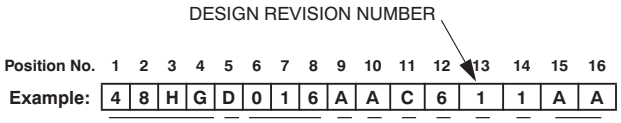
**CRSTATUS003B00**

**48/50PD05–06, 48/50HG014–028, 48/50PG03–28**
**SINGLE–PACKAGE ROOFTOP**
**WITH *COMFORT*LINK™ CONTROLS**
**FAN STATUS SWITCH ACCESSORY**

# Installation Instructions

**IMPORTANT**: There are two different design revision 48/50HG units currently being produced. Because of these differences, there are two different versions of this accessory. This accessory literature covers accessories manufactured for units with design revision 1. Design revision 0 units are not covered in this accessory book.To determine the design revision, refer to the full unit model number. See Fig. 1 for an example of an HG model number. The design revision number in the model number nomenclature is located in position 13.




C07172

**Fig. 1 - Model Number Chart**

## PACKAGE CONTENTS

| DESCRIPTION | QTY | PART NUMBER |
|---|---|---|
| **Switch** | 1 | HK06WC028 |
| **Screw — 8-18 x 1/2 in.** | 2 | AL56AU166 |
| **Long Control Tube** | 1 | 50TG503595 |
| **Screw — 6-20 x 1/2 in.** | 2 | AL56AU126 |

## SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform the basic maintenance functions of replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloth for unbrazing operations. Have fire extinguishers available for all brazing operations.

Recognize safety information. This is the safety-alert symbol ⚠. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies a hazard which **could** result in personal injury or death. CAUTION is used to identify unsafe practices which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

## INSTALLATION

**NOTE**: The fan status switch can be installed to monitor indoor fan status (ON/OFF). Follow the procedures below and perform the steps necessary to install the fan status switch.

### ⚠ WARNING

**ELECTRICAL OPERATION HAZARD**

Failure to follow this warning could result in personal injury and/or death.

Prior to installation of this accessory, make sure all power is disconnected to the unit and locked out.

### ⚠ CAUTION

**EQUIPMENT DAMAGE HAZARD**

Failure to follow this caution may result in damage to equipment.

When removing panels from the unit, be careful not to damage the roof or other surfaces with the panels.

1. Turn off power to the unit.
2. Open the blower access door on the unit.
3. Mount the switch on the fan housing in the Fan Section as shown in Fig. 2, using the screws provided.

**NOTE**: To ensure proper operation of the switch, the switch must be installed vertically with the pneumatic ports pointed down.

4. Mount the pick-up tube to the fan housing using the 6-20 screws provided.

**NOTE**: The arrow of the pick-up tube should point down as shown in Fig. 2.

Copyright 2010 CAC / BDP ● 7310 W. Morris St. ● Indianapolis, IN 46231
Printed in U.S.A. Edition Date: 1/10 **Catalog No:IIK–CRSTAT03–01**

**Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.**
Replaces: 48/50H,P–6SI

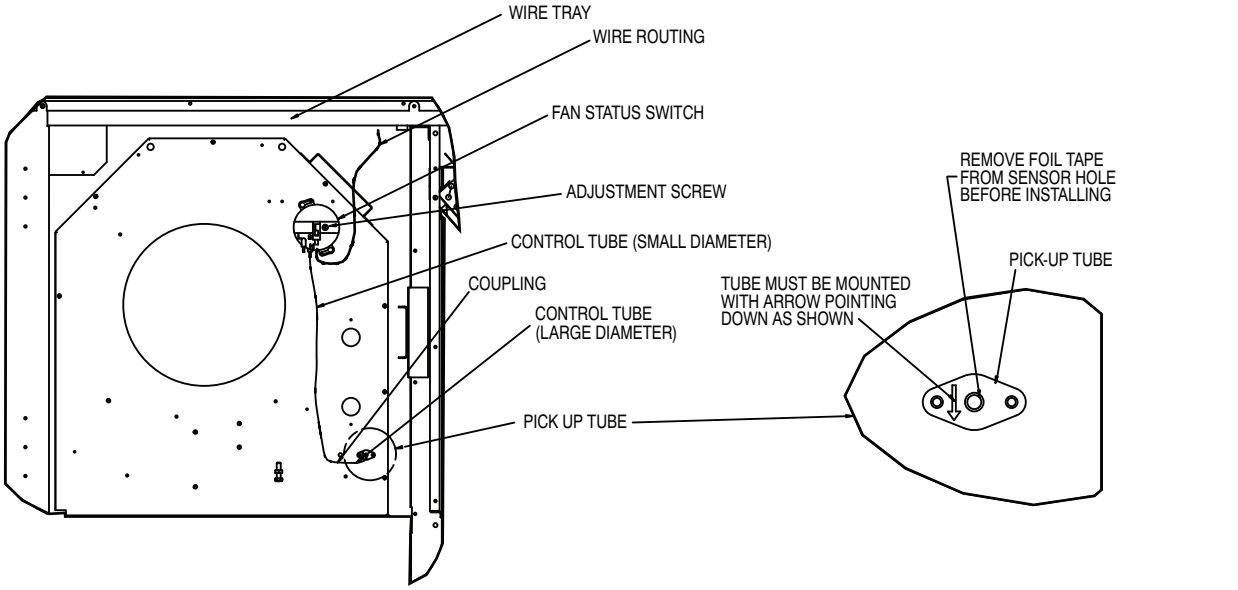



**Fig. 2 - Fan Switch Location**

5. Connect the long control tube to the higher—pressure port marked “H”.
6. Connect the coupling to the long control tube.
7. Connect the short control tube to the coupling.
8. Connect the short control tube to pick-up tube installed in Step 4.
9. The wires for switch are located near the fan status switch. Connect the gray wire (FS-1) to Terminal 1 and the black wire (FS-3) to Terminal 3 (normally open).
10. Restore power to unit.

## CONFIGURATION

1. The control system must be configured to use the fan switch. A password may be required to edit the configurations, depending on the previous settings configured in the unit. Default password is ”1111”.
2. There are two configurations to control the Fan Status feature. The first configuration is Shut Down on IDF Failure. This determines if the unit will shut down upon activation of the fan failure switch. The default value is “YES”, indicating that the unit WILL shut down should the fan switch activate. To de-activate this feature, configure the unit to “NO” (see steps below).
3. The second configuration is required to select the switch type, either normally open (1) or normally closed (2). The default setting for “FN.SW” is (0), or no switch. For use of this accessory, the setting should be changed to “1”.
4. To configure the *Comfort*Link™ control, use the arrow keys on the Scrolling Marquee display to scroll the red LED on the display to the “UNIT” position and press ENTER. If it is desired to change the setting of “IDF.F” (Fatal IDF), use the arrow keys to scroll down until the display shows “IDF.F”, and press ENTER key. At the Fatal IDF (IDF.F) setting (default is YES), press ENTER (YES should be flashing). Use the arrow keys to change the setting and press ENTER again. Now press ESCAPE to save the setting.
5. To configure the switch type, use the arrow keys to scroll down to “FN.SW”, and press ENTER. At the Fan Switch (FN.SW) setting (default is “0” which means no switch), press ENTER (“0” should be flashing). Use the arrow keys to change the configuration to “1” for a normally open switch, and press ENTER. Using a configuration of “2” (normally closed switch) is not recommended for this application.
6. Configuration of the fan switch is now complete. Pressing the ESCAPE key several times will return the display to the auto scroll setting.
7. Consult the Controls and Troubleshooting Guide for complete instructions on using the *Comfort*Link™ control system.
8. To configure switch, place the unit in Fan Only mode. Using a flat head screwdriver, rotate the adjustment screw until the pressure switch closes. Rotate the adjustment screw in the same direction another 2 full turns.
9. Close and secure all access doors.

**NOTE**: For 48/50PD units, make sure the fan is running at minimum fan speed when performing the above.

## OPERATION

If there is a digital indicator light on the thermostat, it will be lit when the indoor fan is operating. If the indoor fan is being told to operate by the thermostat, and the indicator light is not lit, service the unit immediately. If a space temperature probe or a thermostat without an indicator light is being used, the indoor fan operation status can be observed at the unit display, or over the Carrier Comfort Network (if installed).