

P/N (950-1021) HS-2, PAI-4 REPLACEMENT MOTOR KIT

🕰 WARNING

- Disconnect power supply before making wiring connections to prevent electrical shock and equipment damage. 1.
- All wiring must comply with applicable codes and ordinances. 2.
- 3. When wiring is completed, check all components by running system through its entire heating cycle. 4.
 - Check vent pipe system for leakage. All vent system leaks must be sealed prior to the installation of the Power Venter.
- Flue gas temperature must not exceed 600°F at Power Venter Inlet. 5.

HS-2 SERIES POWER VENTER MOTOR INSTALLATION

A. FOR "NEW STYLE" HS-2 MODEL (DATE CODE 12/88 UP TO PRESENT, SEE DIAGRAM A).

- Loosen Fan Proving Tube nylon nut and carefully remove sensing tube from housing so as not to bend it. 1.
- Loosen Power Venter wheel set screw. 2.
- Remove motor from motor mount by removing 4 nuts which secure it. NOTE: USE CARE SO AS NOT TO LOSE SPACERS AND NUTS. 3.
- Position new motor so that studs extend into motor mount. Motor wires must match up with hole of junction box containing electrical shorty bushing. 4. Feed motor wires through bushing and into junction box. Shaft must be inserted through wheel hub.
- Firmly fasten motor to motor mount (4 nuts) with a wrench. NOTE: BE SURE TO INCLUDE SPACERS BETWEEN MOTOR AND MOTOR MOUNT, 5. AS WELL AS APPROPRIATE FASTENERS.
- 6. Tighten wheel set screw on flat part of shaft.
- Insert fan proving switch sensing tube into housing (short end) gently and secure to fan proving switch with nylon nut. 7.

B. FOR "OLD STYLE" HS-2 MODEL (DATE CODE PRIOR TO 12/88, SEE DIAGRAM B.)

- Loosen Power Venter wheel set screw. 1.
- Remove motor from motor mount by removing 4 nuts which secure it. NOTE: USE CARE SO AS NOT TO LOSE SPACERS AND NUTS. 2.
- 3. Position new motor so that studs extend into motor mount. Motor wires must match up with hole of junction box containing electrical shorty bushing. Feed motor wires through bushing and into junction box. Shaft must be inserted through wheel hub.
- Firmly fasten motor to motor mount (4 nuts) with a wrench. NOTE: BE SURE TO INCLUDE SPACERS BETWEEN MOTOR AND MOTOR MOUNT, 4 AS WELL AS APPROPRIATE FASTENERS.
- 5. Tighten wheel set screw on flat part of shaft.
- 2. Wire Power Venter motor according to appropriate model on the opposite side of this sheet. Be sure grounding wire from motor is utilized. UNIT MUST BE GROUNDED! All wiring must be done in accordance with the NEC and applicable local codes. The wiring to the furnace should be protected by overcurrent protection (fuses or circuit brakers) rated 15 amperes or less, as applicable of 14 AWG conductors. CAUTION MUST BE EXERCISED TO ENSURE THAT WIRING DOES NOT COME INTO CONTACT WITH ANY HEAT SOURCE.
- 3. Before testing installation, on "old style" units check sail switch in Power Venter junction box. Sail must operate freely in slot of fan housing. Operation of switch can be determined by hearing a "click" as switch opens and closes. A "click" must be heard before sail blade touches either end of slot. If "clicks" are not heard, it may be necessary to change bend in blade slightly.
- 4. Check heater and Power Venter operation. Draft control on Power Venter should be adjusted so that there is no spillage at draft diverter, barometric or hood.







IN-FORCER™ MODEL PAI-4 MOTOR INSTALLATION

- 1. Disconnect motor leads inside IN-FORCER.
- 2. Remove top and bottom screw which hold blower assembly plate in IN-FORCER.
- 3. Carefully slide out motor and housing assembly from IN-FORCER.
- 4. Loosen wheel set screw.
- 5. Remove (3) nuts which hold housing to blower assembly plate.
- 6. Remove (3) nuts which hold motor to blower assembly plate.
- 7. Install new motor in in reverse order. Make sure wheel is spaced evenly in housing and set screw is tightened on flat of motor shaft.
- 8. Run IN-FORCER through heating cycle to verify proper operation.



TYPICAL HS-SERIES POWER VENTER GAS WIRING DIAGRAMS

HSUL CONNECTED TO 24V ELECTRONIC IGNITION



HST CONNECTED TO 24V ELECTRONIC IGNITION



HST CONNECTED TO AN R8184G BURNER MOTOR LESS THAN 3 AMPS @ 120 VAC LEGEND NOTES NOTES PICY. PROVEC DISCONNECT NEANS DAD PROTECTION 110V/60/1 MATHLINGE MANUFACTURER. R01849 GR EDWY.



HSUL CONNECTED TO 24V STANDING PILOT



HST CONNECTED TO 24V STANDING PILOT



SERVICE

Specific instructions cannot be made concerning frequency of lubrication. Usually oiling every 3 months during the heating season will be sufficient. NO MORE THAN 3 DROPS of SAE 20 oil should be used. Oil holes or lances are provided at the front and rear faces of motor.

NOTE

IF YOUR ELECTRICAL DIAGRAM IS NOT INCLUDED, CONTACT OUR CUSTOMER SERVICE TOLL FREE AT 1-800-255-4208, 7:30 TO 4:30 CST FOR FURTHER ASSISTANCE.

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