



Air-Conditioners For Building Application INDOOR UNIT PMFY-P-VBM-E

Bei Verwendung von R410A, R407C & R22 A utiliser avec le R410A, R407C et le R22 R410A, R407C ve R22 ile beraber kullanmak icin Bij gebruik van R410A, R407C & R22 Para utilizar con el R410A, R407C y el R22 Uso del refrigerante R410A, R407C e R22

For use with the R410A, R407C & R22 Για χρήση με τα R410A, R407C και R22 Para utilização com o R410A, R407C e o R22 Для использования с моделями R410A, R407C и R22 使用R410A, R407C和R22制冷剂

INSTALLATION MANUAL

FOR INSTALLER

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

INSTALLATIONSHANDBUCH

FÜR INSTALLATEURE

Zum sicheren und ordnungsgemäßen Gebrauch der Klimaanlage das Installationshandbuch gründlich

MANUEL D'INSTALLATION

POUR L'INSTALLATEUR

Veuillez lire le manuel d'installation en entier avant d'installer ce climatiseur pour éviter tout accident et vous assurer d'une utilisation correcte.

INSTALLATIEHANDLEIDING

VOOR DE INSTALLATEUR

Voor een veilig en juist gebruik moet u deze installatiehandleiding grondig doorlezen voordat u de airconditioner installeert.

MANUAL DE INSTALACION

PARA EL INSTALADOR

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

MANUALE DI INSTALLAZIONE

PER L'INSTALLATORE

Per un uso sicuro e corretto, leggere attentamente questo manuale di installazione prima di installare il condizionatore

ΕΓΧΕΙΡΙΔΙΟ ΟΔΗΓΙΩΝ ΕΓΚΑΤΑΣΤΑΣΗΣ ΓΙΑ ΑΥΤΟΝ ΠΟΥ ΚΑΝΕΙ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ

Για ασφάλεια και σωστή χρήση, παρακαλείστε διαβάσετε προσεχτικά αυτό το εγχειρίδιο εγκατάστασης πριν αρχίσετε την εγκατάσταση της μονάδας κλιματισμού.

MANUAL DE INSTALAÇÃO

PARA O INSTALADOR

Para segurança e utilização correctas, leia atentamente este manual de instalação antes de instalar a unidade de ar condicionado.

MONTAJ ELKİTABI

MONTÖR İÇİN

Emniyetli ve doğru biçimde nasıl kullanılacağını öğrenmek için lütfen klima cihazını monte etmeden önce bu elkitabını dikkatle okuyunuz.

РУКОВОДСТВО ПО УСТАНОВКЕ

ДЛЯ УСТАНОВИТЕЛЯ

Для осторожного и правильного использования прибора необходимо тщательно ознакомиться с данным руководством по установке до выполнения установки кондиционера.

安装说明书

安装人员适用

English

Deutsch

Français

Nederlands

Español

Italiano

Ελληνικά

Portuguê<u>s</u>

Türkçe

Русский

中文

在安装空调机之前,请先通读此安装说明书,以便安全正确地使用。

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1. Safety precautions

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

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.

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 an action that must be avoided.

Indicates that important instructions must be followed.

: Indicates a part which must be grounded.

(a): Indicates that caution should be taken with rotating parts.

: Indicates that the main switch must be turned off before servicing.

: Beware of electric shock.

: Beware of hot surface.

R ELV: At servicing, please shut down the power supply for both the Indoor and

⚠ Warning:

lations.

Carefully read the labels affixed to the main unit.

⚠ Warning:

- · Ask the dealer or an authorized technician to install the air conditioner.
- · Install the unit at a place that can withstand its weight.
- Use the specified cables for wiring.
- Use only accessories authorized by Mitsubishi Electric and ask the dealer or an authorized technician to install them.
- Do not touch the heat exchanger fins.
- · Install the air conditioner according to this Installation Manual.

⚠ Caution:

- · Do not use the existing refrigerant piping, when use R410A or R407C refrig-
- Use ester oil, either oil or alkylbenzene (small amount) as the refrigerator oil to coat flares and flange connections, when use R410A or R407C refrigerant.
- · Do not use the air conditioner where food, pets, plants, precision instruments,
- · Do not use the air conditioner in special environments.

· If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant should leak.

· Have all electric work done by a licensed electrician according to local regu-

. The cut face punched parts may cause injury by cut, etc. The installers are requested to wear protective equipement such as gloves, etc.

- · Ground the unit.
- · Install an leak circuit breaker, as required.
- Use power line cables of sufficient current carrying capacity and rating.
- Use only a circuit breaker and fuse of the specified capacity.
- Do not touch the switches with wet fingers.
- Do not touch the refrigerant pipes during and immediately after operation.
- · Do not operate the air conditioner with the panels and guards removed.
- Do not turn off the power immediately after stopping operation.

2. Installing the indoor unit

1		2	
3		4	
(5)	Control Control	Canal San San San San San San San San San San	

Fig. 2-1

2.1. Check the indoor unit accessories (Fig. 2-1)

The indoor unit should be supplied with the following spare parts and accessories (contained in the inside of the intake grille).

Γ		Accessory name	Q'ty
Г	1	Washer	4 pcs
Γ	2	Washer (with insulation)	4 pcs
Γ	3	Pipe cover	2 pcs
Г	④ Band	Band	4 pcs
	(5)	Screw	4 pcs M5 × 0.8 × 30

2. Installing the indoor unit

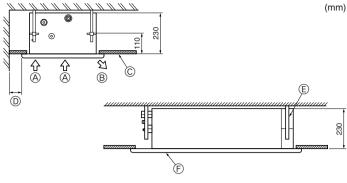


Fig. 2-2

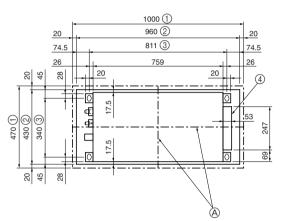
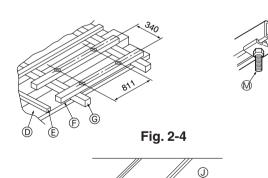
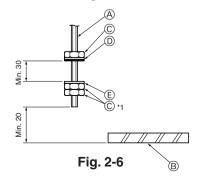


Fig. 2-3



௰ Fig. 2-5



2.2. Service space (Fig. 2-2)

- · The dimensions of ceiling opening can be regulated within the range shown in following diagram; 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.
 - Air intake
 - Air outlet
 - © Ceiling panel
 - (D) Min. 200 mm
 - © Suspension bolts W3/8 or M10
 - F Grille

(mm)

(mm)

(mm)

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

- Make an opening in the ceiling 430 mm \times 960 mm in size. This functions as a check window and will be needed later during servicing.
- If the dimensions are not accurate, when the grille is installed there may be gaps between it and the indoor unit. This may result in dripping water or other problems.
- When deciding on placement, consider carefully the space around the ceiling and make your measurements generous.
- Ceiling types and building construction differ. Therefore you should consult with the builder and decorator.
 - A The centers of the ceiling opening and the indoor unit should be aligned.
 - 1 Outer side of grille
- (2) Ceiling opening
- ③ Bolt pitch
- 4 Electric box
- 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 are shown.)
- Use M10 (3/8") suspension bolts.
 - Suspension bolts are to be procured at the field.
- · After suspending the indoor unit, you will have to connect the pipes and wiring above the ceiling. Once the location has been fixed and the direction of the pipes has been determined, place the refrigerant and drainage pipes, the wiring for the remote controller, and the wiring that connects the indoor and outdoor units in their desired locations before suspending the indoor unit. This is especially important in cases where the ceiling is already in existence.
- ① Wooden structures (Fig. 2-4)
- 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 long if the beams are separated by not more than 90 cm and their sides must be at least 9 cm long if the beams are separated by as much as 180 cm. The size of the suspension bolts should be ø10 mm (3/8"). (The bolts do not come with the unit.)
- Use channel, duct and other parts procured locally to suspend the indoor unit.
- ② Ferro-concrete structures (Fig. 2-5)

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

- © Ceiling panel Rafter
- ① Suspension bolts M10 (3/8") (procure locally)

(F) Beam

Steel reinforcing rod

@ Roof beam

- © C channel
- (pro-
- (L) Channel suspension bracket
- M M10 suspension bolt

2.4. Unit suspension procedures (Fig. 2-6)

Procure 3/8" bolts or M10 bolts locally.

- Adjust the length of the bolt's protrusion from the ceiling surface beforehand.
 - *1. When using an extra upper nut in suspending the unit, in some cases you may have to add it later.
 - A Suspension bolt
 - B Ceiling panel

 - ① Washer (with insulation) ②
 - (E) Washer (without insulation) (1)

2. Installing the indoor unit

1.2.3.

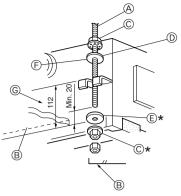


Fig. 2-7

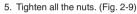
4.



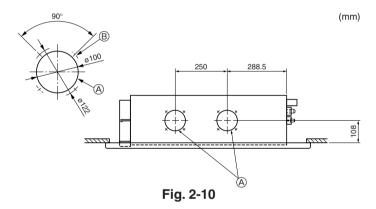


Fig. 2-9

- Check the pitch of the suspension bolt. (340 $\text{mm}\times\text{811}\ \text{mm})$ (mm)
 - 1. Thread washers ① ② (supplied) and their nuts (procured locally) onto the suspension bolt in advance. (Fig. 2-7)
 - Do this in the following order (from the top): nut, insulated washer ②, washer without insulation ①, two nuts.
 - * Position insulated washer ② with the insulated surface pointing down, as in the
 - 2. Lift the unit into place, aligned properly with the suspension bolt. Pass the bracket between washers ① and ②, which are already in place, and secure it. Do the same in all four places.
 - * Make sure the suspension bolt extends 20 mm or more from the surface of the ceiling. Otherwise you will not be able to install the cover panel (sold separately).
 - 3. If the long opening in the bracket and opening in the ceiling do not align, adjust them until they do.
 - A Suspension bolt (3/8" or M10)
- Washer (1)
- B Ceiling surface
- (Install with insulation facing down)
- © Nut (3/8" or M10)
- (G) Measurement to upper face of bracket
- (D) Washer (2) (with insulation)
- 4. Check that the four corners are all level, using a spirit level or clear plastic tubing with water in it. (Fig. 2-8)
 - * Make sure that any slant in the unit after installation is less than 0.5 degrees (approx. 6 mm on the long dimension of the unit).



- (A) Suspension bolt (3/8" or M10)
- ® Clear plastic tubing
- © Underside of bracket
- D Secure front panel here
- (E) Make these surfaces are flush with each other (0 3 mm)



2.5. Fresh air intake hole (Fig. 2-10)

At the time of installation, use the hole (knock out) located at the positions shown in following diagram, as and when required.

- A Fresh air intake hole (Knock out)
- ® 4-ø2.8 burring hole

Note:

(mm)

Make sure that the fresh air intake is no more than 20% of the entire air intake (when the air flow speed is set to its highest setting).

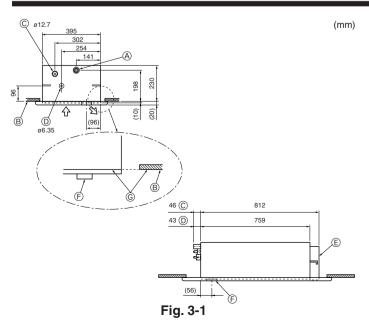
♠ Caution:

Linkage of duct fan and air conditioner.

If a duct fan is used, be sure to link it with the air conditioner when outside air

Do not run just the duct fan. Otherwise, condensation may form.

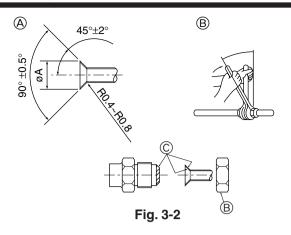
3. Refrigerant pipe and drain pipe



3.1. Refrigerant and drainage piping locations

- A Drain pipe (Use PVC pipe O.D. ø26)
- ® Ceiling panel (underside)
- © Refrigerant pipe (gas)
- Refrigerant pipe (liquid)
- **E** Electrical box
- F Drain pan
- © Make sure these surfaces are flush with each other.

3. Refrigerant pipe and drain pipe



3.2. Connecting pipes (Fig. 3-2)

- · When commercially available copper pipes are used, wrap liquid and gas pipes with commercially available insulation materials (heat-resistant to 100 °C or more, thickness of 12 mm 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 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.

A Flare cutting dimensions

Copper pipe O.D.	Flare dimensions		
(mm)	øA dimensions (mm)		
ø6.35	8.7 - 9.1		
ø9.52	12.8 - 13.2		
ø12.7	16.2 - 16.6		
ø15.88	19.3 - 19.7		
ø19.05	22.9 - 23.3		

® Refrigerant pipe sizes & Flare nut tightening torque

	R407C or R22			R410A				Flare nut O.D.		
	Liquid pipe Gas pipe		Liquid pipe		Gas pipe		Flare flut O.D.			
	Pipe size	Tightening	Dino oizo	Tightening	Pipe size	Tightening	Pipe size	Tightening	Liquid	Gas
	. 10	torque	Pipe size torque	torque	raue i ' i	torque	(mm)	torque	pipe	pipe
	(mm)	(N.m)	(mm)	(N.m)	(mm)	(N.m)		(N.m)	(mm)	(mm)
P20/25/32/40	ODø6.35 (1/4")	14 - 18	ODø12.7 (1/2")	49 - 61	ODø6.35 (1/4")	14 - 18	ODø12.7 (1/2")	49 - 61	17	26
P50	ODø9.52 (3/8")	34 - 42*	ODø15.88 (5/8")	68 - 82*	ODø6.35 (1/4")	34 - 42	ODø12.7 (1/2")	68 - 82	22	29
P63/80	ODø9.52 (3/8")	34 - 42	ODø15.88 (5/8")	68 - 82	ODø9.52 (3/8")	34 - 42	ODø15.88 (5/8")	68 - 82	22	29
P100/125	ODø9.52 (3/8")	34 - 42	ODø19.05 (3/4")	100 - 120*	ODø9.52 (3/8")	34 - 42	ODø15.88 (5/8")	100 - 120	22	36

^{*} Use the provided flare nut for the following pipes: Liquid pipe of P50, P100 P125, and gas pipe of P50.

© Apply refrigerating machine oil over the entire flare seat surface.

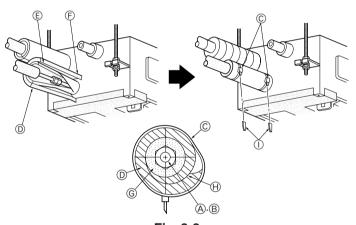


Fig. 3-3

0 (N)

- Installing procedures (Fig. 3-3)
- Remove the flare nuts and caps from the indoor unit.
- 2. Flare-cut the liquid and gas pipes then apply refrigerating machine oil (to be locally procured) over the flare-cut seat surface.
- 3. Quickly connect the refrigerant piping.
- * Remember to tighten the flare nuts with a double spanner.
- 4. Slide the supplied pipe cover ③ over the gas piping until it is pressed against the sheet metal inside the unit.
- Slide the provided pipe cover ③ over the liquid piping until it is pressed against the sheet metal inside the unit.
- Tighten the pipe cover ③ at the both ends (15 20 mm) with the supplied bands 4).
 - (A) Gas piping
- © Turn the seam upward.
- ® Liquid piping
- F Press the pipe cover against the sheet metal.
- © Band ④
- © Refrigerant piping heat insulating material
- D Pipe cover 3
- (H) Wrap tightly
- ① Cut off excess length of band.



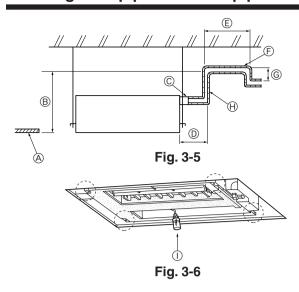
2 **(** (F) *_____* 0 (F)

Fig. 3-4

3.3. Drainage piping work (Fig. 3-4) • Use O. D. ø26 mm PVC TUBE for drain piping and provide 1/100 or more down-

- Be sure to connect the piping joints using adhesive of polyvinyl chloride family.
- Use attached drain hose to change the pipe extraction direction.
 - ① Correct piping
- (K) Air bleeder
- ② Wrong piping
- C Raised
- A Insulation (9 mm or more)
- M Odor trap N Make as little as possible
- ® Downward slope (1/100 or more)
- O Make as great as possible (approx. 10 cm)
- C Support metal Grouped piping
 - ① VP-20 (O. D. ø26 PVC TUBE)
- (E) Make it as large as possible
- ⊕ Downward slope (1/100 or more) ① O. D. ø38 PVC TUBE for grouped piping.
- (F) Indoor unit
- (9 mm or more insulation)
- (G) Make the piping size large for grouped pip-
- ① Up to 50 cm

3. Refrigerant pipe and drain pipe



In cases of upward drainage (Fig. 3-5)

ullet The largest dimension possible for the vertical section at ullet is 60 cm from the lower surface of the ceiling. Make this vertical section as short as possible.

Water drainage check (Fig. 3-6)

- 1. Fill the drainage pan with about 0.5 liters of water. (Don't pour water directly into the drain pump.)
- 2. Make a test run of the unit (in Cooling mode).
- Check for water drainage at the transparent check window and the outlet of the drainage pipe.
- 4. Stop the test run. (Don't forget to turn off the power.)
 - A Ceiling panel
- © Downward slope (1/100 or more)
- ® Max. 60 cm
- (G) Make as great as possible (Min. 10 cm)
- © Position of drain outlet
- (H) Drainage pipe vertical section
- ① Make as short as possible (Max. 15 cm) ② Make as small as possible

4. Electrical work

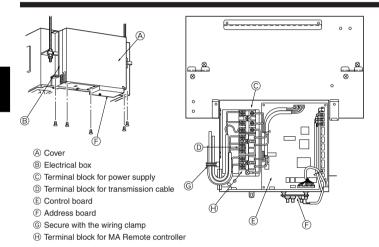


Fig. 4-1

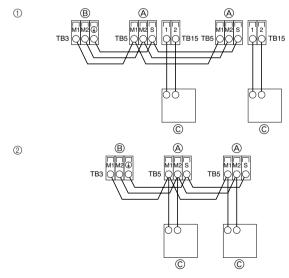


Fig. 4-2

4.1. Electric wiring (Fig. 4-1)

- * Make sure all electrical wiring is complete before installing the cover panel.
- 1. Remove the cover from the address board (two bolts).
- 2. Remove the cover from the electrical box (one bolt).
- 3. Remove the bolts securing the electrical box and lower the box (two bolts).
- 4. Insert the wires into the electrical box.
- 5. Connect the wires securely to the terminal block.
 - * Be sure to make the various wires long enough so the box may be lowered from the unit during servicing.
- 6. Secure the wires with the wiring clamp on the side of the electrical box.
- 7. Replace the parts you have removed to their original locations.

A means for the disconnection of the supply with an isolation switch, or similar device, in all active conductors shall be incorporated in the fixed wiring.

Power supply wiring

- Power supply codes of appliance shall not be lighter than design 245 IEC 53 or 227 IEC 53.
- A switch with at least 3 mm contact separation in each pole shall be provided by the air conditioner installation.

Power cable size: more than 1.5 mm²

• Install an earth longer and thicker than other cables.

4.2. Connecting remote controller, indoor and outdoor transmission cables (Fig. 4-2)

- Connect indoor unit TB5 and outdoor unit TB3. (Non-polarized 2-wire)
 The "S" on indoor unit TB5 is a shielding wire connection. For specifications about the connecting cables, refer to the outdoor unit installation manual.
- Install a remote controller following the manual supplied with the remote controller.
- Connect the remote controller's transmission cable within 10 m using a 0.75 mm² core cable. If the distance is more than 10 m, use a 1.25 mm² junction cable.

① MA Remote controller

- Connect the "1" and "2" on indoor unit TB15 to a MA remote controller. (Non-polarized 2-wire)
- DC 9 to 13 V between 1 and 2 (MA remote controller)
- ② M-NET Remote controller
- Connect the "M1" and "M2" on indoor unit TB5 to a M-NET remote controller. (Non-polarized 2-wire)
- DC 24 to 30 V between M1 and M2 (M-NET remote controller)
 - A Terminal block for indoor transmission cable
 - ® Terminal block for outdoor transmission cable
 - © Remote controller

4. Electrical work

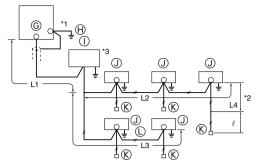


Fig. 4-3

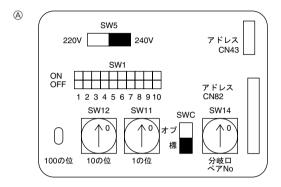


Fig. 4-4

Constraints on transmission cable (Fig. 4-3)

Longest wiring length (L1+L2+L4 or L1+L3 or L2+L3+L4): less than 200 m Length between indoor unit and remote controller (ℓ): within 10 m

- © Outdoor unit
- ⊕ Earth
- ① BC controller
- J Indoor unit
- **K** M-NET Remote controller
- Non-polarized 2-wire

Note:

- *1 Put the transmission cable earth via the outdoor unit's earth terminal \oplus to the ground.
- *2 If the remote controller cable exceeds 10 m, use a 1.25 mm² diameter cable over the exceeded portion, and add that exceeded portion to within 200 m.
- 3 The BC controller is required only for simultaneous cooling and heating series R2.

4.3. Setting addresses (Fig. 4-4)

(Be sure to operate with the main power turned OFF.)

 There are two types of rotary switch setting available: setting addresses 1 to 9 and over 10, and setting branch numbers.

Note:

Please set the switch SW5 according to the power supply voltage.

- . Set SW5 to 240 V side when the power supply is 230 and 240 volts.
- When the power supply is 220 volts, set SW5 to 220 V side.

Address board

4.4. Types of control cables

- 1. Wiring transmission cables: Shielding wire CVVS or CPEVS
- Cable diameter: More than 1.25 mm²
- 2. M-NET Remote control cables

Kind of remote control cable	Shielding wire MVVS
Cable diameter	More than 0.5 to 1.25 mm ²
Remarks	When 10 m is exceeded, use cable with the same specifications as transmission line wiring

3. MA Remote control cables

Kind of remote control cable	2-core cable (unshielded)
Cable diameter	0.3 to 1.25 mm ²

5. Installing the grille

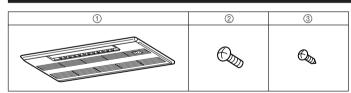


Fig. 5-1

5.1. Checking the contents (Fig. 5-1)

• This kit contains the following parts.

	Accessory name	Q'ty	Remark
1	Grille	1	
2	Screw	6	$M5 \times 0.8 \times 16$
(3)	Screw	1	4×16

- Points for securing the grille
- © Drainage pan
- B Points for securing the grille
- Places for securing front grille
- © Indoor unit
- © Make sure these surfaces are flush with each
- Ceiling surface
- G Make sure these other (0-3 mm).

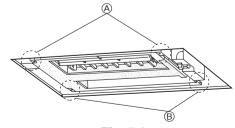


Fig. 5-2

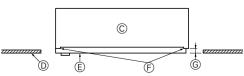
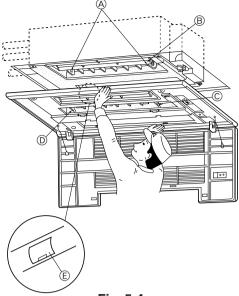


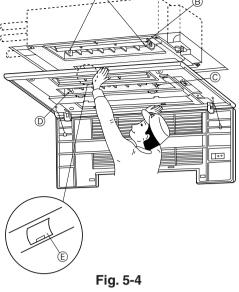
Fig. 5-3

5.2. Checks before setting in place (Fig. 5-2, 3)

- Before installing the front panel, make sure the indoor unit is square with the ceiling opening (or parallel to the angle between the wall and the ceiling).
- Check that the four points where the front panel will be secured are in contact with the ceiling surface.
- Check that the insulation for the refrigerant pipes, drainage pipes, etc. is in place and that wiring connections and arrangements are complete.

5. Installing the grille

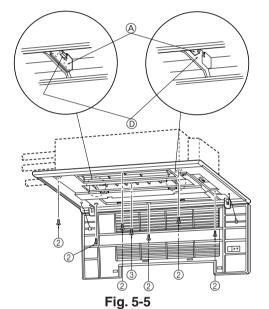






- Open the intake grille by pressing on the place marked Push, and remove the air
- Remove the screw cover in the middle of the blower.
- Open the upper and lower flaps on the indoor unit completely.
- Hook the temporary holding tabs on the front panel to the hooks on the indoor unit.

 - ® Open the upper and lower flaps completely
 - © Temporary holding tab
 - ① Temporary holding tab
 - © Screw cover



• Adjust the front panel so that it fits properly in the angle between the ceiling and the wall, and install the securing bolts ② (supplied with this grille) in their four places at left and right, leaving them slightly loose. (Fig. 5-5)

- Next tighten the securing bolts ② and securing screws ③ in the center three places.
- \bullet Finally tighten the securing bolts 2 in the four places at left and right.
- At this point, make sure there are no gaps between the indoor unit and the front panel, and between the front panel and the ceiling surface. If there are gaps, the wind may come in and it may cause water to drip (Fig. 5-6).
- * Tighten the securing bolts ② and securing screws ③ completely.
- Replace the air filter and screw cover, and press the intake grille on the place marked Push until you hear it snap into place.
 - A Hook
 - ① Temporary securing tabs

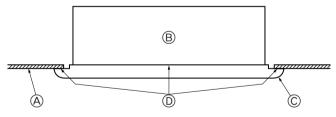


Fig. 5-6

5.4. Checks after installing

- · Check that there are no gaps between the indoor unit and the front panel, and between the front panel and the ceiling surface. If there are gaps, the wind may come in and condensation may result.
- Check that the air filter is in place.
 - A Ceiling surface
 - ® Indoor unit
 - © Grille
 - No gaps here

6. Test run (Fig. 6-1)

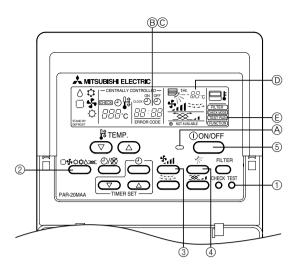


Fig. 6-1

- ① Press [TEST RUN] button twice \rightarrow displaying [TEST RUN] on the screen.
- ② Press [Selecting operation] button. → Check that wind is blowing out.
- ③ Press [Fan speed adjustment] button. → Check that the wind speed is changed.
- ④ Press [Up/down airflow selection] button to change wind direction.
- $\ensuremath{\texttt{\textcircled{5}}}$ Press [ON/OFF] button to clear test run. \rightarrow Test run stops.
 - A Lighting in operation
 - ® Displaying inspection code
 - $\ensuremath{\mathbb{C}}$ Displaying remaining test run time
 - Displaying indoor unit's liquid pipe temperature
 - © Displaying test run

Note:

- The 2-hour-set timer is activated to automatically stop test run after two hours.
- The remote controller displays the temperature of the indoor unit's liquid pipe on the temperature display section during test run.

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

EU regulations:

- The product at hand is Low Voltage Directive 73/23/ EEC
- based on the following Electromagnetic Compatibility Directive 89/ 336/ EEC

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.



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