



# TJERNLUND PRODUCTS, INC.

1601 Ninth Street • White Bear Lake, MN 55110-6794  
PHONE (800) 255-4208 • (651) 426-2993 • FAX (651) 426-9547  
Visit our web site • www.tjernlund.com

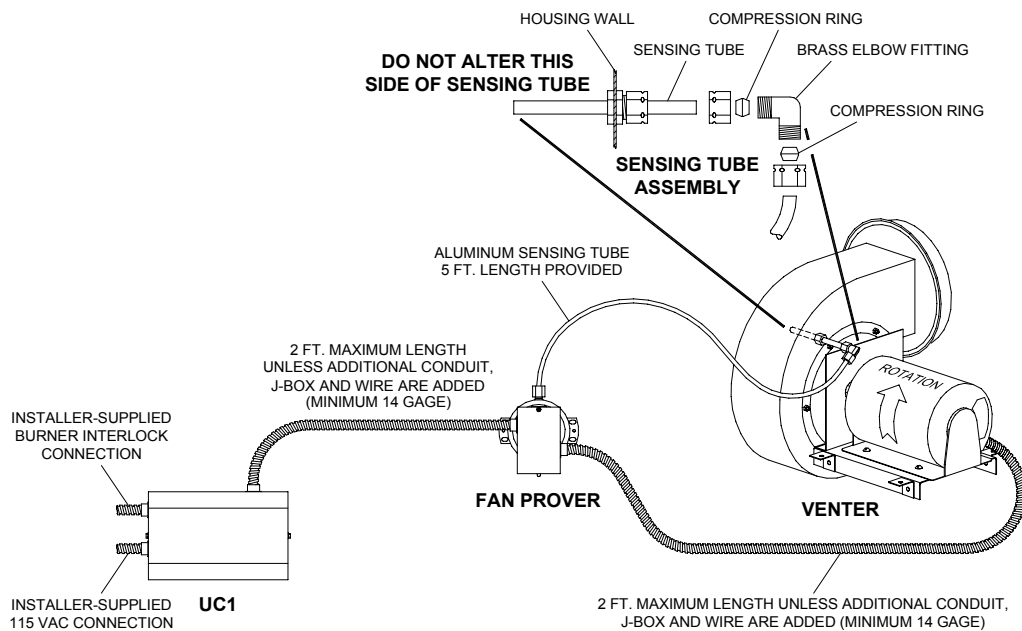
## 950-1046 HS3, 9501047 HS4, 950-1048 HS5 HOUSING SENSING TUBE KIT

### FOLLOW THE DIRECTIONS BELOW FOR INSTALLATIONS USING THE UC1 UNIVERSAL CONTROL

**IMPORTANT:** The Fan Proving Switch must be mounted so the diaphragm is in a vertical position.

1. Mount Fan Prover in a vertical position within 4 feet of the Power Venter so 5 foot sensing tube can be trimmed if necessary. Do not mount the Fan Proving Switch on a heat source that exceeds 140°F. Examples of improper mounting surfaces include vent pipe, venter, top of heater casing or any place where radiant or convective heat would exceed 140°F.
2. Connect the 1/4" aluminum tubing from the Fan Proving Switch to the Power Venter housing using supplied fittings. The factory calibrated sensing tube length and compression fittings are critical for proper operation of the Fan Proving Switch. If it is necessary to alter the sensing tube length, **ONLY** trim sensing tube portion that is on the exterior of the housing. **IMPORTANT: DO NOT** trim the sensing tube portion that will be mounted in the interior of the housing because Fan Prover will not sense the proper pressure. **Sensing tube assembly with factory calibrated length must be used for Fan Prover to work properly!**

#### TYPICAL UC1, FAN PROVER AND SENSING TUBE INSTALLATION (DO NOT SUBSTITUTE SENSING TUBE MATERIALS)



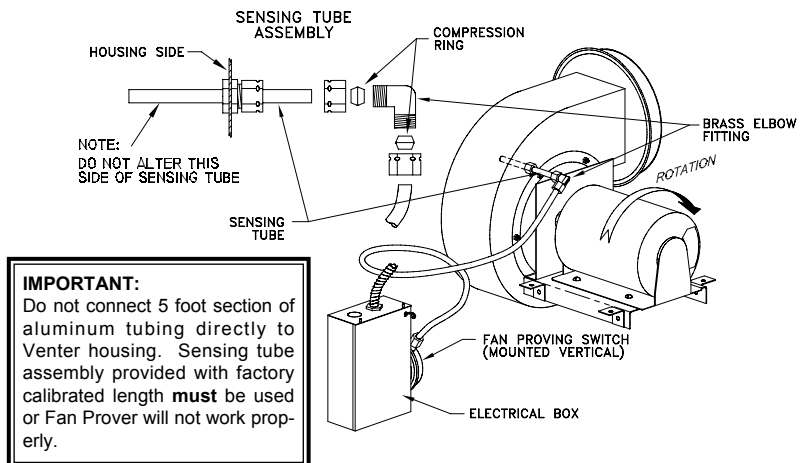
**IMPORTANT:**  
Do not connect 5 foot section of aluminum tubing directly to Venter housing. Sensing tube assembly provided with factory calibrated length **must** be used or Fan Prover will not work properly.

**IMPORTANT:** As viewed from the opposite end of the shaft (rear of motor), the motor should rotate clockwise.

### FOLLOW THE DIRECTIONS BELOW FOR INSTALLATIONS WITHOUT THE UC1 UNIVERSAL CONTROL

**NOTE:** It is important that the electrical box is mounted with the Fan Proving Switch in a vertical position.

1. Mount supplied electrical box to a flat surface within 2 feet of the Power Venter with Proving Switch in a vertical position.
2. Connect the 1/4" aluminum tubing from the Fan Proving Switch to the Power Venter housing using supplied fittings. The factory calibrated sensing tube length and compression fittings are critical for proper operation of the Fan Proving Switch. If it is necessary to alter the sensing tube length, **ONLY** trim sensing tube portion that is on the exterior of the housing. **IMPORTANT: DO NOT** trim the sensing tube portion that will be mounted in the interior of the housing. **No attempts should be made to substitute the specified materials.** See Fan Proving Switch installation diagram to the right.



**IMPORTANT:**  
As viewed from the opposite end of the shaft, the motor should rotate clockwise.