

Floor Console/Under Ceiling Dual Type INSTALLATION INSTRUCTION SHEET



(PART NO. 9359945031)

For authorized service personnel only.

IMPORTANT! Please Read Before Starting

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so it operates safely and efficiently.

For safe installation and trouble-free operation, you must:

- Carefully read this instruction booklet before beginning.
- Follow each installation or repair step exactly as shown.
- Observe all local, state, and national electrical codes.
- Pay close attention to all danger, warning, and caution notices given in this manual.

WARNING: This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

CAUTION: This symbol refers to a hazard or unsafe practice which can cause dripping and water damage to walls and floors.

Hazard alerting symbols

- Electrical
- Safety / alert

If Necessary, Get Help

These instructions are all you need for most installation sites and maintenance conditions. If you require help for a special problem, contact our sales/service outlet or your certified dealer for additional instructions.

In Case of Improper Installation

The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this document.

SPECIAL PRECAUTIONS

When Wiring

ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELECTRICIAN SHOULD ATTEMPT TO WIRE THIS SYSTEM.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause accidental injury or death.
- Ground the unit following local electrical codes.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.

When Transporting

Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

When Installing...

- ...In a Ceiling or Wall**
Make sure the ceiling/wall is strong enough to hold the unit's weight. It may be necessary to construct a strong wood or metal frame to provide added support.
- ...In a Room**
Properly insulate any tubing run inside a room to prevent "sweating" that can cause dripping and water damage to walls and floors.
- ...In Moist or Uneven Locations**
Use a raised concrete pad or concrete blocks to provide a solid, level foundation for the outdoor unit. This prevents water damage and abnormal vibration.
- ...In an Area with High Winds**
Securely anchor the outdoor unit down with bolts and a metal frame. Provide a suitable air baffle.
- ...In a Snowy Area (for Heat Pump-type Systems)**
Install the outdoor unit on a raised platform that is higher than drifting snow. Provide snow vents.

When Connecting Refrigerant Tubing

- Keep all tubing runs as short as possible.
- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten the nut with a torque wrench for a leak-free connection.
- Check carefully for leaks before starting the test run.

NOTE: Depending on the system type, liquid and gas lines may be either narrow or wide. Therefore, to avoid confusion the refrigerant tubing for your particular model is specified as either "small" or "large" rather than as "liquid" or "gas."

When Servicing

- Turn the power OFF at the main circuit breaker panel before opening the unit to check or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.
- After installation, explain correct operation to the customer, using the operating manual.

STANDARD PARTS

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

Name and Shape	Q'ty	Application
Drain hose	1	
Insulation (drain hose)	1	Adhesive type 70 × 230
VT wire	1	For fixing the drain hose L 280 mm
Remote control unit	1	Use for air conditioner operation
Battery (penlight)	2	For remote control unit
Remote control unit holder	1	Use as remote control unit holder
Tapping screw (ø3 × 12)	2	For remote control unit holder installation

Name and Shape	Q'ty	Application
Cover plate (left)	1	
Cover plate (right)	1	
Tapping screw (ø4 × 10)	2	
Installation template	1	For positioning the indoor unit For under ceiling type
Bracket (left)	1	For suspending the indoor unit from ceiling
Bracket (right)	1	
Anchor bolt (M12)	4	
Spring washer	4	
Special nut	4	
Wall bracket	2	For suspending the indoor unit on the wall.
Tapping screw (ø4 × 20)	6	For fixing the wall bracket.
Coupler heat insulator (large)	1	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 drain hose

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Remote control unit holder	1	Use as remote control unit holder
Tapping screw (ø3 × 12)	2	For remote control unit holder installation

OPTIONAL PARTS

The following options are available.

- WIRED REMOTE CONTROLLER UNIT: UTB-UUB (P/N9075887004)

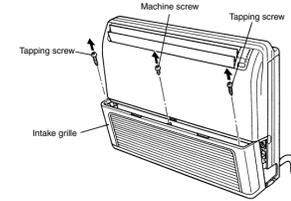
INSTALLATION PROCEDURE

Install the room air conditioner as follows:

1 PREPARING INDOOR UNIT INSTALLATION

1. REMOVE THE INTAKE GRILLE

Open the intake grille and remove the three screws.



Remark: The main unit can be wired before the indoor unit is installed. Select the most appropriate installation order.

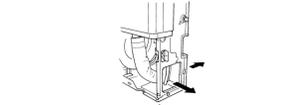
2 INDOOR UNIT INSTALLATION

A. FLOOR CONSOLE TYPE

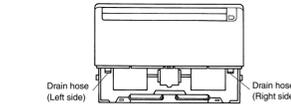
1. DRILLING FOR PIPING

Select piping and drain directions.

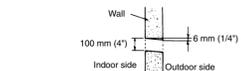
The piping and drain can be made in three directions as shown below.



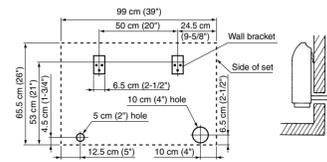
The drain hose can be connected to either the left or right side.



When the directions are selected, drill a 10 cm (4") dia. hole on the wall so that the hole is tilted downward toward the outdoor for smooth water flow. When the pipe is led out from the rear, make a hole in figure, at the position shown.

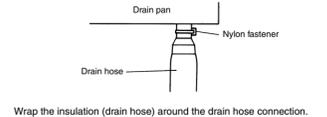


When installing set to wall install the accessory wall bracket at the position shown in figure, and mount the set to it.

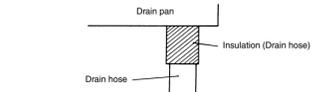


2. INSTALLING THE DRAIN HOSE

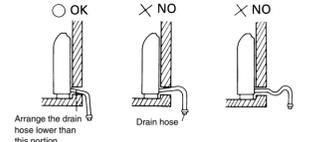
Select whether the drain hose will be connected to the left or right side. Insert the drain hose into the drain pan, then secure the drain hose with a nylon fastener.



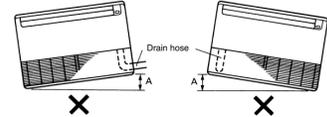
Wrap the insulation (drain hose) around the drain hose connection.



Be sure to arrange the drain hose so that it is leveled lower than the drain hose connecting port of the indoor unit.



CAUTION
Do not install the unit so that the drain hose side is too high. Height A should be less than 5 mm (3/16").



3 CONNECTING THE PIPING

WARNING
Do not use the existing piping and flare nuts.

- If the existing materials are used, the pressure inside the refrigerant cycle will rise and cause breakage, injury, etc. (Use the special R410A materials.)

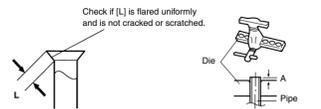
CAUTION

- Do not use mineral oil on flared part. Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- White welding the pipes, be sure to blow dry nitrogen gas through them.

1. FLARING PROCESSING

- Cut the connection pipe to the necessary length with a pipe cutter.
- Hold the pipe downward so that cuttings will not enter the pipe and remove the burrs.
- Insert the flare nut (always use the flare nut attached to the indoor and outdoor units respectively) onto the pipe and perform the flare processing with a flare tool.

Use the special R410A flare tool, or the conventional flare tool. When using the conventional flare tool, always use an allowance adjustment gauge and secure the A dimension shown in table.



Pipe outside diameter	A
6.35 mm (1/4 in.)	Flare tool for R410A, clutch type
9.52 mm (3/8 in.)	0 to 0.5 mm
12.7 mm (1/2 in.)	(0 to 0.0197 in.)
15.88 mm (5/8 in.)	

2. BENDING PIPES

- When bending the pipe, be careful not to crush it.
- To prevent breaking of the pipe, avoid sharp bends. Bend the pipe with a radius of curvature of 150 mm (6") or over.
- If the copper pipe is bend the pipe or pulled to often, it will become stiff. Do not bend the pipes more than three times at one place.

GENERAL

This INSTALLATION INSTRUCTION SHEET briefly outlines where and how to install the air conditioning system. Please read over the entire set of instructions for the indoor and outdoor units and make sure all accessory parts listed are with the system before beginning.

CONNECTION PIPE REQUIREMENT

CAUTION

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 248 °F. (Reverse 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 expected humidity level is 70-80%, use heat insulation that is 15 mm (1/2") or thicker and if the expected humidity exceeds 80%, use heat insulation that is 20 mm (3/4") or thicker.

If heat insulation is used that is not as thick 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 68 °F).

Connect the connection pipes according to "CONNECTING THE PIPING" in this installation instruction sheet.

MODEL	14000, 18000 BTU/h model	24000 BTU/h model
Diameter	Liquid 6.35 mm (1/4 in.) Gas 12.70 mm (1/2 in.)	9.52 mm (3/8 in.) 15.88 mm (5/8 in.)

- Use pipe with water-resistant heat insulation.
- Use pipe that can withstand a pressure of 4,150 kPa.

ELECTRICAL REQUIREMENT

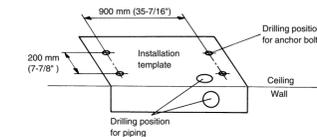
Electric wire size:

Connection cord (mm²)	MAX.	MIN.
	2.5	1.5

- Install all electrical works in accordance to the standard.
- Install the disconnect device with a contact gap of at least 3 mm (1/8") in all poles nearby the units. (Both indoor unit and outdoor unit)
- Install the circuit breaker nearby the units.

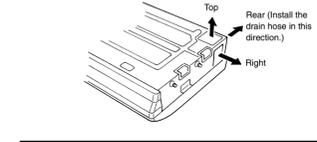
B. UNDER CEILING TYPE

Using the installation template, drill holes for piping and anchor bolts (for holes).



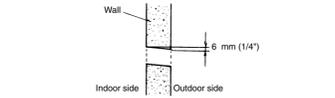
1. DRILLING FOR PIPING

Select piping and drain directions.



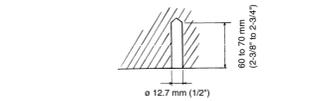
CAUTION
Install the drain hose at the rear; it should not be installed on the top or right side.

When the directions are selected, drill 80 mm (3-1/8") and 50 mm (2") or 150 mm (6") dia. hole on the wall so that the hole is tilted downward toward the outdoor for smooth water flow.

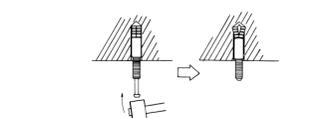


2. DRILLING HOLES FOR ANCHOR BOLTS AND INSTALLING THE ANCHOR BOLTS

With a concrete drill, drill four 12.7 mm (1/2") dia. holes.

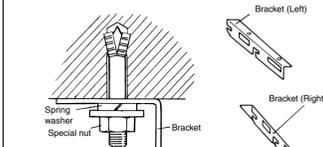


Insert the anchor bolts into the drilled holes, and drive the pins completely into the anchor bolts with a hammer.



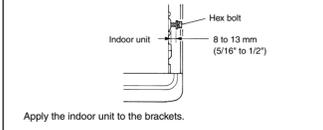
3. INSTALLING BRACKETS

Install the brackets with nuts, washers and spring washers.

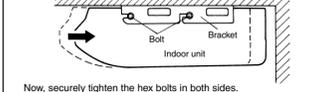


4. INSTALLING INDOOR UNIT

Reset the hex bolts as shown in figure.



Apply the indoor unit to the brackets.

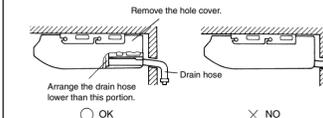


Now, securely tighten the hex bolts in both sides.

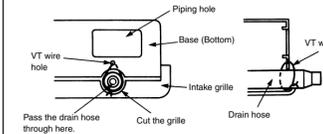
5. INSTALLING THE DRAIN HOSE

Select whether the drain hose will be connected to the left or right side. Insert the drain hose into the drain pan, then secure the drain hose with a nylon fastener.

Wrap the insulation (drain hose) around the drain hose connection. Be sure to arrange the drain hose so that it is leveled lower than the drain hose connecting port of the indoor unit.



When drain hose is arranged backward. Secure the drain hose with the VT wire.



This air conditioner uses new refrigerant HFC (R410A).

The basic installation work procedures are the same as conventional refrigerant models. However, pay careful attention to the following points:

- Since the working pressure is 1.6 times higher than that of conventional refrigerant models, some of the piping and installation and service tools are special. (See the table below.) Especially, when replacing a conventional refrigerant model with a new refrigerant R410A model, always replace the conventional 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 UNF 20 threads per inch.]
- Be more careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant models. Also, when storing the piping, securely seal the openings by pinching, taping, etc.
- 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.

Special tools for R410A

Tool name	Contents of change
Gauge manifold	Pressure is high and cannot be measured with a conventional gauge. To prevent erroneous mixing of other refrigerants, the diameter of each port has been changed. It is recommended the gauge with seals -0.1 to 5.3 MPa (-76 cmHg to 53 kgf/cm²) for high pressure. -0.1 to 3.8 MPa (-76 cmHg to 38 kgf/cm²) for low pressure.
Charge hose	To increase pressure resistance, the hose material and base size were changed.
Vacuum pump	A conventional vacuum pump can be used by installing a vacuum pump adapter.
Gas leakage detector	Special gas leakage detector for HFC refrigerant R410A.

Copper pipes

It is necessary to use seamless copper pipes and it is desirable that the amount of residual oil is less than 40 mg/10 m. Do not use copper pipes having a collapsed, deformed or discolored portion (especially on the interior surface). Otherwise, the expansion valve or capillary tube may become blocked with contaminants.

As an air conditioner using R410A incurs pressure higher than when using conventional refrigerant, it is necessary to choose adequate materials. Thicknesses of copper pipes used with R410A are as shown in table. Never use copper pipes thinner than that in the table even when it is available on the market.

Thicknesses of Annealed Copper Pipes	
Outer diameter mm (inch)	Thickness mm (inch)
6.35 (1/4)	0.80 (0.0315)
9.52 (3/8)	0.80 (0.0315)
12.7 (1/2)	0.80 (0.0315)
15.88 (5/8)	1.00 (0.0394)

CAUTION

This installation instruction sheet describes how to the indoor unit only. To install the outdoor unit, refer to the installation instruction sheet included with the outdoor unit.

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.

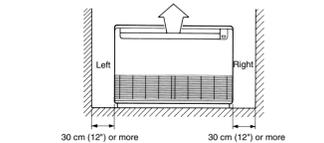
- CAUTION**
- Do not install where there is the danger of combustible gas leakage.
 - Do not install near heat sources.
 - If children under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit.

Decide the mounting position with the customer as follows:

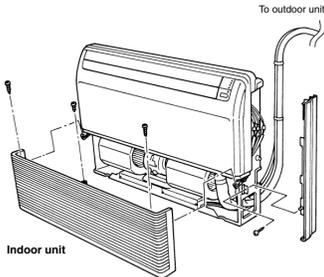
INDOOR UNIT

- Install the indoor unit level on a strong wall, floor, ceiling which is not subject to vibration.
- The inlet and outlet ports should not be obstructed: the air should be able to blow all over the room.
- Install the unit near an electric outlet or special branch circuit.
- 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 servicing, etc., into consideration and leave the spaces shown in figure. Also install the unit where the filter can be removed.

• Floor console

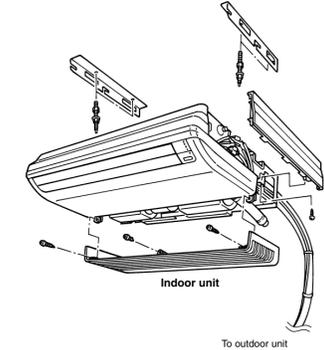


Floor console



Indoor unit

Under ceiling

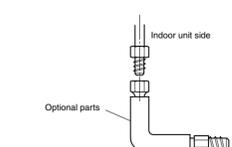


Indoor unit

To outdoor unit

3. CONNECTION PIPES

(1) Centering the pipe against port on the indoor unit, turn the flare nut with your hand. Be sure that the small pipe is completely installed before connecting the large pipe.



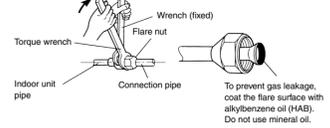
CAUTION

Be sure to apply the pipe against the port on the indoor unit correctly. If the centering is improper, the flare nut cannot be tightened smoothly. If the flare nut is forced to turn, the threads will be damaged.

(2) Install the outdoor unit wall cap (supplied with the optional installation set or procured at the site) to the wall hole pipe.

(3) Connect the outdoor unit and indoor unit piping.

(4) After matching the center of the flare surface and tightening the nut hand tight, tighten the nut to the specified tightening torque with a torque wrench.



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)
12.7 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)

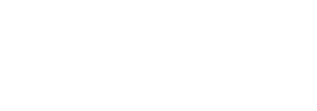
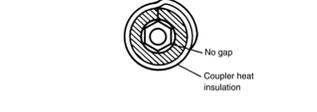
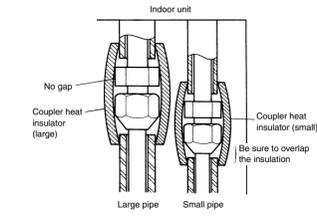
Do not remove the cap from the connection pipes before connecting the pipe.

CAUTION

Be sure to connect the large pipe after connecting the small pipe completely.

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

Put coupler heat insulator on the joints (indoor side only).



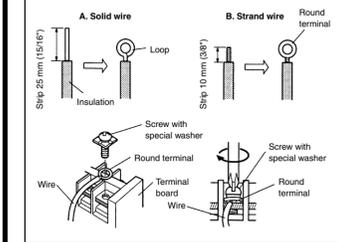
4 HOW TO CONNECT WIRING TO THE TERMINALS

A. For solid core wiring

- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm (1 5/16") 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 end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm (3/8") 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.

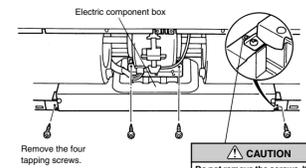
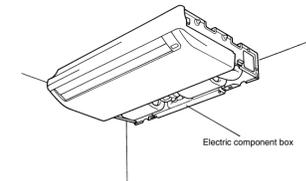


5 ELECTRICAL WIRING

- CAUTION**
- Match the terminal block 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 block. 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.

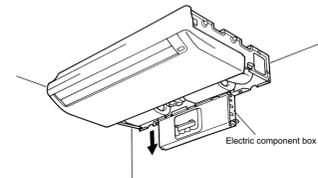
INDOOR UNIT SIDE

(1) Remove the electric component box.

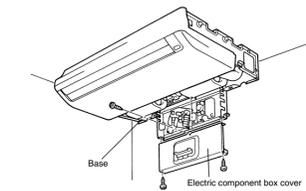


CAUTION
Do not remove the screws. If the stays are removed, the electric component box will fall.

(2) Pull out the electric component box.



(3) Remove the electric component box cover.

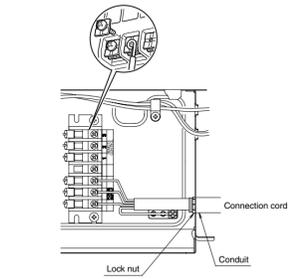


Remove the three tapping screws.

CAUTION
Be careful not to pinch the lead wires between the electric component box and base.

(4) Wiring

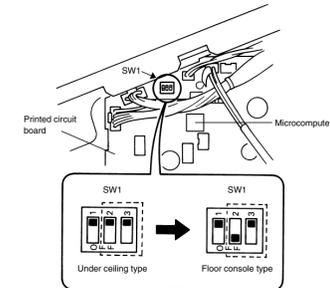
- Process the end of the connection cords to the dimensions shown in figure.
- Connect the end of the connection cord fully into the terminal block.



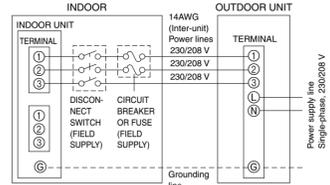
- Fasten the end of the connection cord with the screw.
- Use lock nuts to secure the conduit tube.

(5) Floor console/Under ceiling select switch

- The electrical circuits for this were set for use as a ceiling type at the factory.
- The following changes must be made to the settings if the unit is to be used as a floor type.
- Changing the settings for the electrical circuits. Switch 1 (SW1) on the printed circuit board inside the electric component box must be set as follows.



WIRING SYSTEM DIAGRAM



WARNING
Disconnect switch and circuit breaker for over current protection given in the table below is to be installed between the indoor unit and the outdoor unit.

Disconnect switch	Circuit breaker (or Fuse)
15A	240 V - 5A

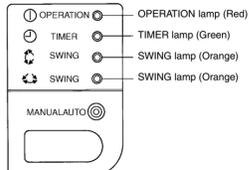
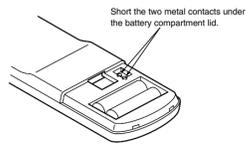
- CAUTION**
- Be sure to refer to the above diagram and do correct field wiring. Wrong wiring causes malfunction of the unit.
 - Check local electrical codes and also any specific wiring instructions or limitation.

6 TEST RUNNING

CAUTION

Always turn on the power 4 hours prior to the start of the operation in order to ensure compressor protection.

- Perform test operation and check items (1) to (5) 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).



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

• Test running

- When the air conditioner is run by pressing the remote control unit TEST RUN button, the OPERATION and TIMER lamps flash slowly at the same time.

CAUTION

If the indoor units are connected with a capacity outside of the recommended range, the indoor units will not function and the indoor unit lamps will flash in the following error patterns.

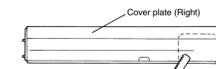
OPERATION LAMP (red)....flashes fast
SWING LAMP (orange)....flashes 4 times slowly and goes off repeatedly

7

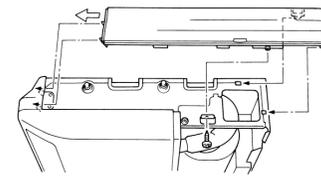
MOUNT THE COVER PLATE AND THE INTAKE GRILLE

1. MOUNT THE COVER PLATE (RIGHT)

- Cut a pipe exit hole in the right plate. This is only when the pipe exits from the right side. (This operation is not required when the protrusion is on the top or rear.)

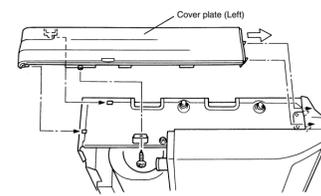


(2) Join the cover plates (right) and mount with screws.



2. MOUNT THE COVER PLATE (LEFT)

Join the cover plates (left) and mount with screws.



8

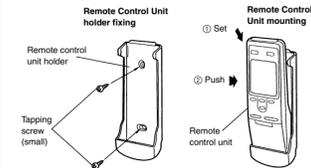
REMOTE CONTROL UNIT INSTALLATION

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 with a distance of 7 m (23 ft) between the remote control unit and the photocell as the criteria. However, when installing the remote control unit, check that it operates positively.
- Install the remote control unit holder to a wall, pillar, etc. with the tapping screw.



2. SWITCHING REMOTE CONTROL UNIT SIGNAL CODES

- Air conditioner settings
- Confirm the setting of the remote control unit signal code and the printed circuit board setting. If these are not confirmed, the remote control unit cannot be used to operate for the air conditioner.

Jumper wire		Remote control unit signal code	
JM2	JM3		
Connect	Connect	A (Primary setting)	
Connect	Disconnect	B	
Disconnect	Connect	C	
Disconnect	Disconnect	D	

9 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 switching, and other remote control unit operations.
- Air filter removal and cleaning, and how to use the air louvers.
- 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).

10 WIRED REMOTE CONTROL UNIT SETTING (OPTIONAL)

CAUTION

- When the optional wired remote control is used, please refer to the wired remote control manual supplied with the wired remote control.
- When the unit is set for the optional wired remote control, the wireless remote control cannot be used.
- When the unit is set for the optional wired remote control, MANUAL/AUTO switch on the indoor unit cannot be used.
- When the unit is set for the optional wired remote control, the Display Timer lamp (Green) on the indoor unit will no longer light.

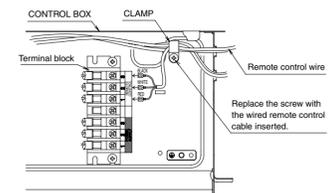
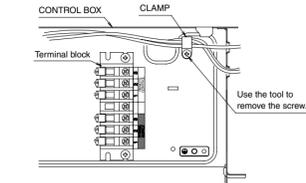
BEFORE INSTALL WIRED REMOTE CONTROL UNIT

- The wired remote control unit is an option. It isn't included in main body of air-conditioner.
 - When you use wired remote control unit, some functions may not be used.
 - please use the recommended wired remote control unit.
- (Before installing, please read the FEATURES AND FUNCTIONS section of OPERATING MANUAL to confirm the concerned contents.)

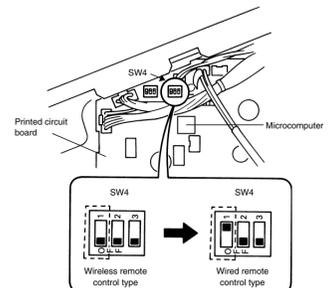
CAUTION

- Before installing, be sure to disconnect all power supply.
- Don't touch the heat exchanger.
- During installing or removing operation, be sure not to have wire caught by parts or draw it hard. Or it may result troubles to the air-conditioner.
- Avoid place in direct sunlight.
- Select place that will not be affected by the heat from a stove, etc.
- Insure the length of wire is not over the recommended maximum length.
- Before setting up the wired remote control unit, please confirm whether air-conditioner can receive the signal.

When using the optional wired remote control, perform the wiring as shown below.

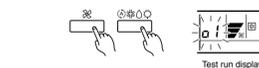


- Wireless remote control/wired remote control select switch**
- The electrical circuits for this were set for use as a wireless type at the factory.
 - The following changes must be made to the settings if the unit is to be used as a wired type.
 - Changing the settings for the electrical circuits. Switch 4 (SW4) on the printed circuit board inside the electric component box must be set as follows.



TEST RUN

- 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.



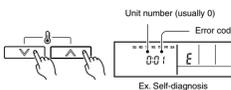
(3) Press the start/stop button to stop the test run.

[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.

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.



- Press the set temperature buttons Δ / ∇ simultaneously for 5 seconds or more to stop the self-diagnosis.

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
08	Power source connection error
09	Float switch operated
0A	Outdoor temperature sensor
0c	Discharge pipe temperature sensor
11	Model abnormal
12	Indoor fan abnormal
13	Outdoor signal abnormal
14	Excessive outdoor pressure (permanent stop)
15	Compressor temperature sensor
16	Pressure switch error
17	IPM error
18	CT error
19	Active filter module (AFM) error
1A	Compressor does not operate
1b	Outdoor unit fan error
1c	Communication error (inverter → multicontroller)
1d	2 way valve sensor error
1E	Expansion valve error
1F	Connection indoor unit error

SPECIAL INSTALLATION METHODS

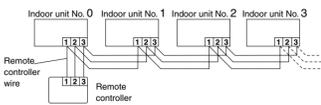
CAUTION

- 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.

(1) Wiring method (indoor unit to remote controller)

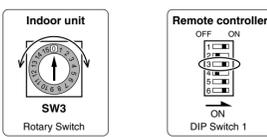


(2) Rotary switch setting (indoor unit)

Set the unit number of each indoor unit using the rotary switch on the indoor unit circuit board. The rotary switch is normally set to 0.

(3) DIP switch setting (remote controller)

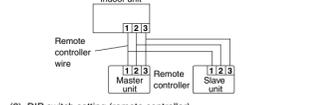
Change DIP switch 1 No. 3 on the remote controller from OFF to ON.



2. DUAL REMOTE CONTROLLERS (OPTIONAL)

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

(1) Wiring method (indoor unit to remote controller)



(2) DIP switch setting (remote controller)

Set the remote controller DIP switch 1 No. 1 and 2 according to the following table.

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

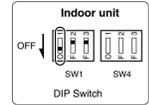
3. AUTO RESTART

- 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.

(1) 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
	3	— —	—
DIP-Switch 4	1	Wireless * Wired	Remote controller setting
	2	— *	Air flow setting
3	— *	—	—

Remote controller

No.	SW state		Detail	
	OFF	ON		
1	—	+	Dual remote controller setting	
2	*	—	—	
DIP-switch 1	3	* One unit	Multiple units Group control setting	
	4	* Heat & cool mode	Cooling only mode Model setting	
5	Invalidity	* Validity	AUTO changepower setting	
	* Invalidity	Validity	Memory Backup setting	
1	* Validity	Invalidity	THERMO SENSOR button setting	
	* Validity	Invalidity	ENERGY SAVE button setting	
DIP-switch 2	3	Validity	Invalidity	Horizontal airflow direction and swing button setting
	4	Validity	Invalidity	Vertical airflow direction and swing button setting
5	* Fixed at OFF	—	Cannot be used.	
6	* Fixed at OFF	—	Cannot be used.	

(*: Factory setting)

11 FRESH AIR INTAKE

- Open the hole and connect the duct.

