



## Installation Instructions

# Replacement of Fan Proving Switch

**Model Numbers:** Voyager 27.5 to 50 tons: YCD/YCH, TCD/TCH, TED 330-600  
 IPak 20 to 130 tons: S\*HFC20-75, S\*HGD90-130 SWCF, SCWG

This document applies to service offering applications only.

**SAFETY WARNING**

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

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## Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

- WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
- NOTICE** Indicates a situation that could result in equipment or property-damage only accidents.

### Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

### Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

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**WARNING**

**Proper Field Wiring and Grounding Required!**  
 Failure to follow code could result in death or serious injury. All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

**WARNING**

**Personal Protective Equipment (PPE) Required!**  
 Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labeling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.

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**WARNING**

**Follow EHS Policies!**  
 Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

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### Revision History

Document updated to reflect Service Offering number.

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## General Information

Each pressure switch kit includes:

- 30-inches of tube, 5/16-in. OD x 3/16-in. ID x 1/16-in. wall
- Installation instructions

**Note:** The actual pressure switch is ordered separately and will vary with application.

## Installation

### ⚠ WARNING

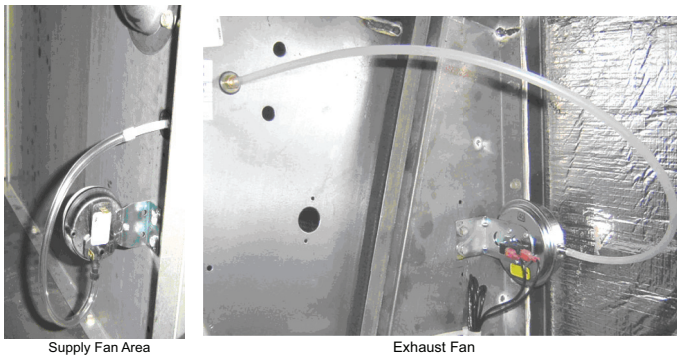
#### Hazardous Voltage!

Failure to disconnect power before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Verify that no power is present with a voltmeter.

The new switch requires a larger flexible tube as supplied in this package.

1. Remove current tube and switch. Refer [Figure 1](#) for examples of typical installation locations.

**Figure 1. Typical IPak 20 to 130 locations**

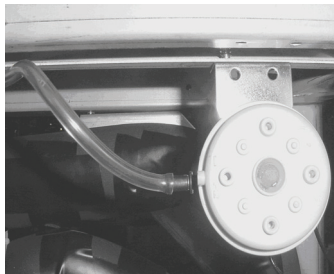


Supply Fan Area

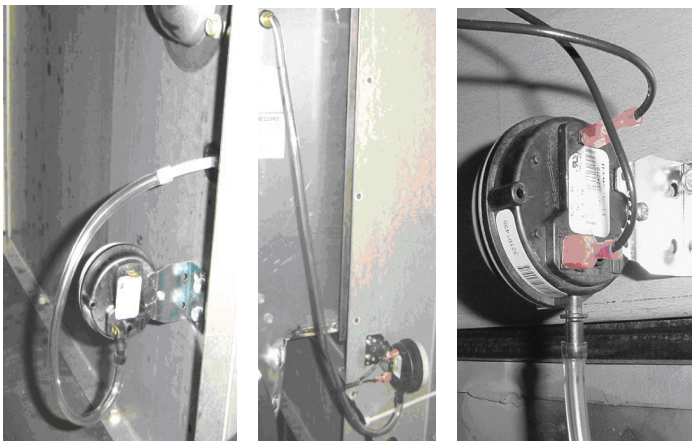
Exhaust Fan

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**Figure 3. SCWG switch**



**Figure 4. Examples of completed IPak 20 to 130 and SCWF replacements**



Supply Fan Area

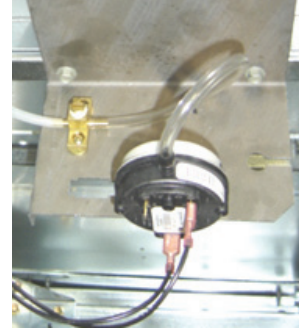
Exhaust Fan Area

SCWF

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2. For IPak 20 to 130 supply fan proving switch only:
  - a. Trim a 2-inch section of the old tube to use as an **adapter** for the new, larger tube.
  - b. Slide the new, larger tube a 1/2-inch onto the adapter. The adapter is used to reinsert the tube into the supply fan compartment partition interface hole as shown in [Figure 4](#).

**Figure 2. Voyager 27.5 to 50 new pressure switch installed and exhaust area**



3. Trim the new tube as necessary and slide it onto the new switch pressure port.
4. Reconnect wires and install the new switch with the pressure port pointing:
  - a. IPak 20 to 130 and SCWF: down as shown in [Figure 4](#).
  - b. Voyager 27.5 to 50: up as shown in [Figure 2](#).
  - c. SCWG: sideways as shown in [Figure 3](#).

**Note:** Using the original screws may be difficult due to slightly smaller bracket holes on the new pressure switch.

5. Connect the other end of the new tube to the existing nozzle or partition interface hole, see [Figure 4](#) for examples.

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