

Air-Conditioners

PLA-A-BA4

INSTALLATION MANUAL

For safe and correct use, read this manual and the outdoor unit installation manual thoroughly before installing the air-conditioner unit.

FOR INSTALLER

MANUEL D'INSTALLATION

Avant d'installer le climatiseur, lire attentivement ce manuel, ainsi que le manuel d'installation de l'appareil extérieur pour une utilisation sûre et correcte.

POUR L'INSTALLATEUR

MANUAL DE INSTALACIÓN

Para un uso seguro y correcto, lea detalladamente este manual de instalación antes de montar la unidad de aire acondicionado.

PARA EL INSTALADOR

English

Français

Español

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1. Safety precautions

- ▶ Before installing the unit, make sure you read all the “Safety precautions”.
- ▶ Please report to your supply authority or obtain their consent before connecting this equipment to the power supply system.

⚠ Warning:
Describes precautions that must be observed to prevent danger of injury or death to the user.

⚠ Caution:
Describes precautions that must be observed to prevent damage to the unit.

- ⚠ Warning:**
- Ask a dealer or an authorized technician to install the unit.
 - For installation work, follow the instructions in the Installation Manual and use tools and pipe components specifically made for use with refrigerant specified in the outdoor unit installation manual.
 - The unit must be installed according to the instructions in order to minimize the risk of damage from earthquakes, typhoons, or strong winds. An incorrectly installed unit may fall down and cause damage or injuries.
 - The unit must be securely installed on a structure that can sustain its weight.
 - If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration in the room from exceeding the safety limit in the event of refrigerant leakage. Should the refrigerant leak and cause the concentration limit to be exceeded, hazards due to lack of oxygen in the room may result.

After installation work has been completed, explain the “Safety Precautions,” use, and maintenance of the unit to the customer according to the information in the Operation Manual and perform the test run to ensure normal operation. Both the Installation Manual and Operation Manual must be given to the user for keeping. These manuals must be passed on to subsequent users.

⚡: Indicates a part which must be grounded.

⚠ Warning:
Carefully read the labels affixed to the main unit.

- Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.
- All electric work must be performed by a qualified technician according to local regulations and the instructions given in this manual.
- Use only specified cables for wiring.
- The terminal block cover panel of the unit must be firmly attached.
- Use only accessories authorized by Mitsubishi Electric and ask a dealer or an authorized technician to install them.
- The user should never attempt to repair the unit or transfer it to another location.
- After installation has been completed, check for refrigerant leaks. If refrigerant leaks into the room and comes into contact with the flame of a heater or portable cooking range, poisonous gases will be released.

1.1. Before installation (Environment)

- ⚠ Caution:**
- Do not use the unit in an unusual environment. If the air conditioner is installed in areas exposed to steam, volatile oil (including machine oil), or sulfuric gas, areas exposed to high salt content such as the seaside, the performance can be significantly reduced and the internal parts can be damaged.
 - Do not install the unit where combustible gases may leak, be produced, flow, or accumulate. If combustible gas accumulates around the unit, fire or explosion may result.
 - Do not keep food, plants, caged pets, artwork, or precision instruments in the direct airflow of the indoor unit or too close to the unit, as these items can be damaged by temperature changes or dripping water.

- When the room humidity exceeds 80% or when the drainpipe is clogged, water may drip from the indoor unit. Do not install the indoor unit where such dripping can cause damage.
- When installing the unit in a hospital or communications office, be prepared for noise and electronic interference. Inverters, home appliances, high-frequency medical equipment, and radio communications equipment can cause the air conditioner to malfunction or breakdown. The air conditioner may also affect medical equipment, disturbing medical care, and communications equipment, harming the screen display quality.

1.2. Before installation or relocation

- ⚠ Caution:**
- Be extremely careful when transporting the units. Two or more persons are needed to handle the unit, as it weighs 20 kg, 40 lbs or more. Do not grasp the packaging bands. Wear protective gloves as you can injure your hands on the fins or other parts.
 - Be sure to safely dispose of the packaging materials. Packaging materials, such as nails and other metal or wooden parts may cause stabs or other injuries.

- Thermal insulation of the refrigerant pipe is necessary to prevent condensation. If the refrigerant pipe is not properly insulated, condensation will be formed.
- Place thermal insulation on the pipes to prevent condensation. If the drainpipe is installed incorrectly, water leakage and damage to the ceiling, floor, furniture, or other possessions may result.
- Do not clean the air conditioner unit with water. Electric shock may result.
- Tighten all flare nuts to specification using a torque wrench. If tightened too much, the flare nut can break after an extended period.

1.3. Before electric work

- ⚠ Caution:**
- Be sure to install circuit breakers. If not installed, electric shock may result.
 - For the power lines, use standard cables of sufficient capacity. Otherwise, a short circuit, overheating, or fire may result.
 - When installing the power lines, do not apply tension to the cables.

- Be sure to ground the unit. If the unit is not properly grounded, electric shock may result.
- Use circuit breakers (ground fault interrupter, isolating switch (+B fuse), and molded case circuit breaker) with the specified capacity. If the circuit breaker capacity is larger than the specified capacity, breakdown or fire may result.

1.4. Before starting the test run

- ⚠ Caution:**
- Turn on the main power switch more than 12 hours before starting operation. Starting operation just after turning on the power switch can severely damage the internal parts.
 - Before starting operation, check that all panels, guards and other protective parts are correctly installed. Rotating, hot, or high voltage parts can cause injuries.

- Do not operate the air conditioner without the air filter set in place. If the air filter is not installed, dust may accumulate and breakdown may result.
- Do not touch any switch with wet hands. Electric shock may result.
- Do not touch the refrigerant pipes with bare hands during operation.
- After stopping operation, be sure to wait at least five minutes before turning off the main power switch. Otherwise, water leakage or breakdown may result.

2. Installation location

Refer to the outdoor unit installation manual.

3. Installing the indoor unit

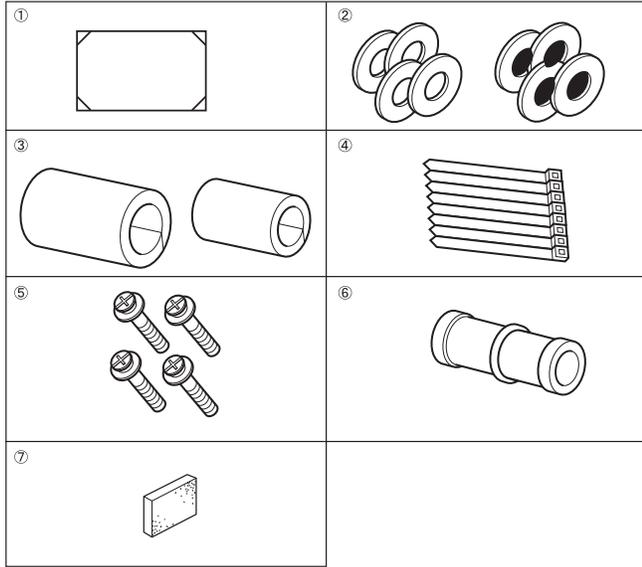


Fig. 3-1

3.1. Check the indoor unit accessories (Fig. 3-1)

The indoor unit should be supplied with the following accessories.

	Accessory name	Q'ty
①	Installation template	1
②	Washers (with insulation)	4
	Washers (without insulation)	4
③	Pipe cover (for refrigerant piping joint)	
	Small diameter	1
	Large diameter	1
④	Band	8
⑤	Screw with washer (M5 × 25) for mounting grille	4
⑥	Drain socket	1
⑦	Insulation	1

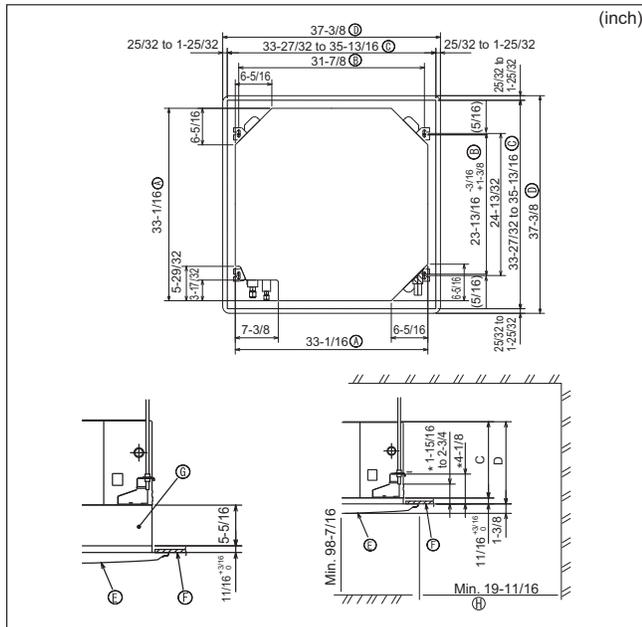


Fig. 3-2

3.2. Ceiling openings and suspension bolt installation locations (Fig. 3-2)

⚠ Caution:
Install the indoor unit at least 2.4m (94-1/2inch) above floor or grade level.
For appliances not accessible to the general public.

- Using the installation template (top of the package) and the gauge (supplied as an accessory with the grille), make an opening in the ceiling so that the main unit can be installed as shown in the diagram. (The method for using the template and the gauge is shown.)
 - Before using, check the dimensions of template and gauge, because they change due to fluctuations of temperature and humidity.
 - The dimensions of ceiling opening can be regulated within the range shown in Fig.3-2; so center the main unit against the opening of ceiling, ensuring that the respective opposite sides on all sides of the clearance between them becomes identical.
- Use M10 (3/8") suspension bolts.
 - Suspension bolts are to be procured at the field.
- Install securely, ensuring that there is no clearance between the ceiling panel & grille, and between the main unit & grille.

- Ⓐ Outer side of main unit
- Ⓑ Bolt pitch
- Ⓒ Ceiling opening
- Ⓓ Outer side of Grille
- Ⓔ Grille
- Ⓕ Ceiling
- Ⓖ Multi function casement (option)
- Ⓗ Entire periphery

*Note that the space between ceiling panel of the unit and ceiling slab, etc. must be 10 to 15 mm, 25/64 to 19/32 inch.

* When the optional multi-functional casement is installed, add 135 mm, 5-5/16 inch to the dimensions marked on the figure.

(mm, inch)

Models	C	D
A12, A18, A24, A30	241, 9-1/2"	258, 10-3/16"
A36, A42	281, 11-1/16"	298, 11-3/4"

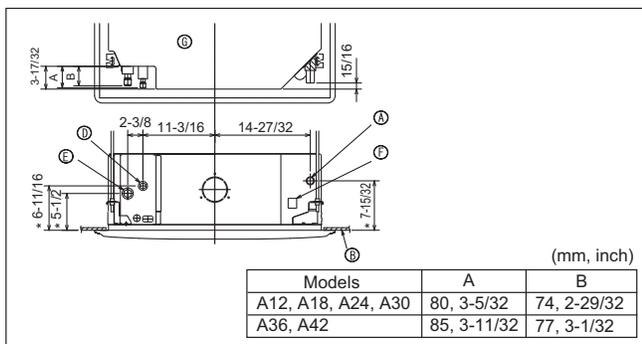


Fig. 3-3

3.3. Refrigerant and drainage piping locations of indoor unit

The figure marked with * in the drawing represent the dimensions of the main unit excluding those of the optional multi function casement. (Fig. 3-3)

- Ⓐ Drain pipe
- Ⓑ Ceiling
- Ⓒ Grille
- Ⓓ Refrigerant pipe (liquid)
- Ⓔ Refrigerant pipe (gas)
- Ⓕ Water supply inlet
- Ⓖ Main unit

* When the optional multi-functional casement is installed, add 135 mm, 5-5/16inch to the dimensions marked on the figure.

3. Installing the indoor unit

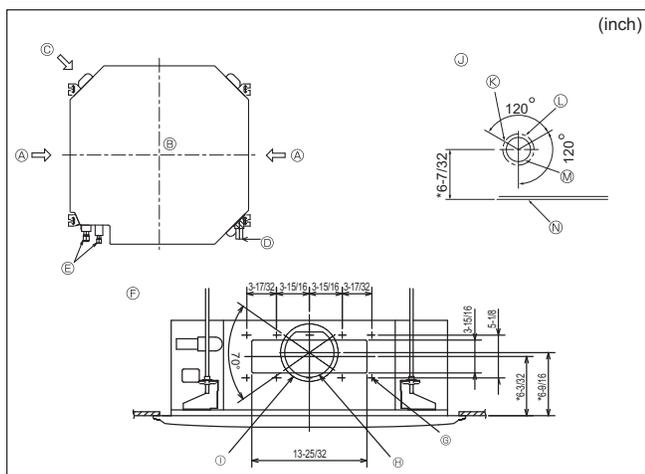


Fig. 3-4

3.4. Branch duct hole and fresh air intake hole (Fig. 3-4)

At the time of installation, use the duct holes (cut out) located at the positions shown in Fig.3-4, as and when required.

• A fresh air intake hole for the optional multi function casement can also be made.

Note:

The figure marked with * in the drawing represent the dimensions of the main unit excluding those of the optional multi function casement.

When installing the optional multi function casement, add 135 mm, 5-5/16 inch to the dimensions marked on the figure.

When installing the branch ducts, be sure to insulate adequately. Otherwise condensation and dripping may occur.

- | | |
|--|---|
| Ⓐ Branch duct hole | Ⓒ 14- ϕ 2.8 mm, ϕ 1/8 inch burring hole |
| Ⓑ Indoor unit | Ⓓ ϕ 150 mm, ϕ 5-29/32 inch cut out hole |
| Ⓒ Fresh air intake hole | Ⓔ ϕ 175 mm, ϕ 6-7/8 inch burring hole pitch |
| Ⓓ Drain pipe | Ⓕ Fresh air intake hole diagram |
| Ⓔ Refrigerant pipe | Ⓖ 3- ϕ 2.8 mm, ϕ 1/8 inch burring hole |
| Ⓕ Branch duct hole diagram (view from either side) | Ⓖ ϕ 125 mm, ϕ 4-29/32 inch burring hole pitch |
| | Ⓜ ϕ 100 mm, ϕ 3-15/16 inch cut out hole |
| | Ⓝ Ceiling |

3.5. Suspension structure (Give site of suspension strong structure) (Fig. 3-5)

• The ceiling work differs according to the construction of the building. Building constructors and interior decorators should be consulted for details.

- Extent of ceiling removal: The ceiling must be kept completely horizontal and the ceiling foundation (framework: wooden slats and slat holders) must be reinforced in order to protect the ceiling from vibration.
- Cut and remove the ceiling foundation.
- Reinforce the ends of the ceiling foundation where it has been cut and add ceiling foundation for securing the ends of the ceiling board.
- When installing the indoor unit on a slanted ceiling, attach a pillar between the ceiling and the grille and set so that the unit is installed horizontally.

① Wooden structures

- Use tie beams (single storied houses) or second floor beams (two story houses) as reinforcing members.
- Wooden beams for suspending air conditioners must be sturdy and their sides must be at least 6 cm, 2-3/8 inch long if the beams are separated by not more than 90 cm, 35-7/16 inch and their sides must be at least 9 cm, 3-9/16 inch long if the beams are separated by as much as 180 cm, 70-7/18 inch. The size of the suspension bolts should be ϕ 10 (3/8"). (The bolts do not come with the unit.)

② Ferro-concrete structures

Secure the suspension bolts using the method shown, or use steel or wooden hangers, etc. to install the suspension bolts.

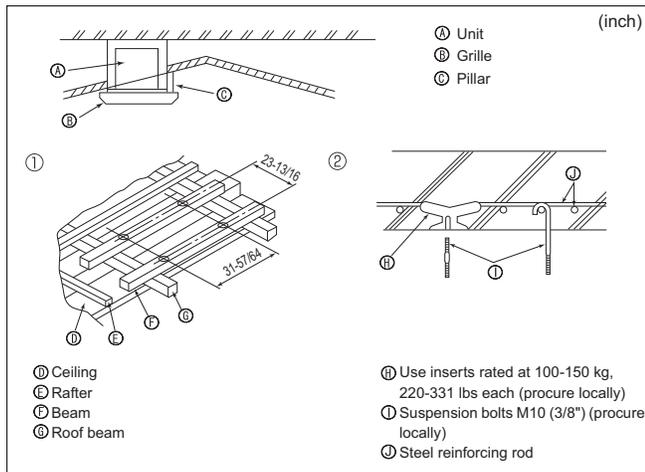


Fig. 3-5

3.6. Unit suspension procedures (Fig. 3-6)

Suspend the main unit as shown in the diagram.

Figures given in parentheses represent the dimensions in case of installing optional multi function casement.

- In advance, set the parts onto the suspension bolts in the order of the washers (with insulation), washers (without insulation) and nuts (double).
 - Fit the washer with cushion so that the insulation faces downward.
 - In case of using upper washers to suspend the main unit, the lower washers (with insulation) and nuts (double) are to be set later.
- Lift the unit to the proper height of the suspension bolts to insert the mounting plate between washers and then fasten it securely.
- When the main unit can not be aligned against the mounting hole on the ceiling, it is adjustable owing to a slot provided on the mounting plate.
 - Make sure that A is performed within 17-22 mm, 11/16 to 7/8 inch. Damage could result by failing to adhere to this range. (Fig. 3-7)

⚠ Caution:

Use the top half of the box as a protective cover to prevent dust or debris from getting inside the unit prior to installation of the decorative cover or when applying ceiling materials.

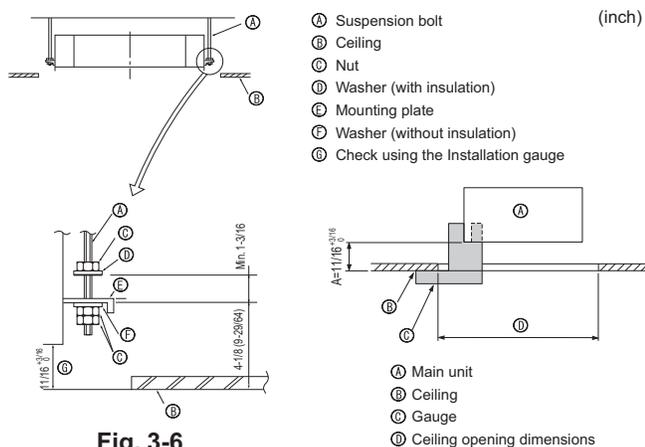
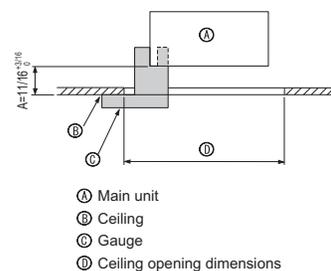


Fig. 3-6

Fig. 3-7



3.7. Confirming the position of main unit and tightening the suspension bolts (Fig. 3-8)

- Using the gauge attached to the grille, ensure that the bottom of the main unit is properly aligned with the opening of the ceiling. Be sure to confirm this, otherwise condensation may form and drip due to air leakage, etc.
- Confirm that the main unit is horizontally levelled, using a level or a vinyl tube filled with water.
- After checking the position of the main unit, tighten the nuts of the suspension bolts securely to fasten the main unit.
- The installation template (top of the package) can be used as a protective sheet to prevent dust from entering the main unit when the grilles are left unattached for a while or when the ceiling materials are to be lined after installation of the unit is finished.

* As for the details of fitting, refer to the instructions given on the Installation template.

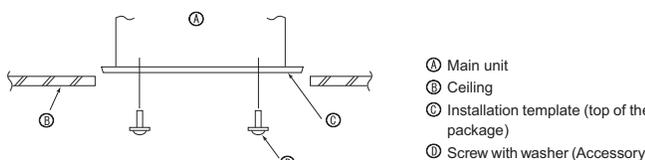


Fig. 3-8

4. Installing the refrigerant piping

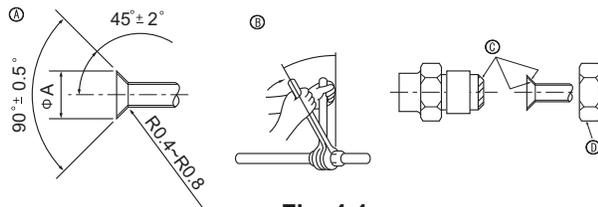


Fig. 4-1

Ⓐ Flare cutting dimensions

Copper pipe O.D. (mm, inch)	Flare dimensions φA dimensions (mm, inch)
φ6.35, 1/4	8.7 - 9.1, 11/32 - 23/64
φ9.52, 3/8	12.8 - 13.2, 1/2 - 33/64
φ12.7, 1/2	16.2 - 16.6, 41/64 - 21/32
φ15.88, 5/8	19.3 - 19.7, 49/64 - 25/32
φ19.05, 3/4	23.6 - 24.0, 15/16 - 61/64

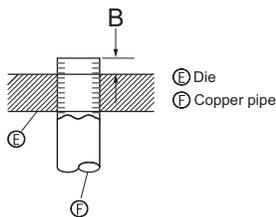


Fig. 4-2

Copper pipe O.D. mm (inch)	B (mm, inch)
	Flare tool for R410A Clutch type
φ6.35 (1/4")	1.0 - 1.5, 3/64 - 1/16
φ9.52 (3/8")	1.0 - 1.5, 3/64 - 1/16
φ12.7 (1/2")	1.0 - 1.5, 3/64 - 1/16
φ15.88 (5/8")	1.0 - 1.5, 3/64 - 1/16
φ19.05 (3/4")	1.0 - 1.5, 3/64 - 1/16

4.1. Precautions

For devices that use R410A refrigerant

- Use ester oil, ether oil or alkylbenzene oil (small amount) as the refrigeration oil applied to the flared sections.
- Use C1220 copper phosphorus for copper and copper alloy seamless pipes, to connect the refrigerant pipes. Use refrigerant pipes with the thicknesses specified in the table below. Make sure the insides of the pipes are clean and do not contain any harmful contaminants such as sulfuric compounds, oxidants, debris, or dust.

⚠ Warning:

When installing or moving the air conditioner, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix it with any other refrigerant and do not allow air to remain in the lines. Air enclosed in the lines can cause pressure peaks resulting in a rupture and other hazards.

	A12, A18	A24, A30, A36, A42
Liquid pipe	ø6.35 mm, ø1/4 inch thickness 0.8mm, 1/32 inch	ø9.52 mm, ø3/8 inch thickness 0.8mm, 1/32 inch
Gas pipe	ø12.7 mm, ø1/2 inch thickness 0.8mm, 1/32 inch	ø15.88 mm, ø5/8 inch thickness 1.0mm, 3/64 inch

- Do not use pipes thinner than those specified above.

4.2. Connecting pipes (Fig. 4-1)

- When commercially available copper pipes are used, wrap liquid and gas pipes with commercially available insulation materials (heat-resistant to 100 °C, 212 °F or more, thickness of 12 mm, 1/2 inch or more).
- The indoor parts of the drain pipe should be wrapped with polyethylene foam insulation materials (specific gravity of 0.03, thickness of 9 mm, 23/64 inch or more).
- Apply thin layer of refrigerant oil to pipe and joint seating surface before tightening flare nut.
- Use two wrenches to tighten piping connections.
- Use refrigerant piping insulation provided to insulate indoor unit connections. Insulate carefully.

Ⓒ Flare nut tightening torque

Copper pipe O.D. (mm, inch)	Flare nut O.D. (mm, inch)	Tightening torque (N-m, ftlbs)
ø6.35, 1/4	17, 43/64	14-18, 10-13
ø6.35, 1/4	22, 7/8	34-42, 25-30
ø9.52, 3/8	22, 7/8	34-42, 25-30
ø12.7, 1/2	26, 1-3/64	49-61, 35-44
ø12.7, 1/2	29, 1-9/64	68-82, 49-59
ø15.88, 5/8	29, 1-9/64	68-82, 49-59
ø15.88, 5/8	36, 1-27/64	100-120, 71-86
ø19.05, 3/4	36, 1-27/64	100-120, 71-86

- Apply refrigerating machine oil over the entire flare seat surface.
- Use correct flare nuts meeting the pipe size of the outdoor unit.

Available pipe size

	A12, A18	A24, A30, A36, A42
Liquid side	ø6.35 ○	ø9.52 ○
Gas side	ø12.7 ○	ø15.88 ○

- : Factory flare nut attachment to the heat exchanger.

4. Installing the refrigerant piping

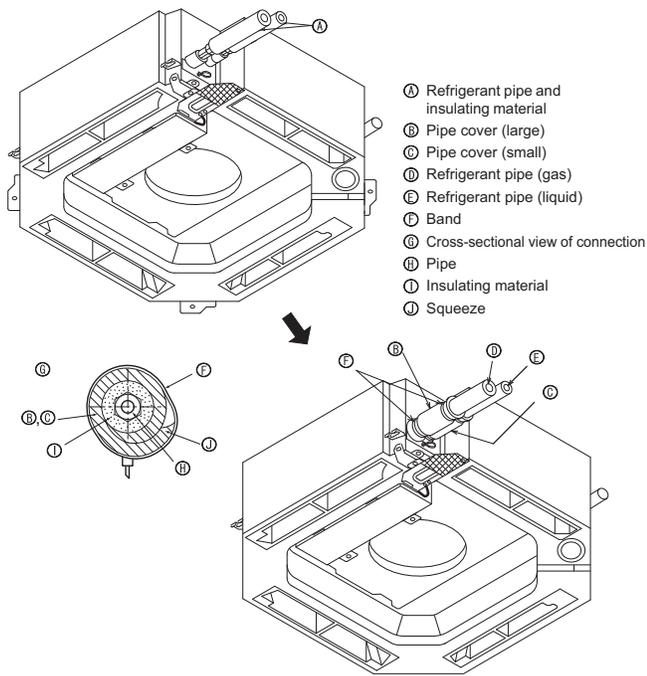


Fig. 4-3

4.3. Indoor unit (Fig. 4-3)

Heat insulation for refrigerant pipes:

- 1 Wrap the enclosed large-sized pipe cover around the gas pipe, making sure that the end of the pipe cover touches the side of the unit.
 - 2 Wrap the enclosed small-sized pipe cover around the liquid pipe, making sure that the end of the pipe cover touches the side of the unit.
 - 3 Secure both ends of each pipe cover with the enclosed bands. (Attach the bands 20 mm, 25/32 inch from the ends of the pipe cover.)
- After connecting the refrigerant piping to the indoor unit, be sure to test the pipe connections for gas leakage with nitrogen gas. (Check that there is no refrigerant leakage from the refrigerant piping to the indoor unit.)

4.4. For twin/triple combination

Refer to the outdoor unit installation manual.

5. Drainage piping work

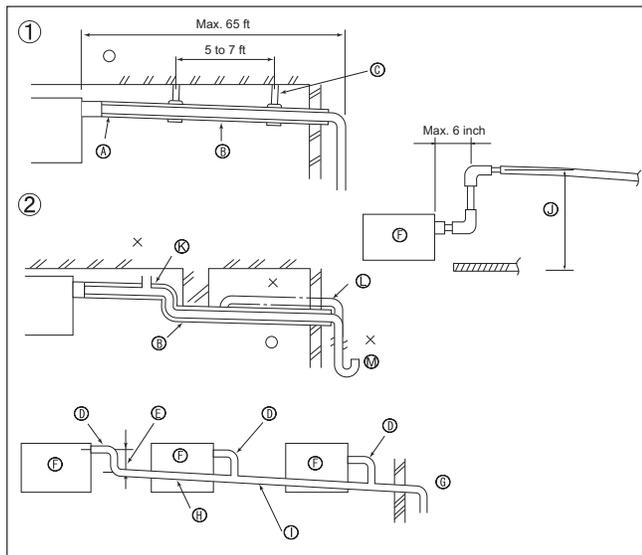


Fig. 5-1

5.1. Drainage piping work (Fig. 5-1)

- Use VP25 (O.D. ø32 mm, 1-1/4 inch PVC TUBE) for drain piping and provide 1/100 or more downward slope.
- Be sure to connect the piping joints using a polyvinyl type adhesive.
- Observe the figure for piping work.
- Use the included drain hose to change the extraction direction.

- | | |
|---|-----------------|
| ① Correct piping | ⓐ Support metal |
| ② Wrong piping | ⓑ Air bleeder |
| Ⓐ Insulation (9 mm, 23/64 inch or more) | ⓒ Raised |
| Ⓑ Downward slope (1/100 or more) | ⓓ Odor trap |

Grouped piping

- | | |
|--|---|
| Ⓓ O.D. ø32 mm, 1-1/4 inch PVC TUBE | Ⓗ Downward slope (1/100 or more) |
| Ⓔ Make it as large as possible | ⓑ O.D. ø38 mm, 1-1/2 inch PVC TUBE for grouped piping (9 mm, 23/64 inch or more insulation) |
| Ⓕ Indoor unit | Ⓙ Up to 850 mm, 33-7/16 inch |
| Ⓖ Make the piping size large for grouped piping. | |

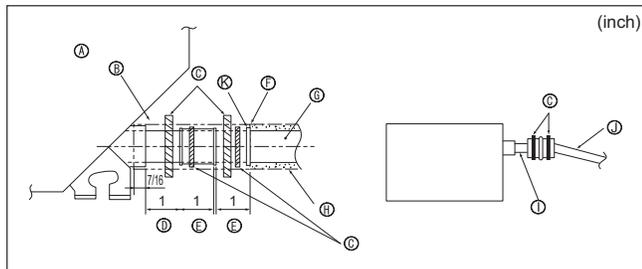


Fig. 5-2

1. Connect the drain socket (supplied with the unit) to the drain port. (Fig. 5-2)
(Fix the tube using PVC adhesive then secure it with a band.)
2. Install a locally purchased drain pipe (PVC pipe, O.D. ø32mm, 1-1/4 inch).
(Fix the pipe using PVC adhesive then secure it with a band.)
3. Insulate the tube and pipe. (PVC pipe, O.D. ø32mm, 1-1/4 inch and socket)
4. Check that drain flows smoothly.
5. Insulate the drain port with insulating material, then secure the material with a band. (Both insulating material and band are supplied with the unit.)

- | | |
|----------------------------|--|
| Ⓐ Unit | ⓐ Drain pipe (O.D. ø32mm, 1-1/4 inch PVC TUBE) |
| Ⓑ Insulating material | Ⓗ Insulating material (purchased locally) |
| Ⓒ Band | ⓑ Transparent PVC pipe |
| Ⓓ Drain port (transparent) | Ⓙ O.D. ø32 mm, 1-1/4 inch PVC TUBE (Slope 1/100 or more) |
| Ⓔ Insertion margin | ⓓ Drain socket |
| Ⓕ Matching | |

6. Electrical work

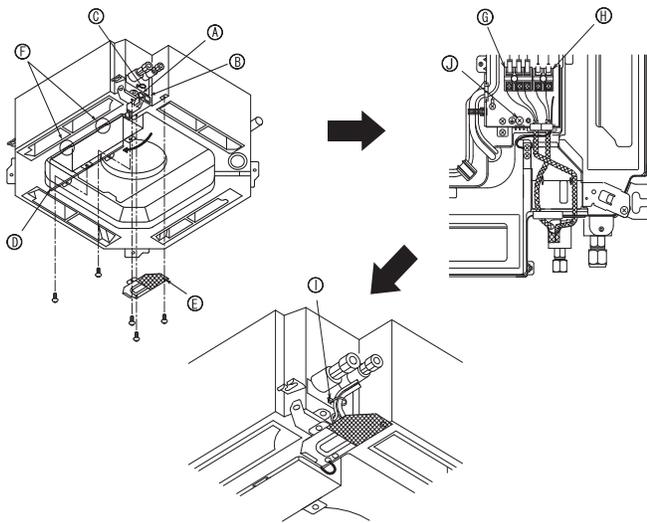


Fig. 6-1

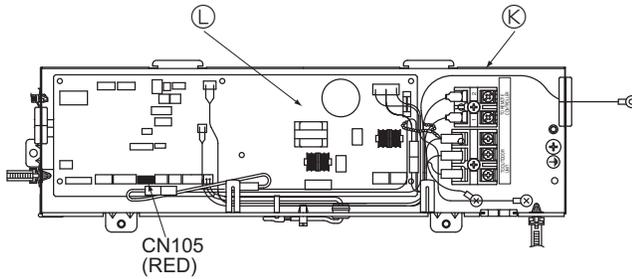


Fig. 6-2

6.1. Indoor unit (Fig. 6-1)

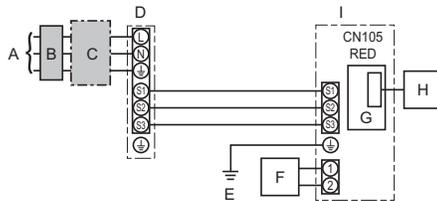
1. Remove the electrical wiring service panel.
 2. Remove the electrical box cover.
 3. For radio frequency interface.
Connect the electric wires securely to CN105(RED) of indoor controller board. (Fig. 6-2)
For wired remote controller.
Wire the power cable and control cable separately through the respective wiring entries given in the diagram.
- Do not allow slackening of the terminal screws.
 - Leave excess cable so that the electrical box cover can be suspended below the unit during servicing. (Approx. 50 to 100 mm, 2 to 4 inch)

- Ⓐ Entry for control cable
- Ⓑ Entry for power
- Ⓒ Clamp
- Ⓓ Electrical box cover
- Ⓔ Service panel for electrical wiring
- Ⓕ Temporary hook for electrical box cover
- Ⓖ Indoor / Outdoor unit connecting terminals
- Ⓗ Wired remote controller connector
- Ⓘ Secure with the clamp
- Ⓝ Earth terminal
- Ⓚ Electrical box
- Ⓛ Indoor controller board

6.1.1. Indoor unit power supplied from outdoor unit

The following connection patterns are available.
The outdoor unit power supply patterns vary on models.

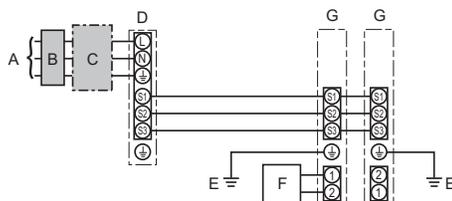
1:1 System



- A Outdoor unit power supply
- B Earth leakage breaker
- C Wiring circuit breaker or isolating switch
- D Outdoor unit
- E Indoor earth
- F Wired remote controller
- G Indoor controller board
- H Radio frequency interface for RF thermostat
- I Indoor unit

* Affix label A that is included with the manuals near each wiring diagram for the indoor and outdoor units.

Simultaneous twin system



- Only for wired remote controller**
- A Outdoor unit power supply
 - B Earth leakage breaker
 - C Wiring circuit breaker or isolating switch
 - D Outdoor unit
 - E Indoor earth
 - F Wired remote controller
 - G Indoor unit

* Affix label A that is included with the manuals near each wiring diagram for the indoor and outdoor units.

6. Electrical work

Indoor unit model		PLA-A12, 18, 24, 30	PLA-A36, 42
Minimum circuit ampacity		1A	2A
Maximum rating of overcurrent protective device		15A	15A
Wiring Wire No. x size	Indoor unit-Outdoor unit	*1	3 x AWG16 (polar)
	Indoor unit earth		1 x Min. AWG16
	Wired remote controller-Indoor unit	*2	2 x AWG22 (Non-polar)
Circuit rating	Indoor unit-Outdoor unit S1-S2	*3	AC 208/230 V
	Indoor unit-Outdoor unit S2-S3	*3	DC24 V
	Wired remote controller-Indoor unit	*3	DC12 V

*1. Max. 50 m, 165 ft

*2. The 10m, 30 ft wire is attached in the wired remote controller accessory. Max. 500 m, 1500ft

*3. The figures are NOT always against the ground.

S3 terminal has DC 24 V against S2 terminal. However between S3 and S1, these terminals are not electrically insulated by the transformer or other device.

- Notes:**
1. Wiring size must comply with the applicable local and national code.
 2. Use copper supply wires.
 3. Use wires rated 300V or more for the power supply cables and the indoor unit/outdoor unit connecting cables.
 4. Install an earth longer than other cables.

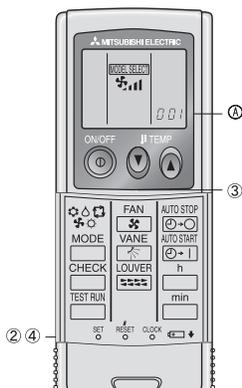


Fig. 6-3

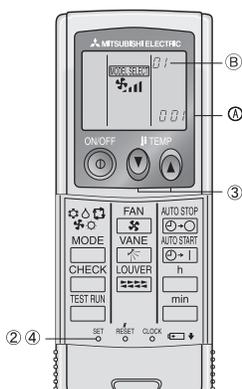


Fig. 6-4

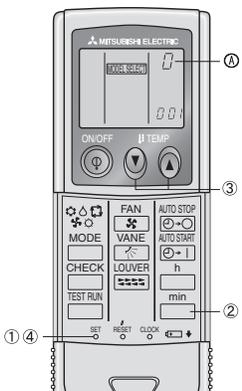


Fig. 6-5

6.2. Remote controller

6.2.1. For wired remote controller

1) Two wired remote controllers setting

If two wired remote controllers are connected, set one to "Main" and the other to "Sub". For setting procedures, refer to "Function selection of remote controller" in the operation manual for the indoor unit.

6.2.2. For IR wireless remote controller

1) Setting (Fig. 6-3)

- 1) Insert batteries.
- 2) Press the SET button with something sharp at the end.
MODEL SELECT blinks and Model No. is lighted.
- 3) Press the temp \odot \ominus buttons to set the Model No.
If you mistook the operation, press the ON/OFF \odot button and operate again from procedure 2).
- 4) Press the SET button with something sharp at the end.
MODEL SELECT and Model No. are lighted for three seconds, then turned off.

Indoor	Outdoor	Ⓐ Model No.
PLA	heat pump models	001
	cooling only models	033

2) Automatic fan speed setting (For IR wireless remote controller) (Fig. 6-4)

It is necessary to set for IR wireless remote controller only when automatic fan speed is not set at default setting.

It is not necessary to set for wired remote controller with automatic fan speed at default setting.

- 1) Press the SET button with something sharp at the end.
Operate when display of remote controller is off.
MODEL SELECT blinks and Model No. is lighted Ⓐ.
- 2) Press the AUTO STOP \odot \ominus button.
MODEL SELECT blinks and setting No. is lighted Ⓑ.
(Setting No.01: without automatic fan speed)
- 3) Press the temp. \odot \ominus buttons to set the setting No.02.
(Setting No.02:with automatic fan speed)
If you mistook the operation, press the ON/OFF \odot button and operate again from procedure 2).
- 4) Press the SET button with something sharp at the end.
MODEL SELECT and Model No. are lighted for 3 seconds, then turned off.

3) Assigning a IR wireless remote controller to each unit (Fig. 6-5)

Each unit can be operated only by the assigned remote controller.
Make sure each pair of an indoor unit PC board and a IR wireless remote controller is assigned to the same pair No.

4) IR wireless remote controller pair number setting operation (Fig. 6-5)

- 1) Press the SET button with something sharp at the end.
Start this operation from the status of IR wireless remote controller display turned off. **MODEL SELECT** blinks and Model No. is lighted.
- 2) Press the \square button twice continuously.
Pair No. "0" blinks.
- 3) Press the temp \odot \ominus buttons to set the pair number you want to set.
If you mistook the operation, press the ON/OFF \odot button and operate again from procedure 2.
- 4) Press the SET button with something sharp at the end.
Set pair number is lighted for three seconds then turned off.

Ⓐ Pair No. of IR wireless remote controller	Indoor PC board
0	Factory setting
1	Cut J41
2	Cut J42
3-9	Cut J41, J42

6. Electrical work

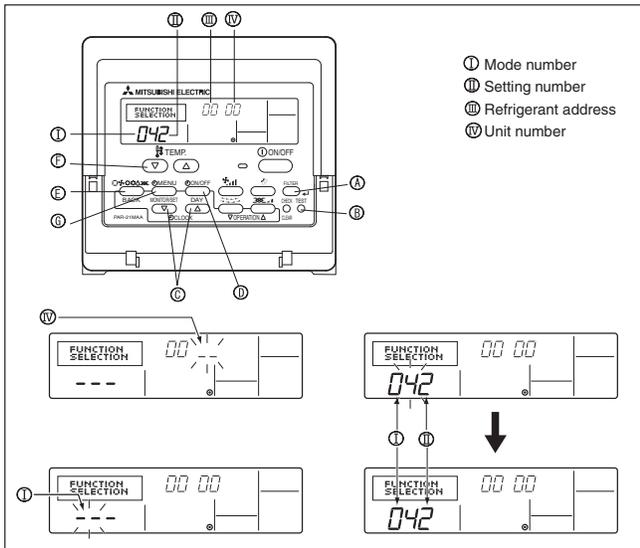


Fig. 6-6

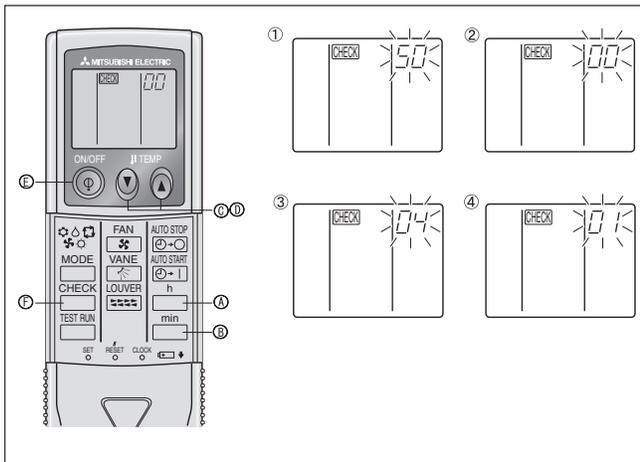


Fig. 6-7

6.3. Function settings

6.3.1. Function setting on the unit (Selecting the unit functions)

1) For wired remote controller (Fig. 6-6)

Changing the power voltage setting

- Be sure to change the power voltage setting depending on the voltage used.

- Go to the function setting mode.
Switch OFF the wired remote controller.
Press the FILTER (A) and TEST RUN (B) buttons simultaneously and hold them for at least 2 seconds. FUNCTION will start to blink.
- Use the (C) buttons to set the refrigerant address (3) to 00.
- Press (D) button and [-] will start to blink in the unit number (4) display.
- Use the (C) buttons to set the unit number (4) to 00.
- Press the MODE button (E) to designate the refrigerant address/unit number. [-] will blink in the mode number (1) display momentarily.
- Press the (F) buttons to set the mode number (1) to 04.
- Press the (G) button and the current set setting number (2) will blink.
Use the (H) button to switch the setting number in response to the power supply voltage to be used.

Power supply voltage

- 230 V : setting number = 1
- 208 V : setting number = 2

- Press the MODE button (E) and mode and the setting number (1) and (2) will change to being on constantly and the contents of the setting can be confirmed.
- Press the FILTER (A) and TEST RUN (B) buttons simultaneously for at least two seconds. The function selection screen will disappear momentarily and the air conditioner OFF display will appear.

2) For IR wireless remote controller (Fig. 6-7)

Changing the power voltage setting

- Be sure to change the power voltage setting depending on the voltage used.

- Going to the function select mode
Press the CHECK (I) button twice continuously.
(Start this operation from the status of IR wireless remote controller display turned off.)
CHECK is lighted and "00" blinks.

Press the (J) temp button (K) once to set "50". Direct the IR wireless remote controller toward the receiver of the indoor unit and press the (L) button (M).

② Setting the unit number

Press the (N) temp buttons (O) and (P) to set the unit number "00". Direct the IR wireless remote controller toward the receiver of the indoor unit and press the (Q) button (R).

③ Selecting a mode

Enter 04 to change the power voltage setting using the (S) temp buttons (T) and (U). Direct the IR wireless remote controller toward the receiver of the indoor unit and press the (V) button (W).

- Current setting number:
- 1 = 1 beep (one second)
 - 2 = 2 beeps (one second each)
 - 3 = 3 beeps (one second each)

④ Selecting the setting number

Use the (X) temp buttons (Y) and (Z) to change the power voltage setting to 01 (240 V). Direct the IR wireless remote controller toward the sensor of the indoor unit and press the (AA) button (AB).

⑤ To select multiple functions continuously

Repeat steps ③ and ④ to change multiple function settings continuously.

⑥ Complete function selection

Direct the IR wireless remote controller toward the sensor of the indoor unit and press the (AC) button (AD).

Note: Whenever changes are made to the function settings after installation or maintenance, be sure to record the changes with a mark in the "Setting" column of the Function table.

6.3.2. Function setting on the remote controller

Refer to the appropriate operation manual included with each remote controller.

6. Electrical work

Function table

Select unit number 00

Mode	Settings	Mode No.	Setting no.	Initial setting	setting
		Wired remote controller (RF thermostat)			
Power failure automatic recovery	Not available	01	1		
	Available *1	(101)	2	○	
Indoor temperature detecting	Indoor unit operating average	02 (-)	1	○	
	Set by indoor unit's remote controller		2		
	Wired remote controller's internal sensor		3		
LOSSNAY connectivity	Not Supported	03 (103)	1	○	
	Supported (indoor unit is not equipped with outdoor-air intake)		2		
	Supported (indoor unit is equipped with outdoor-air intake)		3		
Power voltage	230 V	04 (104)	1	○	
	208 V		2		

Select unit numbers 01 to 03 or all units (AL [wired remote controller]/07 [wireless remote controller])

Mode	Settings	Mode No.	Setting no.	Initial setting	setting
		Wired remote controller (RF thermostat)			
Filter sign	100Hr	07 (107)	1		
	2500Hr		2	○	
	No filter sign indicator		3		
Fan speed	Silent	08 (108)	1		
	Standard		2	○	
	High ceiling		3		
No. of air outlets	4 directions	09 (109)	1	○	
	3 directions		2		
	2 directions		3		
Installed options (high-performance filter)	Not supported	10 (110)	1	○	
	Supported		2		
Up/down vane setting	Equipped with vanes (vaner angle setup ③)	11 (111)	1		
	Equipped with vanes (vaner angle setup ①)		2		
	Equipped with vanes (vaner angle setup ②)		3	○	

*1 When the power supply returns, the air conditioner will start 3 minutes later.

*2 Power failure automatic recovery initial setting depends on the connecting outdoor unit.

7. Test run

7.1. Before test run

- ▶ After completing installation and the wiring and piping of the indoor and outdoor units, check for refrigerant leakage, looseness in the power supply or control wiring, wrong polarity, and no disconnection of one phase in the supply.
- ▶ Use a 500-volt megohmmeter to check that the resistance between the power supply terminals and ground is at least 1.0 MΩ.
- ▶ Do not carry out this test on the control wiring (low voltage circuit) terminals.

⚠ Warning:

Do not use the air conditioner if the insulation resistance is less than 1.0 MΩ.

7.2. Test run

- Refer to the installation manual that comes with each remote controller for details.

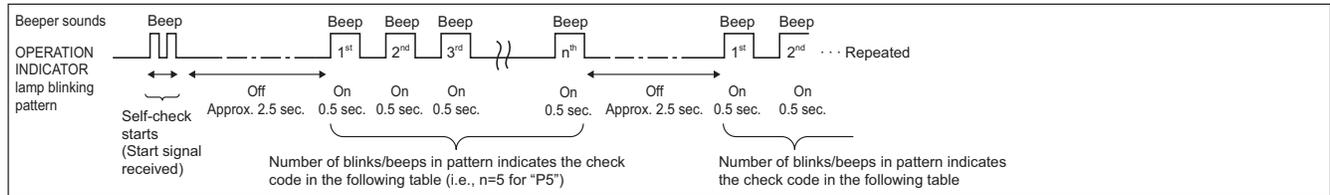
7.3. Self-check

- Refer to the installation manual that comes with each remote controller for details.
- RF thermostat is not established.

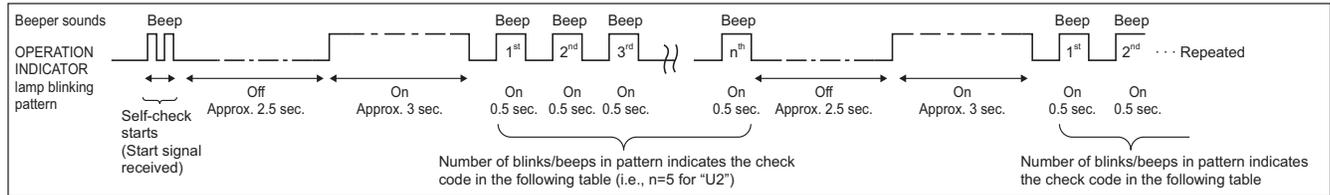
7. Test run

- Refer to the following tables for details on the check codes. (IR wireless remote controller)

[Output pattern A]



[Output pattern B]



[Output pattern A] Errors detected by indoor unit

IR wireless remote controller	Wired remote controller RF thermostat	Symptom	Remark
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code		
1	P1	Intake sensor error	
2	P2	Pipe (TH2) sensor error	
	P9	Pipe (TH5) sensor error	
3	E6, E7	Indoor/outdoor unit communication error	
4	P4	Drain sensor error / Float switch connector open	
5	P5	Drain pump error	
	PA	Forced compressor error	
6	P6	Freezing/Overheating protection operation	
7	EE	Communication error between indoor and outdoor units	
8	P8	Pipe temperature error	
9	E4	Remote controller signal receiving error	
10	—	—	
11	—	—	
12	Fb	Indoor unit control system error (memory error, etc.)	
No sound	E0, E3	Remote controller transmission error	
No sound	E1, E2	Remote controller control board error	
No sound	— —	No corresponding	

[Output pattern B] Errors detected by unit other than indoor unit (outdoor unit, etc.)

IR wireless remote controller	Wired remote controller RF thermostat	Symptom	Remark
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code		
1	E9	Indoor/outdoor unit communication error (Transmitting error) (Outdoor unit)	For details, check the LED display of the outdoor controller board.
2	UP	Compressor overcurrent interruption	
3	U3, U4	Open/short of outdoor unit thermistors	
4	UF	Compressor overcurrent interruption (When compressor locked)	
5	U2	Abnormal high discharging temperature/49C worked/insufficient refrigerant	
6	U1, Ud	Abnormal high pressure (63H worked)/Overheating protection operation	
7	U5	Abnormal temperature of heat sink	
8	U8	Outdoor unit fan protection stop	
9	U6	Compressor overcurrent interruption/Abnormal of power module	
10	U7	Abnormality of super heat due to low discharge temperature	
11	U9, UH	Abnormality such as overvoltage or voltage shortage and abnormal synchronous signal to main circuit/Current sensor error	
12	—	—	
13	—	—	
14	Others	Other errors (Refer to the technical manual for the outdoor unit.)	

*1 If the beeper does not sound again after the initial two beeps to confirm the self-check start signal was received and the OPERATION INDICATOR lamp does not come on, there are no error records.

*2 If the beeper sounds three times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 sec.);" after the initial two beeps to confirm the self-check start signal was received, the specified refrigerant address is incorrect.

- On IR wireless remote controller
The continuous buzzer sounds from receiving section of indoor unit.
Blink of operation lamp
- On wired remote controller
Check code displayed in the LCD.

7. Test run

- If the unit cannot be operated properly after the test run has been performed, refer to the following table to remove the cause.

Symptom		LED 1, 2 (PCB in outdoor unit)	Cause
Wired remote controller			
PLEASE WAIT	For about 2 minutes after power-on	After LED 1, 2 are lighted, LED 2 is turned off, then only LED 1 is lighted. (Correct operation)	•For about 2 minutes after power-on, operation of the remote controller is not possible due to system start-up. (Correct operation)
PLEASE WAIT →Error code	Subsequent to about 2 minutes after power-on	Only LED 1 is lighted. → LED 1, 2 blink.	•Connector for the outdoor unit's protection device is not connected. •Reverse or open phase wiring for the outdoor unit's power terminal block (L1, L2, GR)
Display messages do not appear even when operation switch is turned ON (operation lamp does not light up).		Only LED 1 is lighted. → LED 1 blinks twice, LED 2 blinks once.	•Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3) •Remote controller wire short

On the IR wireless remote controller with condition above, following phenomena take place.

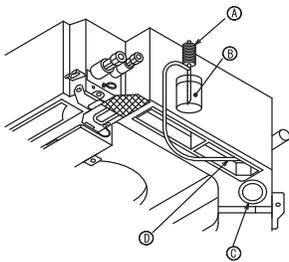
- No signals from the remote controller are accepted.
- Operation lamp is blinking.
- The buzzer makes a short ping sound.

Note:

Operation is not possible for about 30 seconds after cancellation of function selection. (Correct operation)

For description of each LED (LED1, 2, 3) provided on the indoor controller, refer to the following table.

LED 1 (power for microcomputer)	Indicates whether control power is supplied. Make sure that this LED is always lit.
LED 2 (power for remote controller)	Indicates whether power is supplied to the remote controller. This LED lights only in the case of the indoor unit which is connected to the outdoor unit refrigerant address "0".
LED 3 (communication between indoor and outdoor units)	Indicates state of communication between the indoor and outdoor units. Make sure that this LED is always blinking.



- ① Water supply pump
- ② Water (about 1000cc, 1/4 gal)
- ③ Drain plug
- ④ Pour water through outlet
•Be carefule not to spray water into the drain pump mechanism.

7.4. Check of drainage (Fig. 7-5)

- Ensure that the water is being properly drained out and that no water is leaking from joints.

When electric work is completed.

- Pour water during cooling operation and check.

When electric work is not completed.

- Pour water during emergency operation and check.

* Drain pan and fan are activated simultaneously when single phase 220-240V is turned on to S1 and S2 on terminal block after the connector (SWE) on controller board in the electrical branch box is set to ON.

Be sure to turn it back to the former state after work.

8. System control

Refer to the outdoor unit installation manual.

9. Installing the grille

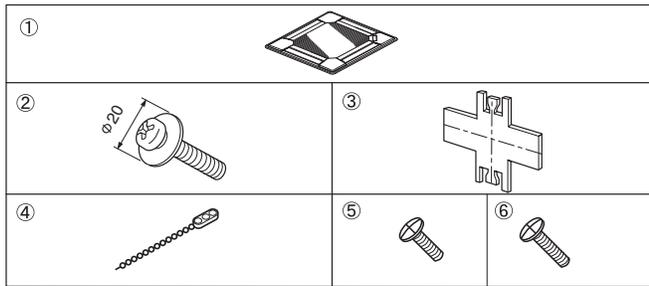


Fig. 9-1

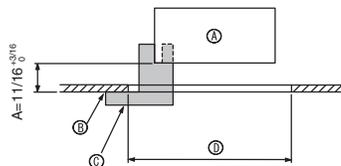


Fig. 9-2

(inch)

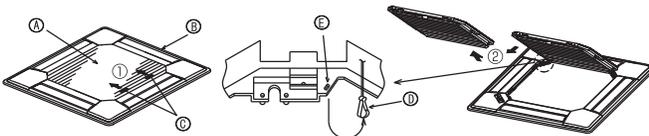


Fig. 9-3

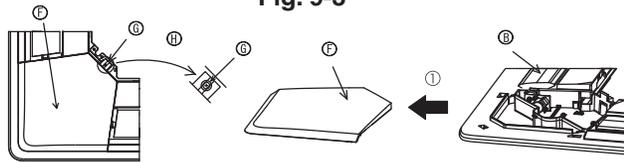


Fig. 9-4

	4-directional	3-directional
Blowout direction patterns	One pattern: Factory setting 	4 patterns: One air outlet fully closed
Blowout direction patterns	2-directional 6 patterns: Two air outlet fully closed 	

Table 1

(inch)

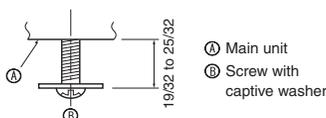


Fig. 9-5

9.1. Checking the contents (Fig. 9-1)

- This kit contains this manual and the following parts.

	Accessory name	Q'ty	Remarks
①	Grille	1	950 × 950 (mm), 37-3/8 × 37-3/8 (inch)
②	Screw with captive washer	4	M5 × 0.8 × 25
③	Gauge	1	(Divided into four parts)
④	Fastener	3	
⑤	Screw	4	4 × 8
⑥	Screw	1	4 × 12

9.2. Preparing to attach the grille (Fig. 9-2)

- With the gauge ③ supplied with this kit, adjust and check the positioning of the unit relative to the ceiling. If the unit is not properly positioned relative to the ceiling, it may allow air leaks or cause condensation to collect.
- Make sure that the opening in the ceiling is within the following tolerances: 860×860 - 910×910 mm, 33-7/8×33-7/8 to 35-13/16×35-13/16 inch.
- Make sure that A is performed within 17-22 mm, 11/16-7/8 inch. Damage could result by failing to adhere to this range.
 - Ⓐ Main unit
 - Ⓑ Ceiling
 - Ⓒ Gauge ③ (inserted into the unit)
 - Ⓓ Ceiling opening dimensions

9.2.1. Removing the intake grille (Fig. 9-3)

- Slide the levers in the direction indicated by the arrows ① to open the intake grille.
- Unlatch the hook that secures the grille.
 - * Do not unlatch the hook for the intake grille.
- With the intake grille in the "open" position, remove the hinge of the intake grille from the grille as indicated by the arrows ②.

9.2.2. Removing the corner panel (Fig. 9-4)

- Remove the screw from the corner of the corner panel. Slide the corner panel as indicated by the arrow ① to remove the corner panel.

[Fig. 9-3] [Fig. 9-4]

- Ⓐ Intake grille
- Ⓑ Grille
- Ⓒ Intake grille levers
- Ⓓ Grille hook
- Ⓔ Hole for the grille's hook
- Ⓕ Corner panel
- Ⓖ Screw
- Ⓗ Detail

9.3. Selection of the air outlets

For this grille the discharge direction is available in 11 patterns. Also, by setting the wired remote controller to the appropriate settings, you can adjust the air-flow and speed. Select the required settings from the Table 1 according to the location in which you want to install the unit.

- Decide on the discharge direction pattern.
- Be sure to set the wired remote controller to the appropriate settings according to the number of air outlets and the height of the ceiling on which the unit will be installed.

Note:

For 3 and 2-directional, please use the air outlet shutter plate (option).

9.4. Installing the grille

9.4.1. Preparations (Fig. 9-5)

- Install the two enclosed screws with washer ② in the main unit (at the corner drain pipe area and at the opposite corner) as shown in the diagram.

9. Installing the grille

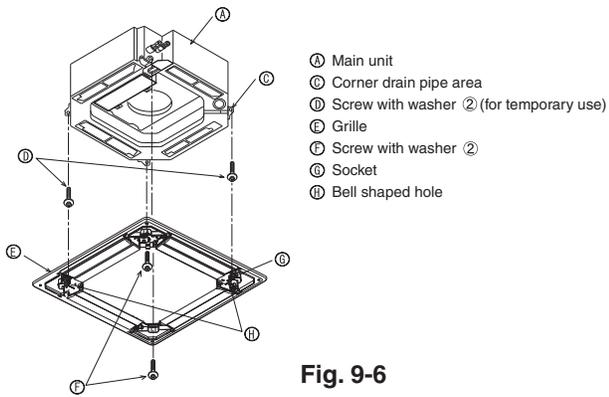


Fig. 9-6

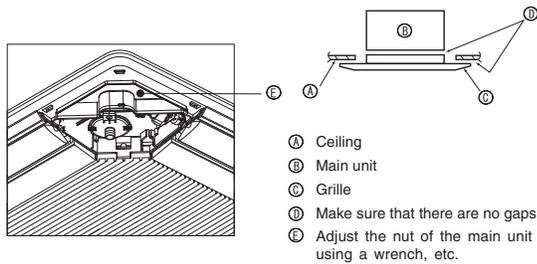


Fig. 9-7

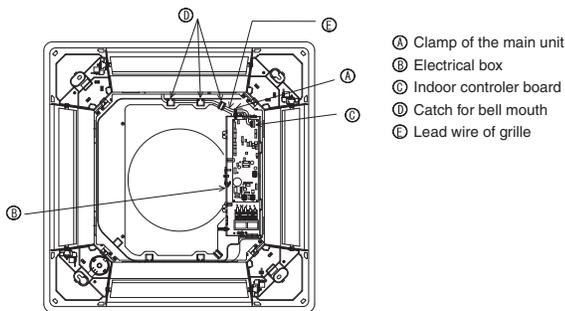


Fig. 9-8

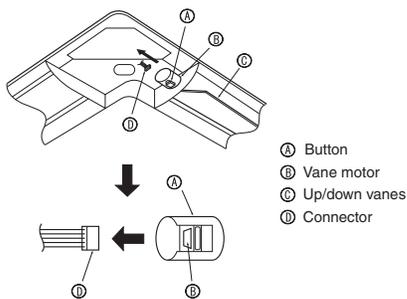


Fig. 9-9

9.4.2. Temporary installation of the grille (Fig. 9-6)

- Temporarily secure the grille using the bell shaped holes by putting the socket of the grille marked ③ on the corner drain pipe area of the main unit.
 - * Make sure that the lead wiring of the grille does not get pinched between the grille and the main unit.

9.4.3. Securing the grille (Fig. 9-7)

- Secure the grille to the main unit by tightening the previously installed two screws (with captive washer) as well as the two remaining screws (with captive washer).
 - * Make sure that there are no gaps between the main unit and the grille or the grille and the ceiling.

Fixing gaps between the grille and the ceiling

With the grille attached, adjust the height of the main unit to close the gap.

9.4.4. Wire connection (Fig. 9-8)

- Remove the 2 screws fixing the cover of electrical branch box of the unit and open the cover.
 - Be sure to connect the connector (white, 20-pole) for vane motor of the grille to CNV connector of controller board of the unit.
 - As for PLP-42BALM, the connector of wireless sensor cable is also connected to connector CN90 on indoor controller board.
- The lead wire of grille is passed through the catch of bell mouth of the unit perfectly. The remaining lead wire is tied with clamp of the unit and put the cover of the unit again with 2 screws.

Note:

Do not put the remaining lead wire in electrical branch box of the unit.

9.5. Locking the up/down airflow direction (Fig. 9-9)

The vanes of the unit can be set and locked in up or down orientations depending upon the environment of use.

- Set according to the preference of the customer.

The operation of the fixed up/down vanes and all automatic controls cannot be performed using the wired remote controller. In addition, the actual position of the vanes may differ from the position indicated on the wired remote controller.

- Turn off the main power switch.

Injuries or an electrical shock may occur while the fan of the unit is rotating.

- Disconnect the connector for the vane motor of the vent that you want to lock. (While pressing the button, remove the connector in the direction indicated by the arrow as shown in the diagram.) After removing the connector, insulate it with tape.

It also can be set by wired remote controller. Refer to operation manual.

9.6. Check

- Make sure that there is no gap between the unit and the grille, or between the grille and the surface of the ceiling. If there is any gap between the unit and the grille, or between the grille and the surface of the ceiling, it may cause dew to collect.
- Make sure that the wires have been securely connected.

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1. Consignes de sécurité

- ▶ Avant d'installer le climatiseur, lire attentivement toutes les « Consignes de sécurité ».
- ▶ Veuillez consulter ou obtenir l'autorisation de votre compagnie d'électricité avant de connecter votre système.

⚠ Avertissement:

Précautions à suivre pour éviter tout danger de blessure ou de décès de l'utilisateur.

⚠ Précaution:

Décrit les précautions qui doivent être prises pour éviter d'endommager l'appareil.

⚠ Avertissement:

- Contacter un revendeur ou un technicien agréé pour installer l'appareil.
- Pour l'installation, respecter les instructions du manuel d'installation et utiliser des outils et des composants de tuyau spécialement conçus pour une utilisation avec le réfrigérant spécifié dans le manuel d'installation de l'appareil extérieur.
- L'appareil doit être installé conformément aux instructions pour réduire les risques de dommages liés à des tremblements de terre, des typhons ou des vents violents. Une installation incorrecte peut entraîner la chute de l'appareil et provoquer des dommages ou des blessures.
- L'appareil doit être solidement installé sur une structure pouvant supporter son poids.
- Si le climatiseur est installé dans une petite pièce, certaines mesures doivent être prises pour éviter que la concentration de réfrigérant ne dépasse le seuil de sécurité en cas de fuite. En cas de fuite de réfrigérant et de dépassement du seuil de concentration, des risques liés au manque d'oxygène dans la pièce peuvent survenir.

Une fois l'installation terminée, expliquer les « Consignes de sécurité », l'utilisation et l'entretien de l'appareil au client conformément aux informations du mode d'emploi et effectuer l'essai de fonctionnement en continu pour garantir un fonctionnement normal. Le manuel d'installation et le mode d'emploi doivent être fournis à l'utilisateur qui doit les conserver. Ces manuels doivent également être transmis aux nouveaux utilisateurs.

⬇ : Indique un élément qui doit être mis à la terre.

⚠ Avertissement:

Prendre soin de lire les étiquettes se trouvant sur l'appareil principal.

- Aérer la pièce en cas de fuite de réfrigérant lors de l'utilisation. Le contact du réfrigérant avec une flamme peut provoquer des émanations de gaz toxiques.
- Tout travail sur les installations électriques doit être effectué par un technicien qualifié conformément aux réglementations locales et aux instructions fournies dans ce manuel.
- N'utiliser que les câbles spécifiés pour les raccordements.
- Le couvercle du bloc de sortie de l'appareil doit être solidement fixé.
- N'utiliser que les accessoires agréés par Mitsubishi Electric et contacter un revendeur ou un technicien agréé pour les installer.
- L'utilisateur ne doit jamais essayer de réparer ou de déplacer l'appareil.
- Une fois l'installation terminée, vérifier les éventuelles fuites de réfrigérant. Si le réfrigérant fuit dans la pièce et entre en contact avec la flamme d'un chauffage ou d'une cuisinière, des gaz toxiques peuvent se dégager.

1.1. Avant l'installation (Environnement)

⚠ Précaution:

- Ne pas utiliser l'appareil dans un environnement inhabituel. Si le climatiseur est installé dans des endroits exposés à la vapeur, à l'huile volatile (notamment l'huile de machine), au gaz sulfurique ou à une forte teneur en sel, par exemple, en bord de mer, les performances peuvent considérablement diminuer et les pièces internes de l'appareil être endommagées.
- Ne pas installer l'appareil dans des endroits où des gaz de combustion peuvent s'échapper, se dégager ou s'accumuler. L'accumulation de gaz de combustion autour de l'appareil peut provoquer un incendie ou une explosion.
- Ne pas placer d'aliments, de plantes, d'animaux en cage, d'objets d'art ou d'instruments de précision dans la soufflerie d'air direct de l'appareil intérieur ou à proximité de l'appareil au risque de les endommager par des variations de température ou des gouttes d'eau.

- Si l'humidité ambiante dépasse 80% ou si le tuyau d'écoulement est bouché, des gouttes d'eau peuvent tomber de l'appareil intérieur. Ne pas installer l'appareil intérieur dans un endroit où ces gouttes peuvent provoquer des dommages.
- Lors de l'installation de l'appareil dans un hôpital ou un centre de communications, se préparer au bruit et aux interférences électroniques. Les inverseurs, les appareils électroménagers, les équipements médicaux haute fréquence et de communications radio peuvent provoquer un dysfonctionnement ou une défaillance du climatiseur. Le climatiseur peut également endommager les équipements médicaux et de communications, perturbant ainsi les soins et réduisant la qualité d'affichage des écrans.

1.2. Avant l'installation ou le déplacement

⚠ Précaution:

- Transporter les appareils avec précaution. L'appareil doit être transporté par au moins deux personnes, car il pèse 20 kg, 40 livres minimum. Ne pas le saisir par les rubans d'emballage. Porter des gants de protection en raison du risque de se blesser les mains sur les ailettes ou d'autres pièces.
- Veiller à éliminer le matériel d'emballage en toute sécurité. Le matériel d'emballage (clous et autres pièces en métal ou en bois) peut provoquer des blessures.

- Isoler le tuyau de réfrigérant pour éviter la condensation. S'il n'est pas correctement isolé, de la condensation risque de se former.
- Placer un isolant thermique sur les tuyaux pour éviter la condensation. L'installation incorrecte du tuyau d'écoulement peut provoquer des fuites d'eau et endommager le plafond, le sol, les meubles ou d'autres objets.
- Ne pas nettoyer le climatiseur à l'eau au risque de provoquer un choc électrique.
- Serrer tous les écrous évasés conformément aux spécifications à l'aide d'une clé dynamométrique. S'ils sont trop serrés, ils peuvent casser après une période prolongée.

1.3. Avant l'installation électrique

⚠ Précaution:

- Veiller à installer des coupe-circuits. Dans le cas contraire, un choc électrique peut se produire.
- Pour les lignes électriques, utiliser des câbles standard de capacité suffisante. Dans le cas contraire, un court-circuit, une surchauffe ou un incendie peut se produire.
- Lors de l'installation des lignes électriques, ne pas mettre les câbles sous tension.

- Veiller à mettre l'appareil à la terre. Une mise à la terre incorrecte de l'appareil peut provoquer un choc électrique.
- Utiliser des coupe-circuits (disjoncteur de fuite à la terre, interrupteur d'isolement (fusible +B) et disjoncteur à boîtier moulé) à la capacité spécifiée. Si la capacité du coupe-circuit est supérieure à celle spécifiée, une défaillance ou un incendie peut se produire.

1.4. Avant la marche d'essai

⚠ Précaution:

- Activer l'interrupteur principal au moins 12 heures avant la mise en fonctionnement de l'appareil. L'utilisation de l'appareil juste après sa mise sous tension peut endommager sérieusement les pièces internes.
- Avant d'utiliser l'appareil, vérifier que tous les panneaux, toutes les protections et les autres pièces de sécurité sont correctement installés. Les pièces tournantes, chaudes ou à haute tension peuvent provoquer des blessures.

- Ne pas utiliser le climatiseur si le filtre à air n'est pas installé. Sinon, des poussières peuvent s'accumuler et endommager l'appareil.
- Ne pas toucher les interrupteurs les mains humides au risque de provoquer un choc électrique.
- Ne pas toucher les tuyaux de réfrigérant les mains nues lors de l'utilisation.
- A la fin de l'utilisation de l'appareil, attendre au moins cinq minutes avant de désactiver l'interrupteur principal. Dans le cas contraire, une fuite d'eau ou une défaillance peut se produire.