

Installation Manual for Filter Box (for 4-Way Cassette Type)

Model	B-160H3
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NOTE:

The applicable indoor unit may be different depending on the product series.
Refer to the product catalog for applicable indoor unit models.

IMPORTANT NOTICE:

- Johnson Controls pursues a policy of continuous improvement in design and performance of products. We reserve the right to vary specifications without notice.
- No part of this manual may be reproduced without Johnson Controls' written permission.
- Keep this manual for future reference.
- Johnson Controls cannot anticipate every possible circumstance that might involve a potential hazard.
- This kit is designed for a combination of Johnson Control air conditioners. Do not use this kit by itself or in combination with other companies' air conditioners.
- Perform a test run after installation to check for abnormalities.
- Signal words are used to identify levels of hazard seriousness. Definitions for identifying hazard levels are provided below with their respective signal words.

▲ DANGER

: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

▲ WARNING

: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

▲ CAUTION

: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE

: Indicates information considered important, but not hazard-related (e.g. messages relating to property damage).

NOTE

: Indicates an useful information for operation and/or maintenance.

- It is assumed that this kit will be installed and serviced by English speaking people. If this is not the case, the customer should add safety, caution and operating signs in the native language.
- If you have any questions, contact your distributor or contractor.
- This manual gives a common description and information for this filter box, as well as for other models, which you may operate.
- This manual should be considered as a permanent part of the air conditioning equipment and should remain with the air conditioning equipment. Forward this information to the building owner and request that they maintain all the equipment manuals.
- Do not use this kit under the following conditions:
 - * Where there is oil vapor and the oil is dispersed (such as machine shops or kitchens).
 - * Where there is generation, flowing or remnants of flammable gas and corrosive gas may occur.

▲ WARNING

- Turn OFF the power source before the installation work. Not doing so may cause a fire or an electric shock.
- The installation work should be performed according to this installation manual.
If the installation is not completed correctly, air leakage may cause condensation. If the filter box or decorative panel falls, the result may be an injury.

▲ CAUTION

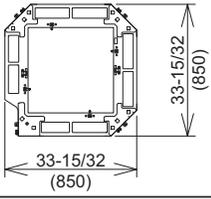
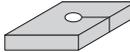
Do not push or pull the filter box. If excessive force is applied to the filter box, it may be deformed and the filters can not be attached.

< Transportation and Handling >

1. Transport the filter box with packing as it is to the installation location.
2. Do not put any materials on the filter box.
3. Do not stand the filter box after unpacking. It may be damaged. Place it on a flat surface.

1. Factory-Supplied Accessories

Unit: inch (mm)

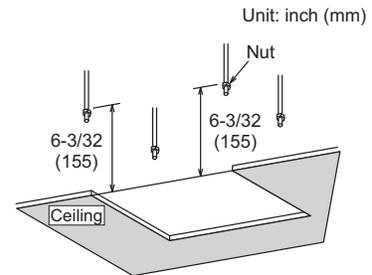
No.	Accessory	Qty.
①	Filter Box 	1
②	Insulation 	1

2. Installing Indoor Unit

- Provide a distance as shown in the figure at the right.
- Install the indoor unit by referring to the "Installation Manual" for the indoor unit.

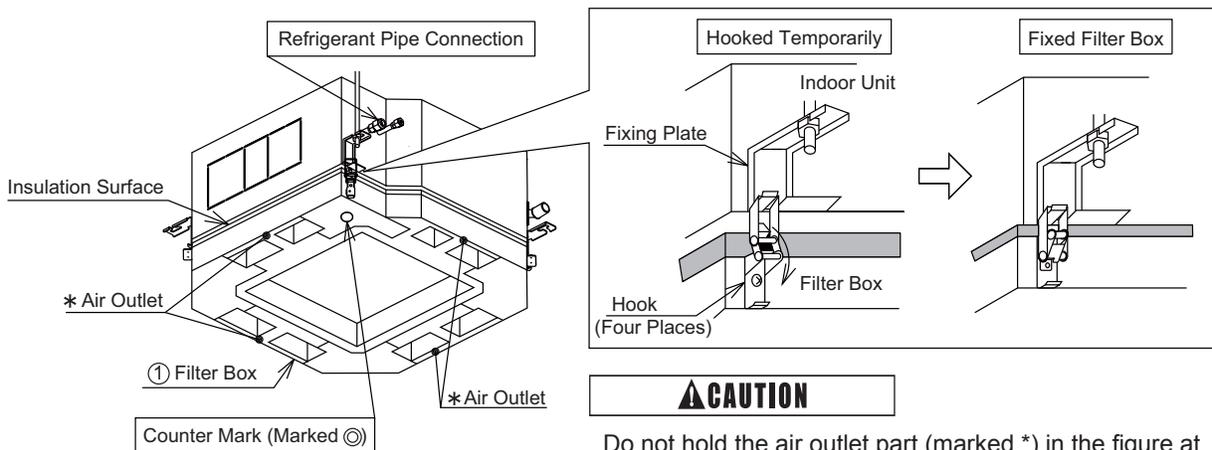
CAUTION

When installing the indoor unit, check to ensure that the filter box (①) is not damaged. Any damage can cause air leakage or condensation.



3. Installing Filter Box (①) to Indoor Unit

- Fit the corner position of the refrigerant pipe connection at the indoor unit and the position stamped with the counter mark (marked ◎) at the filter box.
- After temporarily hooking the hooks in four places at the filter box and the fixing plate of the indoor unit, secure the filter box by pulling down each hook as shown in the figure below.

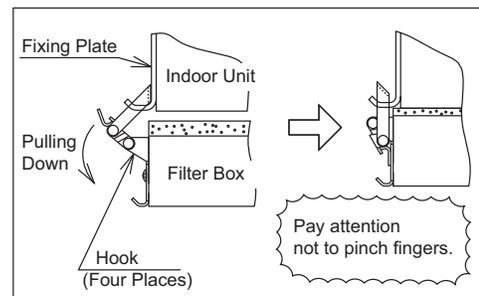


CAUTION

Do not hold the air outlet part (marked *) in the figure at the left when attaching the filter box. If held, deformation may occur.

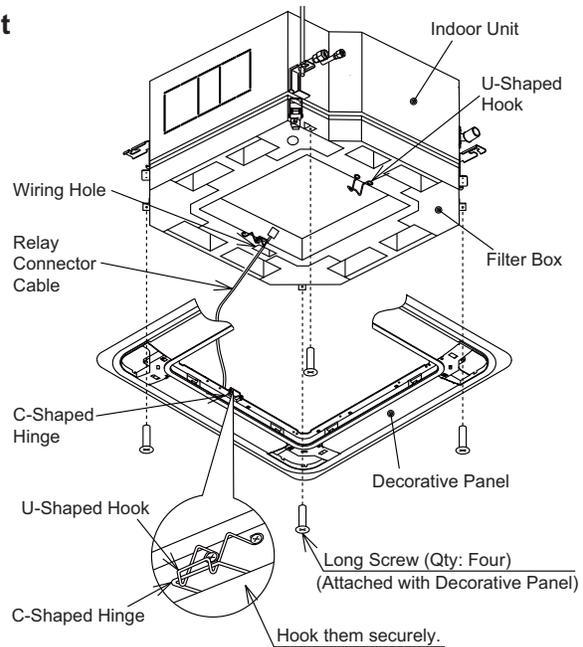
CAUTION

- Check the attaching direction of the filter box (①) of the indoor unit. If the direction is wrong, it may cause the indoor unit to fall and break, or cause air leakage and condensation.
- When pulling down hooks, the upper part of a hook may come down swiftly. Pay attention not to pinch fingers.
- When removing the filter box from the indoor unit after pulling down the hooks, refer to the "Removing Hook" diagram below.



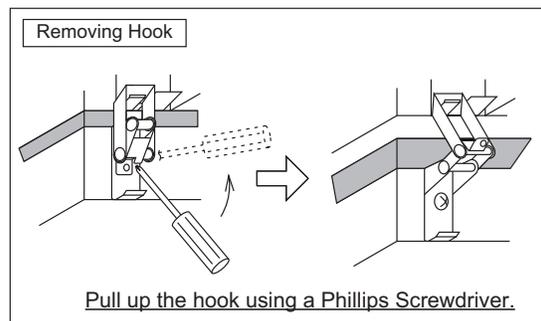
4. Installing Decorative Panel on Indoor Unit

- 1 Check to ensure that the corner position of the refrigerant pipe connection of the indoor unit and the position stamped as “Ref. Pipe 冷媒配管” of the decorative panel are the same.
- 2 Remove the filament tape securing the connector cable for relay and lift the decorative panel. Temporarily hook the decorative panel to catch the C-shaped hinges onto the U-shaped hooks.
- 3 Run the decorative panel wiring from the bottom side through the long hole at the filter box.
- 4 Secure the decorative panel to the indoor unit with long screws (accessory for the decorative panel, Qty. four). Tighten the long screws until touching the stopper to the fixing plate. (Refer to the “Installation Manual” for the decorative panel for installation details.)



CAUTION

- Temporarily secure hooks before installing the decorative panel to the filter box. If the decorative panel is not hooked temporarily, it may fall.
- Be aware that air leakage or condensation may occur if there is gap between the air outlet and the filter box.
- Tighten long screws according to the specified torque when installing the decorative panel to the indoor unit.
- Use a Phillips screwdriver or a wrench (3/8 inch (10mm)) to tighten long screws.



5. Electrical Wiring Connection

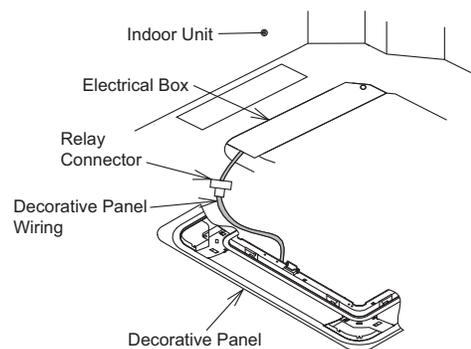
CAUTION

- Perform correctly the electrical wiring connection. If not completed correctly, heat generation at the connection, a fire or an electric shock may occur.
- Make sure that the wires are securely fixed in order not to apply an external force to the terminal connections of the wirings. If fixing is not completed correctly, heat generation or a fire will occur.

- (1) Check to ensure that the power source is turned OFF.
- (2) Connect the decorative panel wiring running it through the long hole at the filter box to the relay connector for the decorative panel. Fix the extra length of the decorative panel wiring using the plastic band (field-supplied). The connection position should be referred to the “Installation Manual” for the decorative panel.

CAUTION

- Before connecting the decorative panel wiring with the relay connector for the decorative panel, turn OFF the power source. If the wirings are connected without turning OFF the power source, the unit can not activate normally.
- Be careful when handling the electrical wiring. If the electrical wiring is caught in the indoor fan and disconnected, it may cause damage to the air conditioner.

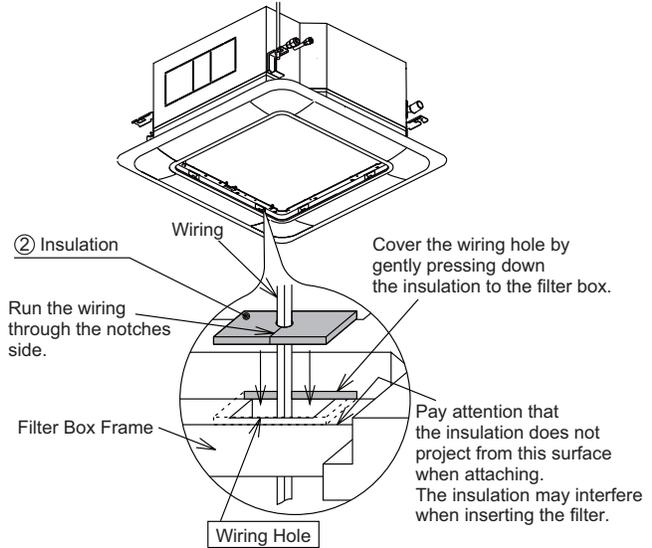


6. Installing Insulation

- (1) Run the wiring through the notch side of the insulation (②).
- (2) Remove the paper from the adhesive surface of the insulation (②). Then, attach the insulation by gently pressing it down to the filter box.

CAUTION

- Attach the insulation so as to cover the gap of the wiring hole. If there is a gap, it may cause air leakage from the wiring hole.
- Do not apply excessive force to the filter box when running the wiring connector through the wiring hole and attaching the insulation. It may become deformed and damaged.



7. Attaching Long Life Air Filter (Other Option)

- (1) Remove the air inlet grille according to "Removing Air Inlet Grille" in the figure on the right.
- (2) Insert the filter into the filter box while paying attention to the air flow direction of the filter. When inserting, the filter flange touches the air inlet frame at the decorative panel. Insert the filter keeping it inclined according to procedures ① to ③ at the right.
- (3) Secure the filter by pushing the filter flange to the filter box frame and rotating the four filter holders 90°.
- (4) Attach the air inlet grille using reverse procedures when removing. (Close the air inlet grille after checking whether the air inlet grille and the decorative panel are tightly secured.)

