

Figure 1

Figure 2

For fan model: **FV-05VQ3, FV-08VQ3, FV-11VQ3, FV-15VQ4, FV-05VF2, FV-08VF2, FV-11VF2, FV-05VS1, FV-08VS1, FV-10VS1, FV-08VKS1, FV-05VK1, FV-08VK1, FV-05VQ5, FV-08VQ5, FV-11VQ5, FV-15VQ5, FV-08VQL5, FV-11VQL5, FV-15VQL5, FV-05VK3, FV-08VK3, FV-11VK3, FV-13VK3, FV-08VKS3, FV-13VKS3, FV-08VKM3, FV-13VKM3, FV-08VKL3, FV-11VKL3, FV-13VKL3, FV-08VKSL3, FV-13VKSL3, FV-08VKML3, FV-13VKML3, FV-05VFM2, FV-08VFM2, FV-08VQC5, FV-11VQC5, FV-08VQCL5, FV-11VQCL5**

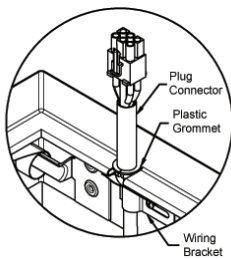


Figure 3A

1. Position the ceiling radiation damper on the inlet side of the fan such that the holes in the damper mounting straps line up with the holes in the flange of the fan housing. Secure the damper to the fan housing using the four #8 machine screws/nuts supplied.

2A. For a damper used with a fan requiring a plug connector to pass through the damper, place plastic grommet around plug connector and attach it to damper frame. Secure the plug connector using the wiring bracket and a minimum #6 screw and nut supplied. (See Figure 3A) Make sure wire lead or plug connector does not interfere with the closing of the damper.

2B. For a damper used with a fan that does not require a plug connector to pass through the damper, secure the wiring bracket supplied to the damper frame using the supplied #6 screw and nut. Make sure the wiring bracket

covers the notch in the frame. (See Figure 3B).

3. After securing the damper to the fan housing, turn it over such that the damper is on the bottom of the assembly. The assembly can be attached to the structure above using the holes in the fan housing flange (see step 4 below) or by using the supplied mounting brackets. If the mounting brackets are used interconnect and position the damper/fan mounting brackets to the flanges opposite that to which the damper is attached. Align the slot such that it aligns with the holes in the flange in the fan housing. The brackets can be adjusted to accommodate the required installation. If the damper/fan is being attached to the adjacent structure then the brackets must be used and should be adjusted to fit accordingly. If the damper/fan is being supported from the structure above, the bracket should be adjusted so that the ends of the brackets align accordingly. Once the brackets have been adjusted they should be attached to the flange of the fan housing with the #8 machine screw/nuts supplied. A minimum of two fasteners per side is required.

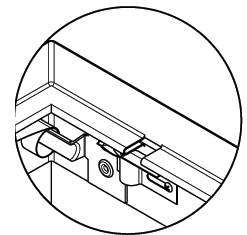
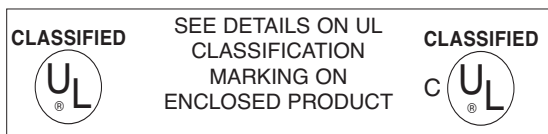


Figure 3B

4. The ceiling penetration should be located within ceiling tiles or panels without necessitating cuts in the ceiling suspension main runners or cross tees. If required, a maximum of one runner or cross tee may be cut to enable proper damper location and installation. Each cut end shall be supported by a min. 12 swg (2.7) vertical hanger wire. The opening in the ceiling should be the same size as the outside of the damper frame.

5. Position the damper/fan assembly such that the bottom edge of the damper is flush with the finished surface of the ceiling. Attach the damper/fan assembly to the structure above or adjacent to it. If the damper/fan is being attached to the assembly above, a minimum of 12 swg (2.7) hanger wire must be used. A minimum of two hanger wires on two opposite sides are required. The hanger wires can be attached directly to the fan housing flange or to the ends of the mounting brackets. If the damper/fan assembly is being directly mounted to the adjacent structure, a minimum #8 (M4) sheet metal screws or 1/2" dia. bolts/nuts must be used. If necessary, a min. 1/2" wide flange is to be attached to the damper using a minimum #8 (M4) sheet metal screw, 3/16" pop rivets, welds or bolts at 6" (152) o.c. maximum. A minimum of 2 connections per side is required.

6. For other installation details see Panasonic Installation Instructions.



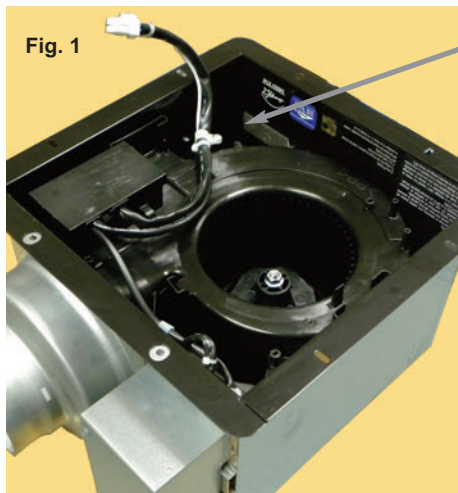
# Installation of Joist Mount Brackets For Use With PC-RD05C4 Damper

## Step 1A (Used for Fan models only)

Use enclosed metal clip to cover notch in Radiation Damper and proceed to Step 2.

## Step 1B (Used for Fan-Light and Fan-Motion Sensor Models)

Place the damper on the fan housing aligning the holes in the fan mount brackets to the holes in fan housing. Orient the damper to allow the wire leads for Motion Sensor and/or Light to extend as far as possible through Radiation Damper notch. The damper can be installed in any orientation on the fan housing. If the wire leads cannot reach through the damper to the grill plug attachments, release the clips that hold the wiring inside the fan with Phillips-Head screwdriver. See Fig. 1. Check to see if the wire leads can reach through Radiation Damper notch into grill plug attachments.



If Necessary,  
remove clips.

## Step 2

If the damper and the Joist Brackets are attached with DIFFERENT holes (see Fig. 2) fasten the fan to the housing with four (4) 10-32 x 1/2 inch bolts and four (4) 10-32 keps nuts and proceed to Step 3. If the damper and the Joist Brackets are attached with the SAME holes (see Fig. 3) proceed to Step 3.

Fan Mount Brackets use  
THE SAME holes as Joist  
Mount Brackets.

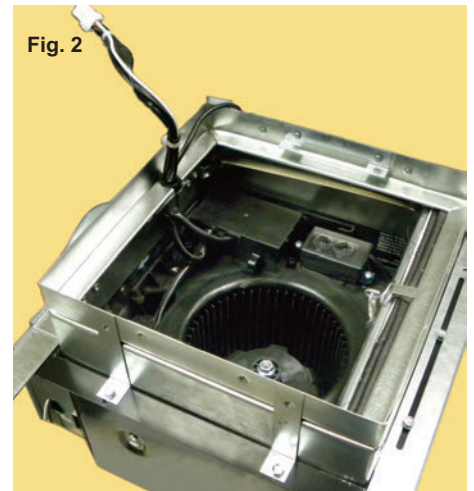


Fig. 2

## Step 3

Locate plastic bag containing mounting brackets and loose hardware. Remove one support bar (R), one support bar (L). Align the support bars as shown in Fig. 4 with both ribs of the support bars on the same end, facing the opposite direction. Fasten to fan housing through slot in brackets and holes in housing with two (2) 10-32 x 1/2 inch bolts and two (2) 10-32 keps nuts. See Fig. 2 or Fig. 3.

## Step 4

Repeat Step 3 for installation on the Joist Mount Brackets on the opposite side of the fan.

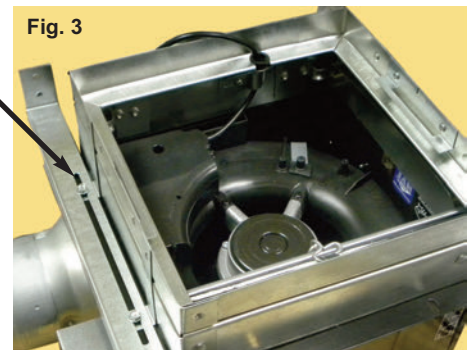


Fig. 3



Fig. 4

## Step 5 (Used for Fan-Light and Fan-Motion Sensor Models)

Install the supplied plastic grommet on the loose wire leads. Gently extend the wire leads and clip the grommet firmly into the Radiation Damper notch. Attach supplied metal clip to secure the electric pigtail wiring into notch. Gently extend the wire leads through the Radiation Damper notch as far as possible and attach the Molex to receptacle in grill for Fan-Light models, snap motion sensor detector into receptacle in grill for Fan-Motion models.

**Make sure the wire leads do not interfere with the closing of the damper or the operation of the fan motor!**