

10A Cassette Type TYPE AIR CONDITIONER INSTALLATION INSTRUCTION FEET

NO. 9366382034-02

This manual indicates procedures which, if improperly performed, might lead to the death or serious injury of service personnel only.

This manual indicates procedures which, if improperly performed, might possibly result in personal harm to the user or damage to property.

This air conditioner uses non-refrigerant R410A.

Installation work procedures are the same as conventional refrigerant models.

Working pressure is 1.6 times higher than that of conventional refrigerant models, some of the piping and the piping accessories are different from those of conventional refrigerant models.

When replacing a conventional refrigerant model with a non-refrigerant R410A model, always replace the main piping and flare nuts with the R410A piping and flare nuts.

Do not use refrigerant R410A with a different charging port thread diameter to prevent erroneous charging with non-refrigerant and for safety. Therefore, check beforehand. (The charging port thread diameter for R410A is 1/2" thread per inch.)

Be careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant models. Also, when piping, accuracy and care are required for joining, bending, etc.

When charging the refrigerant, take into account the slight change in the composition of the gas and liquid phases, and charge from the liquid phase side whose composition is stable.

Contents of charge

Pressure is high and should be measured with a conventional gauge. To prevent erroneous mixing of other refrigerant, the diameter of each port has been changed.

1. A conventional gauge with scale -1 to 153 MPa (-1 to 22 kgf/cm²), -75 to 152 kgf/cm² for high pressure. -0.1 to 0.1 MPa (-0.1 to 1.5 kgf/cm²) for low pressure.

2. A conventional gauge with scale 0 to 10 MPa (0 to 150 kgf/cm²) for low pressure.

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STANDARD PARTS

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

INDOOR UNIT ACCESSORIES

Name and Shape	Qty	Application
Coupler (flange)	2	For indoor side pipe joint
Corner	2	For installing the remote controller
Special nut A (long flange)	2	For installing indoor unit
Special nut B (short flange)	4	For installing indoor unit
Terminal	1	For taking back coating
Bracket	1	For remote controller and remote controller cord leading
Shock-proof insulation	2	For shockproofing an indoor unit
Shock-proof pad	2	For installing shock-proof pad
Remote controller	1	For controlling the remote controller
Remote controller cord	1	For connecting the remote controller

OUTDOOR UNIT ACCESSORIES

Name and Shape	Qty	Application
Down pipe	1	For outdoor unit down pipe (Use the down pipe with the same length as the indoor unit)
Down pipe	1	For outdoor unit down pipe (Use the down pipe with the same length as the indoor unit)
Insulation (wool)	1	For filling in a gap at the connection of the down pipe

Thickness of Annealed Copper Pipes (R410A)

Pipe outside diameter	Thickness
6.35 mm (1/4 in.)	0.80 mm
9.52 mm (3/8 in.)	0.80 mm
12.70 mm (1/2 in.)	0.80 mm
15.88 mm (5/8 in.)	1.00 mm
19.05 mm (3/4 in.)	1.20 mm

CONNECTION PIPE REQUIREMENT

The maximum lengths of this product are shown in the following table. If the units are further apart than this, correct operation can not be guaranteed.

Refrigerant	Liquid	Gas
Model	MAX. 15.0 m (50 ft.)	MAX. 15.0 m (50 ft.)
Flare	MAX. 20.0 m (65 ft.)	MAX. 20.0 m (65 ft.)
Pipe	MAX. 25.0 m (82 ft.)	MAX. 25.0 m (82 ft.)
Maximum height (between indoor and outdoor)	MAX. 15.0 m (50 ft.)	MAX. 15.0 m (50 ft.)

Use pipe with outer-insulated heat insulation.

Install heat insulation around both the gas and liquid pipes. Failure to do so may cause water leaks.

Use heat insulation with heat resistance above 100 °C. (Refrigerant cycle model only)

In addition, if the humidity level at the installation location of the refrigerant piping is expected to exceed 70%, install heat insulation around the refrigerant piping. If the actual humidity level is 70-80%, use heat insulation that is 10 mm or thicker and if the expected humidity exceeds 80%, use heat insulation that is 20 mm or thicker.

If heat insulation is used that is not as specified, condensation may form on the surface of the insulation. In addition, use heat insulation with heat conductivity of 0.045 W/m·K or less (at 20 °C).

ELECTRICAL REQUIREMENT

Check the units and breaker capacity.

Power supply (circuit breaker)	MAX.	MIN.
Refrigerant supply (circuit breaker)	42	22
Refrigerant supply (circuit breaker)	22	12
Compressor (circuit breaker)	22	12
Condenser capacity (A)	20	10

Always use 100V/115V or equivalent in the connection cord.

Install electrical wiring in accordance with the standard.

Use the following accessories.

ADDITIONAL GILLES ADF-105-100-01 (R-410A/32000)

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INSTALLATION PROCEDURE

1. INDOOR UNIT INSTALLATION

Install the air conditioner in a location which can withstand a load of at least five times the weight of the main unit and which will not empty sound or vibration. If the installation location is not strong enough, the indoor unit may fall and cause injury.

If the job is done with the panel frame only, there is a risk that the unit will come loose. Please take care.

REMOVING THE INTAKE GRILLE

(1) Push the intake grille pushbuttons (two pieces) in the direction of the arrow.

(2) Remove the intake grille.

(3) Remove the grille fixing wire.

(4) Remove the intake grille.

(5) Pull up while pressing the B section.

(6) Part A section view

(7) Part B section view

(8) Remove the intake grille.

(9) Part A section view

(10) Part B section view

(11) Part C section view

(12) Part D section view

(13) Part E section view

(14) Part F section view

(15) Part G section view

(16) Part H section view

(17) Part I section view

(18) Part J section view

(19) Part K section view

(20) Part L section view

(21) Part M section view

(22) Part N section view

(23) Part O section view

(24) Part P section view

(25) Part Q section view

(26) Part R section view

(27) Part S section view

(28) Part T section view

(29) Part U section view

(30) Part V section view

(31) Part W section view

(32) Part X section view

(33) Part Y section view

(34) Part Z section view

(35) Part AA section view

5. 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.

Pipe length	Additional refrigerant					
	7.5 m (25 ft)	10 m (33 ft)	15 m (49 ft)	20 m (66 ft)	25 m (82 ft)	30 m (99 ft)
Heat & Cool (Reverse cycle)	None	100 g (3.5 oz)	300 g (10.6 oz)	500 g (17.6 oz)	700 g (24.7 oz)	900 g (31.7 oz)
	None	50 g (1.8 oz)	150 g (5.3 oz)	250 g (8.8 oz)	350 g (12.3 oz)	450 g (15.9 oz)

Between 7.5 m and 30 m, when using a connection pipe other than that in the table, charge additional refrigerant with 40 g (1.4 oz)/1 m (3.3 ft) (Reverse cycle model), 20 g (0.71 oz)/1 m (3.3 ft) (Cooling model) as the criteria.

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.

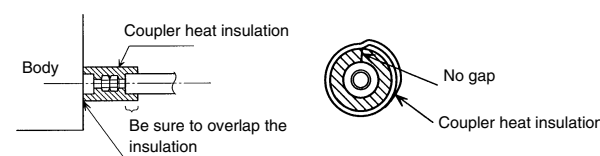
6. GAS LEAKAGE INSPECTION

CAUTION

- After connecting the piping, check the all joints for gas leakage with gas leak detector.
- When inspecting gas leakage, always use the vacuum pump for pressure. Do not use nitrogen gas.

7. HEAT INSULATION ON THE PIPE JOINTS (INDOOR SIDE ONLY)

After checking for gas leaks, insulate by wrapping insulation around the two parts (gas and liquid) 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.



CAUTION

Must fit tightly against body without any gap.

5 POWER

WARNING

- The rated voltage of this product is 230 V A.C. 50 Hz.
- Before turning on verify that the voltage is within the 198 V to 264 V range.
- 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

- The power source capacity must be the sum of the air conditioner current and the current of other electrical appliances. When the current contracted capacity is insufficient, change the contracted capacity.
- When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage raised.

6 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.

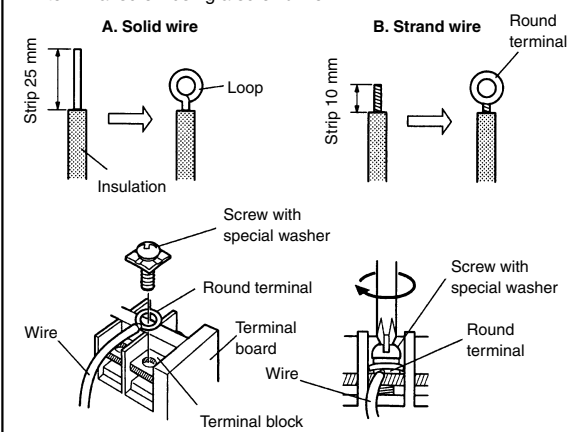
HOW TO CONNECT WIRING TO THE TERMINALS

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

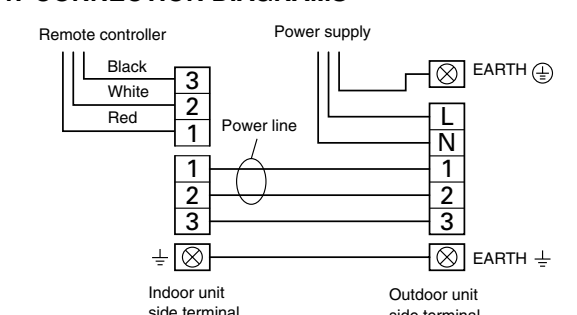
- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm to expose the strand wiring.
- Using a screwdriver, remove the terminal screw(s) on the terminal board.
- Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped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



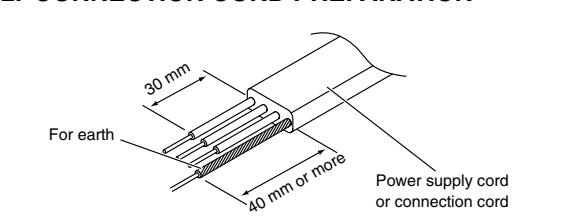
CAUTION

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

1. CONNECTION DIAGRAMS

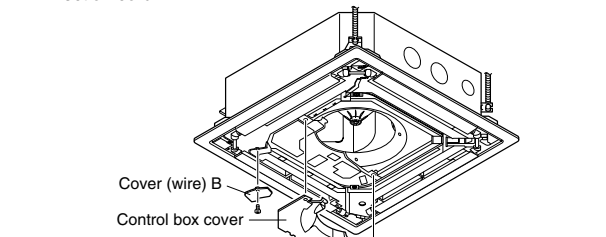


2. CONNECTION CORD PREPARATION

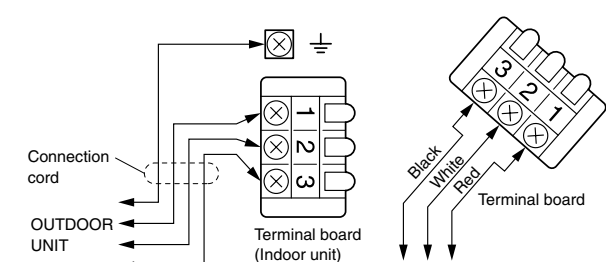
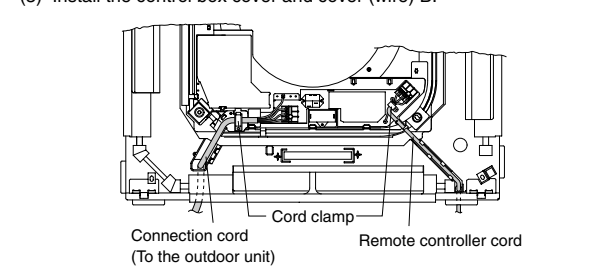


3. INDOOR UNIT

- Remove the control box cover and cover (wire) B and install the connection cord.



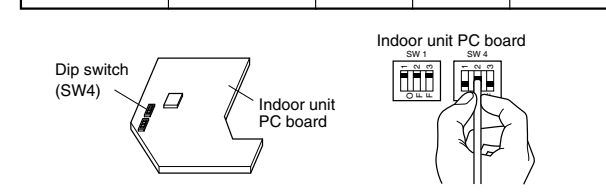
- After wiring is complete, clamp the remote controller cord and connection cord with the cord clamp.
- Install the control box cover and cover (wire) B.



Ceiling height setting

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

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

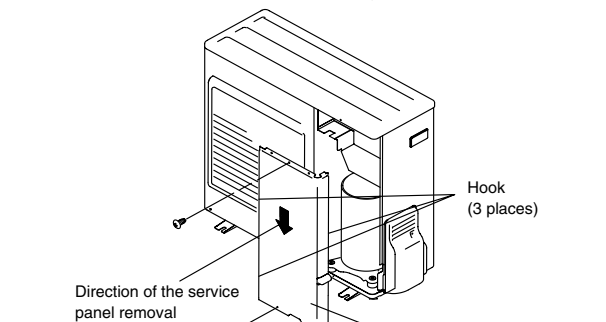


CAUTION

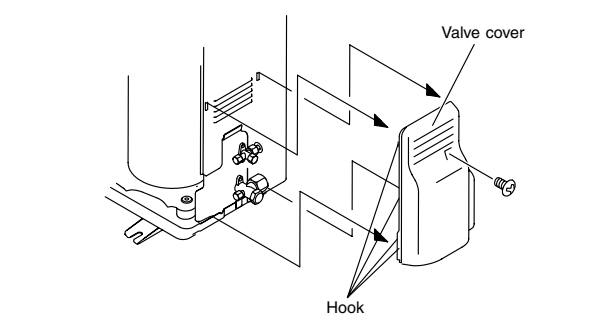
- If the setting for a low ceiling is selected, the capacity of the air conditioner decreases slightly.
- Do not set any switches other than those specified in this sheet or the remote controller installation instruction sheet. The air conditioner may not operate correctly if any switches other than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

4. OUTDOOR UNIT

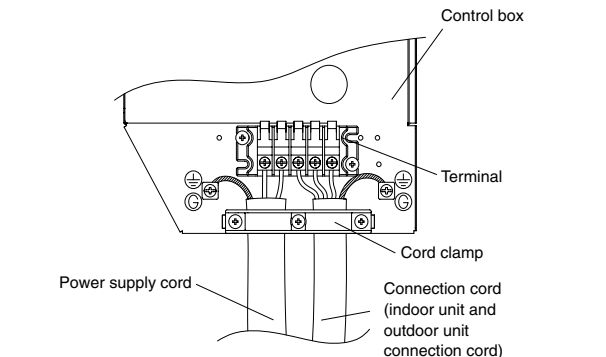
- Service cover removal
 - Remove the two mounting screws.
 - Remove the service cover by pushing downwards.



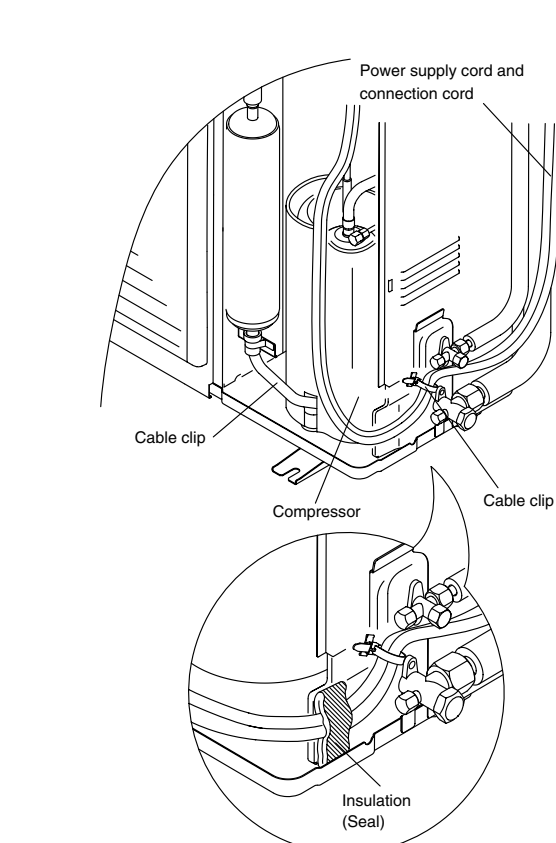
- Valve cover removal
 - Remove the one mounting screw.
 - Remove the valve cover by sliding upward.



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

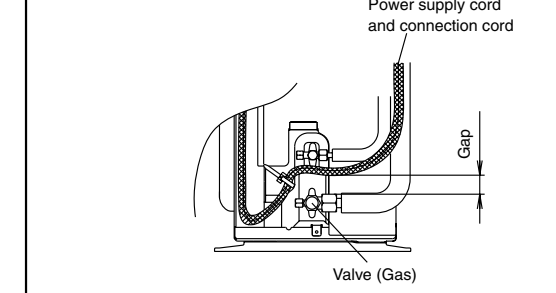


- Fill in a gap at the entrance of the cords with insulation (seal).



CAUTION

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

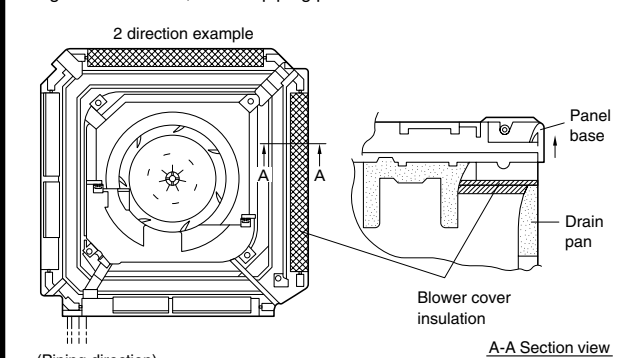


- Put the service cover and valve cover back after completion of the work.

7 GRILLE INSTALLATION

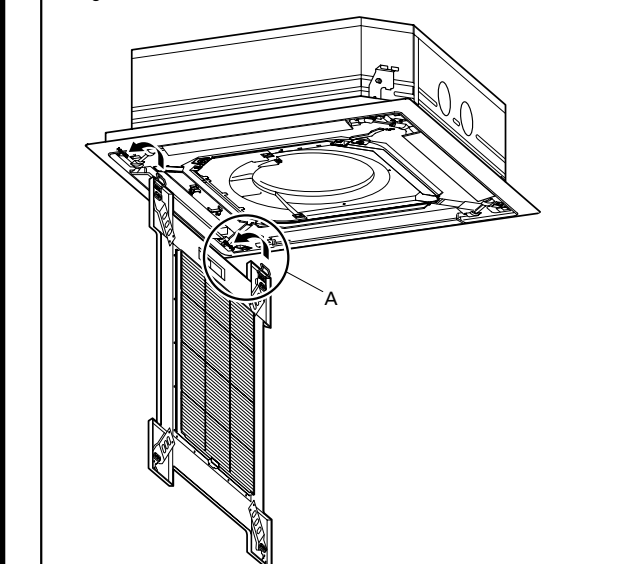
BLOWER COVER INSULATION

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

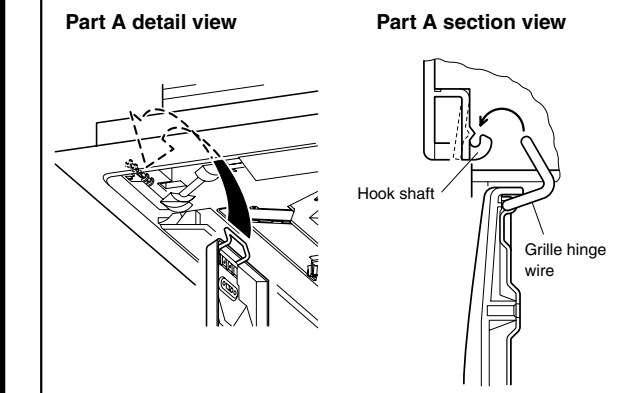


INSTALLING THE INTAKE GRILLE

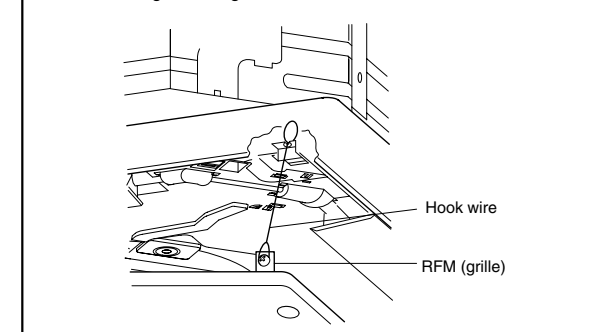
- Mount the grille hinge wire to the hook shaft as shown in the figure.



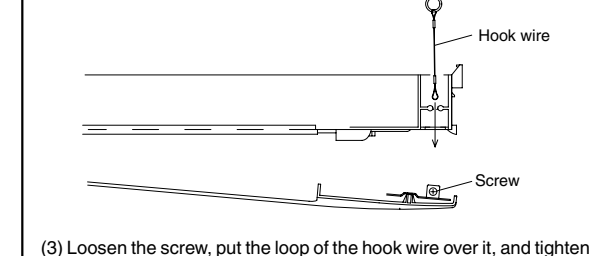
- Latch the grille hinge wire to the hook shaft, and fasten.



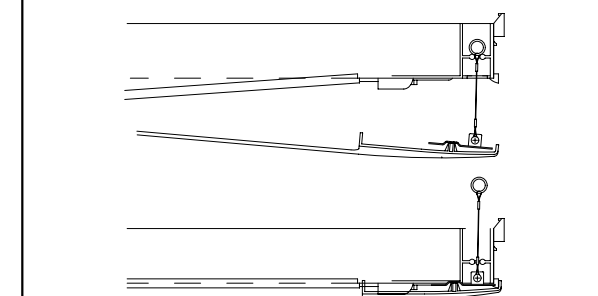
- Install the hook wire.
 - Pass the hook wire through the panel base from the rear side as shown in the figure, and fasten to the reinforced metal fitting of the intake grille using a screw.



Section view



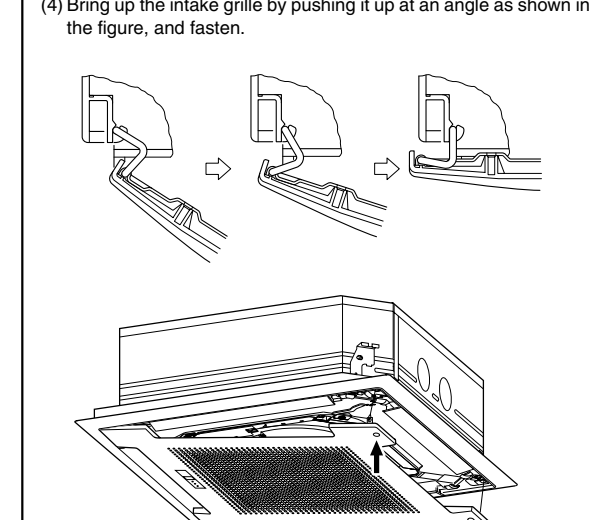
- Loosen the screw, put the loop of the hook wire over it, and tighten the screw again.



CAUTION

Install the intake grille hook wire to the grille assembly. If it falls, it may cause injuries.

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



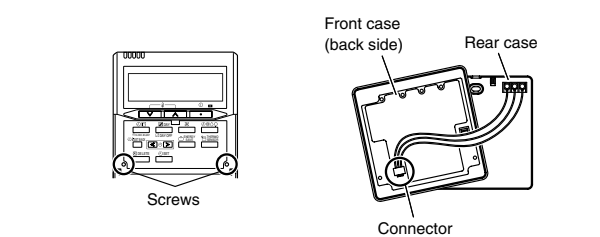
8 REMOTE CONTROLLER SETTING

CAUTION

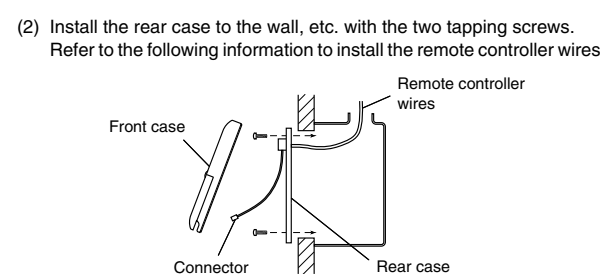
- In order to detect the room temperature correctly when using the temperature sensor of the remote controller, do not install the remote controller in a place where it will be exposed to direct sunlight or directly below the air outlet of the indoor unit.
- When installing the remote controller and cord near a source of electromagnetic waves, separate the remote controller from the source of the electromagnetic waves and use shielded cord.
- Do not touch the remote controller PC board and PC board parts directly with your hands.

1. INSTALLING THE REMOTE CONTROLLER

- Open the operation panel on the front of the remote controller, remove the two screws indicated in the following figure, and then remove the front case of the remote controller.

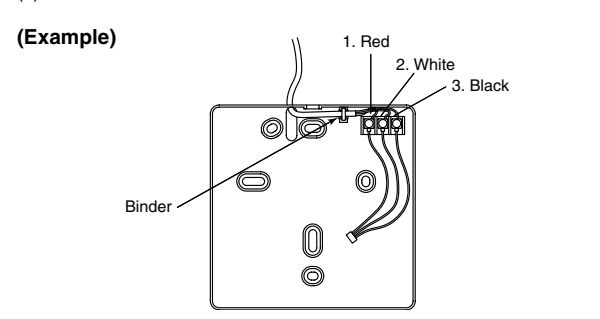


When installing the remote controller, remove the connector from the front case. The wires may break if the connector is not removed and the front case hangs down.
When installing the front case, connect the connector to the front case.



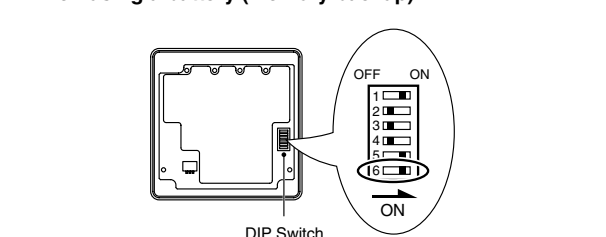
2. ROUTING THE REMOTE CONTROLLER WIRES

- Install the remote controller wires to the terminals on the top of the rear case as shown in the following figure.
- Fasten the wires with the binder.



3. SETTING THE DIP SWITCHES

When using a battery (memory backup)



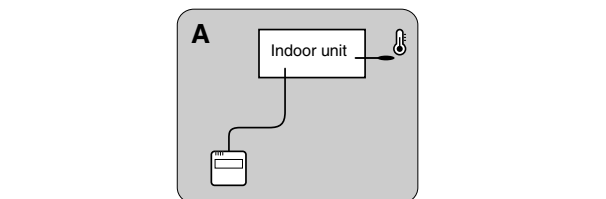
Change the DIP switch setting to use batteries. (The DIP switch is not set to use batteries at the factory.)
Change DIP switch No. 6 from OFF to ON.
If batteries are not used, all of the settings stored in memory will be deleted if there is a power failure.

4. SETTING THE ROOM TEMPERATURE DETECTION LOCATION

The detection location of the room temperature can be selected from the following three examples. Choose the detection location that is best for the installation location.

A. Indoor unit setting (factory setting)

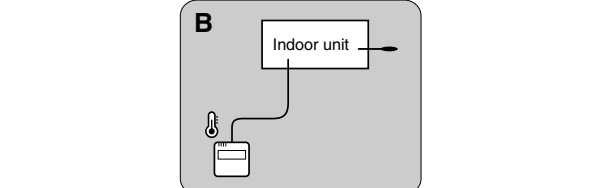
The room temperature is detected by the indoor unit temperature sensor.



- When the THERMO SENSOR button is pressed, the lock display flashes because the function is locked at the factory.

B. Remote controller setting

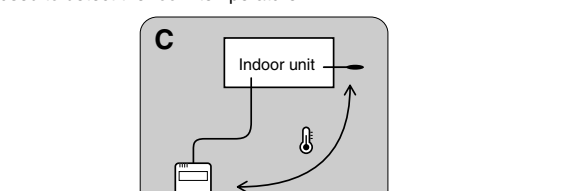
The room temperature is detected by the remote controller temperature sensor.



- Press the THERMO SENSOR button for 5 seconds or more to unlock the function. The thermo sensor display flashes and then disappears when the function is unlocked.
- Press the THERMO SENSOR button. The thermo sensor display appears.
- Press the THERMO SENSOR button again for 5 seconds or more to lock the function. The thermo sensor display flashes and then remains on when the function is locked.
- Make sure that the function is locked.

C. Indoor unit/remote controller setting (room temperature sensor selection)

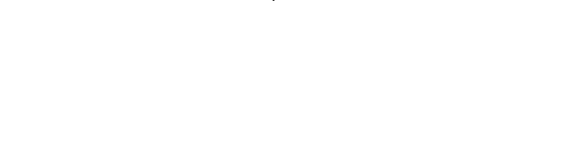
The temperature sensor of the indoor unit or the remote controller can be used to detect the room temperature.



- Press the THERMO SENSOR button for 5 seconds or more to unlock the function. The thermo sensor display flashes and then disappears when the function is unlocked.
- Press the THERMO SENSOR button to select the temperature sensor of the indoor unit or the remote controller.



If the function to change the temperature sensor is used as shown in examples A and B (other than example C), be sure to lock the detection location. If the function is locked, the lock display will flash when the THERMO SENSOR button is pressed.



NOTES

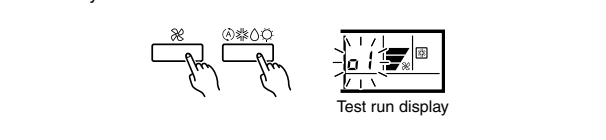
If the function to change the temperature sensor is used as shown in examples A and B (other than example C), be sure to lock the detection location. If the function is locked, the lock display will flash when the THERMO SENSOR button is pressed.

9 TEST RUN

CAUTION

Supply power to the crankcase heater for at least 12 hours before the start of operation in winter.

- Stop the air conditioner operation.
- Press the master control button and the fan control button simultaneously for 2 seconds or more to start the test run.



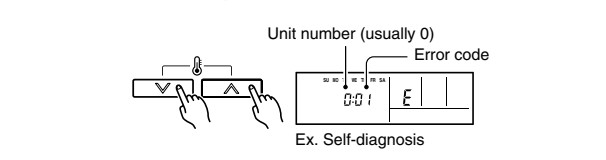
- Press the start/stop button to stop the test run.

[SELF-DIAGNOSIS]

When the error indication "E.EE" is displayed, follow the following items to perform the self-diagnosis. "E.EE" indicates an error has occurred.

1. REMOTE CONTROLLER DISPLAY

- Stop the air conditioner operation.
- Press the set temperature buttons Δ / ∇ simultaneously for 5 seconds or more to start the self-diagnosis. Refer to the following tables for the description of each error code.



Error code	Error contents
00	Communication error (indoor unit → remote controller)
01	Communication error (indoor unit → outdoor unit)
02	Room temperature sensor open
03	Room temperature sensor short-circuited
04	Indoor heat exchanger temperature sensor open
05	Indoor heat exchanger temperature sensor short-circuited
06	Outdoor heat exchanger temperature sensor open
07	Outdoor heat exchanger temperature sensor short-circuited
08	Power source connection error
09	Float switch operated
0A	Outdoor temperature sensor open
0b	Outdoor temperature sensor short-circuited
0c	Discharge pipe temperature sensor open
0d	Discharge pipe temperature sensor short-circuited
0E	Outdoor high pressure abnormal
0F	Discharge pipe temperature abnormal

Error code	Error contents
11	Model abnormal
12	Indoor fan abnormal
13	Outdoor signal abnormal
14	Outdoor EEPROM abnormal

2. OUTDOOR UNIT LEADS

Heat & Cool model (reverse cycle) only

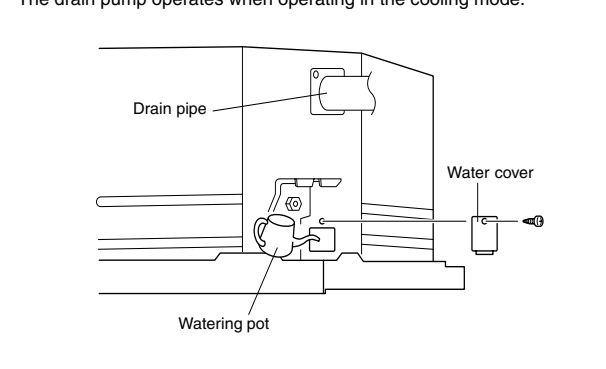
When a malfunction occurs in the outdoor unit, the LEDs on the circuit board light to indicate the error. Refer to the following table for the description of each error according to the LEDs.

LED1	Error display	LED2	Error contents
ON		OFF	Model abnormal or EEPROM abnormal
ON		ON	Power source connection error
ON		OFF	Discharge temperature sensor error
ON		ON	Lighting continued
ON		OFF	Outdoor heat exchanger temperature sensor error
ON		ON	Lighting continued
ON		OFF	Outdoor temperature sensor error
ON		ON	Communication signal error
ON		OFF	Indoor unit error
ON		ON	Discharge temperature abnormal
ON		OFF	High pressure abnormal
ON		ON	Discharge temperature abnormal (24h)
ON		OFF	High pressure abnormal (24h)

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

3. CHECKING DRAINAGE

To check the drain, remove the water cover and fill with 2 to 3 l of water as shown in the figure.
The drain pump operates when operating in the cooling mode.



10 SPECIAL INSTALLATION METHODS

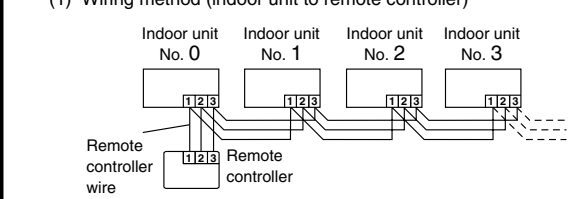
CAUTION

- When setting the rotary switch and DIP switches, do not touch any other parts on the circuit board directly with your bare hands.
- Be sure to turn off the main power.

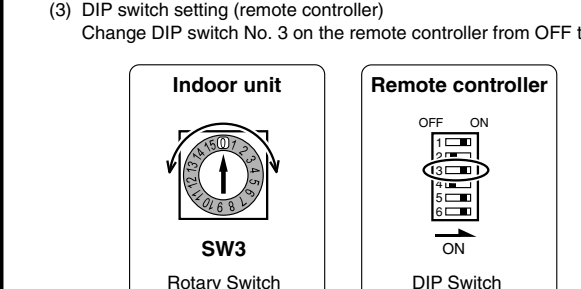
1. GROUP CONTROL SYSTEM

A number of indoor units can be operated at the same time using a single remote controller.

- Wiring method (indoor unit to remote controller)



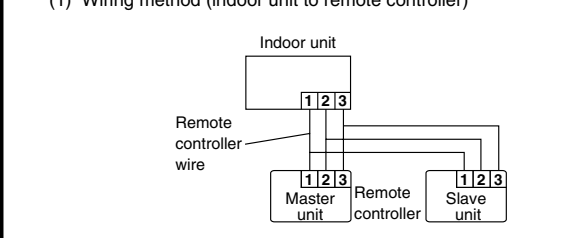
- Rotary switch setting (indoor unit)
Change the DIP switch (SW1-1) on the indoor unit circuit board from ON to OFF. The auto restart function will be canceled.
- DIP switch setting (remote controller)
Change DIP switch No. 3 on the remote controller from OFF to ON.



2. DUAL REMOTE CONTROLLERS (OPTIONAL)

Two separate remote controllers can be used to operate the indoor units.

- Wiring method (indoor unit to remote controller)



- DIP switch setting (remote controller)
Set the remote controller DIP switch Nos. 1 and 2 according to the following table.

Number of remote controllers	Master unit		Remote controller
	DIP-SW No. 1	DIP-SW No. 2	
1 (Normal)	ON	OFF	
2 (Dual)	OFF	OFF	

Number of remote controllers	Slave unit	
	DIP-SW No. 1	DIP-SW No. 2
1 (Normal)	-	-
2 (Dual)	ON	ON

3. CANCELING AUTO RESTART

- When the air conditioner power was temporarily turned off by a power failure etc., it restarts automatically after the power recovers. (Operated by setting before the power failure)

The auto restart function can be canceled.

- DIP switch setting (indoor unit)
Change the DIP switch (SW1-1) on the indoor unit circuit board from ON to OFF. The auto restart function will be canceled.



[DIP-SWITCH SETTING]

Indoor unit

NO.	SW state		Detail	
	OFF	ON		
DIP-Switch 1	1	Invalidity	Validity	Auto restart setting
	2	-	-	Temperature correction setting for heating
	3	-	-	Remote controller setting
DIP-Switch 4	1	-		