



# Westgate

LUXURY FIREPLACES

**Please ensure that your Power Vent Kit has not been damaged.**

1. Plan out the venting and wiring installation. Important notes to consider when planning where the venting will be installed:

## DV48

- Minimum horizontal vent run allowed with no rise is 1 foot (305mm).
- Horizontal vent runs less than 8 feet (2.44m) require a 60% restrictor. Refer to the Owner's Manual on how to install a restrictor.
- Maximum vent run is 100 feet (30.5m) ( $H_1 + V + H_2 + H_3 + H_4 + H_5 + H_6$ ), refer to Figure 2.
- Maximum below-grade installation is 8 feet (2.4m) (V).
- Multi-elbow installations are possible up to a maximum of six 90°.
- See Figure 4a for the typical overall dimensions with a minimum horizontal vent installed.
- Refer to Figure 19 and Table 1 for vent termination clearances and restrictions.

## DV62

- Minimum horizontal vent run allowed with no rise is 1 foot (305mm).
- Maximum horizontal vent run is 75 feet (22.9m), refer to Figure 3.
- Maximum below-grade installation is 6 feet (1.8m), refer to Figure 3.
- Multi-elbow installations are possible up to a maximum of four 90°.
- See Figure 4b for the typical overall dimensions with a minimum horizontal vent installed.
- Refer to Figure 19 and Table 1 for vent termination clearances and restrictions.

# 50-1970 Power Vent Kit

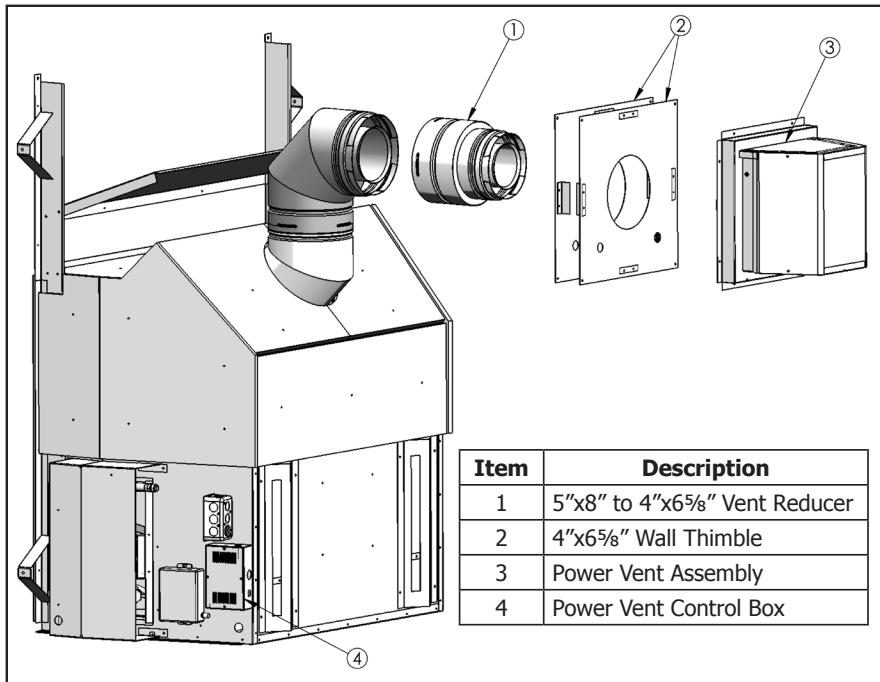


Figure 1a: DV48 Power Vent Kit's Parts Diagram.

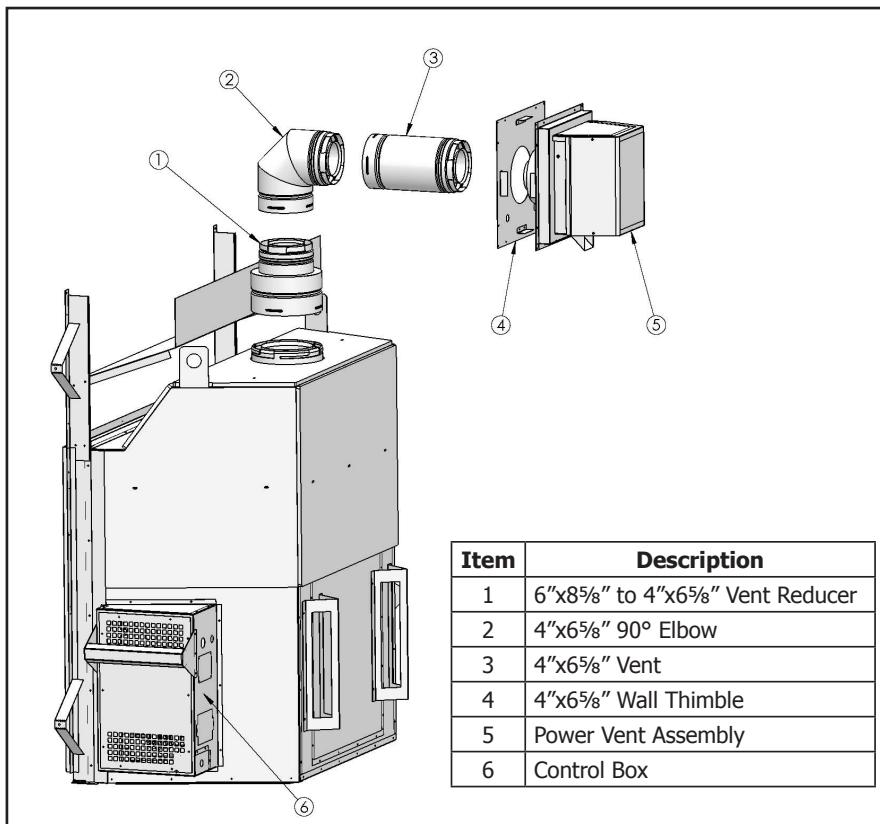
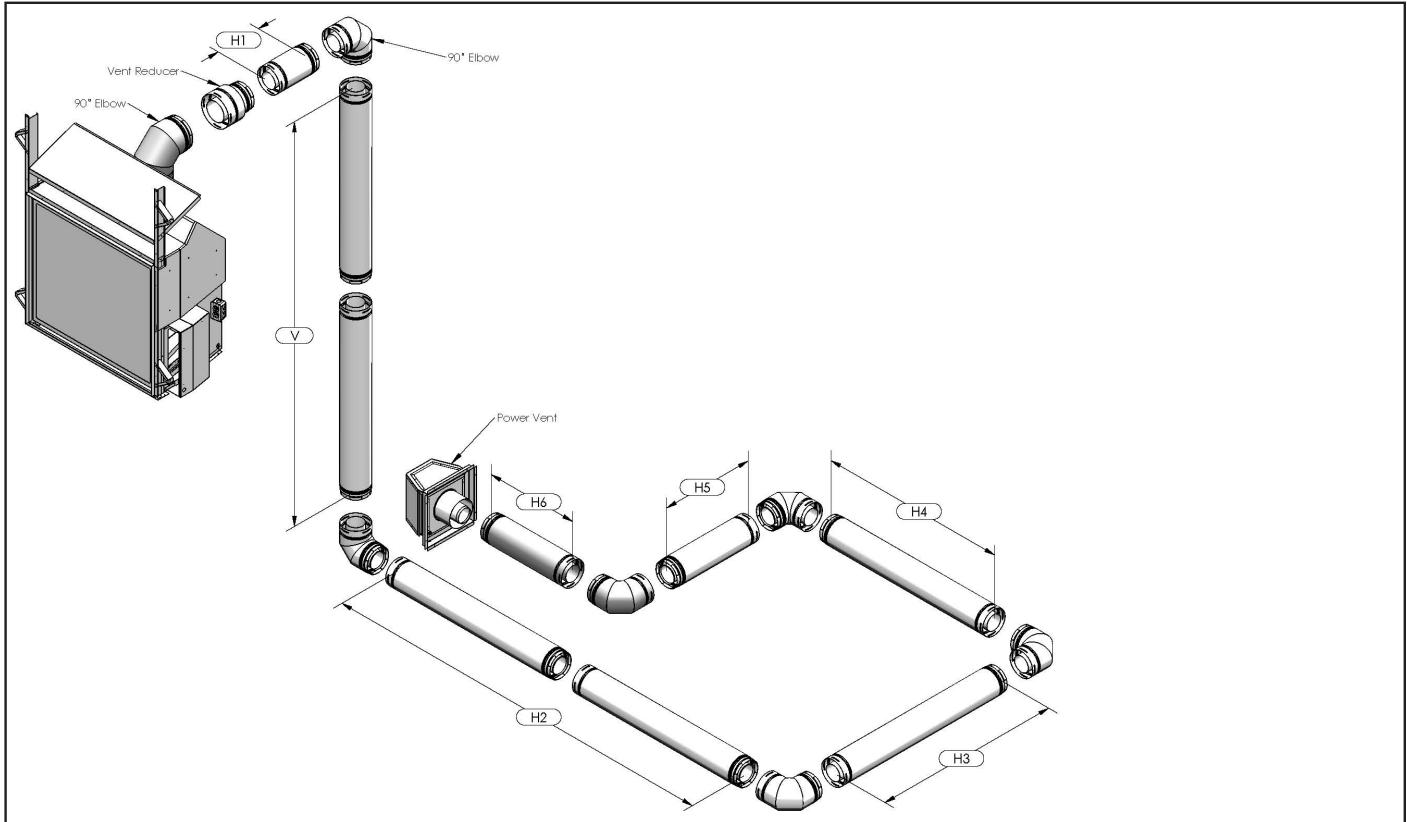
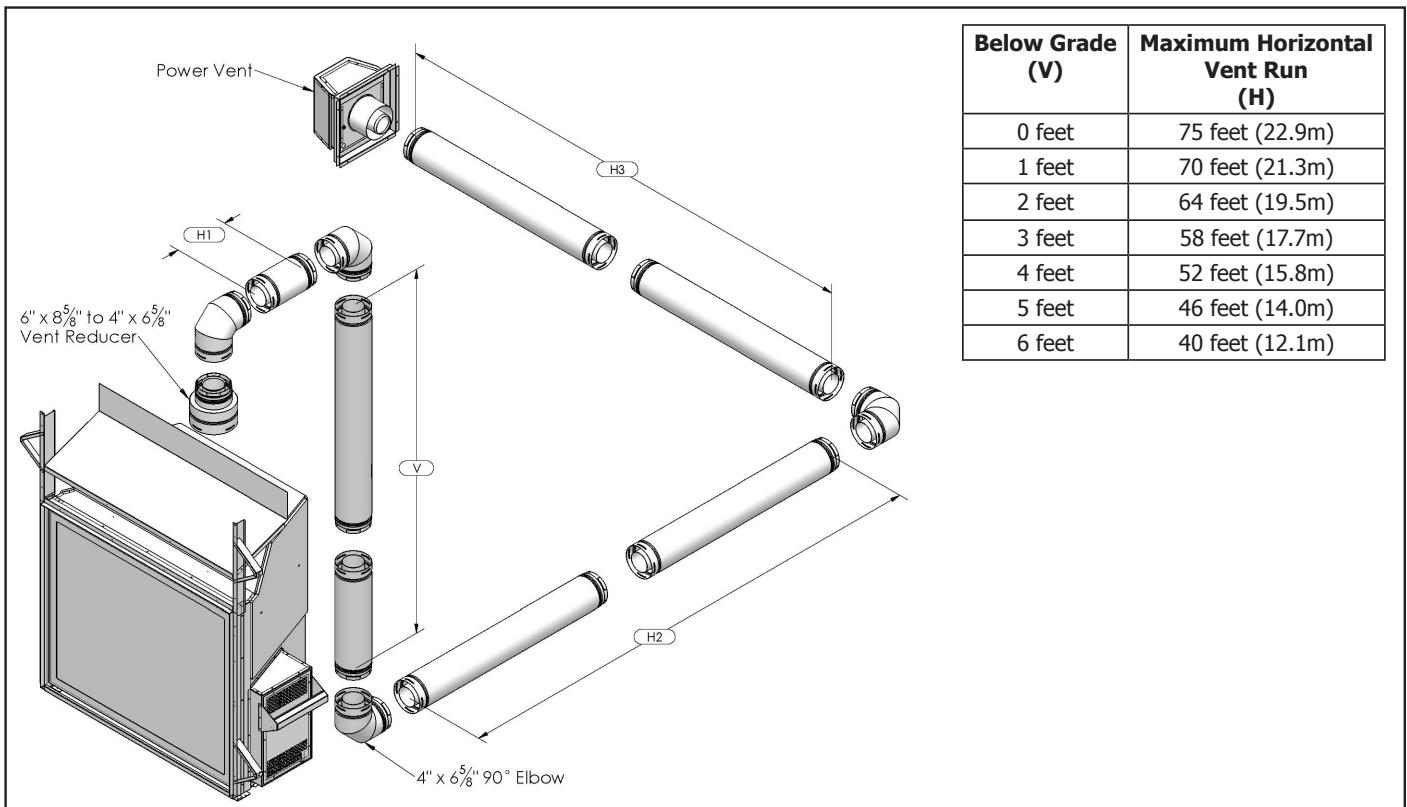


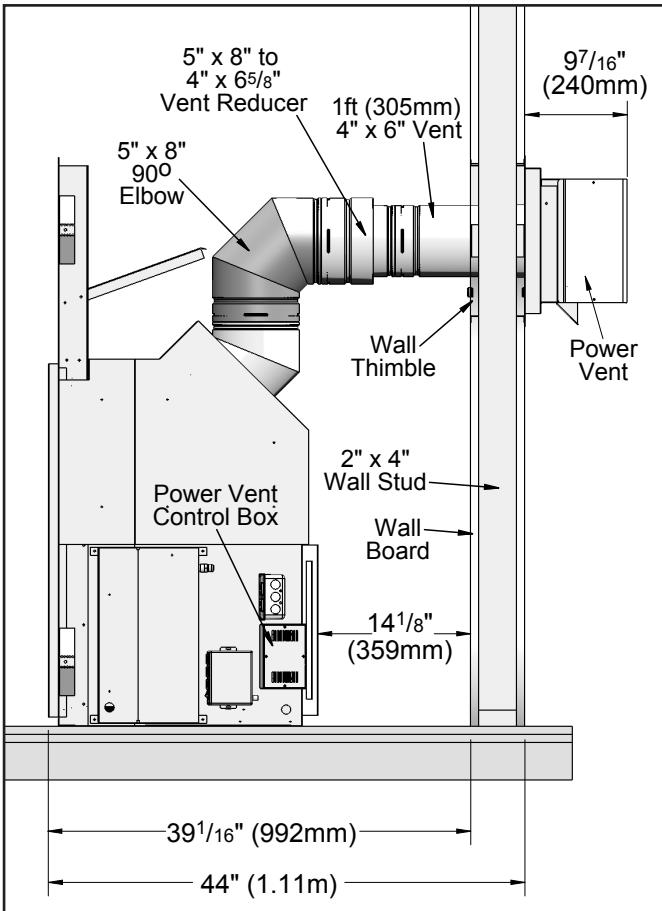
Figure 1b: DV62 Power Vent Kit's Parts Diagram.



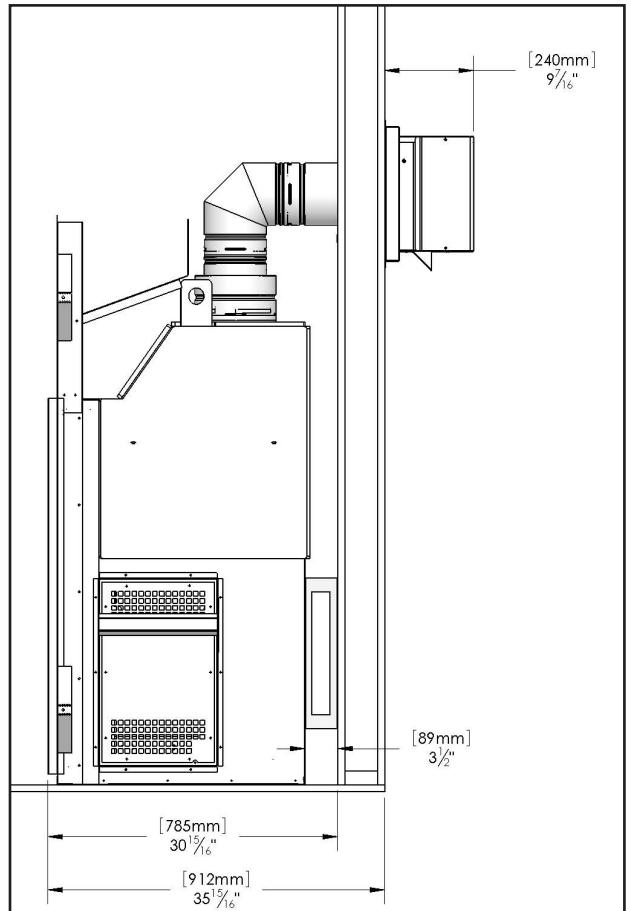
**Figure 2: DV48 Below-grade installation with maximum number of elbows.**



**Figure 3: DV62 Below-grade installation**

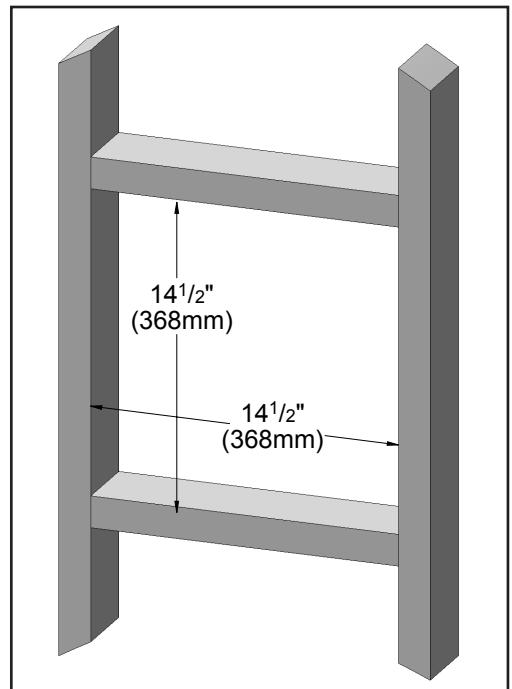


**Figure 4a: DV 48 Typical overall dimensions with minimum horizontal vent installed.**

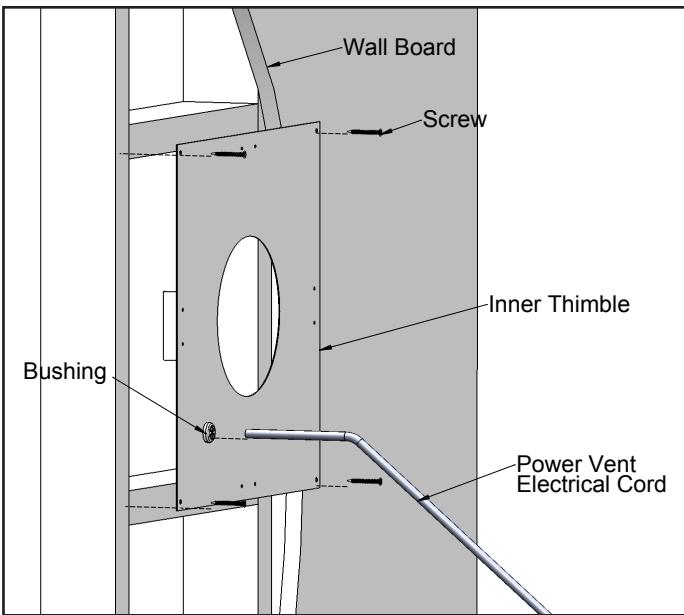


**Figure 4b: DV 62 Typical overall dimensions with minimum horizontal vent installed.**

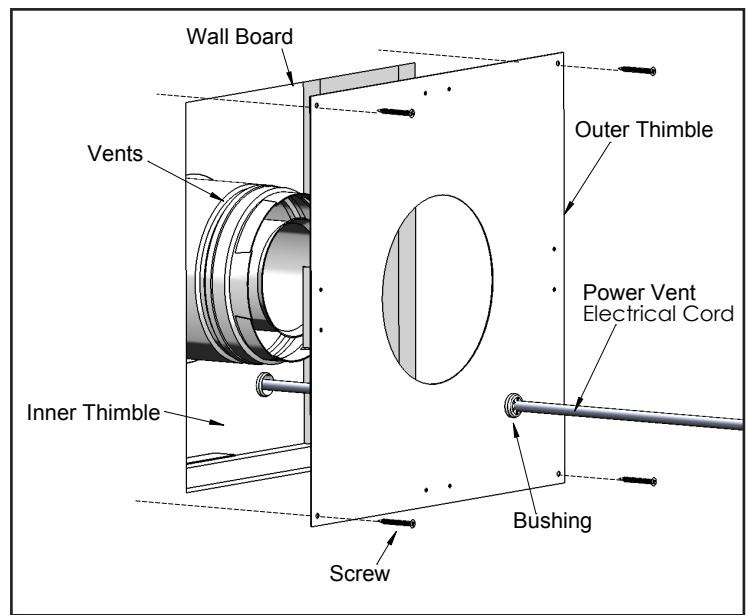
- 50 feet (15.25m) of cable is supplied with this kit, if more venting is required, use 50-2104 - DV48/DV62 100 feet (30.5m) PVK CABLE and connect it as shown on the wiring diagram in Figure 4.
  - Allow for an extra 24"-30" (60-75cm) of cable at the PVK control box for future servicing.
2. Reduce the venting size from 5" x 8" to 4" x 6 5/8" for DV48 or from 6" x 8 5/8" to 4" x 6 5/8" for DV62 with a vent reducer, see Figure 1.
  3. Using the dimensions in Figures 4 & 5, frame an opening for the thimble of 14 1/2" x 14 1/2" (368mm x 368mm).
  4. Insert a 2 ft (61cm) length of the power vent electrical cord through the bushing on the bottom left of the inner thimble, shown in Figure 6.
  5. Secure the inner thimble to the wall board with screws.
  6. Insert the rest of the power vent electrical cord through the bushing on the right bottom of the outer thimble, refer to Figure 7



**Figure 5: Thimble framing dimensions.**

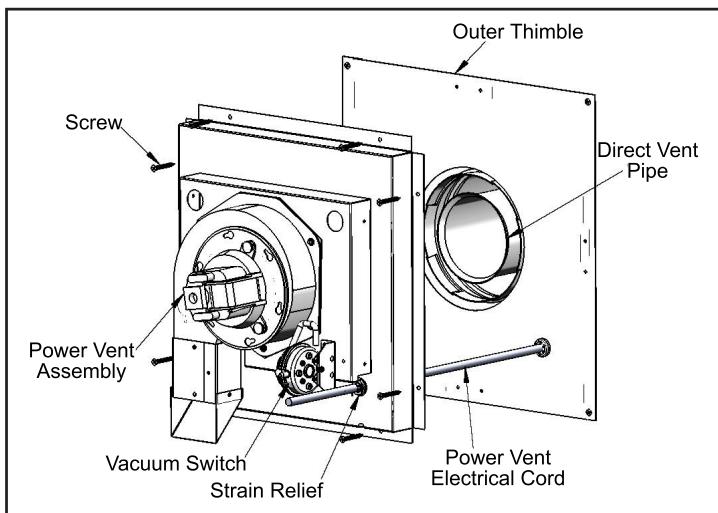


**Figure 6: Install the inner thimble and the power vent cords.**



**Figure 7: Install the outer thimble.**

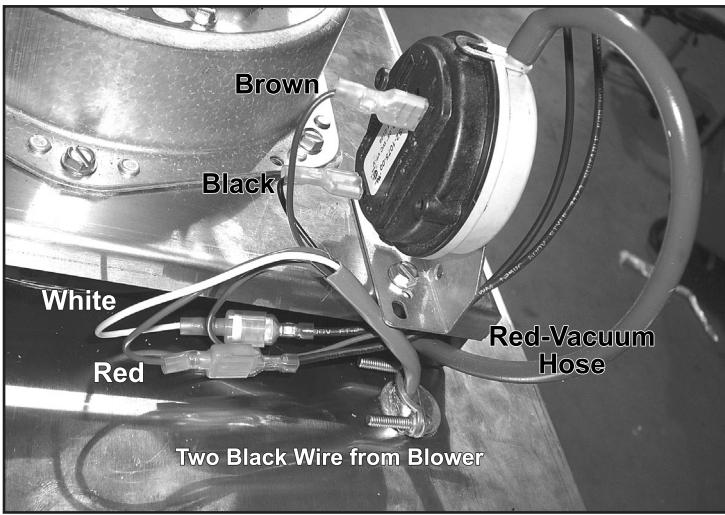
7. Assemble the outer thimble to the inner thimble and secure the outer thimble to the wall board with screws.
8. Insert the power vent electrical cord through the Strain Relief on the bottom right of the power vent assembly, refer to Figure 8.
9. Align the power vent assembly with the direct vent pipe that is protruding through the thimble.
10. Secure the power vent assembly in place with screws as seen in Figure 8.



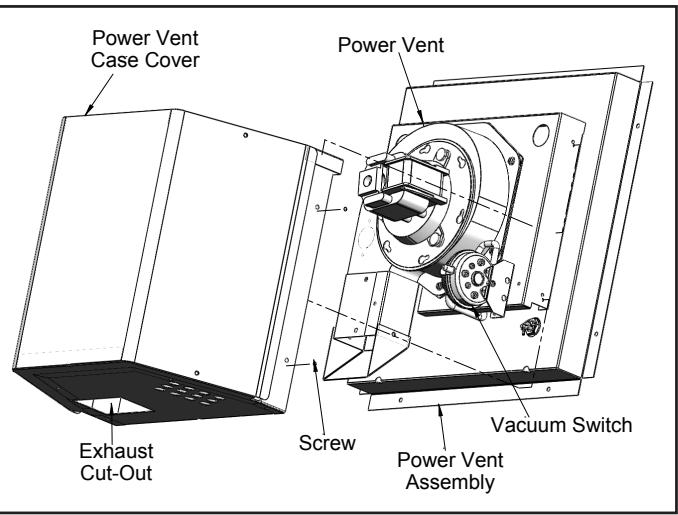
**Figure 8: Install the power vent.**



**Figure 9: Securing cord with the Strain Relief.**



**Figure 10: Fan and vacuum switch wired.**

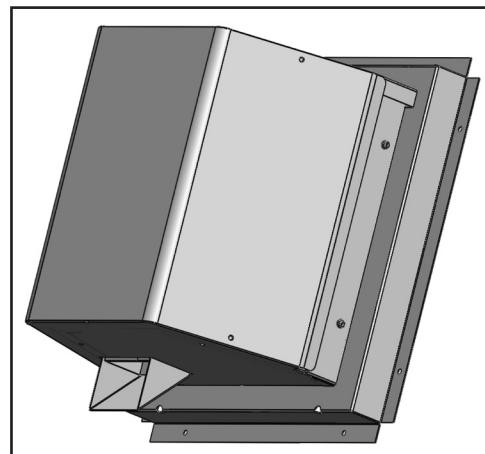


**Figure 11: Install the power vent cover case.**

11. Secure the cord to the Power Vent Assembly with the Strain Relief as shown in Figure 9.
12. Connect the wires to the fan, vacuum switch, and ground according to the wiring diagram in Figure 17. Secure the green ground wire as shown in Figure 9. Route the wires as shown in Figure 10 to prevent them from getting pinched.
13. Align the exhaust deflector with the exhaust cut out on the bottom of the power vent cover and install, refer to Figure 8, 11 and 12. Ensure that the rubber vacuum hose does not kink when installed.
14. Secure the cover to the power vent assembly with screws to the left and right sides of the assembly.
15. Remove the protective cover from the PVK Control Box Velcro and secure the power vent control box to the side of the DV48 as shown in Figure 1a. If the appliance is a DV62, place the power vent control box inside the control box of the appliance.



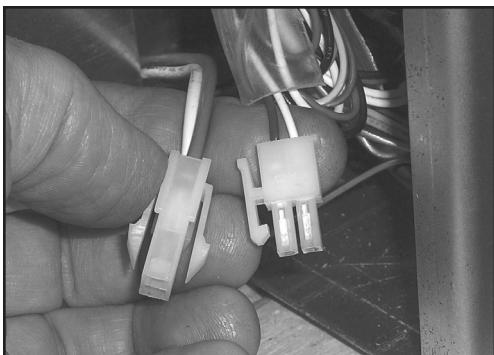
**Figure 13: Removing Access Cover.**



**Figure 12: Cover is installed to the power vent assembly.**

16. When using the 50-1970 Power Vent Kit, there is no need to have the Westgate DV48/DV62 set to continuous pilot, connect the 9V clip of the PVK to the 9V clip of the unit.

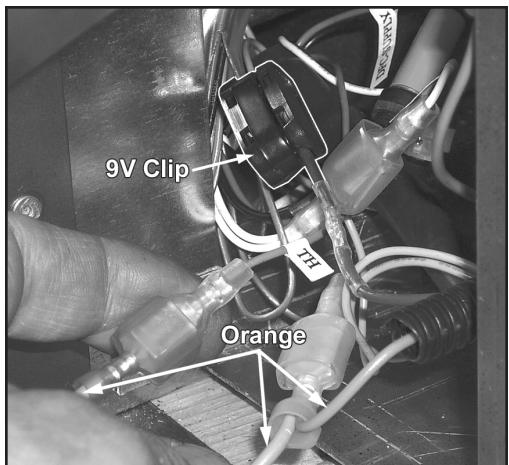
a) Remove the Access Cover from inside the firebox by removing all ten (10) T-20 screws (see Figure 13).



**Figure 14: Disconnecting Standing Pilot Switch.**

17. Plug the power cord from the PVK Control Box into the top outlet of the Electric Box on the side of the unit as shown in Figure 17.

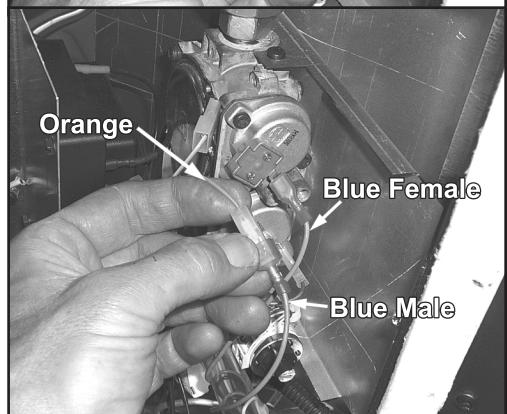
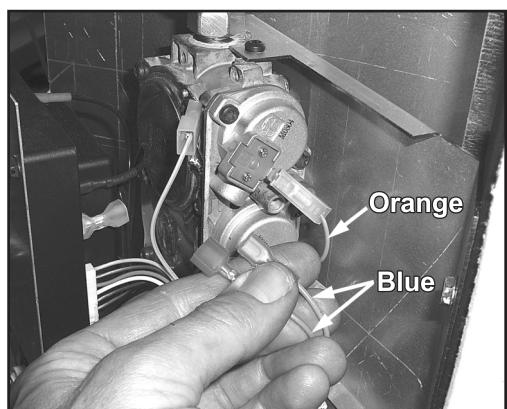
- b) Disconnect the connection to the Standing Pilot Switch as shown in Figure 14.
- c) Disconnect the TH wires from under the valve and plug in the two (2) orange wires as shown in Figure 15.
- d) Disconnect the  $\frac{3}{16}$ " connector from the valve and connect the two (2) blue wires as shown in Figure 16.



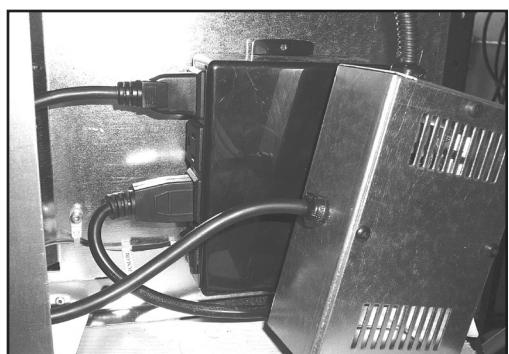
**Figure 15: Disconnecting TH Wire & Connecting Orange Wires.**

18. Reinstall the Side Access Cover and continue with the appliance Installation steps as shown in the Instruction Manual.

When installed, the Power Vent Kit, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.



**Figure 16: Changing Valve Wiring.**

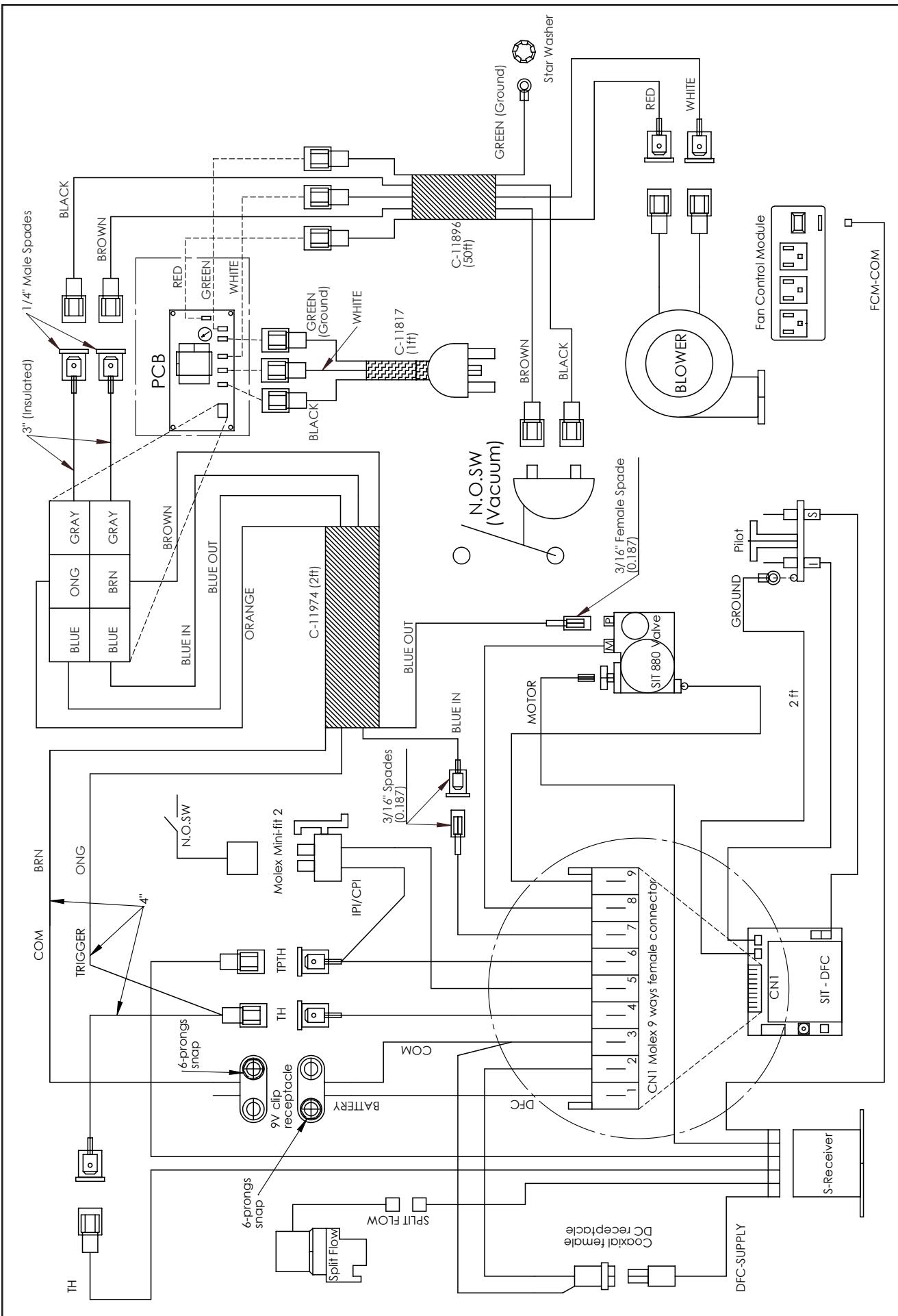


**Figure 17: Plugging PVK into Electric Box.**

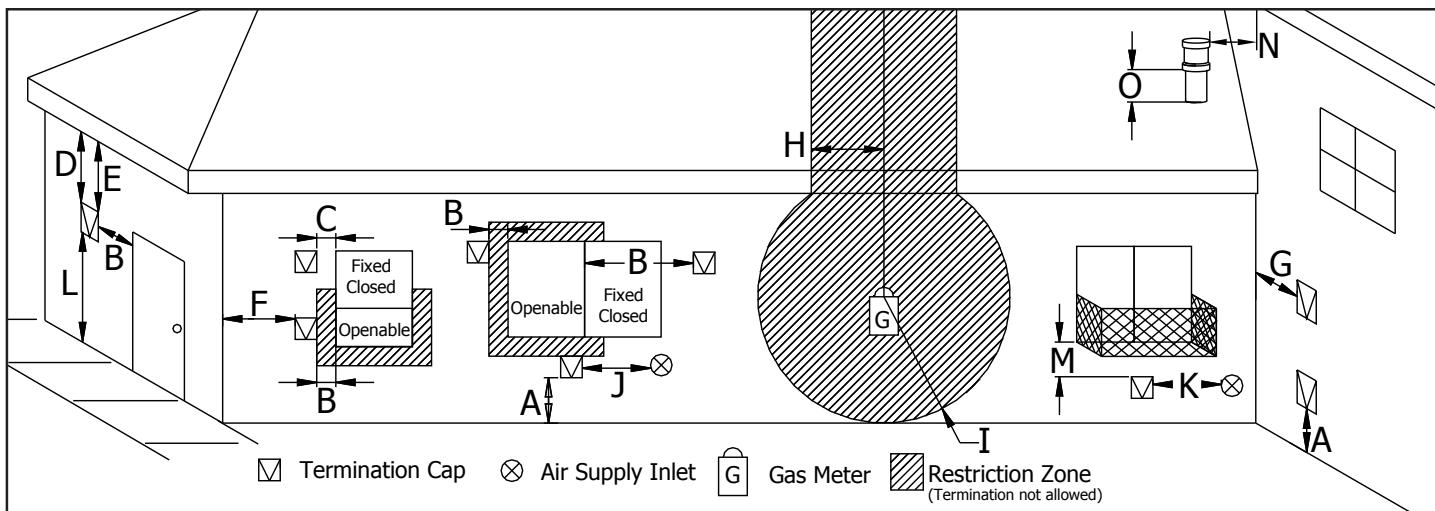
#### **WARNING: Electrical Grounding Instructions**

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

Periodic examination of venting systems should be done by a qualified agency.



**Figure 18: Wiring Schematic Diagram.**



**Figure 19. Vent Termination Restrictions, refer to Table 1.**

**Table 1: Vent termination clearances, refer to Figure 19.**

Letter	Canadian Installation <sup>1</sup>	US Installation <sup>2</sup>	Description
A	24 in (60 cm)		Clearance above grade, verandah, porch, deck, or balcony.
B	12 in (30 cm)	9 in (23 cm)	Clearance from window or door that may be opened.
C	12 in (30 cm)*		Clearance from permanently closed window (to prevent condensation).
D	4 in (10 cm)		Vertical clearance to ventilated soffit located above the terminal, within a horizontal distance of 2 ft (60 cm) from center line of terminal.
E	4 in (10 cm)		Clearance to unventilated soffit.
F	12 in (30 cm)*		Clearance to outside corner.
G	4 in (10 cm)		Clearance to inside corner.
H	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/regulator assembly	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/regulator assembly*	Clearance to each side of center line extended above meter/regulator assembly.
I	3 ft (91 cm)	3 ft (91 cm)*	Radial clearance around service regulator vent outlet.
J	12 in (30 cm)	9 in (23 cm)	Clearance to non-mechanical air supply inlet to building, or the combustion air inlet to any other appliance.
K	6 ft (1.83 m)	3 ft (91 cm) above if within 10 ft (3 m) horizontally	Clearance to mechanical air supply inlet.
L	7 ft (2.13 m) <sup>t</sup>	7 ft (2.13 m) <sup>*t</sup>	Clearance above paved sidewalk or paved driveway located on public property.
M	19½ in (49 cm) <sup>+</sup>		Clearance under verandah, porch, deck, or balcony.

<sup>1</sup> In accordance with the current CSA B149, Natural Gas and Propane Installation Code.

<sup>2</sup> In accordance with the current ANSI Z223.1 NFPA 54, National Fuel Gas Code.

\* These numbers are only estimates. Clearance in accordance with installation codes and the requirements of the gas supplier.

<sup>t</sup> A vent shall not terminate directly above a side walk or paved driveway that is located between two single family dwellings and it serves both dwellings.

<sup>+</sup> Permitted only if verandah, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

**NOTE: Venting terminals shall not be recessed into walls or siding.**