

DAIKIN ROOM AIR CONDITIONER
INSTALLATION MANUAL
R410A Split Series



Installation manual
Manuel d'installation
Manual de instalación

MODELS

FTXN09KEVJU
FTXN12KEVJU

Safety Precautions




- Read these Safety Precautions carefully to ensure correct installation.
- This manual classifies the precautions into DANGER, WARNING and CAUTION. Be sure to follow all the precautions below: they are all important for ensuring safety.

 **DANGER**Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.


 **WARNING**Failure to follow any of WARNING is likely to result in such grave consequences as death or serious injury.


 **CAUTION**Failure to follow any of CAUTION may in some cases result in grave consequences.

- The following safety symbols are used throughout this manual:

 Be sure to observe this instruction.	 Be sure to establish a ground connection.	 Never attempt.
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- After completing installation, test the unit to check for installation errors. Give the user adequate instructions concerning the use and cleaning of the unit according to the Operation Manual.

 DANGER
<ul style="list-style-type: none"> • Refrigerant gas is heavier than air and replaces oxygen. A massive leak could lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
<ul style="list-style-type: none"> • If the refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce a toxic gas if it comes in contact with fire such as from a fan heater, stove or cooking device. Exposure to this gas could cause severe injury or death.
<ul style="list-style-type: none"> • After completing the installation work, check that the refrigerant gas does not leak. Refrigerant gas may produce a toxic gas if it comes in contact with fire such as from a fan heater, stove or cooking device. Exposure to this gas could cause severe injury or death.
<ul style="list-style-type: none"> • Do not ground units to water pipes, telephone wires or lightning rods because incomplete grounding could cause a severe shock hazard resulting in severe injury or death, and to gas pipes because a gas leak could result in an explosion which could lead to severe injury or death.
<ul style="list-style-type: none"> • Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries. Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of death by suffocation.
<ul style="list-style-type: none"> • Do not install unit in an area where flammable materials are present due to risk of explosion resulting in serious injury or death.
<ul style="list-style-type: none"> • Do not ground units to telephone wires or lightning rods because lightning strikes could cause a severe shock hazard resulting in severe injury or death, and to gas pipes because a gas leak could result in an explosion which could lead to severe injury or death.

 WARNING
<ul style="list-style-type: none"> • Installation should be left to the authorized dealer or another trained professional. Improper installation may cause water leakage, electrical shock, fire, or equipment damage.
<ul style="list-style-type: none"> • Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, fire or equipment damage.
<ul style="list-style-type: none"> • Be sure to use the supplied or exact specified installation parts. Use of other parts may cause the unit to come to fall, water leakage, electrical shock, fire or equipment damage.
<ul style="list-style-type: none"> • Install the air conditioner on a solid base that is level and can support the weight of the unit. An inadequate base or incomplete installation may cause injury or equipment damage in the event the unit falls off the base or comes loose.
<ul style="list-style-type: none"> • Electrical work should be carried out in accordance with the installation manual and the national, state and local electrical wiring codes. Insufficient capacity or incomplete electrical work may cause electrical shock, fire or equipment damage.
<ul style="list-style-type: none"> • Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance. Follow all appropriate electrical codes.
<ul style="list-style-type: none"> • For wiring, use a wire or cable long enough to cover the entire distance with no splices if possible. Do not use an extension cord. Do not put other loads on the power supply. Use an only a separate dedicated power circuit. (Failure to do so may cause abnormal heat, electric shock, fire or equipment damage.)
<ul style="list-style-type: none"> • Use the specified types of wires for electrical connections between the indoor and outdoor units. Follow all state and local electrical codes. Firmly clamp the inter-unit wire so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating, fire or equipment damage.
<ul style="list-style-type: none"> • After connecting all wires be sure to shape the cables so that they do not put undue stress on the electrical covers, panels or terminals. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, fire or equipment damage.
<ul style="list-style-type: none"> • When installing or relocating the system, be sure to keep the refrigerant circuit free from all substances other than the specified refrigerant (R410A), such as air. (Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise which may result in rupture, resulting in injury.)

Safety Precautions

⚠ WARNING

- During pump-down, stop the compressor before removing the refrigerant piping.
If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormally high pressure which could lead to equipment damage or and personal injury.
- During installation, attach the refrigerant piping securely before running the compressor.
If the compressor is not attached and the stop valve is open during pump-down, air will be sucked in when the compressor is run, causing abnormally high pressure which could lead to equipment damage and personal injury.
- Be sure to install a ground fault circuit interrupter breaker.
Failure to install a ground fault circuit interrupter breaker may result in electrical shocks, or fire personal injury.

⚠ CAUTION

- Do not install the air conditioner where gas leakage would be exposed to open flames.
If the gas leaks and builds up around the unit, it may catch fire. ⊘
- Establish drain piping according to the instructions of this manual. Inadequate piping may cause water damage.
- Tighten the flare nut according to the specified torque. A torque wrench should be used.
If the flare nut is tightened too much, the flare nut may crack over time and cause refrigerant leakage.
- Do not touch the heat exchanger fins.
Improper handling may result in injury. ⊘
- Be very careful about product transportation.
Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.
- Electrical work must be performed in accordance with the NEC/CEC by authorized personnel only.

Accessories

Indoor unit (A) – (K),

(A) Mounting plate	1	(E) Remote controller holder	1	(J) Operation manual	1
(B) Mounting plate fixing screw 3/16" × 1" (M4 × 25mm)	6	(F) Fixing screw for remote controller holder 1/8" × 13/16" (M3 × 20mm)	2	(K) Installation manual	1
(C) Titanium apatite photocatalytic air-purifying filter	2	(G) Dry battery AAA. LR03 (alkaline)	2		
(D) Wireless remote controller	1	(H) Indoor unit fixing screw 3/16" × 1/2" (M4 × 12mm)	2		

Choosing an Installation Site

- Before choosing the installation site, obtain user approval.

1. Indoor unit

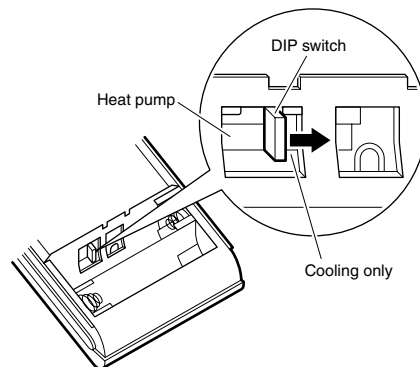
- The indoor unit should be sited in a place where:
 - 1) the restrictions on installation specified in the indoor unit installation drawings are met,
 - 2) both air inlet and air outlet have clear paths met,
 - 3) the unit is not in the path of direct sunlight,
 - 4) the unit is away from the source of heat or steam,
 - 5) there is no source of machine oil vapour (this may shorten indoor unit life),
 - 6) cool (warm) air is circulated throughout the room,
 - 7) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range,
 - 8) the unit is at least 3.5 feet (1m) away from any television or radio set (unit may cause interference with the picture or sound),
 - 9) no laundry equipment is located.

2. Wireless remote controller

- 1) Turn on all the fluorescent lamps in the room, if any, and find the site where remote control signals are properly received by the indoor unit (within 23 feet (7m)).
- 2) Make the DIP switch settings. Set according to the type of unit purchased by the customer. The default settings are on the heat pump side.

- **For cooling only** (Outdoor unit model: RKN)

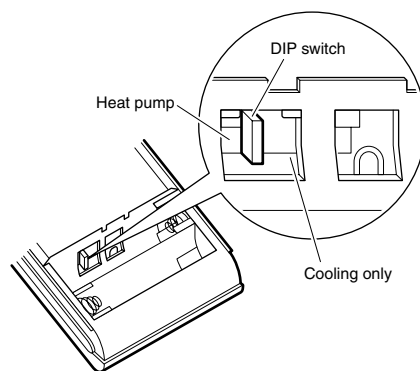
Set the DIP switch on the cooling only side.



- **For heat pump** (Outdoor unit model: RXN)

Check that the DIP switch are on the heat pump side.

If they are set on the cooling only side, move them to the heat pump side.

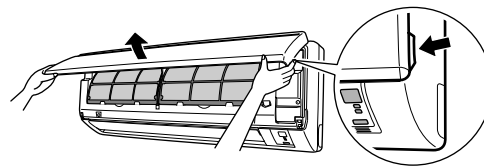


Preparation before Installation

1. Removing and installing front panel

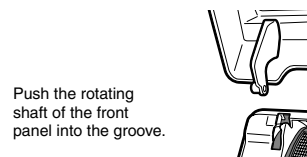
• Removal method

Hook fingers on the tabs on the left and right of the main body, and open until the panel stops. Slide the front panel sideways to disengage the rotating shaft. Then pull the front panel toward you to remove it.



• Installation method

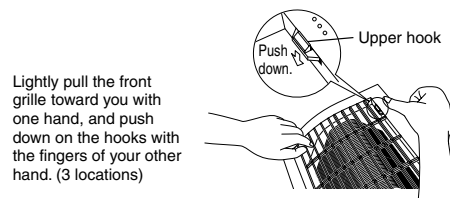
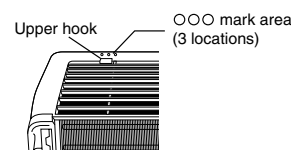
Align the tabs of the front panel with the grooves, and push all the way in. Then close slowly. Push the center of the lower surface of the panel firmly to engage the tabs.



2. Removing and installing front grille

• Removal method

- 1) Remove front panel to remove the air filter.
- 2) Remove 2 screws from the front grille.
- 3) In front of the ○○○ mark of the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with one hand, and push down on the hooks with the fingers of your other hand.



When there is no work space because the unit is close to ceiling

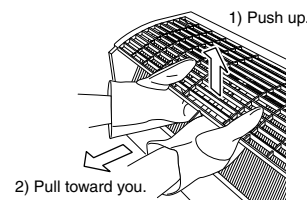
⚠ CAUTION

- Be sure to wear protection gloves.

Place both hands under the center of the front grille, and while pushing up, pull it toward you.

• Installation method

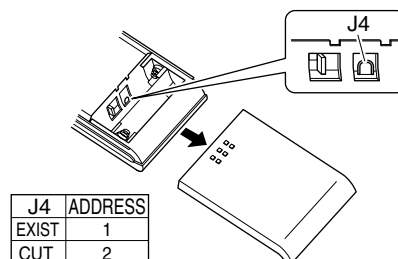
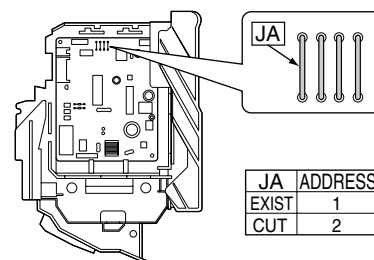
- 1) Install the front grille and firmly engage the upper hooks (3 locations).
- 2) Install 2 screws of the front grille.
- 3) Install the air filter and then mount the front panel.



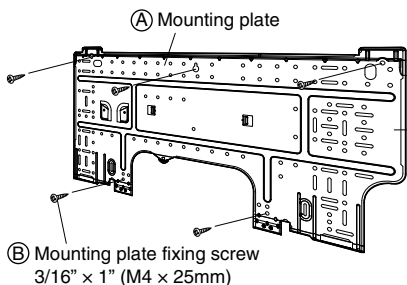
3. How to set the different addresses

When two indoor units are installed in one room, the two wireless remote controllers can be set for different addresses.

- 1) In the same way as when connecting to an HA system, remove the metal plate electrical wiring cover.
- 2) Cut the address jumper (JA) on the printed circuit board.
- 3) Cut the address jumper (J4) in the remote controller.



Indoor Unit Installation Drawings

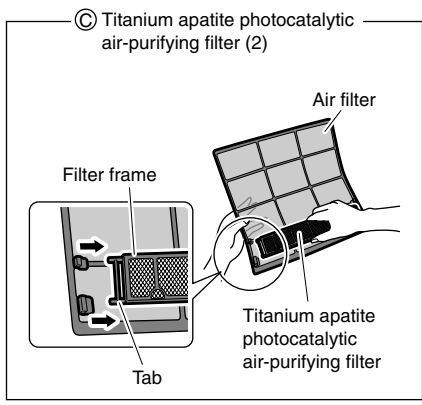
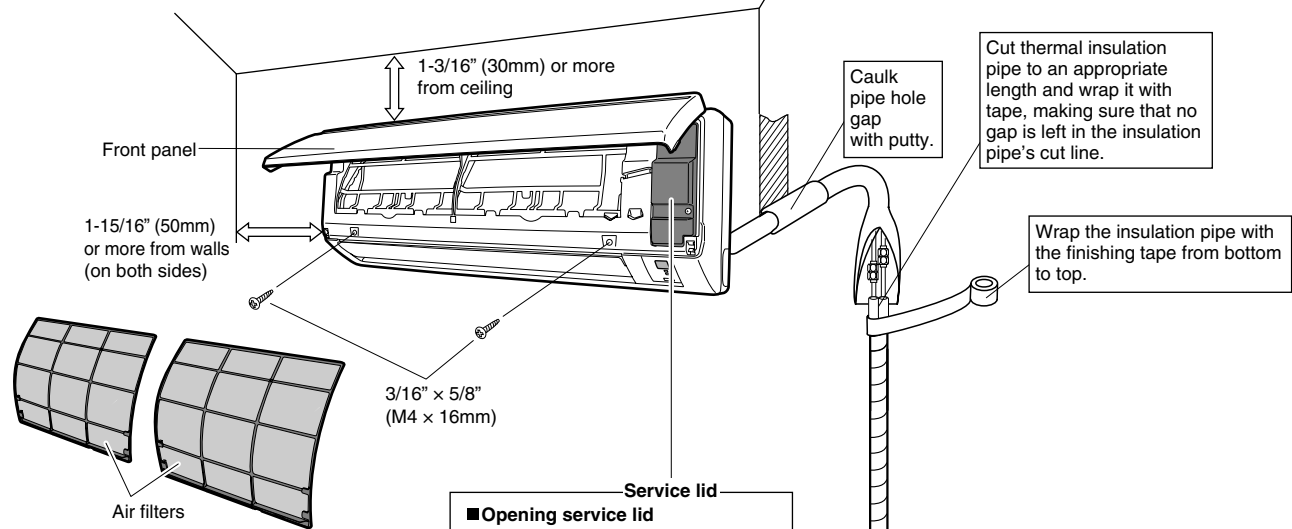


The mounting plate should be installed on a wall which can support the weight of the indoor unit.

How to attach the indoor unit
 Hook the claws of the bottom frame to the mounting plate.
 If the claws are difficult to hook, remove the front grille.

How to remove the indoor unit
 Push up the marked area (at the lower part of the front grille) to release the claws. If it is difficult to release, remove the front grille.

Diagram illustrating the attachment and removal of the indoor unit. Labels include: Mounting plate, Clip, Bottom frame, Front grille, and Mark (rear side).

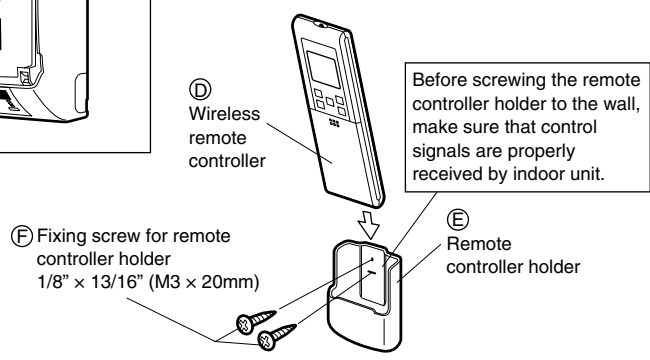


Service lid
 Service lid is opening/closing type.

Opening method

- 1) Remove the service lid screws.
- 2) Pull out the service lid diagonally down in the direction of the arrow.
- 3) Pull down.

Diagram illustrating the removal of the service lid.

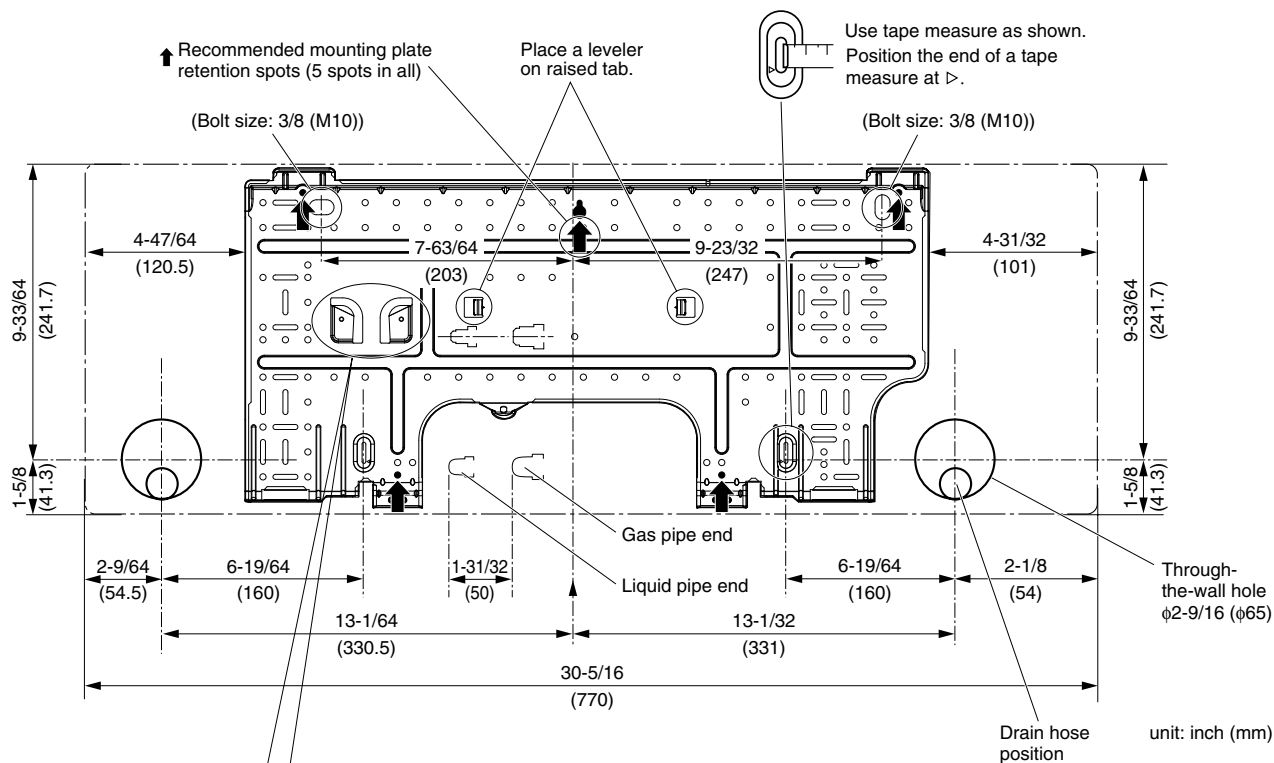


Indoor Unit Installation

1. Installing the mounting plate

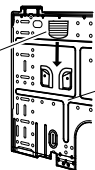
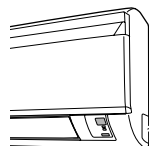
- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
 - Temporarily secure the mounting plate to the wall, make sure that the plate is completely level, and mark the boring points on the wall.
 - Secure the mounting plate to the wall with screws.

Recommended mounting plate retention spots and dimensions



* The removed pipe port cover can be kept in the mounting plate pocket.

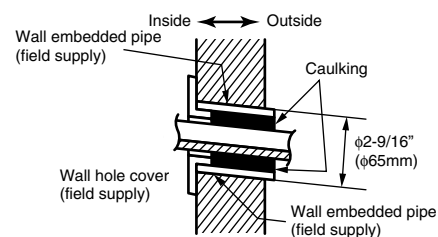
Removed pipe port cover



Ⓐ Mounting plate

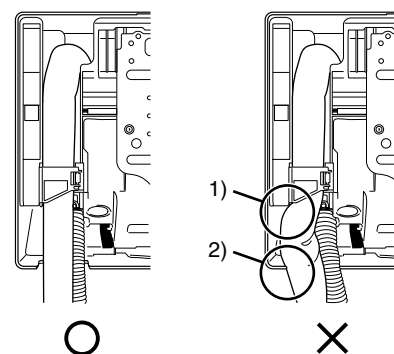
2. Boring a wall hole and installing wall embedded pipe

- For walls containing metal frame or metal board, be sure to use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.
- Be sure to caulk the gaps around the pipes with caulking material to prevent water leakage.
 - 1) Bore a feed-through hole of 2-9/16 inch (65mm) in the wall so it has a down slope toward the outside.
 - 2) Insert a wall pipe into the hole.
 - 3) Insert a wall cover into wall pipe.
 - 4) After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty.



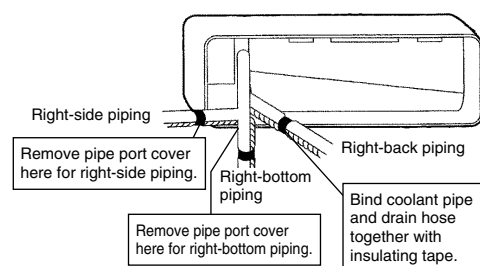
3. Installing indoor unit

- In the case of bending or curing refrigerant pipes, keep the following precautions in mind.
Abnormal sound may be generated if improper work is conducted.
 - 1) Do not strongly press the refrigerant pipes onto the bottom frame.
 - 2) Do not strongly press the refrigerant pipes on the front grille, either.

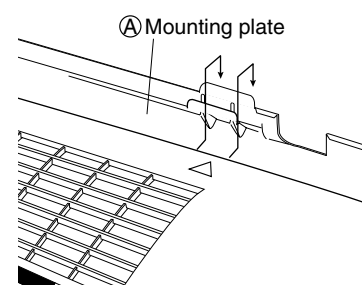


3-1. Right-side, right-back, or right-bottom piping

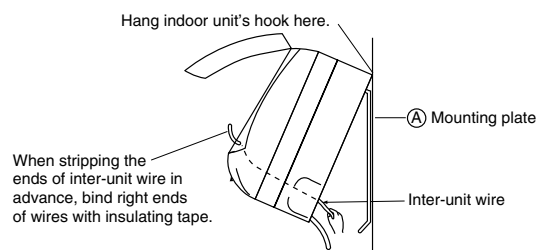
- 1) Attach the drain hose to the underside of the refrigerant pipes with an adhesive vinyl tape.
- 2) Wrap the refrigerant pipes and drain hose together with insulation tape.



- 3) Pass the drain hose and refrigerant pipes through the wall hole, then set the indoor unit on the mounting plate hooks by using the Δ markings at the top of the indoor unit as a guide.



- 4) Open the front panel, then open the service lid.
- 5) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and then through the back of the indoor unit. Pull them through the front side. Bend the ends of tie wires upward for easier work in advance. (If the inter-unit wire ends are to be stripped first, bundle wire ends with adhesive tape.)
- 6) Press the bottom frame of the indoor unit with both hands to set it on the mounting plate hooks. Make sure the wires do not catch on the edge of the indoor unit.



Indoor Unit Installation

3-2. Left-side, left-back, or left-bottom piping

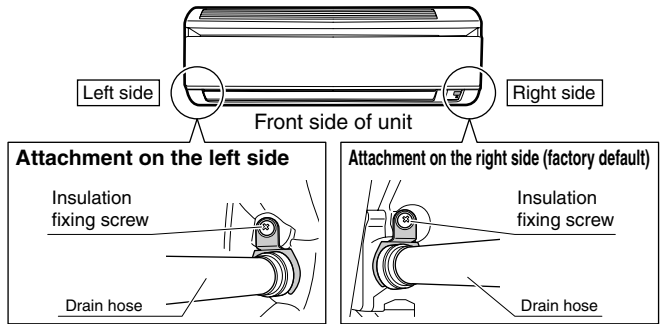
How to replace the drain plug and drain hose

• Replacing onto the left side

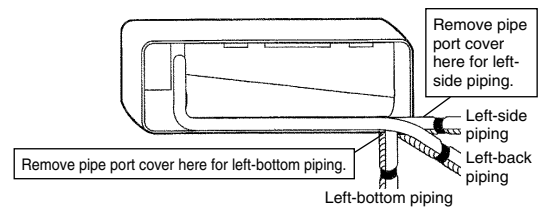
- 1) Remove the insulation fixing screws on the right and remove the drain hose.
- 2) Remove the drain plug on the left side and attach it to the right side.
- 3) Insert the drain hose and tighten with included insulation fixing screw.
* (Forgetting to tighten this may cause water leakages.)

Drain hose attachment position

* The drain hose is on the back of the unit.

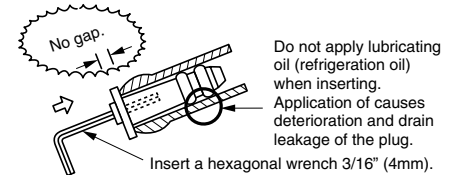


- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.

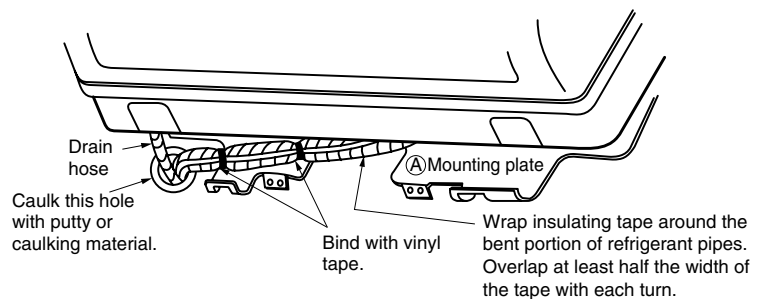


- 2) Be sure to connect the drain hose to the drain port in place of a drain plug.

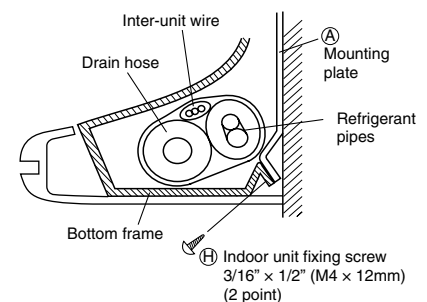
How to set drain plug.



- 3) Shape the refrigerant pipes along the pipe path marking on the mounting plate.
- 4) Pass drain hose and refrigerant pipes through the wall hole, then set the indoor unit on mounting plate hooks, using the Δ markings at the top of indoor unit as a guide.
- 5) Pull in the inter-unit wire.
- 6) Connect the inter-unit pipes.

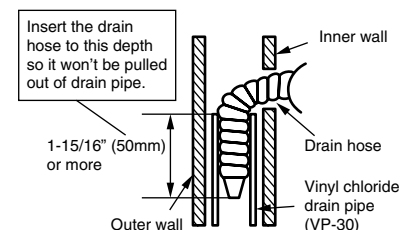


- 7) Wrap the refrigerant pipes and drain hose together with insulation tape as right figure, in case of setting the drain hose through the back of the indoor unit.
- 8) While exercising care so that the inter-unit wire do not catch indoor unit, press the bottom edge of indoor unit with both hands until it is firmly caught by the mounting plate hooks. Secure indoor unit to the mounting plate with indoor unit fixing screws $3/16 \times 1/2$ inch ($M4 \times 12mm$).



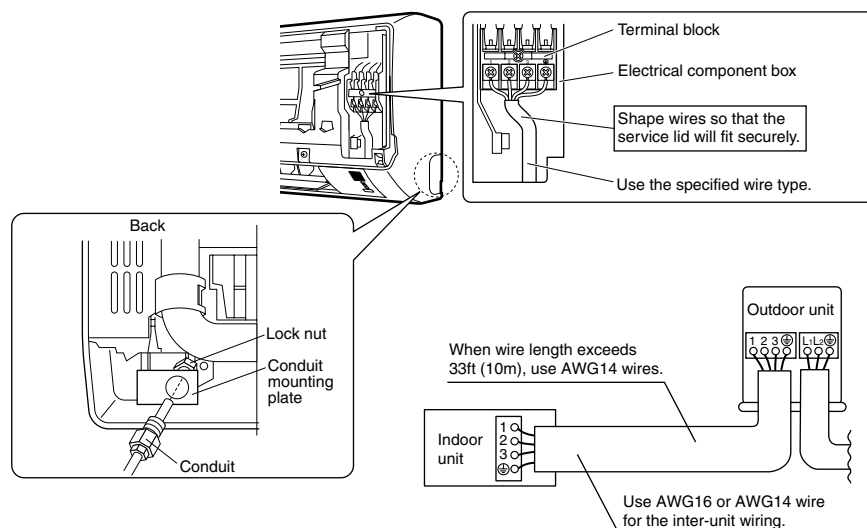
3-3. Wall embedded piping

- Insert the drain hose to this depth so it won't be pulled out of the drain pipe.



4. Wiring

- 1) As shown in the illustration, insert the wires including the ground wire into the conduit and secure them with lock nut onto the conduit mounting plate.
- 2) Strip wire ends (9/16 inch (15mm)).
- 3) Match wire colors with terminal numbers on indoor and outdoor unit's terminal blocks and firmly screw wires to the corresponding terminals.
- 4) Connect the ground wires to the corresponding terminals.
- 5) Pull wires to make sure that they are securely latched up.
- 6) In case of connecting to an adapter system. Run the remote control cable and attach the S21.
- 7) Shape the wires so that the service lid fits securely, then close service lid.



⚠ WARNING

- Do not use tapped wires, strand wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- When carrying out wiring connection, take care not to pull at the conduit.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

5. When connecting to a wired remote controller

- * If work space is available on the right side of the indoor unit, the work can be performed with the electrical component box attached. Omit the steps involved with removing and installing the electrical component box in order to perform the work more efficiently.

5-1. Remove the front grille (2 screws).

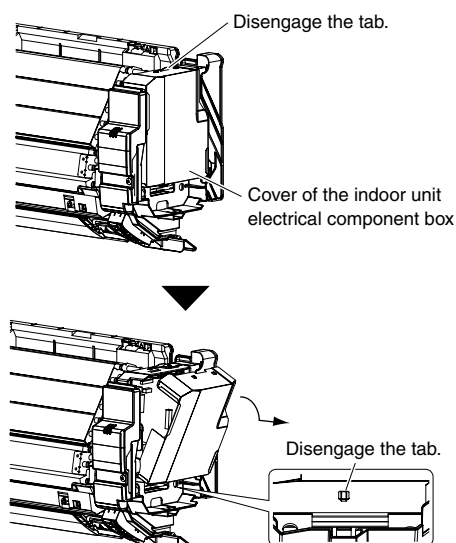
5-2. Remove the service lid (1 screw).

5-3. Remove the cover from the indoor unit electrical component box [Figure 1].

- * **5-4. Remove the indoor unit electrical component box.**

- 1) Remove the louver.
- 2) Disconnect the communication wire.
- 3) Disconnect the connector (S200).
- 4) Remove the thermistor from the heat exchanger.
- 5) Remove the electrical component box installation screw (1 screw).

Figure 1: Removing the cover from the indoor unit electrical component box



Indoor Unit Installation

5-5. Prepare the accessory (separate product) [Figure 2].

- 1) Remove the cover from the accessory (separate product).
- 2) Insert the connection cord into connector "S21" (white) in the accessory (separate product).
- 3) Route each of the connection cords through the cut-outs in the accessory, then reinstall the accessory cover in its original position.
- 4) Insert the accessory (separate product) connector into connector "S403" in the indoor unit electrical component box. Then route the connection cord through the cut-out in the indoor unit electrical component box.

5-6. Install the cover of the electrical component box in its original position [Figure 3].

5-7. Install the accessory (separate product) [Figure 3].

- 1) Install the accessory (separate product) into the indoor unit electrical component box.
- 2) Route the connection cord as shown in [Figure 3].

* 5-8. Install the indoor unit electrical component box in its original position.

- 1) Install the louver.
- 2) Install the electrical component box (1 screw).
- 3) Install the thermistor in its original position on the heat exchanger.
- 4) Install the connector (S200) in its original position.
- 5) Connect the communication wire in its original position.

5-9. Install the front grille in its original position (2 screws).

5-10. Install the service lid (1 screw).

Figure 2: Preparing the accessory

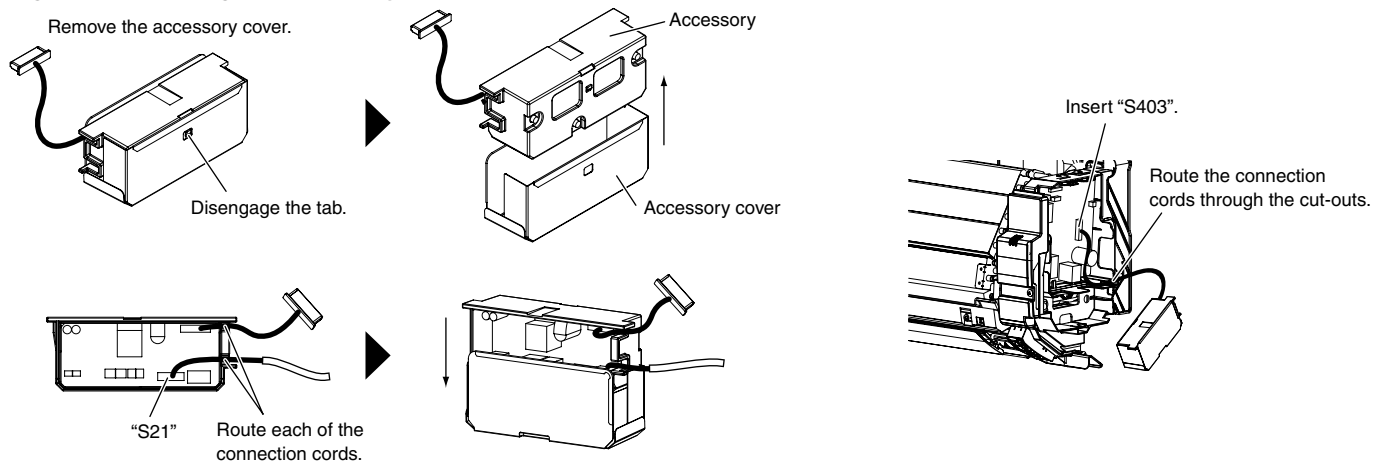
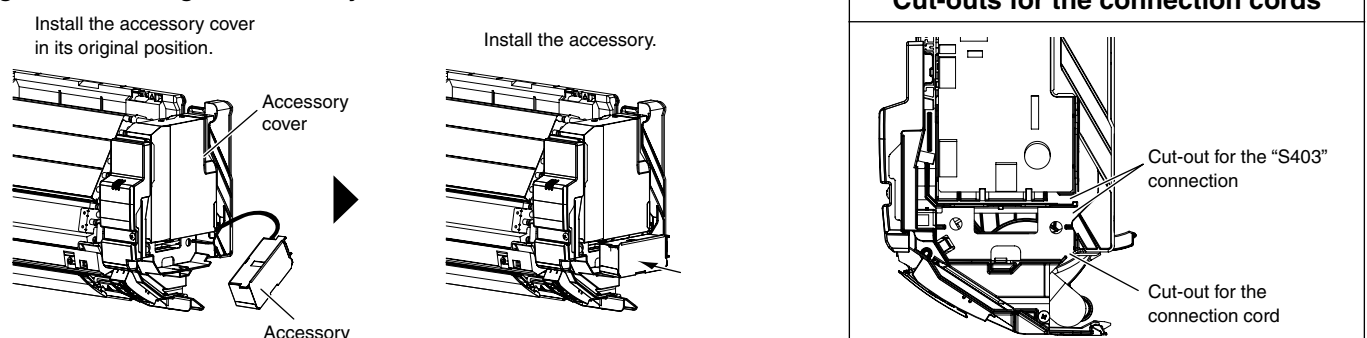
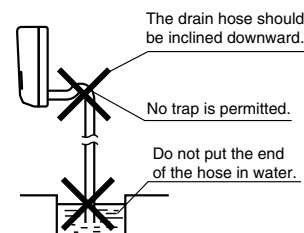


Figure 3: Installing the accessory

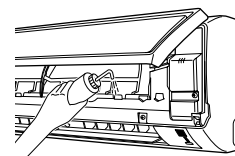


6. Drain piping

1) Connect the drain hose, as described right.

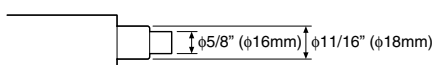


2) Remove the air filters and pour some water into the drain pan to check the water flows smoothly.

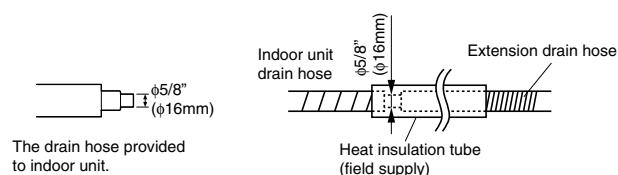


3) If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end.

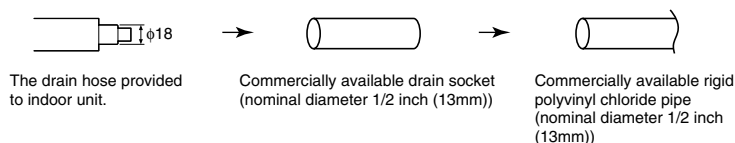
[Figure of hose front end]



4) When extending the drain hose, use a commercially available extension hose with an inner diameter of 5/8 inch (16mm). Be sure to thermally insulate the indoor section of the extension hose.



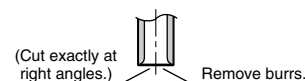
5) When connecting a rigid polyvinyl chloride pipe (nominal diameter 1/2 inch (13mm)) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (nominal diameter 1/2 inch (13mm)) as a joint.



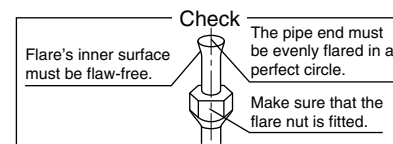
Refrigerant Piping Work

1. Flaring the pipe end

- 1) Cut the pipe end with a pipe cutter.
- 2) Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.
- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring is properly made.



Flaring			
Set exactly at the position shown below.			
Die	Flare tool for R410A		Conventional flare tool
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.020 inch (0-0.5mm)	0.039-0.059 inch (1.0-1.5mm)	0.059-0.079 inch (1.5-2.0mm)



⚠ WARNING

- 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.
- Never install a drier to this R410A unit in order to guarantee its lifetime.
- The drying material may dissolve and damage the system.
- Incomplete flaring may cause refrigerant gas leakage.

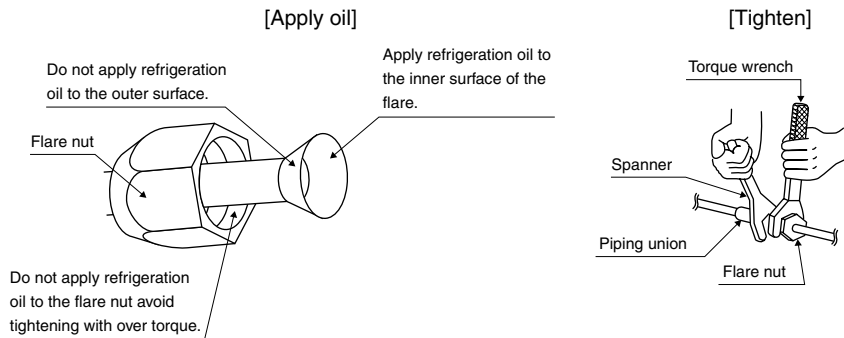
Refrigerant Piping Work

2. Refrigerant piping

⚠ CAUTION

- Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.

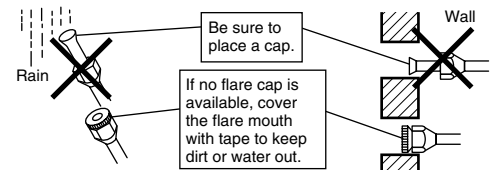
Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches.



Flare nut tightening torque	
Gas side	Liquid side
3/8 inch (9.5mm)	1/4 inch (6.4mm)
24.1-29.4ft • lbf (32.7-39.9N • m)	10.4-12.7ft • lbf (14.2-17.2N • m)

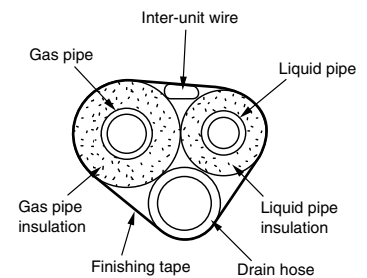
2-1. Caution on piping handling

- 1) Protect the open end of the pipe against dust and moisture.
- 2) All pipe bends should be as gentle as possible. Use a pipe bender for bending.



2-2. Selection of copper and heat insulation materials

- When using commercial copper pipes and fittings, observe the following:
 - 1) Insulation material: Polyethylene foam
Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/fth°F (0.035 to 0.045kcal/mh°C))
Refrigerant gas pipe's surface temperature reaches 230°F (110°C) max.
Choose heat insulation materials that will withstand this temperature.



- 2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

Gas side	Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation
O.D. 3/8 inch (9.5mm)	O.D. 1/4 inch (6.4mm)	I.D. 0.427-0.590 inch (12-15mm)	I.D. 0.315-0.393 inch (8-10mm)
Minimum bend radius		Thickness 0.393 inch (10mm) Min.	
1-3/16 inch (30mm) or more			
Thickness 0.031 inch (0.8mm) (C1220T-O)			

- 3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

Trial Operation and Testing

1. Trial operation and testing

1-1 Measure the supply voltage and make sure that it falls in the specified range.

1-2 Trial operation should be carried out in either cooling or heating mode.

■ For Heat pump

- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.

1) Trial operation may be disabled in either mode depending on the room temperature.

Use the remote controller for trial operation as described below.

2) After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C) in cooling mode, 68°F to 75°F (20°C to 24°C) in heating mode).

3) For protection, the system disables restart operation for 3 minutes after it is turned off.

■ For Cooling only

- Select the lowest programmable temperature.

1) Trial operation in cooling mode may be disabled depending on the room temperature.

Use the remote controller for trial operation as described below.

2) After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C)).

3) For protection, the system disables restart operation for 3 minutes after it is turned off.

1-3 Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as fin movement, are working properly.

- The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

Trial operation from remote controller

- 1) Press "ON/OFF" button to turn on the system.
- 2) Press "TEMP" button (2 locations) and "MODE" button at the same time.
- 3) Press "MODE" button twice.
("7" will appear on the display to indicate that trial operation mode is selected.)
- 4) Trial operation terminates in approx. 30 minutes and switches into normal mode. To quit a trial operation, press "ON/OFF" button.

2. Test items

Test items	Symptom (diagnostic display on RC)	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly grounded.	Electrical leakage	
The specified wires are used for inter-unit wiring.	Inoperative or burn damage	
Indoor or outdoor unit's air inlet or air outlet has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	
The heat pump or cooling only mode is selectable with the DIP switch of the remote controller.	Remote controller malfunctioning	

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Two-dimensional bar code is a code for manufacturing.

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