

MITSUBISHI ELECTRIC CITY MULTI

Air-Conditioners For Building Application DECORATION PANEL



CMP-LW-F

**FOR INSTALLER
FÜR INSTALLATEURE
ДЛЯ УСТАНОВИТЕЛЯ
VOOR DE INSTALLATEUR
POUR L'INSTALLATEUR
安装人员用**

INSTALLATION MANUAL

For safe and correct use, please read this installation manual thoroughly before installing the decoration panel. This manual contains information about how to install the decoration panel for indoor unit. For information about how to install indoor or outdoor units, please read the indoor or outdoor unit installation manual.

INSTALLATIONSHANDBUCH

Vor Anbringung der Zierplatte dieses Installationshandbuch zum sicheren und ordnungsgemäßen Gebrauch gründlich durchlesen. Dieses Handbuch enthält Informationen darüber, wie die Zierplatte an der Innenanlage anzubringen ist. Informationen über das Aufstellen der Innen- und Außenanlagen können Sie im Aufstellungshandbuch der Innen- und Außenanlage nachlesen.

РУКОВОДСТВО ПО УСТАНОВКЕ

Для безопасной и правильной эксплуатации полностью прочтите настоящее руководство, прежде чем устанавливать декоративную панель. Это руководство содержит информацию о том, как устанавливать декоративную панель внутреннего и внешнего блока. Информация об установке внутреннего и внешнего блока приводится в руководстве по установке внутреннего и внешнего блока.

INSTALLATIEHANDLEIDING

Voor veilig en correct gebruik dient u deze installatiehandleiding nauwkeurig te lezen, voordat u het sierpaneel installeert. Deze handleiding bevat informatie over het installeren van het sierpaneel voor een airconditioner die binnenshuis geïnstalleerd wordt. Als u meer wilt weten over het installeren van binnen- of buitenapparaten, leest u dan de installatiehandleiding van het binnen- of buitenapparaat.

MANUEL D'INSTALLATION

Afin d'éviter tout accident et d'assurer une utilisation correcte de l'appareil, veuillez lire attentivement le présent manuel avant d'installer le panneau de finition.

Le présent manuel contient des informations concernant l'installation du panneau de finition pour l'appareil intérieur. Pour tout renseignement concernant l'installation des appareils intérieurs et extérieurs, veuillez lire leur manuel d'installation respectif.

安装手册

为了安全和正确地使用本空调器，请在安装装饰面板前仔细阅读本安装手册。

本手册内说明了如何安装室内机组的装饰面板。有关如何安装室内或室外机组的内容，请参阅室内或室外机组的安装手册。

ENGLISH

DEUTSCH

РУССКИЙ

NEDERLANDS

FRANÇAIS

中文

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1. Safety precautions

1.1. Before installation and electric work

- ▶ **Before installing the unit, make sure you read all the “Safety precautions”.**
- ▶ **The “Safety precautions” provide very important points regarding safety. Make sure you follow them.**

Symbols used in the text

Warning:

Describes precautions that should be observed to prevent danger of injury or death to the user.

Caution:

Describes precautions that should be observed to prevent damage to the unit.

Symbols used in the illustrations

-  : Indicates an action that must be avoided.
-  : Indicates that important instructions must be followed.
-  : Indicates a part which must be grounded.
-  : Indicates that caution should be taken with rotating parts. (This symbol is displayed on the main unit label.) <Color: Yellow>
-  : Indicates that the main switch must be turned off before servicing. (This symbol is displayed on the main unit label.) <Color: Blue>
-  : Beware of electric shock (This symbol is displayed on the main unit label.) <Color: Yellow>
-  : Beware of hot surface (This symbol is displayed on the main unit label.) <Color: Yellow>
-  **ELV** : Please pay attention to electric shock fully because this is not Safety Extra Low-Voltage (SELV) circuit. And at servicing, please shut down the power supply for both of Indoor Unit and Outdoor Unit.

Warning:

Carefully read the labels affixed to the main unit.

Warning:

- **Ask the dealer or an authorized technician to install the air conditioner.**
 - Improper installation by the user may result in water leakage, electric shock, or fire.
- **Install the air unit at a place that can withstand its weight.**
 - Inadequate strength may cause the unit to fall down, resulting in injuries.
- **Use the specified cables for wiring. Make the connections securely so that the outside force of the cable is not applied to the terminals.**
 - Inadequate connection and fastening may generate heat and cause a fire.
- **Always use an air cleaner, humidifier, electric heater, and other accessories specified by Mitsubishi Electric.**
 - Ask an authorized technician to install the accessories. Improper installation by the user may result in water leakage, electric shock, or fire.
- **Never repair the unit. If the air conditioner must be repaired, consult the dealer.**
 - If the unit is repaired improperly, water leakage, electric shock, or fire may result.
- **Do not touch the heat exchanger fins.**
 - Improper handling may result in injury.
- **Install the air conditioner according to this Installation Manual.**
 - If the unit is installed improperly, water leakage, electric shock, or fire may result.

- **Have all electric work done by a licensed electrician according to “Electric Facility Engineering Standard” and “Interior Wire Regulations” and the instructions given in this manual and always use a special circuit.**
 - If the power source capacity is inadequate or electric work is performed improperly, electric shock and fire may result.

1.2. Before getting installed

Caution:

- **Do not install the unit where combustible gas may leak.**
 - If the gas leaks and accumulates around the unit, an explosion may result.
- **Do not use the air conditioner where food, pets, plants, precision instruments, or artwork are kept.**
 - The quality of the food, etc. may deteriorate.
- **Do not use the air conditioner in special environments.**
 - Oil, steam, sulfuric smoke, etc. can significantly reduce the performance of the air conditioner or damage its parts.
- **When installing the unit in a hospital, communication station, or similar place, provide sufficient protection against noise.**
 - The inverter equipment, private power generator, high-frequency medical equipment, or radio communication equipment may cause the air conditioner to operate erroneously, or fail to operate. On the other hand, the air conditioner may affect such equipment by creating noise that disturbs medical treatment or image broadcasting.
- **Do not install the unit on a structure that may cause leakage.**
 - When the room humidity exceeds 80% or when the drain pipe is clogged, condensation may drip from the indoor unit. Perform collective drainage work together with the outdoor unit, as required.

1.3. Before getting installed (moved) - electrical work

Caution:

- **Install the power cable so that tension is not applied to the cable.**
 - Tension may cause the cable to break and generate heat and cause a fire.
- **Do not wash the air conditioner units.**
 - Washing them may cause an electric shock.
- **Be very careful about product transportation.**
 - Only one person should not carry the product if it weighs more than 20 kg.
 - Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.
 - Do not touch the heat exchanger fins. Doing so may cut your fingers.
- **Safely dispose of the packing materials.**
 - Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
 - Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.

1.4. Before starting the test run

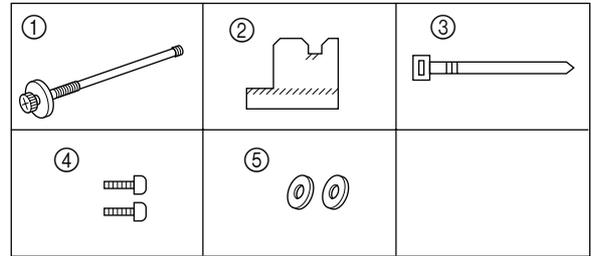
Caution:

- **Do not touch the switches with wet fingers.**
 - Touching a switch with wet fingers can cause electric shock.
- **Do not operate the air conditioner with the panels and guards removed.**
 - Rotating, hot, or high-voltage parts can cause injuries.
- **Do not turn off the power immediately after stopping operation.**
 - Always wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur.
- **Do not operate the air conditioner without the air filter set in place.**
 - Dust may accumulate, and cause a failure.

2. Checking accessory parts

2.1. Model names and type names

Model name	Type name
CMP-32LW-F	PLFY-20VLMD, PLY-P20VLMD, PLY-20NLMD
	PLFY-25VLMD, PLY-P25VLMD, PLY-25NLMD
	PLFY-32VLMD, PLY-P32VLMD, PLY-32NLMD
CMP-40LW-F	PLFY-40VLMD, PLY-P40VLMD, PLY-40NLMD
	PLFY-P50VLMD, PLY-50NLMD
CMP-63LW-F	PLFY-63VLMD, PLY-P63VLMD, PLY-63NLMD
	PLFY-P80VLMD, PLY-80NLMD
CMP-125LW-F	PLFY-100VLMD, PLY-P100VLMD, PLY-100NLMD
	PLFY-125VLMD, PLY-P125VLMD, PLY-125NLMD

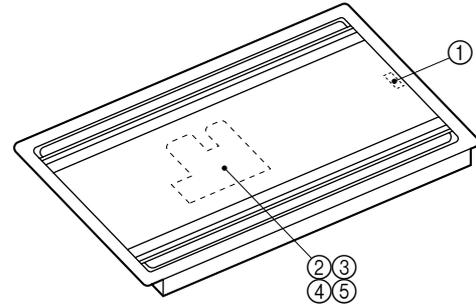


<Accessory part position>

2.2. Accessory parts with decoration panel

The following parts are attached to the decoration panel.
(However, ④ and ⑤ are only available with the CMP-63LW-F and CMP-125LW-F.)

Part No.	Part name	Qty
①	Panel securing screw	4
②	Panel gauge	1
③	Tie band	2
④	Accessory screw M5 × 50	2
⑤	Washer	2

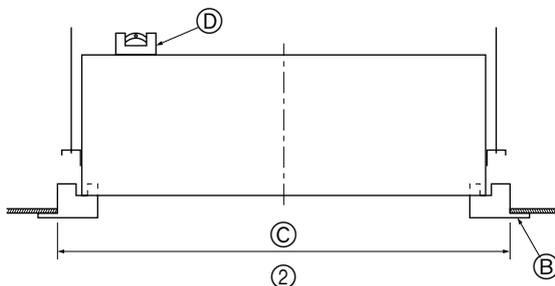
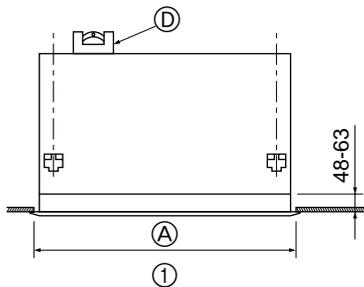


3. Preparation before getting decoration panel installed

Make sure that the indoor unit body has been hanged properly before getting the decoration panel installed.

As shown in ① and ②, install the unit body so that the bottom of the unit body is recessed 48 mm to 63 mm from the ceiling surface. This is normal installation.

Use the accessory panel gauge to make adjustments and checks as shown in the figure below if necessary.



(Unit: mm)

- Ⓐ Opening size
- Ⓑ Panel gauge
- Ⓒ Ceiling opening size
- Ⓓ Check the level of the unit body using a level.

Note:

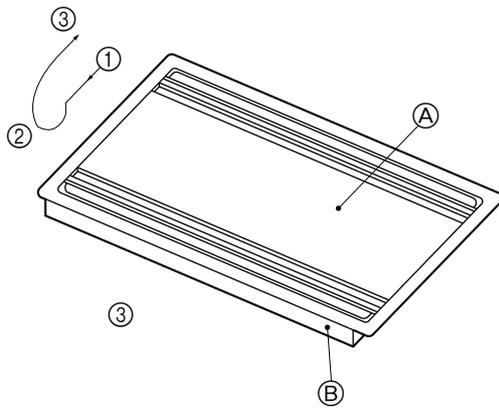
If the ceiling surface does not match with the position of the unit body, it may cause a risk of wind leakage, dew drop or panel deflection.

(The panel gauge was set up so that the unit body can be set in a standard position.)

- Make sure that the ceiling opening size for each type is as follows:
 Type 20 · 25 · 32: 630 mm × 1020 mm
 Type 40 · 50: 630 mm × 1260 mm
 Type 63 · 80: 630 mm × 1610 mm
 Type 100 · 125: 630 mm × 1960 mm

Removing center panel

- Remove the center panel.



- Ⓐ Center panel
- Ⓑ Panel body

- Move the center panel in order of ① → ② → ③.

(There is the cushioning material between the panel body and the center panel. Push the center panel against the panel body to release the cushioning material for removal.)

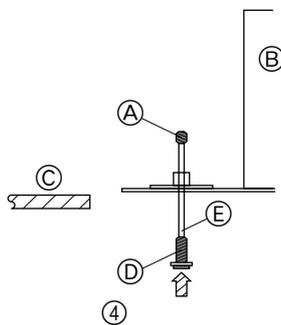
- The center panel has a chain for protecting against a fall. Remove the hook from the center panel.

Note:

See the figures on center panel installation page 7.

4. Installing decoration panel

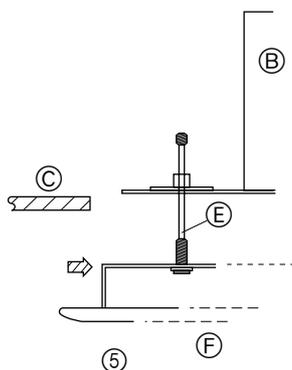
- Before installing the decoration panel, temporarily attach the accessory panel securing screws to the indoor unit body. (Screw the 1st-stage screw section of the through-panel attaching screw until it gets through the nut of the unit body.)



- Ⓐ 1st-stage screw
- Ⓑ Body (indoor unit)
- Ⓒ Ceiling surface
- Ⓓ 2nd-stage screw
- Ⓔ Panel set screw

- In turn, attach the decoration panel. However, at this moment, you should pay attention to a direction so that the connector section of the auto-vane is oriented on the piping side.

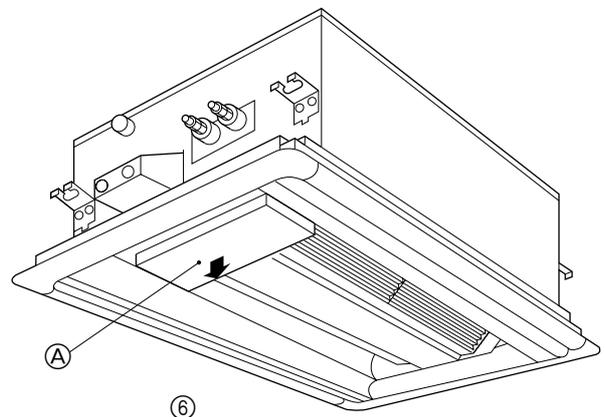
After orienting the direction, hook the notch of the panel body's blow-hole section at the panel securing screw (⑤). First hook two screws on the side opposite to piping, then the piping side. (It is a good practice to hook by pushing the panel securing screw against inside for easy work.) The panel body should temporarily be installed in this condition. However, if you lift or shake the panel strongly, it may be removed. Avoid doing so.



- Ⓕ Panel

Wiring the auto-vane

- When removing the connector cover (screwed at two places) as shown in ⑥, the electrical box is exposed. Find the vane motor connector.

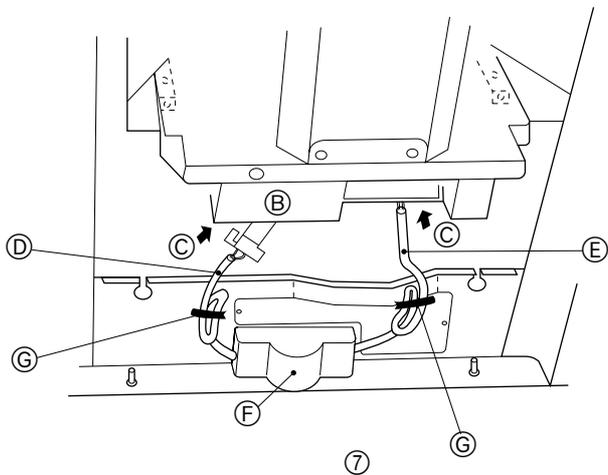


- Ⓐ Connector cover

Connect the two connectors (for vane motor drive and limit switch) leading from the panel to each connector supplied with the electrical box.

Notes:

- Be careful not to pinch the wire between the unit body and panel.
- Never rotate the vane with external force or impart excessive force to it. Otherwise it may be broken.

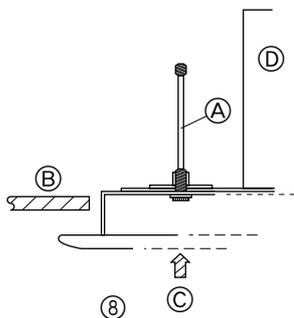


<Viewed from bottom of the indoor unit>

- Ⓑ Electrical box
- Ⓒ Plug
- Ⓓ Vane motor driving wire
- Ⓔ Limit switch wire
- Ⓕ Vane motor cover
- Ⓖ Tie band

Fixing decoration panel

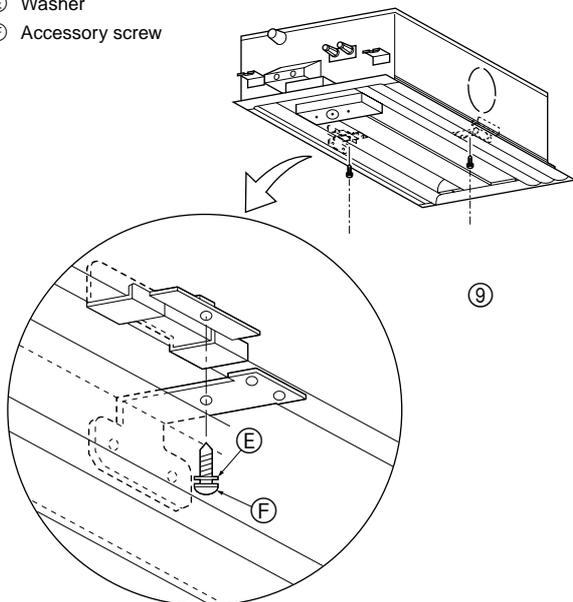
- Lift the panel, and tighten it using the 2nd-stage panel securing screw until it hits the ceiling surface (Ⓒ).



- Ⓐ Panel set screw
- Ⓑ Ceiling surface
- Ⓒ Panel
- Ⓓ Body (indoor unit)

After attaching the decoration panel to the indoor unit of the CMP-63LW-F or the CMP-125LW-F, adjust the space between the panel and ceiling surface by installing the washer and accessory screw as shown below.

- Ⓔ Washer
- Ⓖ Accessory screw



Decoration panel installation procedure:

1. Temporarily attach the decoration panel to the indoor unit body using the four panel set screws at Ⓐ.

Note:

Do not firmly tighten the screws.

2. Alternating between the two accessory screws Ⓑ in the center of the decoration panel, temporarily tighten them, making sure that they are uniformly tightened.

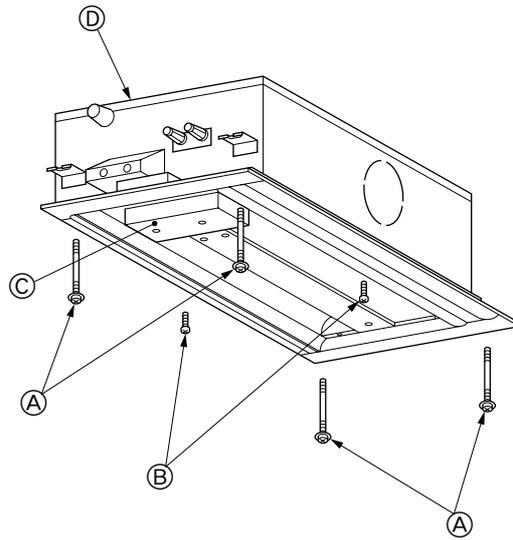
Note:

Do not firmly tighten the screws.

3. Firmly tighten the four panel set screws at Ⓐ and the two accessory screws at Ⓑ uniformly.

Note:

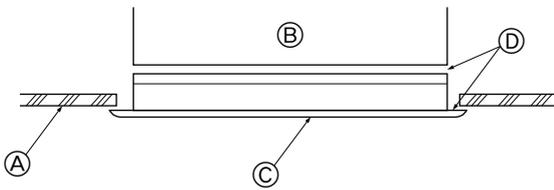
Be sure to install the decoration panel correctly and temporarily tighten it as described below, otherwise the decoration panel may be bent.



- Ⓐ Panel set screws
- Ⓑ Accessory screws
- Ⓒ Decoration panel
- Ⓓ Indoor unit body

Notes:

- It is necessary to tighten all of the four screws evenly so that there is no gap between the unit body and panel and also between the decoration panel and ceiling surface.
- If there is any gap between the indoor unit body and decoration panel, it may cause a risk of dew drop or drip due to wind leakage. If there is also any gap between the decoration panel and ceiling surface, it may cause a risk of dew condensation on the panel, smudging the ceiling surface.



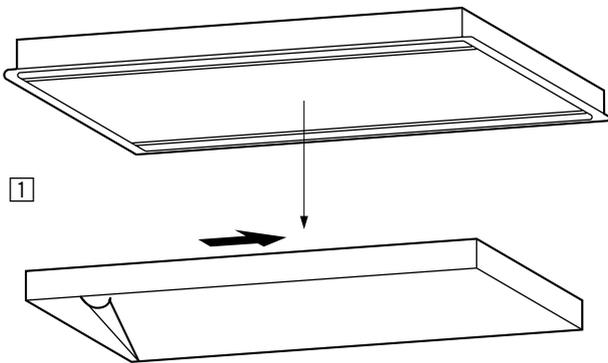
- Ⓐ Ceiling surface
- Ⓑ Body (indoor unit)
- Ⓒ Decoration panel
- Ⓓ **Must be no gap**

Note:
If you cannot install the panel easily as it should be, check the condition in which the indoor unit body has been hanged, again.

5. Attaching center panel

1 Before getting the center panel attached

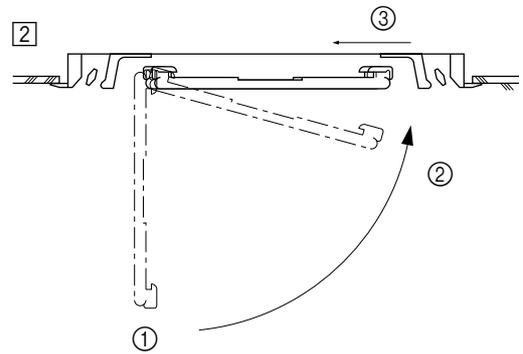
The center panel is covered with a protective sheet in order to protect against "damage". When peeling off the protective sheet, as shown in 1, first peel off it from the edge of the center panel using a cutter knife or the like, and then peel off it in an arrow direction with your hand.



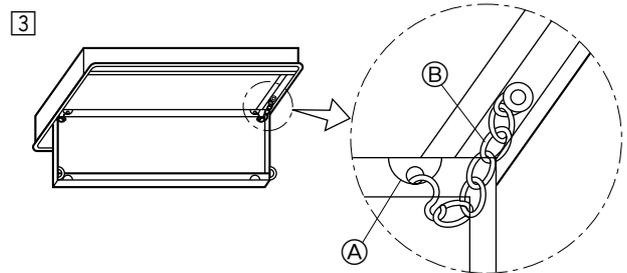
Note:
Be careful when using a cutter knife or the like so that it gives no damage to the design surface.

2 Attaching the center panel

Hook the center panel, and attach it moving in order of ① → ② → ③.



Note:
In order to protect against accidents, be sure to hook the fall protective chain at the holes on both sides of the panel as shown in 3.



- Ⓐ Chain hooking hole (on panel side)
- Ⓑ Chain

6. Checking auto-vane operation

- For how to check the auto-vane operation, consult the "Test run" section in the indoor unit installation manual.

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

The product at hand is based on the following EU regulations:

- The equipment Safety Law (GSG) accepted by RW-TÜV.
- Low Voltage Directive 73/23/EEC
- Electromagnetic Compatibility Directive 89/336/EEC
- Machinery Directive 89/392/EEC

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

 **MITSUBISHI ELECTRIC CORPORATION**

HEAD OFFICE MITSUBISHI DENKI BLDG MARUNOUCHI TOKYO 100-8310 TELEX J24532 CABLE MELCO TOKYO