SPLIT-TYPE AIR CONDITIONERS **INSTALLATION MANUAL** JG79B582H07

Model names are indicated in 1-3. When installing multi units, refer to the installation manual of the multi unit for outdoor unit installation.

Required Tools for Installation

Phillips screwdriver Level Scale Utility knife or scissors 65 mm hole saw Torque wrench

Wrench (or spanner)

4 mm hexagonal wrench Flare tool for R410A Gauge manifold for R410A Vacuum pump for R410A Charge hose for R410A Pine cutter with reamer

1. BEFORE INSTALLATION

1-1. THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY

- Be sure to read "THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY" before installing the air conditioner
- Be sure to observe the warnings and cautions specified here as they include important items related to safety. After reading this manual, be sure to keep it together with the OPERATING INSTRUCTIONS for future reference.

A WARNING (Could lead to death, serious injury, etc.)

■ Do not install the unit by yourself (user).

Incomplete installation could cause fire, electric shock, injury due to the unit falling, or leakage of water. Consult the dealer from whom you purchased the unit or a qualified installer.

Perform the installation securely referring to the installation manual. Incomplete installation could cause fire, electric shock, injury due

to the unit falling, or leakage of water.

When installing the unit, use appropriate protective equipment

and tools for safety.
Failure to do so could cause injury.

Install the unit securely in a place which can bear the weight of the unit.

If the installation location cannot bear the weight of the unit, the

unit could fall causing injury.
Electrical work should be performed by a qualified, experienced electrician, according to the installation manual. Be sure to use an exclusive circuit. Do not connect other electrical appliances

If the capacity of the power circuit is insufficient or there is incom-plete electrical work, it could result in a fire or an electric shock.

Earth the unit correctly.

Do not connect the earth to a gas pipe, water pipe, lightning rod, or telephone earth. Defective earthing could cause electric shock.

Do not damage the wires by applying excessive pressure with

parts or screws.

Damaged wires could cause fire or electric shock.

Be sure to cut off the main power in case of setting up the

indoor P.C. board or wiring works.

Failure to do so could cause electric shock.

Use the specified wires to connect the indoor and outdoor

units securely and attach the wires firmly to the terminal block connecting sections so the stress of the wires is not applied to the sections. Do not extend the wires, or use intermediate

connection.
Incomplete connecting and securing could cause fire

■ Do not install the unit in a place where inflammable gas may

- leak.

 If gas leaks and accumulates in the area around the unit, it could cause an explosion.
- Do not use intermediate connection of the power cord or the extension cord and do not connect many devices to one AC outlet

It could cause a fire or an electric shock due to defective contact, defective insulation, exceeding the permissible current, etc.

Be sure to use the parts provided or specified parts for the installation work.

The use of defective parts could cause an injury or leakage of water

The use of defective parts could cause an injury or leakage of water due to a fire, an electric shock, the unit falling, etc.

When plugging the power supply plug into the outlet, make sure that there is no dust, clogging, or loose parts in both the outlet and the plug. Make sure that the power supply plug is pushed completely into the outlet.

If there is dust, clogging, or loose parts on the power supply plug or the outlet, it could cause electric shock or fire. If loose parts are found on the power supply plug replace it.

found on the power supply plug, replace it.
Attach the electrical cover to the indoor unit and the service panel to the outdoor unit securely.

If the electrical cover of the indoor unit and/or the service panel of

the outdoor unit are not attached securely, it could result in a fire or an electric shock due to dust, water, etc.

When installing, relocating, or servicing the unit, make sure that no substance other than the specified refrigerant (R410A) enters the refrigerant circuit.

Any presence of foreign substance such as air can cause abnormal pressure rise and may result in explosion or injury. The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

■ Do not discharge the refrigerant into the atmosphere. If refrigerant leaks during installation, ventilate the room.

If refrigerant comes in contact with a fire, harmful gas could be

generated. Refrigerant leakage may cause suffocation. Provide ventilation in accordance with EN378-1.

Check that the refrigerant gas does not leak after installation

has been completed.

If refrigerant gas leaks indoors, and comes into contact with the flame of a fan heater, space heater, stove, etc., harmful substances will be generated.

Use appropriate tools and piping materials for installation.
The pressure of R410A is 1.6 times more than R22. Not using appropriate tools or materials and incomplete installation could cause

the pipes to burst or injury.

When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes.

If the refrigerant pipes are disconnected while the compressor is

running and the stop valve is open, air could be drawn in and the pressure in the refrigeration cycle could become abnormally high. This could cause the pipes to burst or injury.

When installing the unit, securely connect the refrigerant pipes before starting the compressor. If the compressor is started before the refrigerant pipes are con-

nected and when the stop valve is open, air could be drawn in and the pressure in the refrigeration cycle could become abnormally high. This could cause the pipes to burst or injury

Fasten a flare nut with a torque wrench as specified in this manual. If fastened too tight, a flare nut may break after a long period and

cause refrigerant leakage.
The unit shall be installed in accordance with national wiring

regulations.

A CAUTION

■ Install an earth leakage breaker depending on the installation

place.
If an earth leakage breaker is not installed, it could cause electric Perform the drainage/piping work securely according to the

If there is defect in the drainage/piping work, water could drop from the unit, soaking and damaging household goods.

- Do not touch the air inlet or the aluminum fins of the outdoor
 - This could cause injury
- Do not install the outdoor unit where small animals may live. If small animals enter and touch the electric parts inside the unit, it could cause a malfunction, smoke emission, or fire, Also, advise user to keep the area around the unit clean.
- Do not operate the air conditioner during interior construction and finishing work, or while waxing the floor.

 Before operating the air conditioner, ventilate the room well after such work is performed. Otherwise, it may cause volatile elements

to adhere inside the air conditioner, resulting in water leakage or scattering of dew.

1-2. SELECTING THE INSTALLATION LOCATION

INDOOR UNIT

- Where airflow is not blocked.
- Where cool (or warm) air spreads over the entire room. Rigid wall without vibration. Where it is not exposed to direct sunshine. Do not expose to

installation manual.

direct sunshine also during the period following unpacking to before use.

- Where easily drained.

 At a distance 1 m or more away from your TV and radio.

 Operation of the air conditioner may interfere with radio or TV reception. An amplifier may be required for the affected device.
- In a place as far away as possible from fluorescent and incandescent lights. In order to make the infrared remote control operate the air

conditioner normally. The heat from the lights may cause deformation or the ultraviolet may cause deterioration. Where the air filter can be removed and replaced easily. Where it is away from the other heat or steam source.

REMOTE CONTROLLER

- Where it is easy to operate and easily visible
- Where children cannot touch it. Select a position about 1.2 m above the floor and check that signals from the remote controller are surely received by the indoor unit from that position ('beep' or 'beep beep' receiving tone sounds). After that, attach remote controller holder to a pillar or wall and install wireless remote controller

In rooms where inverter type fluorescent lamps are used, the signal from the wireless remote controller may not be received.

- Where it is not exposed to strong wind. If the outdoor unit is exposed to a wind during defrosting, the defrosting time will be longer.
- Where airflow is good and dustless. Where rain or direct sunlight can be avoided as much as
- where neighbours are not annoyed by operation sound or
- Where neignbours are not controlled to prevent the increase of operation sound or vibration. Where here is no risk of combustible gas leakage. When installing the unit at a high level, be sure to secure the unit leas.

- Where it is at least 3 m away from the antenna of TV set or radio. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is weak. An amplifier may be required for the affected device. Install the unit horizontally.

Please install it in an area not affected by snowfall or blowing snow. In areas with heavy snow, please install a canopy, a pedestal and/or some baffle boards.

It is advisable to make a piping loop near outdoor unit so as

to reduce vibration transmitted from there.

When operating the air conditioner in low outside tempera-ture, be sure to follow the instructions described below.

Never install the outdoor unit in a place where its air inlet/ outlet side may be exposed directly to wind.
To prevent exposure to wind, install the outdoor unit with

its air inlet side facing the wall.

To prevent exposure to wind, it is recommended to install a baffle board on the air outlet side of the outdoor unit. Avoid the following places for installation where air conditioner trouble is liable to occur.

Where flammable gas could leak.
Where there is much machine oil.

Where oil is splashed or where the area is filled with oily smoke (such as cooking areas and factories, in which the

Salty places such as the seaside.

Where sulfide gas is generated such as hot spring, sewage, waste water.

Where there is high-frequency or wireless equipment.

Where there is emission of high levels of VOCs, including phthalate compounds, formaldehyde, etc., which may cause chemical cracking. cause chemical cracking.

1-3. SPECIFICATIONS

(FH25, 35/FH50)

Model		Power supply *1		Wire specifications *2		Pipe size (thickness *3, *4)	
Indoor unit	Outdoor unit	Rated Voltage	Frequency	Breaker capacity	Power supply (3-core)	Indoor/outdoor connecting wire	Gas / Liquid
MSZ-FH25VE2 MSZ-FH35VE2	MUZ-FH25VE(HZ) MUZ-FH35VE		50 Hz	10 A	1.0 mm ²	4-core - 1.0 mm ²	ø9.52 / 6.35 mm (0.8 mm)
MSZ-FH35VE2	MUZ-FH35VEHZ	230 V		12 A	1.5 mm ²		
MSZ-FH50VE2	MUZ-FH50VE(HZ)			16 A	2.0 mm ²		ø12.7 / 6.35 mm (0.8 mm)

Pipe length and height difference 20/30 m Max, pipe length Max. height difference 12/15 m Max. number of bends *5, *6 10 Refrigerant adjustment A *7 30/20 g/m Insulation thickness *8, *9 8 mm

- *1 Connect to the power switch which has a gap of 3 mm or more when open to interrupt the source power phase. (When the power switch is shut off, it must interrupt all phases.)
- *2 Use wires in conformity with design 60245 IEC 57.
 *3 Never use pipes with thickness less than specified. The pres-
- sure resistance will be insufficient.
 *4 Use a copper pipe or a copper-alloy seamless pipe.
- ing.

 *6 Refrigerant pipe bending radius must be 100 mm or more.

 *7 If pipe length exceeds 7 m, additional refrigerant (R410A) charge is required. (No additional charge is required for pipe

*5 Be careful not to crush or bend the pipe during pipe bend-

- length less than 7 m.) Additional refrigerant = A × (pipe length (m) 7)
- *8 Insulation material: Heat resisting foam plastic 0.045 specific gravity
 Be sure to use the insulation of specified thickness. Excessive
- thickness may cause incorrect installation of the indoor unit and insufficient thickness may cause dew drippage.

1-4. INSTALLATION DIAGRAM

ACCESSORIES

Check the following parts before installation. <Indoor unit>

or mm or t and lef

85 mm o more/143 m more for left a back piping (u spacer)

(FH25, 35/FH50)

*2 100/500 mm or more when front

and sides of unit are clear

(FH25, 35/FH50)

spec name plate.

*3 When any 2 sides of left, right and rear of unit are clear *4 The manufacturing year and month is indicated on the

Wall

(1)	Installation plate	1		
(2)	Installation plate fixing screw 4 × 25 mm	5		
(3)	Wireless remote controller	1		
(4)	Felt tape (For left or left-rear piping)			
(5)	Remote controller holder	1		
(6)	Fixing screw for (5) 3.5 × 16 mm (Black)	2		
(7)	Battery (AAA) for (3)	2		
(8)	Air cleaning filter	2		
(9)	Air purifying device	1		

<Outdoor unit>

(10) Drain socket (VE type only)

PARTS TO BE PROVIDED

AII	OUR SITE	
(A)	Indoor/outdoor unit connecting wire*1	1
(B)	Extension pipe	1
(C)	Wall hole sleeve	1
(D)	Wall hole cover	1
(E)	Pipe fixing band	2 to 5
(F)	Fixing screw for (E) 4 × 20 mm	2 to 5
(G)	Piping tape	1
(H)	Putty	1
(1)	Drain hose (or soft PVC hose, 15 mm inner diameter or hard PVC pipe VP16)	1 or 2
(J)	Refrigeration oil	1
(K)	Power supply cord*1	1

Note:

*1 Place indoor/outdoor unit connecting wire (A) and power supply cord (K) at least 1 m away from the TV antenna wire

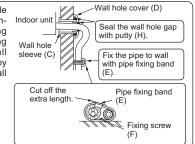
Units should be installed by licensed contractor according to local code requirements.

Appearance of the outdoor unit may differ from some models.

Be sure to use wall hole sleeve (C) to prevent indoor/outdoor connecting wire (A) from contacting metal parts in the wall and to prevent damage by rodents in case the wall is hollow.

(E)

(6)



Outdoor unit installation (FH25, 35/FH50)

800/840 mm

500 mm

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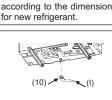
304-325/349-371

After the leak test, apply insulating material tightly so that there is no gap.

When the piping is to be attached to a wall containing metals (tin plated) or metal netting, use a chemically treated wooden piece 20 mm or thicker between the wall and the piping or wrap 7 to 8 turns of insulation vinyl tape

around the piping.

To use existing piping, perform COOL operation for 30 minutes and pump down before removing the old air conditioner. Remake flare according to the dimension for new refrigerant.



2-10 mm × 21 mm slot Drain piping for outdoor unit <VE type only>

150/175 mm

Provide drain piping before indoor and outdoor piping connection.
Connect drain hose (I) I.D.15 mm as

Air outlet

40 mm

- shown in the illustration.
- Make sure to provide drain piping with a downhill grade for easy drain flow.

Note:

285/330

Install the unit horizontally.

Do not use drain socket (10) in cold regions. Drain may freeze and make the fan stop.

The outdoor unit produces condensate during the heating operation. Select the installation place to ensure to prevent the outdoor unit and/or the grounds from being wet by drain water or damaged by frozen drain water.

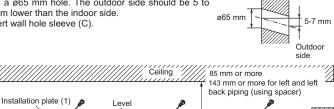
2. INDOOR UNIT INSTALLATION

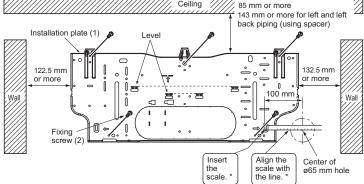
2-1. FIXING OF INSTALLATION PLATE

- Find a structural material (such as a stud) in the wall and fix installation plate (1) horizontally by tightening the fixing screws (2) firmly.
- To prevent installation plate (1) from vibrating, be sure to install the fixing screws in the holes indicated in the illustration. For added support, fixing screws may also be installed in other holes
- When the knockout is removed, apply vinyl tape to the knockout edges to prevent damaging the wires.
- When bolts recessed in the concrete wall are to be utilized, secure installation plate (1) using 11 × 20 · 11 × 26 oval hole (450 mm pitch).
- If the recessed bolt is too long, change it for a shorter one available in the market.
- 4) Loosen terminal screw, and connect first the earth wire, then indoor/outdoor unit connecting wire (A) to the terminal block. Be careful not to make mis-wiring. Fix the wire to the terminal block securely so that no part of its core is appeared, and no external force is conveyed to the connecting section of the terminal block.
- 5) Firmly tighten the terminal screws to prevent them from loosening. After tightening, pull the wires lightly to confirm that they do not move
- 6) Secure indoor/outdoor unit connecting wire (A) and the earth wire with the VA clamp. Never fail to hook the left claw of the VA clamp. Attach the VA clamp securely.

2-2. WALL HOLE DRILLING 1) Determine the wall hole position.

2) Drill a ø65 mm hole. The outdoor side should be 5 to 7 mm lower than the indoor side. 3) Insert wall hole sleeve (C)

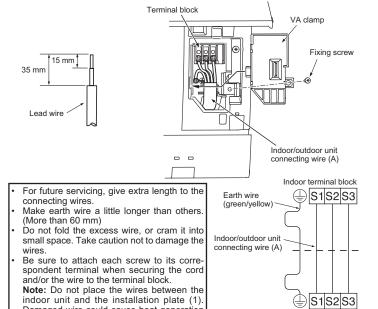




Same for left hole.

2-3. CONNECTING WIRES FOR INDOOR UNIT You can connect indoor/outdoor lead wire without removing the front panel

- 1) Open the front panel. 2) Remove VA clamp.
- 3) Pass indoor/outdoor unit connecting wire (A) from the back of the indoor unit and process the end of the wire.

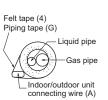


2-4. PIPE FORMING AND DRAIN PIPING Pipe Forming

Place the drain hose below the refrigerant piping

Damaged wire could cause heat generation

- Make sure that the drain hose is not heaved or snaked.
- Do not pull the hose when applying the tape. When the drain hose passes the room, be sure to wrap insulation material (obtainable at a store) around it.



Outdoor terminal block

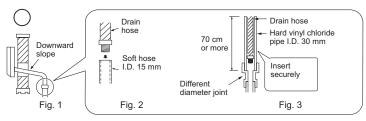
Rear, right, or downward piping

- 1) Put the refrigerant piping and the drain hose together, then firmly apply piping tape (G) from the end
- 2) Insert the piping and the drain hose into the wall hole sleeve (C), and hook the upper part of the indoor unit on the installation plate (1).
- Cut off in case of downward piping.

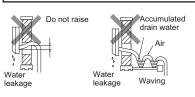
right piping.

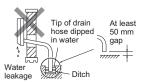
- 3) Check if the indoor unit is hooked securely on the installation plate (1) by moving the unit to left and right.
- 4) Thrust the lower part of the indoor unit into the installation plate (1).

- If the extension drain hose has to pass through a room, be sure to wrap it with commercially sold insulation.
- The drain hose should point downward for easy drain flow. (Fig. 1)
- If the drain hose provided with the indoor unit is too short, connect it with drain hose (I) that should be provided at your site. (Fig. 2)
- When connecting the drain hose to the hard vinyl chloride pipe, be sure to insert it securely into the pipe. (Fig. 3)



Do not make drain piping as shown below.



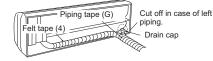


Left or left-rear piping

Note:

Be sure to reattach the drain hose and the drain cap in case of left or left-rear piping

Otherwise, it could cause drops of water to drip down from the drain hose



- 1) Put the refrigerant piping and the drain hose together, then firmly apply felt tape (4) from the end.
- Felt tape (4) overlap width should be 1/3 the tape width. Use a bandage stopper at the end of felt tape (4)
- 2) Pull out the drain cap at the rear right of the indoor unit.
- Hold the convex section at the end and pull the drain cap.
- 3) Pull out the drain hose at the rear left of the indoor unit. (Fig. 2)
 - Hold the claw marked by the arrows and pull out the drain hose forward.
- 4) Put the drain cap into the section to which the drain hose is to be attached at the rear of the indoor unit. (Fig. 3)
- Insert not sharp-edged tools such as screwdrivers into the hole at the end of the cap and insert the cap fully into the drain pan.
- 5) Insert the drain hose fully into the drain pan at the rear right of the indoor unit. (Fig. 4)
 - Check if the hose is hooked securely to the projection of its inserting part at the drain pan.
- 6) Insert the drain hose into wall hole sleeve (C), and hook the upper part of indoor unit on installation plate (1). Then, move the indoor unit completely to the left in order to make placing the piping in the back space of the unit easier
- 7) Cut out a piece of cardboard from the shipping box, roll it up, hook it onto the back rib, and use it as a spacer to lift the indoor unit. (Fig. 5)
- 8) Connect the refrigerant piping with the extension pipe (B).
- 9) Thrust the lower part of the indoor unit into the installation plate (1).











Fig. 3

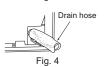


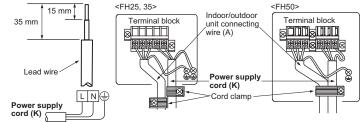


Fig. 5

OUTDOOR UNIT INSTALLATION

3-1. CONNECTING WIRES FOR OUTDOOR UNIT

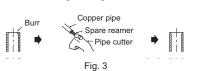
- 1) Open the service panel.
- 2) Loosen terminal screw, and connect indoor/outdoor unit connecting wire (A) from the indoor unit correctly on the terminal block. Be careful not to make mis-wiring. Fix the wire to the terminal block securely so that no part of its core is appeared, and no external force is conveyed to the connecting section of the terminal block
- 3) Firmly tighten the terminal screws to prevent them from loosening. After tightening, pull the wires lightly to confirm that they do not move.
- Connect power supply cord (K).
- 5) Fix indoor/outdoor unit connecting wire (A) and power supply cord (K) with the cord clamp
- 6) Close the service panel securely.

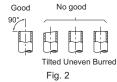


- Make earth wire a little longer than others. (More than 100 mm) For future servicing, give extra length to the connecting wires. Be sure to attach each screw to its correspondent terminal when securing the cord and/or the wire to the terminal block.

3-2. FLARING WORK

- 1) Cut the copper pipe correctly with pipe cutter. (Fig. 1, 2) 2) Completely remove all burrs from the cut cross section of pipe. (Fig. 3)
 - · Put the end of the copper pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the piping.
- 3) Remove flare nuts attached to indoor and outdoor units, then put them on pipe having completed burr removal. (Not possible to put them on after flaring work.)
- 4) Flaring work (Fig. 4, 5). Firmly hold copper pipe in the dimension shown in the table. Select A mm from the table according to the tool you use.
- 5) Check
 - Compare the flared work with Fig. 6.
 - · If flare is noted to be defective, cut off the flared section and do flaring work again.





Copper

Fig. 1

pipe

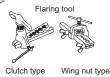
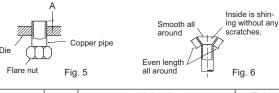


Fig. 4



		Nut (mm)	A (mm)			Tightening torque	
	Pipe diameter (mm)		Clutch type tool for R410A	Clutch type tool for R22	Wing nut type tool for R22	N•m	kgf•cm
	ø 6.35 (1/4")	17		1.0 to 1.5	1.5 to 2.0	13.7 to 17.7	140 to 180
ĺ	ø 9.52 (3/8")	22	0 to 0.5			34.3 to 41.2	350 to 420
	ø12.7 (1/2")	26			2.0 to 2.5	49.0 to 56.4	500 to 575
	ø15.88 (5/8")	29				73.5 to 78.4	750 to 800

3-3. PIPE CONNECTION

- Fasten flare nut with a torque wrench as specified in the table. When fastened too tight, flare nut may break after a long period and cause refrigerant leakage.
- Be sure to wrap insulation around the piping. Direct contact with the bare piping may result in burns or frostbite.

Indoor unit connection

Connect both liquid and gas pipings to indoor unit.

- Apply a thin coat of refrigeration oil (J) on the flared ends of the pipes. Do not apply refrigeration oil on screw threads. Excessive tightening torque will result in damage on the screw.
- For connection, first align the center, then tighten the first 3 to 4 turns of flare nut.
- Use tightening torque table above as a guideline for indoor unit side union joint section, and tighten using two wrenches. Excessive tightening damages the flare section.

Outdoor unit connection

Connect pipes to stop valve pipe joint of the outdoor unit in the same manner applied for indoor unit.

For tightening, use a torque wrench or spanner and use the same tightening torque applied for indoor unit.

WARNING

When installing the unit, securely connect the refrigerant pipes before starting the compressor.



3-4. INSULATION AND TAPING

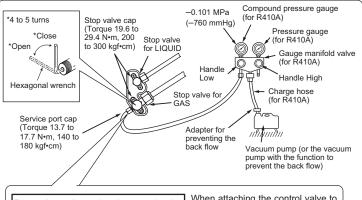
- 1) Cover piping joints with pipe cover.
- 2) For outdoor unit side, surely insulate every piping including valves.
- 3) Using piping tape (G), apply taping starting from the entry of outdoor unit.
 - Stop the end of piping tape (G) with tape (with adhesive agent attached).
 - When piping have to be arranged through above ceiling, closet or where the temperature and humidity are high, wind additional commercially sold insulation to prevent condensa-

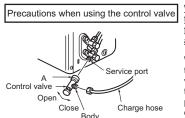


4. PURGING PROCEDURES, LEAK TEST, AND TEST RUN

4-1. PURGING PROCEDURES AND LEAK TEST

- 1) Remove service port cap of stop valve on the side of the outdoor unit gas pipe. (The stop valves are fully closed and covered in caps in initial state.)
- 2) Connect gauge manifold valve and vacuum pump to service port of stop valve on the gas pipe side of the outdoor unit.





When attaching the control valve to the service port, valve core may deform or loosen if excess pressure is applied. This may cause gas leak.

When attaching the control valve to the service port, make sure that the valve core is in closed position, and then tighten part A. Do not tighten part A or turn the body when valve core is in open position.

- 3) Run the vacuum pump. (Vacuumize for more than 15 minutes.)
- Check the vacuum with gauge manifold valve, then close gauge manifold valve, and stop the vacuum pump.
- 5) Leave as it is for one or two minutes. Make sure pointer gauge manifold valve remains in the same position. Confirm that pressure gauge shows –0.101 MPa [Gauge] (–760 mmHg).
 6) Remove gauge manifold valve quickly from service port of stop valve.
- 7) After refrigerant pipes are connected and evacuated, fully open all stop valves on both sides of gas pipe and liquid pipe. Operating without fully opening lowers the performance and this causes trouble.
- 8) Refer to 1-3., and charge the prescribed amount of refrigerant if needed. Be sure to charge slowly with liquid refrigerant. Otherwise, composition of the refrigerant in the system may be changed and affect performance of the air conditioner.
- Tighten cap of service port to obtain the initial status
- 10) Leak test

4-2. TEST RUN

- 1) Insert power supply plug into the power outlet and/or turn on the
- 2) Press the E.O. SW once for COOL, and twice for HEAT operation. Test run will be performed for 30 minutes. If the left lamp of the operation indicator blinks every 0.5 seconds, inspect the



- indoor/outdoor unit connecting wire (A) for mis-wiring. After the test run, emergency mode (set temperature 24°C) will start.
- To stop operation, press the E.O. SW several times until all LED lamps turn off. Refer to operating instructions for details.

Checking the remote (infrared) signal reception

Press the OFF/ON button on the remote controller (3) and check that an electronic sound is heard from the indoor unit. Press the OFF/ON button again to turn the air conditioner off.

Once the compressor stops, the restart preventive device operates so the compressor will not operate for 3 minutes to protect the air conditioner.

4-3. AUTO RESTART FUNCTION

This product is equipped with an auto restart function. When the power supply is stopped during operation, such as during blackouts, the function automatically starts operation in the previous setting once the power supply is resumed. (Refer to the operating instructions for details.)

Caution:

After test run or remote signal reception check, turn off the unit with the E.O. SW or the remote controller before turning off the power supply. Not doing so will cause the unit to start operation automatically when power supply is resumed

- After installing the unit, make sure to explain the user about auto restart function.
- If auto restart function is unnecessary, it can be deactivated. Consult the service representative to deactivate the function. Refer to the service manual for details.

4-4. SETTING THE INSTALLATION POSITION

Be sure to set the remote controller in accordance with the installed position of the indoor unit.

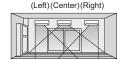
Installation position:

Distance to objects (wall, cabinet, etc.) is less than 50 cm to the left

Center: Distance to objects (wall, cabinet, etc.) is more

than 50 cm to the left and right Distance to objects (wall, cabinet, etc.) is less than Right:

50 cm to the right



Note:

The installation position can be set only when all the following conditions are met:

- The remote controller is powered off.
- Weekly timer is not set.
- Weekly timer is not being edited.
- 1) Hold down WIDE VANE on the remote controller for 2 seconds to enter the position setting mode
- 2) Select the target installation position by pressing wide VANE (Each press of the wide value displays the positions in order: center \rightarrow right \rightarrow left.)
- 3) Press string to complete the position setting

Installation position	Left	Center	Right	
Remote controller display				

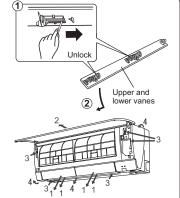
4-5. EXPLANATION TO THE USER

- Using the OPERATING INSTRUCTIONS, explain to the user how to use the air conditioner (how to use the remote controller, how to remove the air filters, how to remove or put the remote controller in the remote controller holder, how to clean, precautions for operation, etc.)
- Recommend the user to read the OPERATING INSTRUCTIONS carefully

5. RELOCATION AND MAINTENANCE

5-1. REMOVING AND INSTALLING THE PANEL ASSEMBLY

- 1) Unlock the upper and lower vanes as shown in ① and ② using a thin instrument. Then, remove the horizontal vanes
- Remove the front panel.
- 3) Remove the 5 screws which fix the panel assembly
- 4) The panel assembly consists of 3 components. Remove them in the following order: right, left, and center bottom. To remove the right component, pull out the right top corner. To remove the left component, pull out the left bottom corner. To remove the center bottom component, detach the hook on its upper center part.



Installation procedure

- 1) Install the panel assembly following the removal procedure in reverse.
- 2) Be sure to press the positions as indicated by the arrows in order to attach the assembly completely to the unit.
- 3) Install the front panel and the horizontal vanes.



5-2. REMOVING THE INDOOR UNIT

Remove the bottom of the indoor unit from the installation plate.

When releasing the corner part, release both left and right bottom corner part of indoor unit and pull it downward and forward as shown in the figure on the right.



5-3. PUMPING DOWN

When relocating or disposing of the air conditioner, pump down the system following the procedure below so that no refrigerant is released into the atmosphere

- 1) Connect the gauge manifold valve to the service port of the stop valve on the gas pipe side of the outdoor unit
- 2) Fully close the stop valve on the liquid pipe side of the outdoor unit.
- 3) Close the stop valve on the gas pipe side of the outdoor unit almost completely so that it can be easily closed fully when the pressure gauge shows 0 MPa [Gauge] (0 kgf/cm²).
- 4) Start the emergency COOL operation.
- To start the emergency operation in COOL mode, disconnect the power supply plug and/ or turn off the breaker. After 15 seconds, connect the power supply plug and/or turn on the breaker, and then press the E.O. SW once. (The emergency COOL operation can be performed continuously for up to 30 minutes.)
- 5) Fully close the stop valve on the gas pipe side of the outdoor unit when the pressure gauge shows 0.05 to 0 MPa [Gauge] (approx. 0.5 to 0 kgf/cm²).
- 6) Stop the emergency COOL operation.
- Press the E.O. SW several times until all LED lamps turn off. Refer to operating instructions for details.

A WARNING

When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes. The compressor may burst if air etc. get into it.

This product is designed and intended for use in the residential, commercial and light-industrial environment.

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