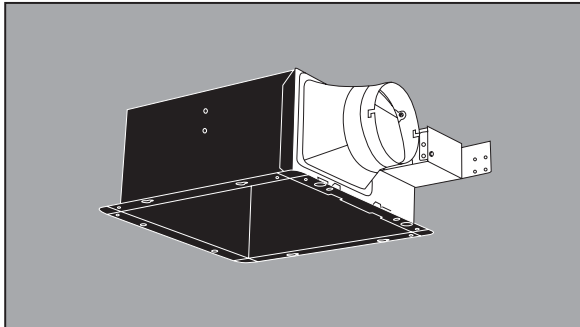


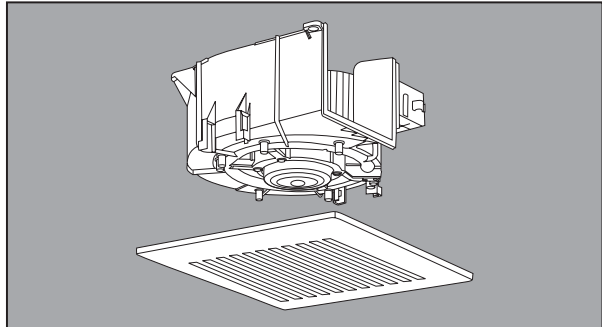
# SUPPLEMENTARY INSTALLATION INSTRUCTIONS

(For Contractor Pack)

**Housing Can**  
FV-05-11VFA



**Motor/Grille Assembly**  
FV-05VFB, FV-07VFB, FV-09VFB, FV-11VFB



**Applicable to Models: FV-05VF1, FV-07VF1, FV-09VF1, FV-11VF1**

## Panasonic

### READ AND SAVE THESE INSTRUCTIONS.

Please read these instructions carefully before attempting to install, operate or service the Panasonic Ventilating Fan. Failure to comply with instructions could result in personal injury and/or property damage. Please retain this booklet for future reference.

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## GENERAL SAFETY INFORMATION

1. Do not install this ventilation fan where air temperature may exceed 40°C (104°F).
2. Make sure that the electric service supply voltage is 120V, 60 Hz.
3. Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupation Safety and Health Act (OSHA).
4. Always disconnect the power source before working on or near the fan, motor or junction box.
5. Protect the power cord from sharp edges, oil, grease, hot surfaces, chemicals or other objects.
6. Do not kink the power cord.
7. Do not install the unit where ducts are configured as shown in Fig. A.
8. Provide suction parts with proper ventilation.
9. This unit is UL listed for use over a bathtub or shower when installed in a GFCI protected branch circuit.



Fig. A

### CAUTION:

1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. Not for use in cooking area. (Fig .B)
3. This product must be properly grounded.

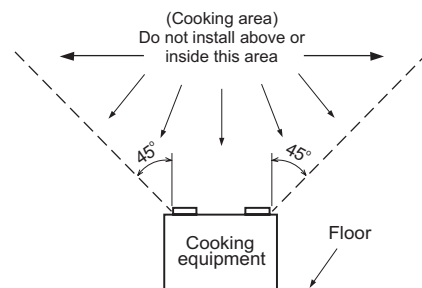


Fig. B

### WARNING:

#### To reduce the risk of fire, electric shock or injury to persons, observe the following:

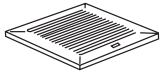
- A. Use this unit only in the manner intended by the manufacturer. If you have any questions, please contact the manufacturer.
- B. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- C. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating Refrigeration and Air Conditioning Engineers (ASHRAE) and the local code authorities.
- D. The Housing Can FV-05-11VFA must be installed with Motor/Grille Assembly FV-05/07/09/11VFB only.
- E. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- F. Ducted fans must always be vented to the outdoors.
- G. These models are UL listed for tub and shower enclosures.
- H. Solid state controls may cause harmonic distortion which can cause motor humming noise. To reduce the risk of fire or electric shock, do not use this unit with any solid-state control device.
- I. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- J. NEVER place a switch where it can be reached from a tub or shower.
- K. Not to be installed in a ceiling thermally insulated to a value greater than R40. (This is required for installation in Canada only.)

## UNPACKING




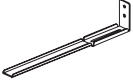




Unpack and carefully remove unit from carton.  
Refer to the following Supplied Accessories list to verify that all parts are present.

## SUPPLIED ACCESSORIES (4 SETS)

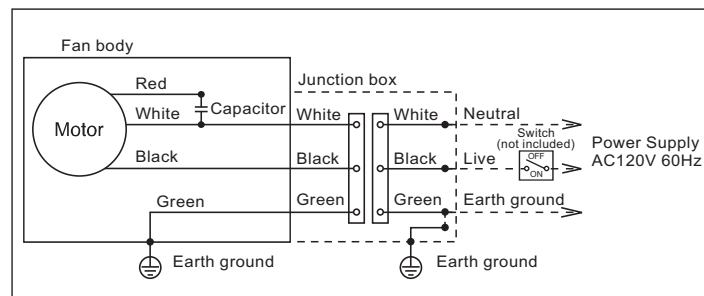
(A) For Motor/Grille Assembly of model: FV-05/07/09/11VFB

Part name	Appearance	Quantity
Grille		4

(B) For Housing Can of model: FV-05-11VFA

Part name	Appearance	Quantity
Long screw (ST4.2X20)		32
Thumb screw		8
Suspension bracket I		4
Suspension bracket II		4
Screw (ST4.2X6)		16
Suspension bracket III		4
Clamp Plate		8
3 inch adaptor connector (optional part)		4

## WIRING DIAGRAM



# INSTALLATION I (JOIST MOUNTING)

1. Remove the tape from damper and adaptor before installation. (Fig. 1)
2. Remove adaptor from body and secure adaptor to ceiling joists using long screws. (Fig. 2) Keep the distance B (21.6mm, 7/8 inch) for the thickness of ceiling board.

**CAUTION:**

Joist spacing A should be between 14 31/32 inch (380mm) and 10 7/16 inch (265mm).

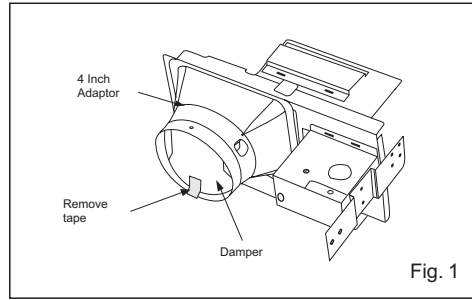


Fig. 1

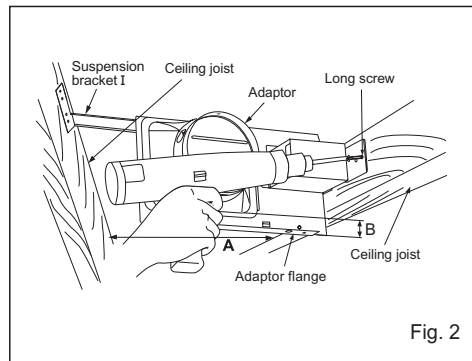


Fig. 2

3. Remove junction box cover and secure conduit to junction box knock-out hole. (Fig. 3). Using wire nuts, connect house power wires to ventilating fan wires: black to black; white to white; green to green. Replace the junction box cover.

**Wiring diagram**

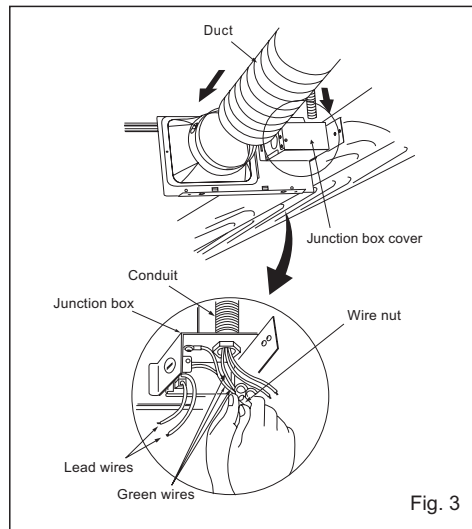
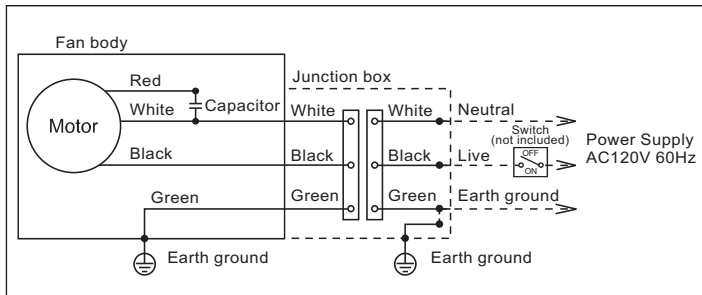


Fig. 3

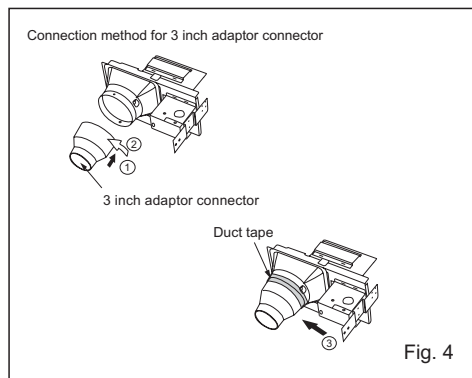
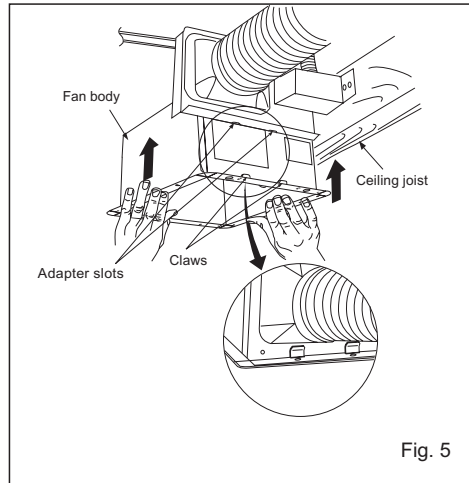


Fig. 4

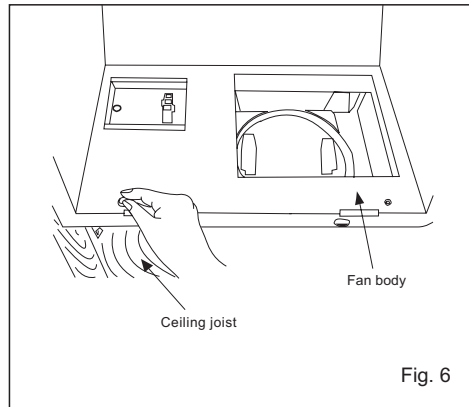
## INSTALLATION I (JOIST MOUNTING) CONTINUED

4. Install a circular duct (using 4 inches duct or 3 inches duct) and secure it with duct tape or clamp as shown in Fig. 4.

5. Insert fan body into ceiling. (Fig. 5)

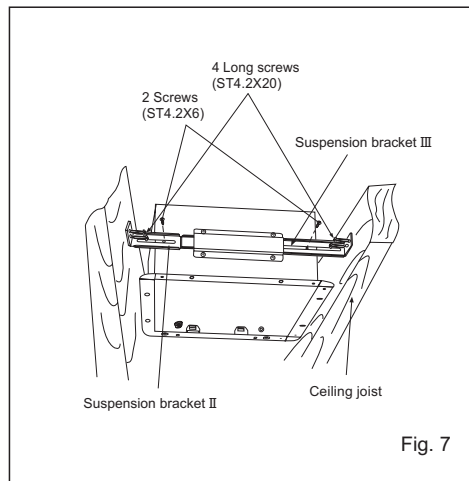


6. Secure the fan body to the adaptor by using one thumb screw as shown in Fig. 6.



7. Secure fan body to ceiling joists using 4 long screws (ST4.2X20) in horizontal direction with suspension bracket II and III. Secure suspension bracket II and III to the fan body using 2 screws (ST4.2X6). (Fig. 7)

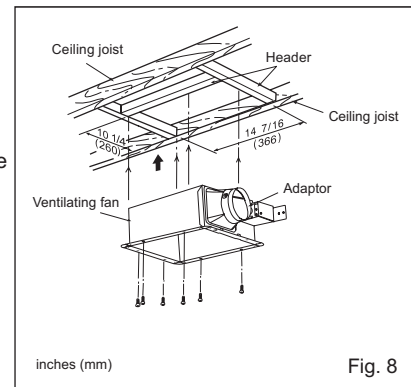
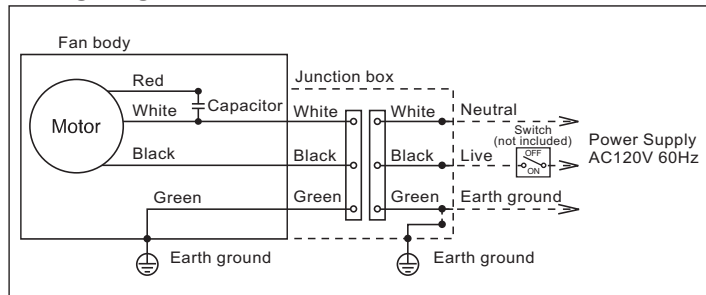
8. Follow steps 11 to 15 of the original Installation Instruction (page 12) to complete the motor/grille assembly installation.



## INSTALLATION II (WOODEN HEADER)

1. Remove the tape from damper and adaptor before installation. (Fig. 1)
2. Secure the fan body to the adaptor by using one thumb screw as shown in Fig. 6
3. Install header between ceiling joists using nails or screws. Then install the fan body and secure with screws. (Fig. 8).
4. Remove junction box cover and secure conduit to junction box knock-out hole. (Fig. 3) Using wire nuts, connect house power wires to ventilating fan wires: black to black; white to white; green to green. Replace the junction box cover.

### Wiring diagram

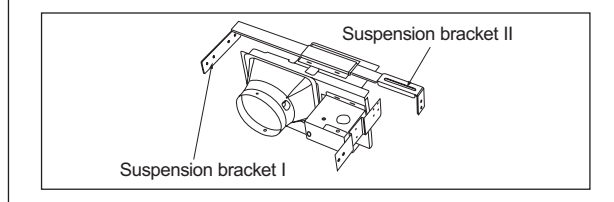


5. Install a circular duct (using 4 inches duct or 3 inches duct) and secure it with duct tape. (Fig. 4)
6. Follow steps 11 to 15 of the original Installation Instruction (page 12) to complete the motor/grille assembly installation.

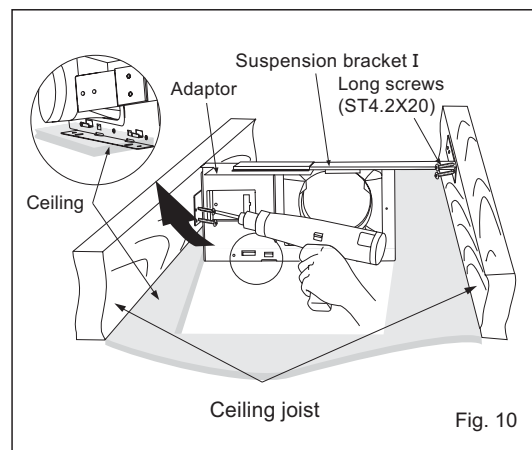
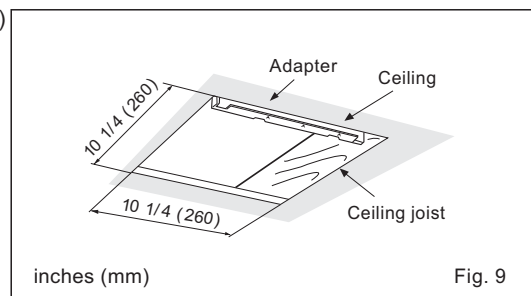
## INSTALLATION III (IN EXISTING CONSTRUCTION)

1. Remove the tape from damper and adaptor before installation. (Fig. 1)
2. Ensure that the square hole size in ceiling should be sufficient according to Fig. 9.
3. Remove adaptor from body and secure adaptor to ceiling joists with 4 long screws (ST4.2X20) inside of the ceiling. (Fig. 10)

If the location is in the middle between 2 joists, connect suspension bracket I and II as shown below.

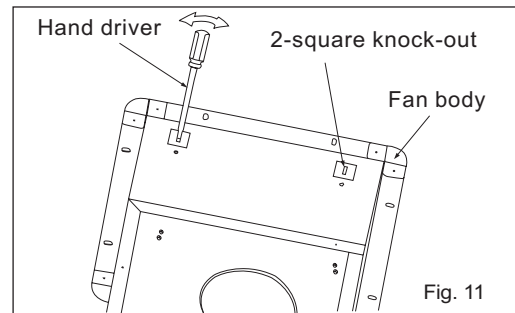


4. Remove junction box cover and secure conduit to junction box knock-out hole (Fig. 3). Using wire nuts, connect house power wires to ventilating fan wires: black to black; white to white; green to green. Replace the junction box cover.
5. Install a circular duct (using 4 inches duct or 3 inches duct) and secure it with duct tape. (Fig. 4)

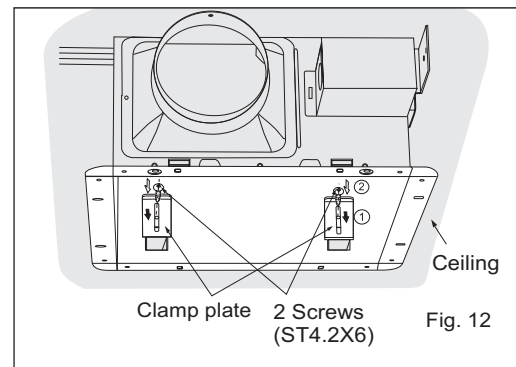


## INSTALLATION III (IN EXISTING CONSTRUCTION) CONTINUED

- Remove the 2 square knock-out carefully from surface of the frame by screw driver. (Fig. 11). And remove the bracket cover on the other side of the frame body.
- Insert fan body into ceiling. (Fig. 5)
- Secure the fan body to the adaptor by using one thumb screw as shown in Fig. 6.



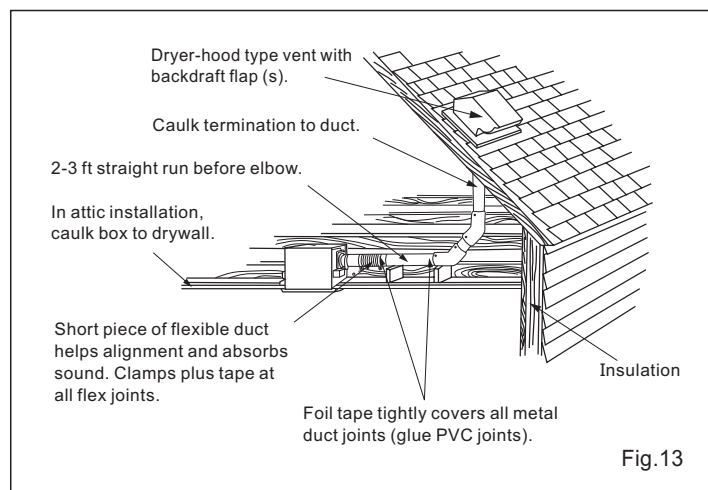
- Replace with clamp plates (accessories) and secure the fan body on ceiling board with 2 screws (ST4.2X6) from inside of the frame. (Fig. 12)
- Follow steps 11 to 15 of the original Installation Instruction (page 12) to complete the motor/grille assembly installation.



## PRACTICAL GUIDE TO INSTALLATION

Properly insulate the area around the fan to minimize building heat loss and gain. (Fig. 13)

Loose fill or batt insulation can be placed directly over the fan housing in the attic. Panasonic fans and fan/light combination units do not create excessive heat that is a common problem with recessed light fixtures or some competitors' fan/light combinations. Our efficient, cool-running motors and our fluorescent lamps do not create enough ambient heat to be subjected to these limitations.



## PRODUCT SERVICE

### Warning Concerning Removal of Covers.

The unit should be serviced by qualified technicians only. No service information is provided for customers. Your product is designed and manufactured to ensure a minimum of maintenance. However, should your unit ever require service, a nationwide system of factory service centers and AUTHORIZED INDEPENDENT SERVICE CENTERS is maintained to support your product's warranty.

(In the U.S.A., call 1-866-292-7292 to Customer call center.)

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