SPLIT-TYPE AIR CONDITIONERS MSZ-A09/A12YV

■ Earth the unit.

(Where it is humid).

a leakage of refrigerant.

2-1 INDOOR UNIT

Where airflow is not blocked.

Rigid wall without vibration

2-2 OUTDOOR UNIT

Install the unit horizontally.

transmitted from there

Place of mounting

Where it is not exposed to strong wind.

· Where airflow is good and dustless.

Where easily drained.

Where cool air spreads over the entire room.

Where it is not exposed to direct sunshine.

and the difference of height of both units is 12 m.

weak. An amplifier may be required for the affected device.

Where neighbours are not annoyed by operation sound or hot air.

. When installing the unit at a high level, be sure to fix the unit legs.

weak. An amplifier may be required for the affected device.

Where sulfide gas is generated such as a hot spring.

Where there is high-frequency or wireless equipment.

Where the air filter can be removed and replaced easily.

• Where it is not exposed to rain and direct sunshine.

Where there is no risk of combustible gas leakage

the infrared remote control can operate the air conditioner normally).

When installing an MXZ series

R410A

⚠ CAUTION

Do not connect the earth to a gas pipe, water pipe, lightning rod or telephone

If gas leak and accumulate in the area surrounding the unit, it could cause an

If an earth leakage breaker is not installed, it could cause an electric shock.

■ Perform the drainage/piping work securely according to the installation

Fasten a flare nut with a torque wrench as specified in this manual.

If there is a defect in the drainage/piping work, water could drop from the unit

When fastened too tight, a flare nut may broken after a long period and cause

2. SELECTING THE INSTALLATION LOCATION

• Maximum refrigerant piping length between indoor unit and outdoor unit is 20 m

At a distance 1 m or more away from your TV and radio. Operation of the air

• In a place as far away as possible from fluorescent and incandescent lights (so

Where rigid wall or support is available to prevent the increase of operation sound

• Where it is at least 3 m away from the antenna of TV set or radio. Operation of the

↑ CAUTION

Avoid the following places for installation where air conditioner trouble is liable to

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

air conditioner may interfere with radio or TV reception in areas where reception is

conditioner may interfere with radio or TV reception in areas where reception is

■ Do not install the unit in a place where an inflammable gas leaks.

■ Install an earth leakage breaker depending on the installation place

earth. Defective earthing could cause an electric shock.

and household goods could be wet and damaged.

1. THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY

- Please provide an exclusive circuit for the air conditioner and do not connect other electrical appliances to it. Be sure to read "THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR
- SAFETY" before installing the air conditione Be sure to observe the cautions specified here as they include important items
- related to safety. The indications and meanings are as follows

Could lead to death, serious injury, etc. **↑** CAUTION

Could lead to serious injury in particular environments when operated incorrectly. After reading this manual, be sure to keep it together with the OPERATING INSTRUCTIONS in a handy place on the customer's site

↑ WARNING

Do not install the unit by yourself (customer) Incomplete installation could cause injury due to fire, electric shock, the unit falling or leakage of water. Consult the dealer from whom you purchased the unit or special installer

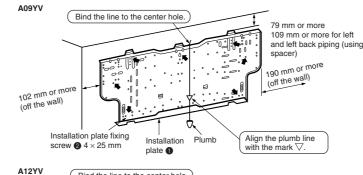
- Install the unit securely in a place which can bear the weight of the unit.
- When installed in an insufficient strong place, the unit could fall causing injury ■ Use the specified wires to connect the indoor and outdoor units securely and attach the wires firmly to the terminal block connecting sections so the stress of the wires is not applied to the sections.
- Incomplete connecting and fixing could cause fire. ■ 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. ■ Check that the refrigerant gas do not leak after installation has com-
- If refrigerant gas leaks indoors, and comes into contact with the fire of a fan heater, space heater, stove, etc., harmful substances will be generated.

■ Perform the installation securely referring to the installation manual.

- Incomplete installation could cause a personal injury due to fire, electric shock, the unit falling or leakage of water. ■ Perform electrical work according to the installation manual and be sure to use an exclusive circuit.
- If the capacity of the power circuit is insufficient or there is incomplete electrical work, it could result in a fire or an electric shock. Attach the electrical cover to the indoor unit and the service panel to the
- outdoor unit securely. If the electrical cover in the indoor unit and/or the service panel in the outdoo unit are not attached securely, it could result in a fire or an electric shock due to dust, water, etc.
- Be sure to use the part provided or specified parts for the installation The use of defective parts could cause an injury or leakage of water due to a fire, an electric shock, the unit falling, etc.
- Be sure to cut off the main power in case of setting up the indoor electronic control P.C. board or wiring works. It could cause an electric shock
- The appliance shall be installed in accordance with national wiring

MUZ-A09/A12YV(H) [FLARE CONNECTION TYPE]

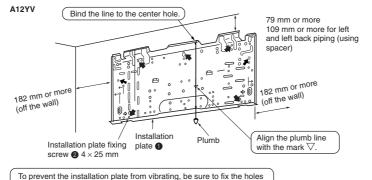
outdoor unit, refer to the MXZ type manual for outdoor unit set up.



• Find a structural material (such as a stud) in the wall and fix installation plate

4. INDOOR UNIT INSTALLATION

4-1 FIXING OF INSTALLATION PLATE



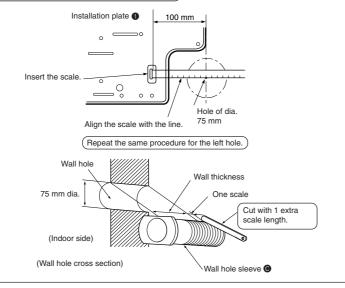
as indicated by the arrows 1.

When bolts recessed in the concrete wall are to be utilized, secure the installation plate 1 using $11 \times 20 \cdot 11 \times 26$ oval hole (450 mm pitch). If the recessed bolt is too long, change it for a shorter one available in the market.

4-2 WALL HOLE DRILLING

Determine the wall hole position Drill a 75 mm hole so that outside can be lower than inside. Insert the wall hole sleeve .

Positioning of the holes on the wall



Be sure to use wall hole sleeve **©** to prevent the outdoor connecting wires from contacting with metal part in the wall and to prevent damage by rat in case the wall

2-3 WIRELESS REMOTE CONTROLLER MOUNTING Wall hole sealing and fixing pipe to wall

Wall hole sleeve

Where it is easy to operate and easily visible. Where children can not touch. Mounting

wireless remote controller may not be received

Select a position about 1.2 m above the floor, check that signals from the remote controller are surely received by the indoor unit from that position ('beep' or 'beepbeep' receiving tone sounds). After that, attach remote controller holder 3 to a

pillar or wall and set the wireless remote controller 6. In rooms where inverter type fluorescent lamps are used, the signal from the

Where flammable gas could leak

• Where there is much machine oil.

• Salty places such as the seaside.

FLARED CONNECTIONS This unit has flared connections on both indoor and outdoor sides

3. INSTALLATION DIAGRAM & ACCESSORIES

 Remove the outdoor units valve cover, then connect the pipe. Refrigerant pipes are used to connect the indoor and outdoor units.

Be careful not to crush or bend the pipe in pipe bending.

Pipe length	20 m max.
Height difference	12 m max.
No. of bends	10 max.

(The outdoor unit is charged with refrigerant for pipe length up to 7 m.)

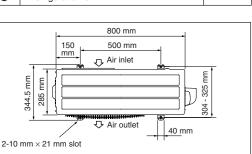
	Up to 7 m	No additional charge is required.	
Pipe length	Exceeding 7 m	Additional charge is required.	
		(Refer to the table below.)	
Refrigerant to be added		30 g/m × (refrigerant piping length (m) -	

dditional refrigerant

ACCESSORIES Check the following parts before installation <Indoor unit>

Installation plate 2 Installation plate fixing screw 4 × 25 mm Remote controller holder Fixing screw for 3 3.5 × 16 mm (Black) Battery (AAA) for remote controller 6 Wireless remote controller Felt tape (Used for left or left-rear piping) 8 Air cleaning filter <Outdoor unit: For YV type only

PART TO BE PROVIDED AT YOUR SITE Optional extension pipe Indoor/outdoor unit connecting wire (4-core 1.0 mm²) B Extension pipe Wall hole sleeve Wall hole cover Pipe fixing band (The quantity depends 2 to 5 on the pipe length.) Fixing screw for **(B)** 4 × 20 mm (The 2 to 5 quantity depends on the pipe length.) Piping tape Drain hose (or soft PVC. hose, 15 mm 1 or 2 inner dia. or hard PVC pipe VP16) Refrigeration oil



When operating the air conditioner in low outside temperature, 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

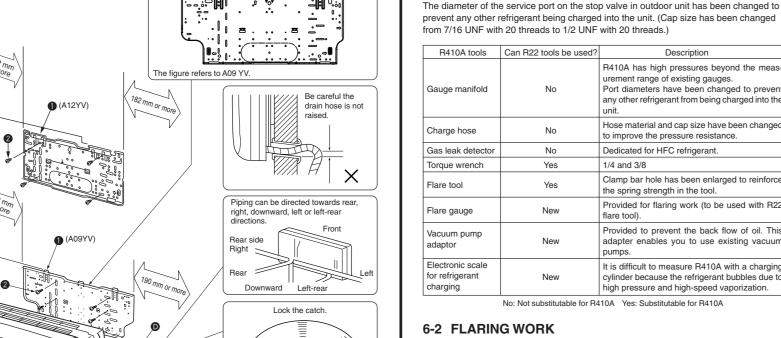
baffle board on the air outlet side of the outdoor unit.

(1) Specifications

Use the refrigerant pipes that meet the following specifications.				
Pipe	Outside diameter	Insulation thickness	Insulation material	
	mm	mm		
For liquid	6.35	8	Heat resisting foam plastic	
For gas	9.52	8	0.045 specific gravity	
Use a copper pipe or a copper-alloy seamless pipe with a thickness of 0.8 mm. Never use any pipe with a thickness less than 0.8 mm, as the pressure resistance is insufficient.				

2) Ensure that the 2 refrigerant pipes are insulated to prevent condensation. 3 Refrigerant pipe bending radius must be 100 mm or more.

⚠ CAUTION
Be sure to use the insulation of specified thickness. Excessive thickness may cause incorrect installation of the indoor unit and lack of thickness may cause dew drippage.



Decide the installation position using mark on the installation

te indicating the indoor unit size as reference

Separate the 2 connecting pipes and

Basically open 100 m or more without any

Open two sides of left, right,

obstruction in front and

When the piping is to be attached to a

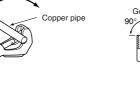
netal netting, use a chemically treated

ooden piece 20 mm or thicker

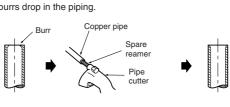
vrap 7 to 8 turns of insulation viny

Units should be installed by licensed contractor

according to local code requirement.



 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.



INSTALLATION INFORMATION FOR THE AIR CONDI

Fixing screw 6

TIONER WITH R410A REFRIGERANT

 This room air conditioner adopts an HFC refrigerant (R410A) which will never destroy the ozone laver. Pay particular attention to the following points, though the basic installation procedure

6. INDOOR/OUTDOOR UNIT CONNECTION

is same as that for R22 air conditioners As R410A has a working pressure approx. 1.6 times as high as that of R22, some special tools and piping parts / materials are required. (Refer to the table below.) Take sufficient care not to allow water and other contaminations to enter the

FINISHING AND TEST RUN

R410A refrigerant during storage and installation, since it is more susceptible to contaminations than R22. For refrigerant piping, use clean, pressure-proof parts / materials specifically

designed for R410A. (Refer to 2. Refrigerant piping.) Ocmposition change may occur in R410A since it is a mixed refrigerant. When

charging, charge liquid refrigerant to prevent composition change.

6-1 Tools dedicated for the air conditioner with R410A refrigerant The following tools are required for R410A refrigerant. Some R22 tools can be substituted for R410A tools.

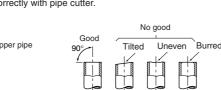
R410A tools	Can R22 tools be used?	Description	
Gauge manifold	No	R410A has high pressures beyond the mea urement range of existing gauges. Port diameters have been changed to preve any other refrigerant from being charged into the unit.	
Charge hose	No	Hose material and cap size have been change to improve the pressure resistance.	
Gas leak detector	No	Dedicated for HFC refrigerant.	
Torque wrench	Yes	1/4 and 3/8	
Flare tool	Yes	Clamp bar hole has been enlarged to reinforce the spring strength in the tool.	
Flare gauge	New	Provided for flaring work (to be used with R2 flare tool).	
Vacuum pump adaptor	New	Provided to prevent the back flow of oil. The adapter enables you to use existing vacuu pumps.	
Electronic scale for refrigerant charging	New	It is difficult to measure R410A with a chargin cylinder because the refrigerant bubbles due high pressure and high-speed vaporization.	

No: Not substitutable for R410A Yes: Substitutable for R410A

6-2 FLARING WORK

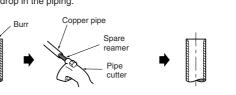
 Main cause of gas leakage is defect in flaring work. Carry out correct flaring work in the following procedure.

Pipe cutting Cut the copper pipe correctly with pipe cutter



2 Burrs removal

Completely remove all burrs from the cut cross section of pipe.



 Remove flare nuts attached to indoor and outdoor Flare nut units, then put them on pipe having completed (not possible to put them on after flaring work)

 Flare nut for R410A pipe differs from R22 pipe. Refer to the following table for detail. ø6.35

ø9.52

4-3 POWER SUPPLY AND CONNECTING WIRE SPECIFI-

• Take out power supply cord from the left or right bottom corner of the indoor unit.

Connect to the power switch which has a gap of 3 mm or more when open to

Green/Yellow: Ground

WARNING

Never cut the indoor and outdoor unit connecting wire and connect it to other wires.

4-4 INDOOR AND OUTDOOR CONNECTING WIRE CON-

Pass the indoor/outdoor unit connecting wire from the back of the indoor unit and

ELECTRICAL COVER

Never fail to hook the left claw o

outdoor unit connecting wire (A).

the wire fixture to secure indoo

| 3 | N |2~|∰|

Indoor terminal block

Earth wire

3 N 2~ Outdoor terminal block

the terminal block until no part of its core is appeared

Use the indoor/outdoor unit connecting wire that meets the Standards to connect

no external force is conveyed to the connecting section of the terminal block.

Incomplete connection or fixing of the wire could result in a fire.

fire or an electric shock due to dust, water, etc.

the indoor and outdoor units and fix the wire to the terminal block securely so that

Attach the electrical cover securely. If it is attached incorrectly, it could result in a

You can connect indoor/outdoor lead wire without removing the front panel.

process the end of the wire, then connect it to the terminal block

5 Replace the fixture and electrical cover securely.

Remove one screw holding the electrical cover, then remove the cover.

(When the power switch is shut off, it must interrupt all phases.)

0.3 m/1 m

Cable 4-core 1.0 mm², in conformity

with Design 245 IEC 57.

CATIONS

Power supply cord length

(Lead to left/Lead to right)

wire Specification

It may cause a fire.

Open the front panel.

Remove the VA clamp.

Use special room air conditioning circuit

door/outdoor unit connecting

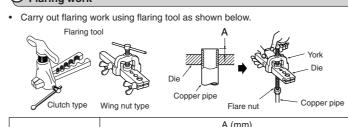
interrupt the source power phase.

(Rated Voltage/Frequency: 230 V/50 Hz)

(This plug has to be the one meets the Standards.) Power supply cord | Green | Blue : N | Brown : '

Oo not bundle the spare wire, but put it as shown below

(Input capacity Main switch/Fuse:10 A)

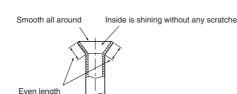


	Die	per pipe	Die	
Clutch type	Wing nut type	Flare nut	Copper pipe	
	A (mm)			
side diameter	Flare tool for R410A	Conventional flare tool		
	clutch type	Clutch type	Wing nut type	
ø6.35 mm	0 to 0.5	1.0 to 1.5	1.5 to 2.0	
ø9.52 mm	0 to 0.5	1.0 to 1.5	1.5 to 2.0	

5 Check

· Compare the flared work with figure below. • If flare is noted to be defective, cut off the flared section and do flaring work again

Firmly hold copper pipe in a die in the dimension shown in the table above.



6-3 PIPE CONNECTION

Fasten a flare nut with a torque wrench as specified in the table below. When fastened too tight, a flare nut may broken after a long period and cause a leakage of refrigerant.

N·m kgf·cm 13.7 to 17.7 140 to 180

1) Indoor unit connection

Connect both liquid and gas pipings to indoor unit. • For connection first align the center, then tighten the first 3 to 4 turns of flare nut. • Use tightening torque table below as a guideline for indoor unit side union joint section, and tighten using two wrenches. Excessive tightening damages the flare

34.3 to 41.2 | 350 to 420 ② 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

INSULATION AND TAPING Cover piping joints with pipe cover.

prevention of condensation.

applied for indoor unit.

For outdoor unit side, surely insulate every piping including valves. Using piping tape 6, apply taping starting from the entry of outdoor unit. Stop the end of piping tape **(a)** 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 for

• Firmly tighten the terminal screws to prevent them from loosening.

- **⚠** CAUTION Be careful not to make mis-wiring.
- After tightening, pull the wires lightly to confirm that they do not move. • If the connecting wire is incorrectly connected to the terminal block, the unit does
- not operate normally.

If an earth is incorrect, it may cause an electric shock.

4-5 AUTO RESTART FUNCTION

• These models are equipped with an auto restart function. If you do not want to use this function, please consult the service representative because the setting of the unit eeds to be changed

 When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. The auto restart function sets to work the moment the power has restored after power failure, then, the unit will restart automatically. If the unit is operated in "I FEEL..." or "AUTO" mode before power failure, the operation mode (COOL, DRY or HEAT) is not stored in the memory. When the main power is turned on, the unit decides the operation mode by the initial room temperature at restart and starts

operation again.

(1) If the main power has been cut, the operation settings remain. When three minutes have passed after power was restored, the unit will restart automatically according to the memory.

The operation settings are memorized when 10 seconds have passed after the remote controller was operated.

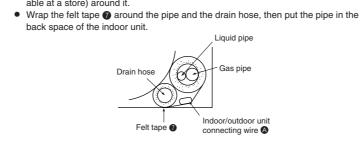
• If the main power is turned off or a power failure occurs while AUTO START/STOP timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled at the

• If the unit has been off with the remote controller before power failure, the auto restart function does not work as the power button of the remote controller is off. To prevent breaker off due to the rush of starting current, systematize other home appliances not to turn on at the same time.

4-6 PIPE FORMING

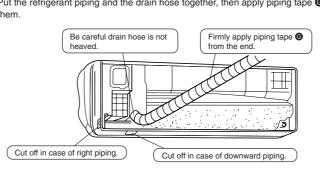
same time that power is restored.

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



FOR REAR, RIGHT OR DOWNWARD PIPING

 Pipe arrangement Put the refrigerant piping and the drain hose together, then apply piping tape 6 to



Insert the drain hose into the section to which the drain hose is to • Insert the piping and the drain hose into the wall hole sleeve (0), and hook the upper be attached at the rear right of the indoor unit.

FOR LEFT OR LEFT-REAR PIPING

Be careful drain

Felt tape 🕡

Firmly apply felt tape 🕜 from the end.

REATTACHING DRAIN HOSE

(Felt tape @ overlap width should be 1/3

Put the refrigerant piping and the drain hose together, then apply felt tape 1 to them.

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 Pull out the drain cap at the rear right of the indoor unit.

Pull out the drain hose at the rear left of the indoor unit.

Put the drain cap into the section to which the drain hose is to be

Insert the screwdriver, etc. (not sharp-edged tool) into the hole at the end of the cap and

Insert the drain hose fully into the drain pan. Check if the hose is hooked securely to the

Hold the claw marked by the arrow and pull out the drain hose forward

attached at the rear of the indoor unit.

insert the cap fully into the drain pan.

projection of its inserting part at the drain pan.

Hold the convex section at the end and pull the drain cap.

Cut off in case of left piping.

Use a bandage stopper at

Pipe arrangement

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

PURGING PROCEDURES

Connect the refrigerant pipes (both liquid pipe and the gas pipe) between the indoor

Remove the service port cap of the stop valve on the side of the outdoor unit gas

Connect the gauge manifold valve and the vacuum pump to the service port of the

Check the vacuum with the gauge manifold valve, then close the gauge manifold

Leave as it is for one or two minutes. Make sure the pointer gauge manifold valve

remains in the same position. Confirm that the pressure gauge shows-0.101 Mpa

Remove the gauge manifold valve quickly from the service port of the stop valve.

After refrigerant pipes are connected and evacuated, fully open all stop valves on

Operating without fully opening lowers the performance and this causes trouble.

Tighten the cap to the service port to obtain the initial status.

Retighten the cap.

Leak test

13.7 to 17.7

19.6 to 29.4

Stop valve (-760 mmHg) gauge (for R410A)

✓ (for R410A)

Vindow / (pump yor the vacuum pump with the

Adapter for

Charge the prescribed amount

kgf-cm

140 to 180

of gas. (refer to 3)

Gauge manifold

pipe. (The stop valve will not work in it initial state fresh out of the factory (totally

6-4 PURGING PROCEDURES-LEAK TEST

stop valve on the gas pipe side of the outdoor unit.

valve, and stop the vacuum pump.

both sides of gas pipe and liquid pipe.

Pipe length up to 7 m

Cap for service port

Cap for stop valve

No gas charge is needed.

Run the vacuum pump. (Vacuumize for more than 15 minutes.

and the outdoor unit.

closed with cap on).)

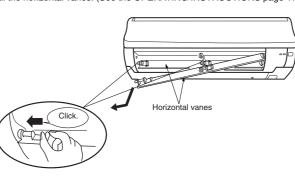
[Gauge] (-760 mmHg).

*4 to 5 turns

 Before performing the test run, recheck for any wrong wiring. Wrong wiring prevents normal operation or results in blown fuse disabling operation. The test run can be started by pressing EMERGENCY OPERATION switch. When the EMERGENCY OPERATION switch is once pressed, the unit will start the test run (continuous operation) for 30 minutes.

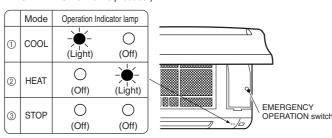
A thermostat does not work during this time. After 30 minutes the unit will start the EMERGENCY OPERATION at a fixed temperature setting of 24 °C in COOL MODE. Perform test run in the following procedure.

Insert the power supply plug into the power outlet and/or turn on the breaker. Check that both of the operation indicator lamps are not lit. If they are blinking, the horizontal vanes are not installed correctly. In this case, disconnect the power supply plug and/or turn off the breaker, and then reinstall the horizontal vanes. (See the OPERATING INSTRUCTIONS page 11.)



 Press the EMERGENCY OPERATION switch. Press it once, and after test run for 30 minutes the EMERGENCY COOL MODE starts. If the left side lamp of the operation indicator blinks every 0.5 seconds, inspect the door/outdoor unit connecting wire 🔕 for mis-wiring.

Press it once more, and the EMERGENCY HEAT MODE starts. Press it once more, and the operation stops (The operation mode changes in order of ① ~ ③ every time the EMERGENCY OPERATION switch is pressed.)



• In starting the heating operation, indoor unit fan may not operate to prevent blowing cool air. Please wait for a few minutes until the temperature of heat exchanger rises and warm air blows out.

Checking the remote (infrared) signal reception

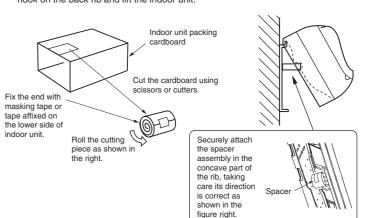
Press the ON/OFF button on the remote controller and check that an electronic sound is heard from the indoor unit. Press the ON/OFF button again to turn the air conditioner off. If the indoor unit is operated with the remote controller, both the test run and the emergency operation are released by commands from

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

6-6 EXPLANATION TO THE CUSTOMER

• Using the OPERATING INSTRUCTIONS, explain the following to the customer, how to control temperature, 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 customer to read the OPERATING INSTRUCTIONS carefully.

 Insert the drain hose into the wall hole sleeve , and hook the upper part of indoor unit on the installation plate 1. Then, move the unit to the very edge of the left side for putting the piping easily in the back space of the indoor unit. After that, cut a part of packing material, then roll it as shown below and use it as a spacer to hook on the back rib and lift the indoor unit.



Connect the refrigerant piping with the extension pipe B. Thrust the lower part of the indoor unit into the installation plate

4-7 DRAIN PIPING

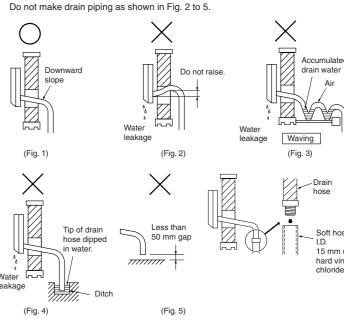
commercially sold insulation.

ance with the standards.

Set the top of the front panel

INDOOR UNIT INSTALLATION

• 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 **1** that should be provided at your site. • If the extension drain hose has to pass through a room, be sure to wrap it with

5-1 INDOOR/OUTDOOR UNIT CONNECTING WIRE

5. OUTDOOR UNIT INSTALLATION

CONNECTION Connect the indoor/outdoor unit connecting wire from the indoor unit correctly on the terminal block. • For future servicing, give extra length to connecting wire.

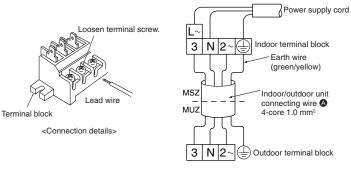
 Peel off both ends of connecting wire (extension wire). Be careful not to contact connecting wire with piping. Make earth wire a little longer than the others. (more than 35 mm) 35 mm

• For the indoor/outdoor unit connecting wires, be sure to use the ones in compli-

• Be sure to push the core until it is hidden and pull each cable to make sure that it

Indoor and Outdoor connecting | Cable 4-core 1.0 mm², in conformity with Design 245 IEC 57. wire Specification

② Insert the bottom of the front panel under the horizontal vane.



A means for disconnection of the supply with an isolation switch, or similar

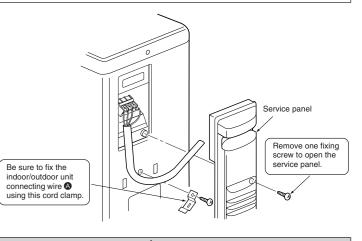
device. in all active conductors shall be incorporated in the fixed wiring.

Never cut the power cord and connect it to other wires.

It may cause a fire.

Use care not to make mis-wiring Firmly tighten the terminal screws to prevent them from loosening.

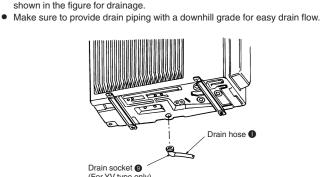
 After tightening, pull the wires lightly to confirm that they do not move. If the connecting wire is incorrectly connected to the terminal block, the unit does not operate normally.



Be sure to attach the service panel of the outdoor unit securely. If it is not attached correctly, it could result in a fire or an electric shock due to dust, water, etc.

5-2 DRAIN PIPING FOR OUTDOOR UNIT

 Provide drain piping before indoor and outdoor piping connection. (It will be hard to install drain socket (9) if indoor and outdoor piping connection is conducted prior to drain piping as outdoor unit becomes immovable.)

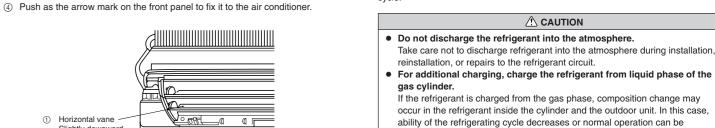


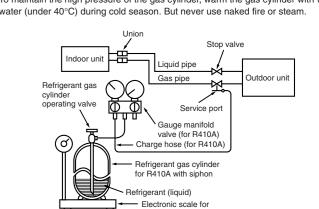
Do not use the drain socket 9 in the cold region. Drain may freeze and it makes the

7-3 GAS CHARGE 7. FOR MOVEMENT AND MAINTENANCE

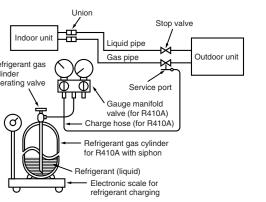
Connect gas cylinder to the service port of stop valve (3-way). Execute air purge of the pipe (or hose) coming from refrigerant gas cylinder. 7-1 HOW TO INSTALL THE FRONT PANEL Replenish specified amount of the refrigerant, while operating the air conditioner for cooling

In case of adding refrigerant, comply with the quantity specified for the refrigerating





impossible. However, charging the liquid refrigerant all at once may cause the compressor to be locked. Thus, charge the refrigerant slowly. To maintain the high pressure of the gas cylinder, warm the gas cylinder with warm



If the above method cannot be used Remove the front panel and insert hexagonal wrenches into the square holes on the

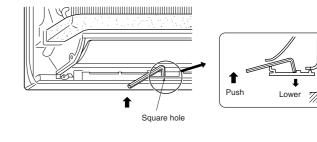
7-2 REMOVING THE INDOOR UNIT

When releasing the corner part

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

left and right as shown in the figure below, then push them up; the bottom of the indoor unit is lowered and the hooks are released.

Release both left and right bottom corner part of indoor unit and pull it downward and



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

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: MITSUBISHI DENKI BLDG., 2-2-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

