R410A have a different charging port thread diameter to prevent erroneous charging with conventional refrigerant and for safety. Therefore, check beforehand. (The charging port thread diameter for R410A is 1/2" NPT (male per inch).)
Be more careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant models. Also, when starting the piping, securely seal the opening by pinching, taping, etc.
When charging the refrigerant, take care to avoid the slight change in the composition of the gas and liquid phases, and always charge from the liquid phase side whose composition is stable.

Special tools for R410A

Tool name	Contents of usage
Charge manifold	Pressure is high and cannot be measured with conventional gauge. To prevent erroneous loading of other refrigerant, the diameter of each port has been changed. Use a recommended gauge with each: <1 to 1.3 MPa> (10 to 13 kgf/cm ²) for high pressure, <1 to 1.3 MPa> (10 to 13 kgf/cm ²) for low pressure.
Charge hose	Use a recommended charge hose with each: <1 to 1.3 MPa> (10 to 13 kgf/cm ²) for high pressure, <1 to 1.3 MPa> (10 to 13 kgf/cm ²) for low pressure.
Gas welding pipe	Use a recommended gas welding pipe with each: <1 to 1.3 MPa> (10 to 13 kgf/cm ²) for high pressure, <1 to 1.3 MPa> (10 to 13 kgf/cm ²) for low pressure.

Copper pipes

Thickness of Annelated Copper Pipes (R410A)

Pipe outside diameter	Thickness
6.35 mm (1/4")	0.50 mm
9.52 mm (3/8")	0.80 mm
12.70 mm (1/2")	1.00 mm
15.88 mm (5/8")	1.00 mm
19.05 mm (3/4")	1.50 mm

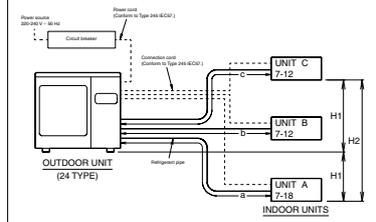
- WARNING**
- Do not use the existing for conventional refrigerant piping and flare nuts.
 - When installing and recharging the air conditioner, do not mix gases other than the specified refrigerant (R410A) to enter the refrigerant cycle.
 - If oil or other gas enters the refrigerant cycle, the pressure inside the cycle will rise to an abnormally high value and cause leakage, etc.
- DANGER**
- Never touch electrical components immediately after the power supply has been turned off. Electrical shock may occur. After turning off the power, always wait 3 minutes or more before touching electrical components.
- WARNING**
- For the room 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 standards parts. This installation instruction sheet describes the correct connection using the installation set available from our standard parts.
 - Installation work must be performed in accordance with national wiring standards by authorized personnel only.
 - Also, do not use an extension cord.
 - Do not turn on the power until installation work is complete.
 - Do not purge the air with refrigerants but use a vacuum pump to vacuum the installation.
 - There is not extra refrigerant in the outdoor unit for air purging.
 - Use a vacuum pump for R410A exclusively.
 - Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.
 - Use a clean gauge manifold and charging hose for R410A exclusively.
 - 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.
- BE CAREFUL NOT TO SCRATCH THE ROOM AIR CONDITIONER WHEN HANDLING IT.**
- After installation, explain correct operation to the customer, using the operating manual.
 - Let the customer keep this installation instruction sheet because it is used when the room air conditioner is serviced or moved.

STANDARD PARTS

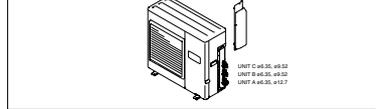
Name and Shape	Qty	Use
Chain pipe	1	For indoor unit drain pipe (R410A model) (Refrigerant cycle only)
Chain cap	2	For indoor unit
Flare nut	1	For use when connecting part B
Adapter ring	1	For use when connecting part B

SYSTEM LAYOUT

Layout example for the indoor units and outdoor unit

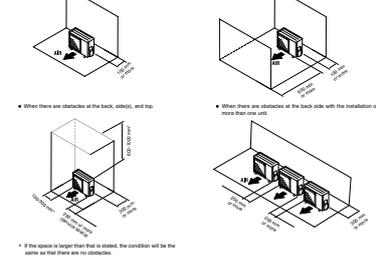


- 1. CONNECTABLE INDOOR UNIT CAPACITY TYPE**
- CAUTION**
- The total capacity of the indoor units connected must be between 14,000 and 36,000 BTU (refer to the Table).
 - Maximum connection of three indoor units: 18,000-36,000 BTU
 - If the total capacity of the connected indoor units exceeds 36,000 BTU, an error will be displayed and the units will not operate. (For information on error displays, refer to the installation instruction sheet included with the indoor unit).
- | Outdoor part | Connectable indoor name |
|--------------------|-------------------------|
| Standard part size | 7-12 |
| A 6,550.52 | 7-12 |
| B 6,550.52 | 7-12 |
| A 6,550.52 | 7-12 1/4 |
- Note: When connecting models 7-12 to the outdoor unit, the included adapter is necessary. (For more information, refer to HOW TO USE ADAPTER.)*



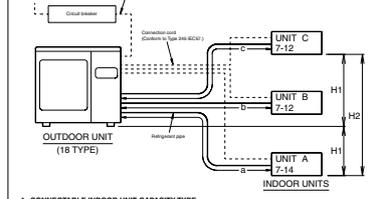
SELECTING THE MOUNTING POSITION

- Select installation locations that can properly support the weight of the indoor and outdoor units, install the units securely so that they do not topple or fall.
- CAUTION**
- Do not install where there is the danger of combustible gas leakage.
 - Do not install the unit near heat source of heat, steam, or inflammable gas.
 - Do not install under 10 years old may require the unit. Use preventive measures so that they cannot reach the unit.
- WARNING**
- Install the unit where it will not be tilted by more than 2°. However, do not install the unit with it tilted towards the side containing the compressor.
- Check the mounting position with the customer as follows:
- Install the outdoor unit in a location which can withstand the weight of the unit and vibration, and which can install horizontally.
 - Provide the indicated space to ensure good airflow.
 - If possible, do not install the unit where it will be exposed to direct sunlight. (If necessary, install a shade net that does not interfere with airflow.)
 - Do not install the unit near sources of heat, steam, or inflammable gas.
 - During heating operation, drain water flows from the outdoor unit. Therefore, install the outdoor unit in a place where the drain water flow will not be obstructed. (Please check model only.)
 - Do not install the unit where strong wind blows or where it is very dusty.
 - Install the outdoor unit in a place where it can be taken being dry or getting wet by rain as much as possible.
 - Install the unit where connection to the indoor unit is easy.
- When there are obstacles at the back side.
- When there are obstacles at the back and top side.



* If the slope is larger than that in which the condition will be the same as that in which there are no obstacles.

OUTDOOR UNIT : 18 TYPE

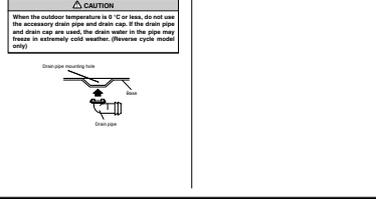


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INSTALLATION PROCEDURE

- 1. OUTDOOR UNIT PROCESSING**
- (1) Outdoor unit to be taken with bolts on the base pieces indicated by the arrows without fail.
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- (2) The facility with bolts on a solid brick. (Use 4 sets of commercially available M10 bolt, nut and washer.)
-
- (3) Since the drain water flows out of the outdoor unit during heating operation, install the drain pipe and connect it to a conventional 16mm hole. (Reverse cycle model only.)
- (4) When installing the drain pipe, plug the hole other than the drain pipe mounting hole at the bottom of the outdoor unit with putty so there is no water leakage. (Reverse cycle model only.)
- CAUTION**
- When the outdoor temperature is 5 °C or less, do not use the necessary drain pipe and drain cap. If the drain pipe and drain cap are used, the drain water in the pipe may freeze in extremely cold weather. (Reverse cycle model only.)
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2. LIMITATION OF REFRIGERANT PIPING LENGTH

CAUTION

The total maximum pipe lengths and height difference of this product are shown in the table. If the units are further apart than this, correct operation cannot be guaranteed.

Indoor name	Indoor name
Model name	Model name
Max. length for each indoor unit (A, B or C)	20.0 m (65 ft)
Max. height difference between indoor unit and each indoor unit (A or B)	20.0 m (65 ft)
Max. height difference between indoor unit and each indoor unit (C)	15.0 m (49 ft)
Max. height difference between indoor unit and each indoor unit (A, B or C)	10.0 m (33 ft)
Max. height for each indoor unit (A, B or C)	5.0 m (16 ft)

Note: If the total piping is longer than 20 m, additional refrigerant charging is necessary. (For more information, refer to HOW TO USE ADAPTER.)

3. SELECTING PIPE SIZES

The diameter of the connected pipe shall according to the capacity of the indoor unit. Refer to the following table for the proper diameter of the connection pipe between the indoor and outdoor units.

Capacity of indoor unit	Gas pipe size (Refrigerant)	Liquid pipe size (Refrigerant)
7-12	φ12.7 (1/2")	φ6.35 (1/4")
14-18	φ12.7 (1/2")	φ6.35 (1/4")

CAUTION

Operation cannot be guaranteed if the correct combination of gas, valves, etc. is not used to connect the indoor and outdoor units.

5. ELECTRICAL REQUIREMENT

Use the following table for the power requirements of the indoor unit.

Power supply code (part)	MAX.	MIN.
Electrical wire and fuse capacity	4.0	2.0
Connection lead length	2.5	1.5
Power capacity (A)	15	10

CAUTION

- Install the disconnect switch with a rated gap of at least 300 mm to the power supply.
- Always make the air conditioner power supply a special branch circuit and provide a special breaker.

2. CONNECTING THE PIPE

- The pipes are shipped by your factory. Be careful not to collapse them. Do not bend the pipes at an angle more than 90°. When pipes are repeatedly bent or obstructed, the material will rupture, causing oil leakage or pressure. Always keep away from sharp bends more than three times.
- CAUTION**
- Do not remove the flare nut from the indoor unit pipe immediately before connecting the connection pipe.
 - Do not touch the pipe against part on the indoor unit and outdoor unit correctly. If the centering is improper, the flare nut cannot be tightened securely. If the flare nut is forced to turn, the threads will be damaged.
- 3. CONNECTION PIPES**
- Outdoor unit
- (1) Connect the pipe and plug from the pipes.
- CAUTION**
- Do not touch the pipe against part on the indoor unit and outdoor unit correctly. If the centering is improper, the flare nut cannot be tightened securely. If the flare nut is forced to turn, the threads will be damaged.
- (2) Do not remove the flare nut from the indoor unit pipe immediately before connecting the connection pipe.
- (3) Centering the pipe against part on the indoor unit, turn the flare nut with your hand.
- To prevent pipe leakage, take the flare nut and tighten it with your hand.
- (4) Attach the connection pipe.
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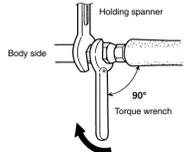
When using conventional flare tools to flare R410A pipes, the dimension A should be approximately 5.0 mm more than indicated in the table. For flaring R410A flare tools to achieve the specified flaring, use A flaring ring to measure the dimension A.

Pipe outside diameter	Dimension A (mm)
6.35 mm (1/4")	12.0
9.52 mm (3/8")	15.0
12.70 mm (1/2")	18.0
15.88 mm (5/8")	21.0
19.05 mm (3/4")	24.0

Pipe outside diameter	Width across flare from Flare nut
6.35 mm (1/4")	21 mm
9.52 mm (3/8")	27 mm
12.70 mm (1/2")	33 mm
15.88 mm (5/8")	39 mm
19.05 mm (3/4")	45 mm

Continued on back.

(4) When the flare nut is tightened properly by your hand, use a torque wrench to finally tighten it.



CAUTION

Hold the torque wrench at its grip, keeping it in the right angle with the pipe, in order to tighten the flare nut correctly.

Flare nut	Tightening torque
6.35 mm (1/4 in.) dia.	16 to 18 N·m (160 to 180 kgf·cm)
9.52 mm (3/8 in.) dia.	30 to 42 N·m (300 to 420 kgf·cm)
12.70 mm (1/2 in.) dia.	49 to 61 N·m (490 to 610 kgf·cm)
15.88 mm (5/8 in.) dia.	63 to 75 N·m (630 to 750 kgf·cm)
19.05 mm (3/4 in.) dia.	90 to 110 N·m (900 to 1100 kgf·cm)

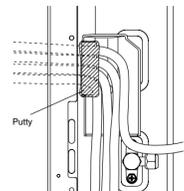
4. HOW TO USE ADAPTER (Connection ports of outdoor unit)

- When using the ADAPTER, be careful not to overtighten the nut, or the smaller pipe may be damaged.
- Apply a coat of refrigeration oil to the threaded connection port of the outdoor unit where the flare nut comes in.
- Use appropriate wrenches to avoid damaging the connection thread by overtightening the flare nut.
- Apply wrenches on both of flare nut (local part), and ADAPTER to tighten them.

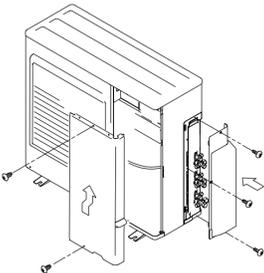
Adapter tightening torque

Adapter type	Tightening torque
ø12.7 mm → ø9.52 mm	49 to 61 N·m (490 to 610 kgf·cm)
ø6.35 mm → ø9.52 mm	16 to 18 N·m (160 to 180 kgf·cm)
ø12.7 mm → ø15.88 mm	49 to 61 N·m (490 to 610 kgf·cm)

(4) Be sure to seal the holes when applying the putty.



(5) Put the service cover and valve cover back after completion of the work.



CAUTION

Do not make power supply cord and connection cord come in contact with valve (Gas).

5. VACUUM

CAUTION

- Always use a vacuum pump to purge the air.
- Refrigerant for purging the air is not charged in the outdoor unit at the factory.
- Refrigerant must not be discharged into atmosphere.
- Use a vacuum pump, gauge manifold and charge hose for R410A exclusively. Using the same vacuum for different refrigerants may damage the vacuum pump or the unit.
- After connecting the piping, check the joints for gas leakage with gas leak detector or soapy water.

CHECKING GAS LEAKAGE AND PURGING AIR

Gas leak checks are performed using either vacuum or nitrogen gas, so select the proper one depending on the situation.

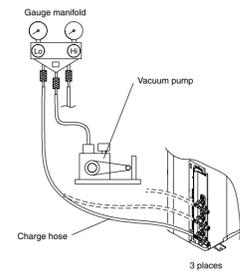
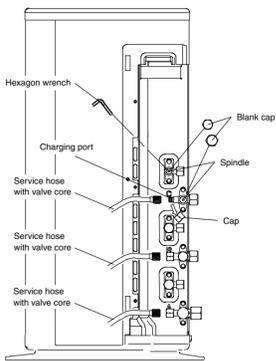
Checking gas leaks with vacuum:

- Check if the piping connections are secure.
- Remove the cap of 3-way valve, and connect the gauge manifold charge hoses to the charging port of the 3-way valve.
- Open the valve of the gauge manifold fully.
- Operate the vacuum pump and start pump down.
- Check that the compound pressure gauge reads -0.1 MPa (76 cmHg), operate the vacuum pump for 30 minutes or more in each valve.
- At the end of pump down, close the valve of the gauge manifold fully and stop the vacuum pump. (It checks that vacuum as it is for about 10 minutes, and a needle does not return.)
- Disconnect the charge hose from the 3-way valve charging port.
- Remove the blank caps, and fully open the spindles of the 2-way and 3-way valves with a hexagon wrench. (torque: 5 to 7 N·m (50 to 70 kgf·cm)).
- Tighten the blank caps and charging port cap of the 2-way valve and 3-way valve to the specified torque.

Checking gas leaks with nitrogen gas:

- Check if the piping connections are secure.
- Remove the cap of 3-way valve, and connect the gauge manifold charge hoses to the charging port of the 3-way valve.
- Pressurize with nitrogen gas using the 3-way valve charging port. Do not pressurize up to the specified pressure all at once but do so gradually.
 - Increase the pressure up to 0.5 Mpa (5 kgf/cm²), let it sit for about five minutes and then check for any decrease in pressure.
 - Increase the pressure up to 1.5 Mpa (15 kgf/cm²), let it sit for about five minutes and then check for any decrease in pressure.
 - Increase the pressure up to the specified pressure (the pressure designed for the product) and then make a note of it.
- Let it sit at the specified pressure and if there is no decrease in pressure then it is satisfactory. If a pressure decrease is confirmed, there is a leak, so it is necessary to specify the leak location and make minor adjustments.
- Discharge the nitrogen gas and starting removing the gas with a vacuum pump.
- Open the valve of the gauge manifold fully.
- Operate the vacuum pump and start pump down.
- Check that the compound pressure gauge reads -0.1 MPa (76 cmHg), operate the vacuum pump for 30 minutes or more in each valve.
- At the end of pump down, close the valve of the gauge manifold fully and stop the vacuum pump.
- Disconnect the charge hose from the 3-way valve charging port.
- Remove the blank caps, and fully open the spindles of the 2-way and 3-way valves with a hexagon wrench. (torque: 6 to 7 N·m (60 to 70 kgf·cm)).
- Tighten the blank caps and charging port cap of the 2-way valve and 3-way valve to the specified torque.

	Tightening torque	
Blank cap	6.35 mm (1/4 in.)	20 to 25 N·m (200 to 250 kgf·cm)
	9.52 mm (3/8 in.)	20 to 25 N·m (200 to 250 kgf·cm)
	12.70 mm (1/2 in.)	28 to 32 N·m (280 to 320 kgf·cm)
	15.88 mm (5/8 in.)	30 to 35 N·m (300 to 350 kgf·cm)
	19.05 mm (3/4 in.)	35 to 40 N·m (350 to 400 kgf·cm)
Charging port cap	12.5 to 16 N·m (125 to 160 kgf·cm)	



6. ADDITIONAL CHARGE

Refrigerant suitable for a total piping length of 30 m is charged in the outdoor unit at the factory. When the piping is longer than 30 m, additional charging is necessary. For the additional amount, see the table below.

Total piping length	30 m (98 ft)	40 m (131 ft)	50 m (164 ft)	
Additional refrigerant	None	200 g (7.1 oz)	400 g (14.1 oz)	20 g/m (0.21 oz/ft)

CAUTION

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



3

POWER

WARNING

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

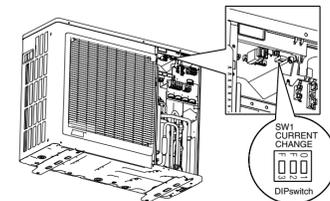
CAUTION

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

The power source capacity must be the sum of the room air conditioner current and the current of other electrical appliances. When the current contacted capacity is insufficient, change the contracted capacity or the DIP switches on the circuit board to the setting shown in Table below.

DIP-SW			CURRENT (MAX)
1	2	3	
OFF	OFF	OFF	12.0 A ³
ON	OFF	OFF	11.0 A
OFF	ON	OFF	10.0 A
ON	ON	OFF	8.5 A ⁴

³: OUTDOOR UNIT 24 TYPE primary setting
⁴: OUTDOOR UNIT 18 TYPE primary setting



CAUTION

If the OUTDOOR UNIT is 18 TYPE, no changes are made to the settings using the DIP switches. If the initial setting (8.5 A) is changed, correct operation cannot be guaranteed. In addition, the unit may be damaged.

4

ELECTRICAL WIRING

WARNING

- Before starting work, check that power is not being supplied to the indoor unit and outdoor unit.
- Match the terminal board numbers and connection cord colors with those of the outdoor unit. Erroneous wiring may cause burning of the electric parts.
- Connect the connection cords firmly to the terminal board. Imperfect installation may cause a fire.
- Always fasten the outside covering of the connection cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.)
- Always connect the ground wire.

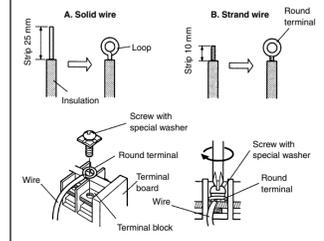
HOW TO CONNECT WIRING TO THE TERMINALS

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

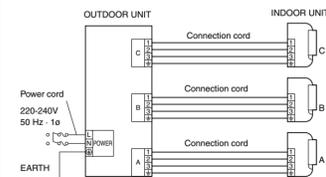
- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm to expose the solid wire.
- Using a screwdriver, remove the terminal screw(s) on the terminal board.
- Using pliers, bend the solid wire to form a loop suitable for the terminal screw.
- Shape the loop wire properly, place it on the terminal board and tighten securely with the terminal screw using a screwdriver.

B. For strand wiring

- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm to expose the strand wiring.
- Using a screwdriver, remove the terminal screw(s) on the terminal board.
- Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped wire end.
- Position the round terminal wire, and replace and tighten the terminal screw using a screwdriver.

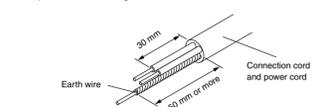


1. CONNECTION DIAGRAMS



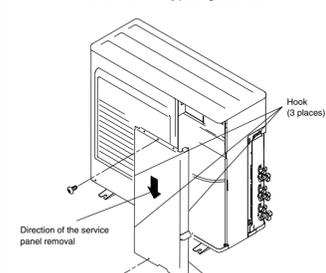
2. CORD PREPARATION

Keep the earth wire longer than the other wires.

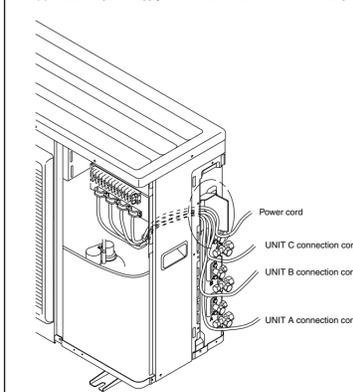


3. OUTDOOR UNIT

- Service cover removal
 - Remove the two mounting screws.
 - Remove the service cover by pushing downwards.



- Connect the power supply cord and the connection cord to terminal.
- Fasten the power supply cord and connection cord with cord clamp.



5

TEST RUNNING

1. Make a TEST RUN in accordance with the installation instruction sheet for the indoor unit.

CHECK ITEMS

- INDOOR UNIT**
 - Is operation of each button on the remote control unit normal?
 - Does each lamp light normally?
 - Do the air flow-direction louver operate normally?
 - Is the drain normal?
 - Is there any abnormal noise and vibration during operation?
- OUTDOOR UNIT**
 - Is there any abnormal noise and vibration during operation?
 - Will noise, wind, or drain water from the unit disturb the neighbors?
 - Is there any gas leakage?

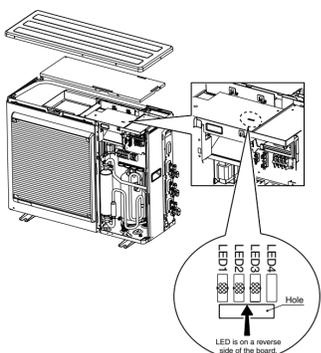
- Do not operate the air conditioner in the test running state for a long time.
- For the operation method, refer to the operating manual and perform operation check.

2. OUTDOOR UNIT LEDS

When a malfunction occurs in the outdoor unit, the LED on the circuit board lights to indicate the error. Refer to the following table for the description of each error according to the LED.

Error contents	LED 1	LED 2	LED 3	LED 4
Communication error (indoor unit A to outdoor unit)	● 1 time	-	-	-
Communication error (indoor unit B to outdoor unit)	-	● 1 time	-	-
Communication error (indoor unit C to outdoor unit)	-	-	● 1 time	-
Communication error (indoor unit D to outdoor unit)	-	-	-	● 1 time
Discharge pipe temperature sensor	● 2 times	-	-	-
Outdoor heat exchanger temperature sensor	● 3 times	-	-	-
Outdoor temperature sensor	● 4 times	-	-	-
Outdoor 2 way valve (A) temperature sensor	● 5 times	-	-	-
Outdoor 2 way valve (B) temperature sensor	-	● 5 times	-	-
Outdoor 2 way valve (C) temperature sensor	-	-	● 5 times	-
Outdoor 2 way valve (D) temperature sensor	-	-	-	● 5 times
Outdoor 3 way valve (A) temperature sensor	● 6 times	-	-	-
Outdoor 3 way valve (B) temperature sensor	-	● 6 times	-	-
Outdoor 3 way valve (C) temperature sensor	-	-	● 6 times	-
Outdoor 3 way valve (D) temperature sensor	-	-	-	● 6 times
Compressor temperature sensor	● 7 times	-	-	-
Heat sink temperature sensor	● 8 times	-	-	-
Pressure switch A abnormal	● 9 times	-	-	-
Pressure switch B abnormal	● 10 times	-	-	-
Indoor unit connection capacity error	● 11 times	-	-	-
IPM error	● 12 times	-	-	-
Compressor rotor location error	● 13 times	-	-	-
Compressor cannot start to operate	● 14 times	-	-	-
Outdoor fan (upper) motor error	● 15 times	-	-	-
Outdoor fan (lower) motor error	● 16 times	-	-	-
Microcomputer error	● 17 times	-	-	-
4 way valve (SOLENOID) abnormal	● 18 times	-	-	-

● : Slow flashing - : Off



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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 manual and installation instruction sheet to the customer.