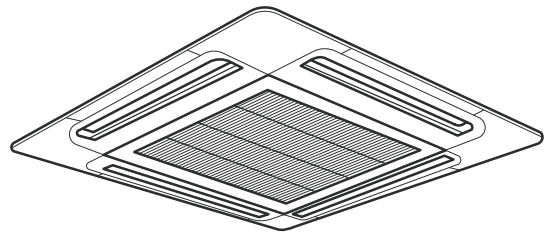


# Dial®

## Installation Manual

### For Cassette Panel

Model: CASS-PNL-18-24-36



#### **IMPORTANT:**

*READ AND UNDERSTAND  
THIS MANUAL BEFORE  
USING THIS AIR PANEL.  
KEEP THIS MANUAL FOR  
FUTURE REFERENCE.*

### **PREFACE**

- Do not install the unit in the following places. It causes failure of the unit in many cases.
  - \* Places where oil (including machinery oil) mist and steam drifts.
  - \* Places where a lots of sulfide gas drifts such as in hot spring.
  - \* Places where inflammable gas may generate or flow.
  - \* Places where air contains high salt contents as coast regions.
  - \* Places where with atmosphere of acidity or alkalinity.
- In case of using equipment generating electromagnetic waves, pay a particular attention to unit malfunction. The unit should be placed away from the electrical box and equipment to avoid any radiation transmitting in the air.
- Do not install the unit in a place where the air flow directly to animals or plants. It could be the cause of adverse affect to animals or plants.

### **IMPORTANT NOTICE**

The standard utilization of this air panel is explained in these instructions.

Improper operation, or operation not made in accordance with these instructions, can result in unsatisfactory performance and/or dangerous conditions. In such cases, the warranty does not apply.

- Our liability shall not cover defects arising from any alteration performed by a customer.
- All information in this manual is based on the latest product information available at the time of approval for printing. We reserves the right to make changes at any time without notice and without incurring any obligation.
- No part of this manual may be reproduced without written permission.
- Signal words (CAUTION and NOTE) are used to identify levels of hazard seriousness. Definitions for identifying hazard levels are provided below with their respective signal words.

#### **CAUTION**

: Hazards or unsafe practices which COULD result in minor personal injury or product or property damage.

#### **NOTE**

: Useful information for operation and/or maintenance.

This manual should be considered as a permanent part of the air conditioning equipment and should remain with the air conditioning equipment.

### **DFC817H-BGD97H-CB**

- Check the model number and accessories to determine if they are correct.

## 1.Before Installation

### **CAUTION**

When the air panel is unpacked, place it on insulation material etc. to protect sealing insulation from scratches.

#### Factory-Supplied Accessories

Check to ensure that the following accessories are packed with the air panel.

For cassette (cooling capacity  $\leq 18000\text{Btu/h}$ ) supporting panels:

Name	Q'ty	Purpose
Long Screw (M5×25)	4	For Fixing Panel

For cassette (cooling capacity  $> 18000\text{Btu/h}$ ) supporting panels:

Name	Q'ty	Purpose
Long Screw (M6×50)	4	For Fixing Panel

If any of these accessories are not packed in the packing, please contact your contractor.

## 2. Installation

### 2.1 Location of Suspension Bracket

Check to ensure that the suspension brackets of the indoor unit are located approximately 195mm (cooling capacity  $\leq 18000\text{Btu/h}$ )/102mm (cooling capacity  $> 18000\text{Btu/h}$ ) higher than the false ceiling. Refer to the indoor unit manual for details.

### 2.2 Removing Air Intake Grille from Air Panel

#### Step 1

Open the air intake grille to an angle of approximately  $45^\circ$  from the surface of the air panel as shown in Fig.2.1.

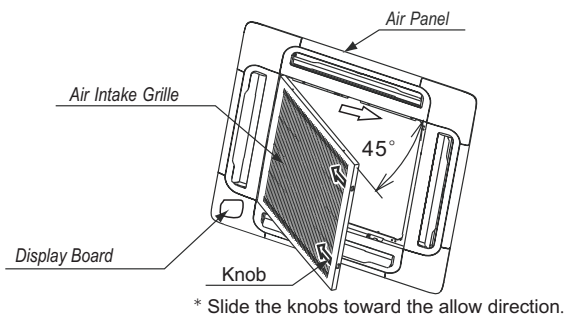


Fig. 2.1 Removing Method of Air Intake Grille

### NOTE

- \* Do not touch the air louver during installation work.
- \* Do not try to remove the grille while it is at an angle of  $90^\circ$  from the surface of the air panel.

#### Step 2

Lift the grille keeping it inclined, and remove it.

## 2.3 Installing Air Panel

### 2.3.1 For cassette (cooling capacity $\leq 18000\text{Btu/h}$ ) supporting panels

#### Step 1

Set the display board of the panel to the corner of the electric control board portion of the indoor unit.

*Note: Avoid the connection line of the panel and connection line of the indoor unit sandwiched between indoor and panel.*

#### Step 2

Mount the air panel onto the air panel fixing position by using the factory-supplied fixing screws (M5×25 screws).

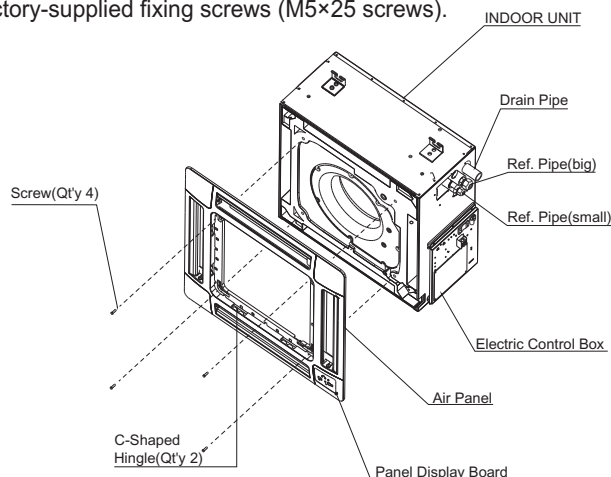
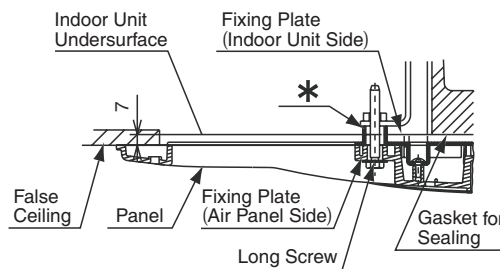


Fig. 2.2 Installation

#### Step 3

Check to ensure that there is no gap around the contacting surface between the indoor unit and the air panel. Any gap may cause air leakage or dewing.



\*: Fix screw until this end touches it.

Fig. 2.3 Cross Section of Air Panel

## 2.3.2 For cassette (cooling capacity > 18000Btu/h) supporting panels

### Step 1

Remove the corner pocket cover as shown below (4 portions). Pull the fixing hook towards the arrow mark according to the order "①", "②" and "③".

The corner pocket cover can be lifted.

After lifting, move it in "④" direction, disconnect the L-shaped hook and dismantle the corner pocket cover.

Confirm the L-shaped hook comes off securely before removing the corner pocket cover.

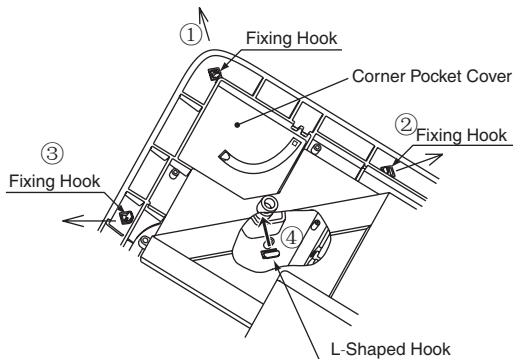


Fig.2.4 Removing Corner Pocket Cover

### Step 2

Pull down the U-shaped hook (at 2 positions) located at the indoor unit side.

### Step 3

Set the corner of the refrigerant connection portion of the indoor unit to the position indicated as "Ref. Piping", and catch the C-shaped hinge (2 positions) onto the U-shaped hooks (2 positions).

### Step 4

Mount the air panel onto the air panel fixing position by using the factory-supplied fixing screws (M6 long screws).

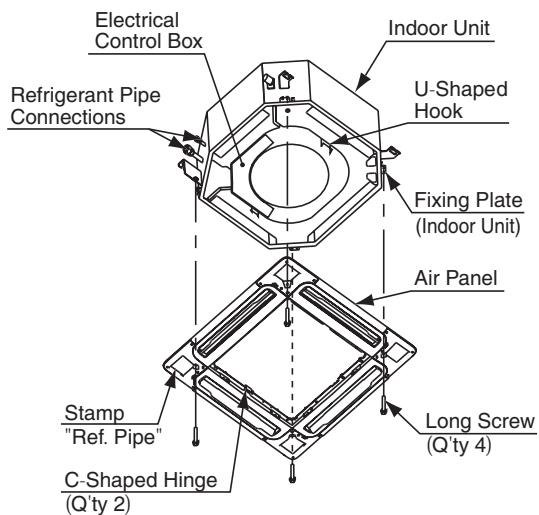


Fig.2.5 Installation

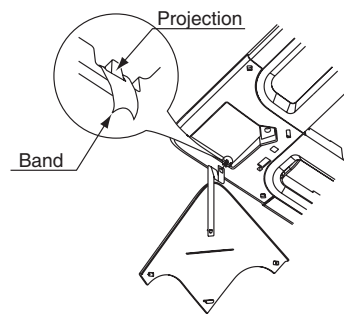
### Step 5

Check to ensure that there is no gap around the contacting surface between the indoor unit and the air panel. Any gap may cause air leakage or dewing (see fig.2.3).

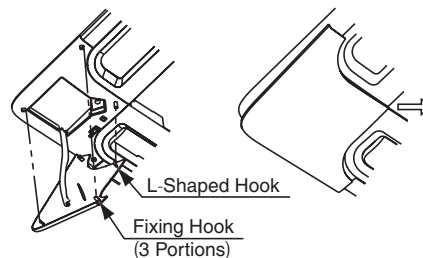
### Step 6

Attach the corner pocket covers after mounting air panel. (Panels with display board should connect line with panel and electric box first.)

1) Catch the band at the rear side of the cover for the corner pockets onto the projection of the panel as shown below.



2) Catch the L-shaped hook located at the rear side of the cover for the corner pockets onto the square hole of the air panel.



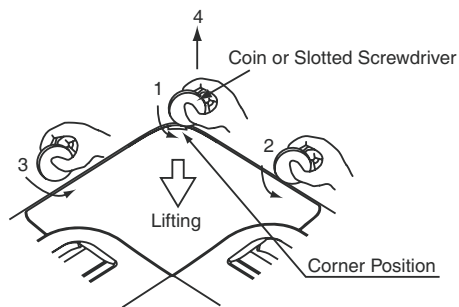
## NOTE

To remove the corner pocket cover;

1) "1" the corner position of the corner pocket cover can be lifted by inserting coin or slotted screwdriver and twisting. With keeping this state, repeat the same procedure at the position "2" and "3". The whole corner pocket cover can be lifted.

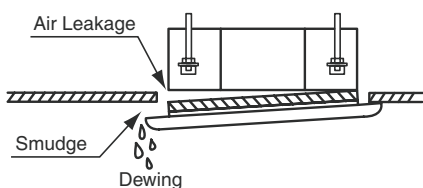
After disconnecting the fixing hook (3 positions), disconnect the L-shaped hook and remove the corner pocket cover. Confirm the L-shaped hook comes off securely before removing the corner pocket cover.

2) Slide the corner pocket cover in the allowed direction.

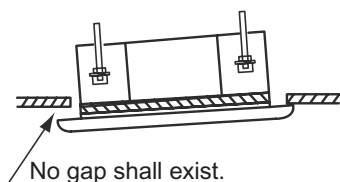


## CAUTION

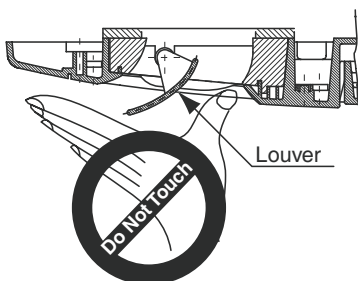
- If the long screws are tightened insufficiently, it may cause of the failure.



- When there is still the gap even after tightening the long screws firmly enough, readjust the height of the indoor unit.



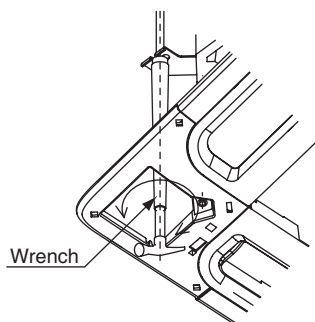
- Do not turn the air louver by hand.  
If moved, the louver mechanism would be damaged.



## NOTE

\*For cassette ( cooling capacity > 18000Btu/h ) supporting panels:

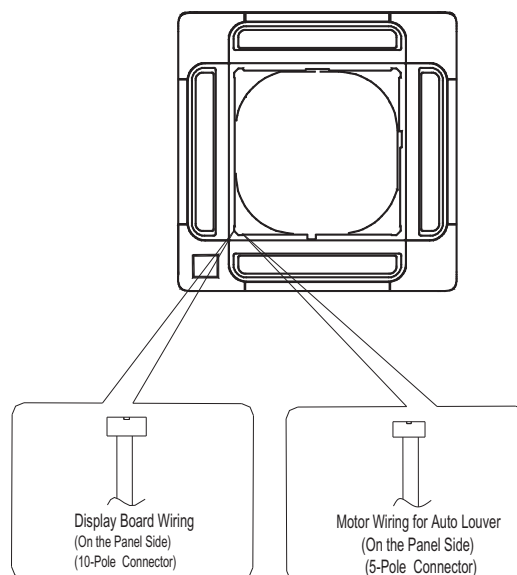
- The indoor unit height can be adjustable by using the wrench from the corner pocket.



\*Significant height adjustment will cause of dewing from the drain pan .

## 2.4 Wiring Connection for Air Panel

The wiring connector is located at the panel as shown in the figure.



Pull out the wiring connector, and then connect it with the wiring connector on the unit.

The wiring connect with control board please refer to INDOOR WIRING DIAGRAM .

## CAUTION

- Before electrical wiring work, turn OFF the power source.  
If the connectors are connected without turning OFF the power source, the auto-swing louver can not activate.
- After completing the wiring connection of the panel , fix the motor wiring for the auto louver with the fixing hooks firmly.  
Then attach the air intake grille in the reverse procedure for installation .
- Protect the wires or etc. from rats or other animals.  
If not protected, rats may gnaw at unprotected parts and at the worst, a fire will occur.

## 3. Test Run

After indoor and outdoor runs, check the swing louvers. Please press "swing" button when operate louvers by using remote controller, details see remote controller manual. Never move the swing louver by hand.