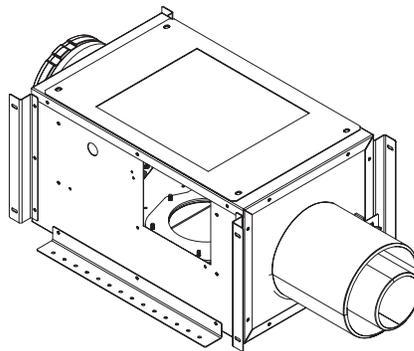


PVI-SLP

Power Vent Inline

- Installation Instructions -



GAS-FIRED



NOTICE

DO NOT DISCARD THIS MANUAL



- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



1 Introduction

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1 Introduction

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IMPORTANT: Failure to read and follow these instructions may create a possible hazard and will void the fireplace warranty.

THESE INSTRUCTIONS MUST REMAIN WITH THE EQUIPMENT.

CAUTION! Risk of Cuts or Abrasions. Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

INTRODUCTION

The Power Vent Inline (PVI-SLP) is certified for use only on fireplaces manufactured by Hearth & Home Technologies with IPI (intermittent pilot ignition) gas controls and is for use only on top-vented applications. Fireplaces equipped with millivolt type gas controls CANNOT use this product.

Note: The battery back-up feature of the IPI system is removed when the PVI-SLP power vent is installed. The fireplace may no longer be operated with battery back-up.

The PVI-SLP operates on 120VAC, 60Hz electrical service which is supplied at the fireplace junction box.

IMPORTANT OPERATIONAL NOTE: When the control being used to run the fireplace is activated, a 30 second delay will occur before ignition occurs. This is to allow a pre-purge by the PVI-SLP. If fireplace does not light after 60 seconds, refer to the Troubleshooting section of this instruction for further direction. If a remote is being used, there will also be a 120 second post-purge in which the PVI-SLP will continue to run after appliance is turned off.

A. Components and Service Parts List

Service Parts List

Replacement parts can be obtained from your dealer. Repair of the Power Vent should only be done by a qualified service technician.

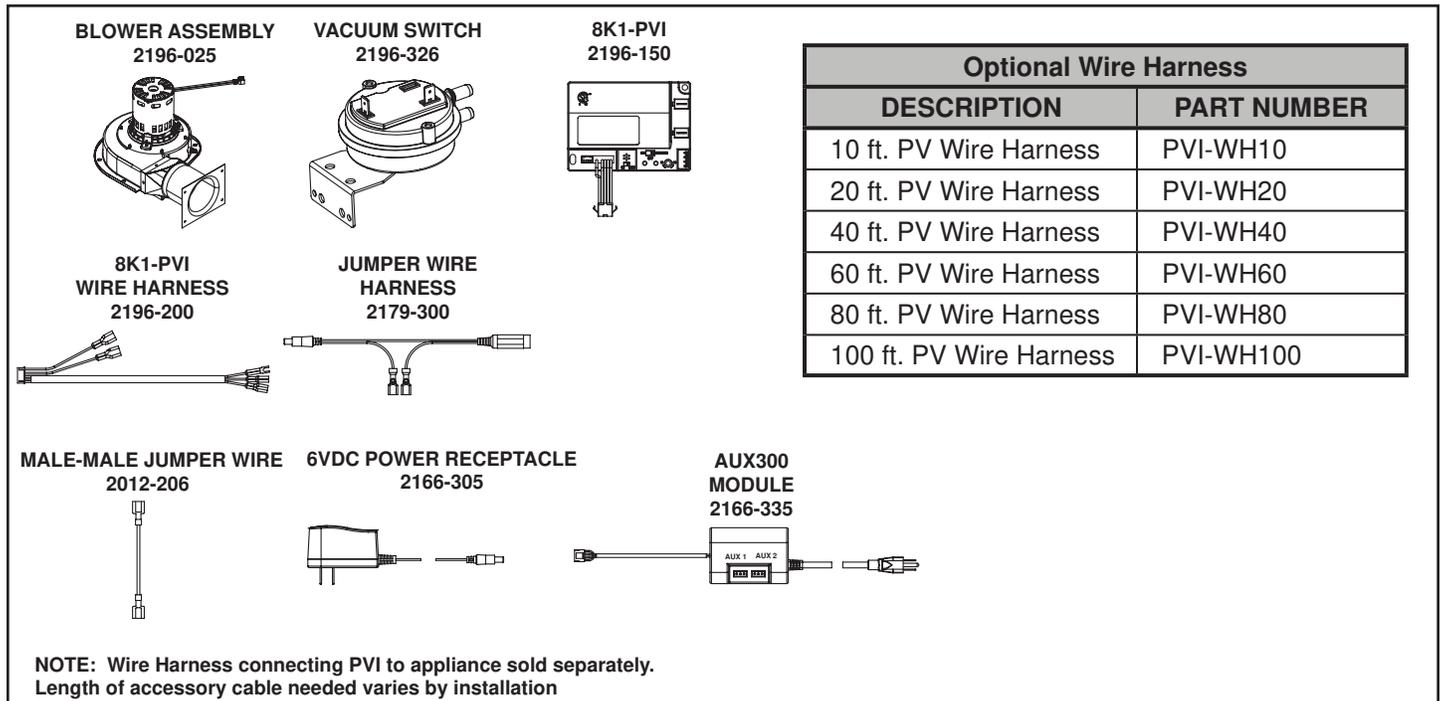


Figure 1

B. Installation of PVI-SLP

1. INSTALLATION PRECAUTIONS

- This device must be installed by a qualified installer in accordance with these instructions.
- Safety inspection of the venting system should be performed before and after installation of this power vent. Consult local code officials and follow applicable installation codes.
- DO NOT INSTALL DAMAGED EQUIPMENT OR VENT COMPONENTS.**
- Disconnect electrical power supply before making wiring connections.
- Venting of more than one appliance in a common vent system is prohibited.
- Clearances between the vent pipe and combustible materials must be maintained at 1-1/2-inch top, 1-inch sides and bottom.
- All outer pipe joints must be sealed with high temperature silicone. See Section 2.A.
- The access panel opening must be located such that access for service and adjustment is available. The NEC requires a minimum of 30 inches of space around the opening and 36 inches in front of the opening to the access panel. Consult officials having jurisdiction regarding regional requirements.

CAUTION: Failure to install, operate, and maintain the power venting system in accordance with manufacturer's instructions will result in conditions which may produce bodily injury and/or property damage.

2. INSTALLATION GUIDELINES

WARNING: RISK OF FIRE AND BURNS. DO NOT install PVI-SLP with the access panel facing upward. Overheating may occur.

- If the PVI-SLP is being installed in a confined space (such as a utility closet, mechanical room or attic space) with a total volume less than 250 cubic feet, an 8 inch by 16 inch hole will be required directly in front of the access panel. The confined space where the PVI is installed, and the space to which the access hole opens, must add up to at least 250 cubic feet. This hole may be covered with a decorative cover as long as the cover has a minimum of 30% open air. If the PVI-SLP is being installed in a space greater than 250 cubic feet the 8 inch by 16 inch access hole is still required, but a solid cover may be used. This also applies to a fireplace chase. The decorative cover **CANNOT** be located on an outside wall that is open to the environment.
- For installations near loose-fill insulation (such as attics) a minimum clearance of six inches must be maintained between the access panel and the insulation.
- The PVI-SLP **CANNOT** be installed with the access panel facing upward.
- The exit termination of mechanical draft systems shall not be less than seven feet above grade when located adjacent to public walkways and at least ten feet from lot line or adjacent buildings.
- A mechanical drafting venting system shall terminate at least three feet above any forced air inlet located within 10 feet.

2 Vent Information and Diagrams

A. Installation of Vent Pipe

For information on standard procedures for venting the appliance, refer to the "Vent Information and Diagrams" section of the appliance installation manual.

For the allowable pipe lengths and elbow combinations for an appliance utilizing the PVI-SLP, consult the Power Vent diagrams in the Vent Information and Diagrams section of the appliance installation manual. The PVI-SLP uses SLP pipe (6-5/8 inch) connections for both the inlet and outlet.

The following termination caps are available for use with the power vent inline (PVI-SLP): SLP-TVHW, SLP-LPC, SLP-TRAP, SLP-HHW2, SLP-HRC-SS, SLP-HRC-ZC-SS. Check installation manual for termination caps specifications.

In certain cases, a pipe adapter may be needed for the vent run. The DVP-2SL adapts from 5 in. / 8 in. DVP series starting collars to 4 in. / 6-5/8 in. SLP series vent pipe.

All outer pipe joints must be sealed with high temperature silicone, including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant inside the female outer pipe joint prior to joining sections. See Figure 2.1.
- Only outer pipes need to be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.

Top Vent - Horizontal Termination



Figure 2.1 High Temperature Silicone Sealant

B. Vent/Pipe Regulations

1. A minimum of one 90 degree elbow and 2 total feet of straight horizontal or straight vertical venting is required between the appliance and the PVI-SLP. Once this requirement is met, the PVI-SLP may be placed at any point in the venting configuration.
2. A minimum of 18 inches is required between the PVI-SLP and the termination cap to allow room for the pipe to go through a wall or roof.
3. If PVI-SLP is installed in the vertical position, a minimum of two 90 degree elbows and two feet of pipe is required between the appliance and the PVI-SLP.
4. Total allowable length decreases by 2 ft. for every 1 ft. of vertical drop.

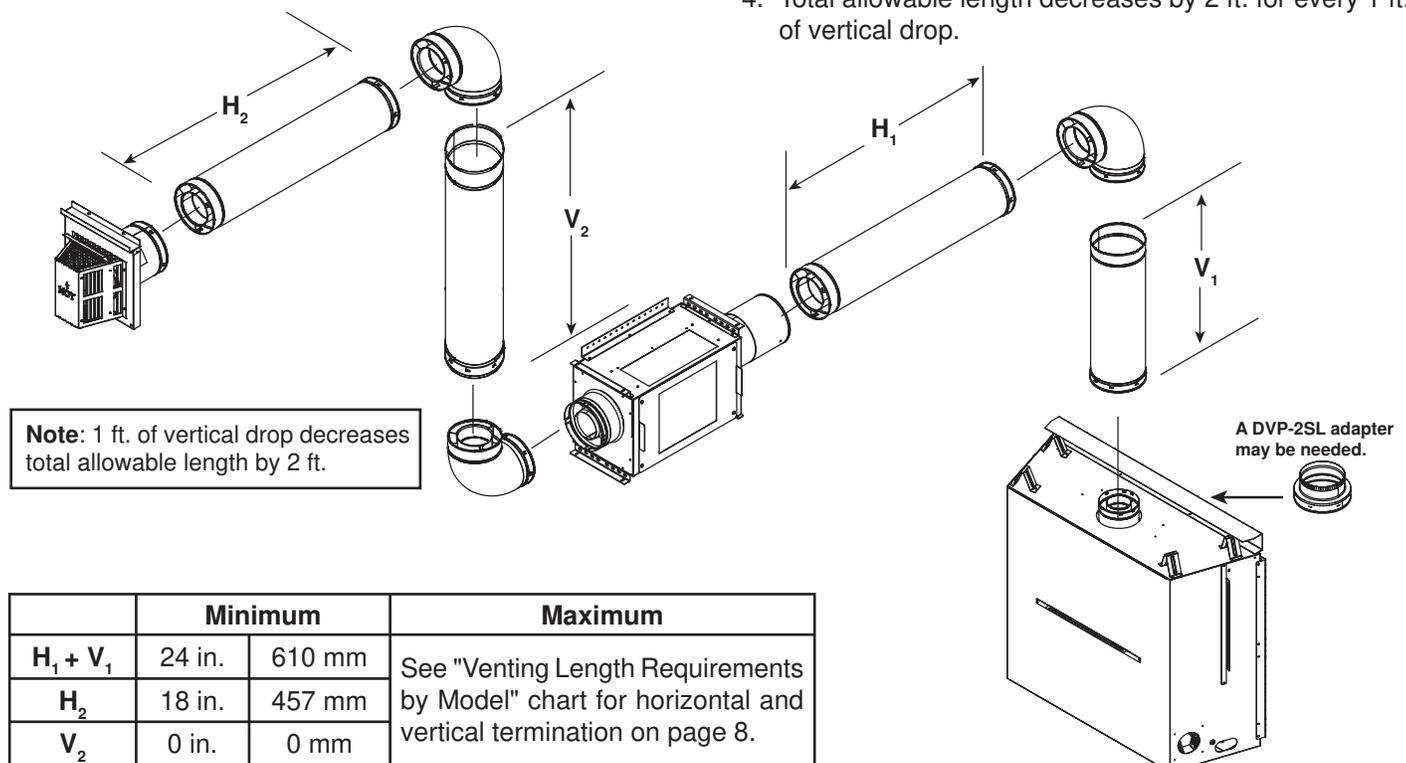
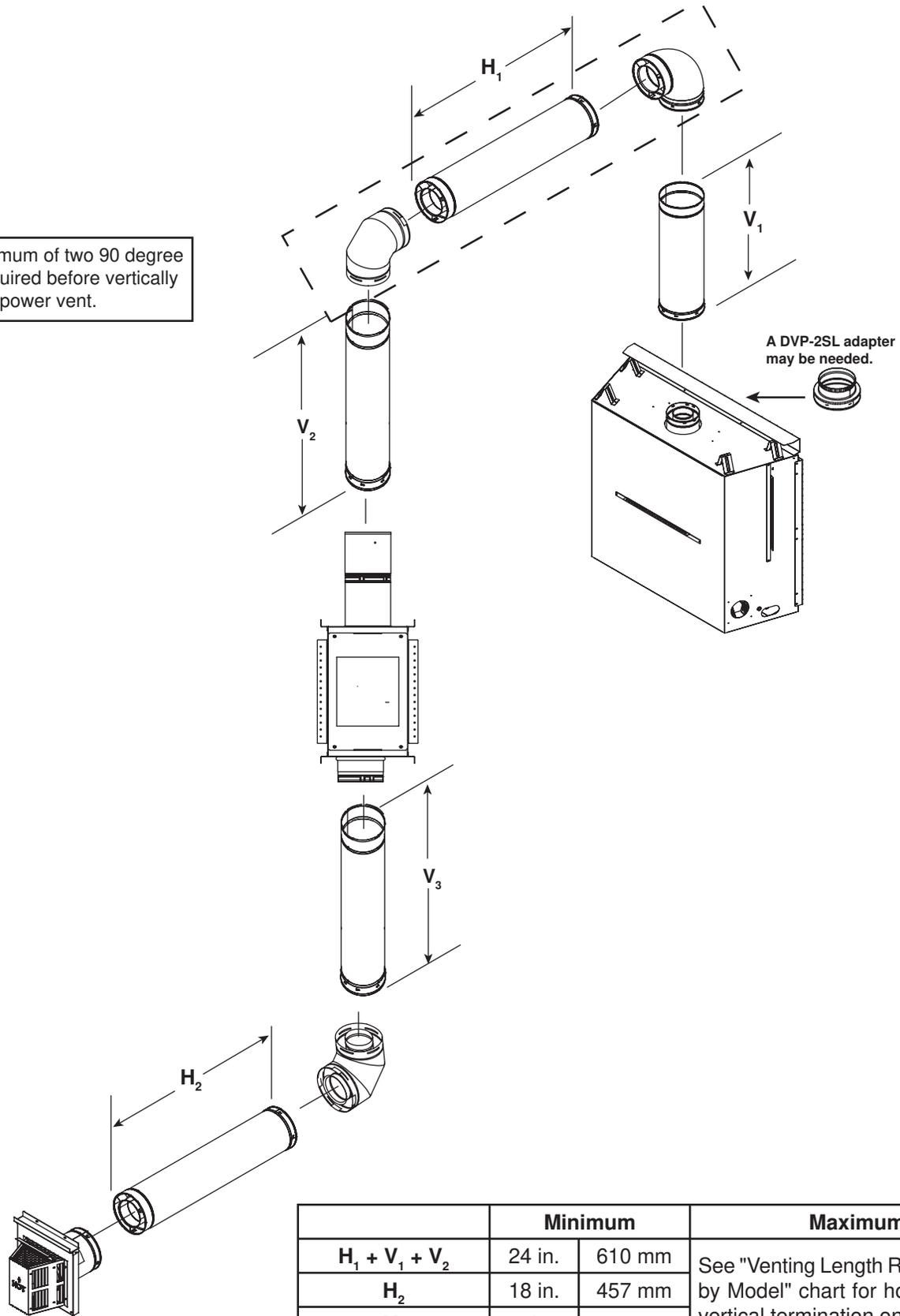


Figure 2.2

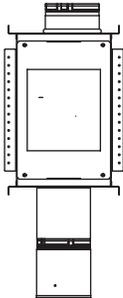
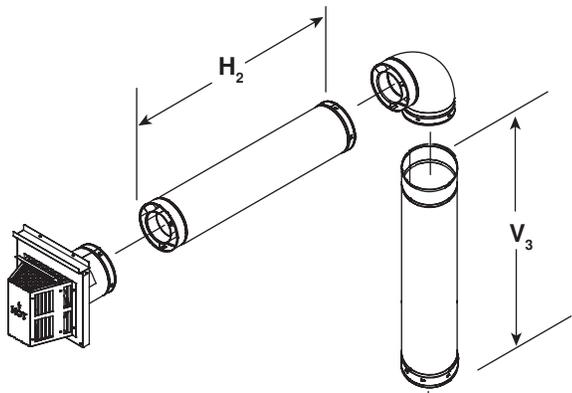
Note: Minimum of two 90 degree elbows required before vertically positioned power vent.



Note: 1 ft. of vertical drop decreases total allowable length by 2 ft.

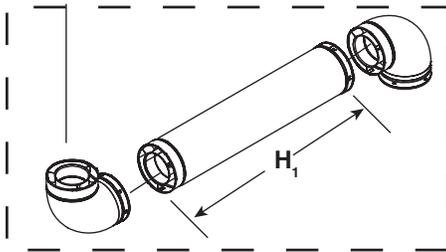
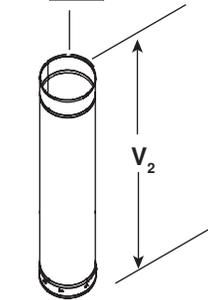
Figure 2.3

Top Vent - Horizontal Termination - (continued)

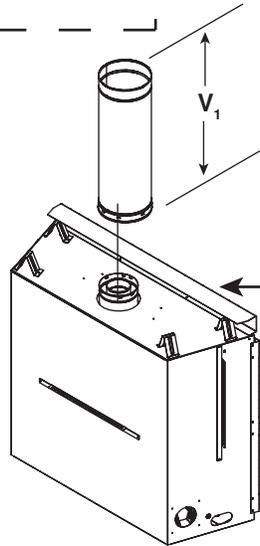


	Minimum		Maximum
$H_1 + V_1 + V_2$	24 in.	610 mm	See "Venting Length Requirements by Model" chart for horizontal and vertical termination on page 8.
V_3	0 in.	0 mm	
H_2	18	457 mm	

Note: 1 ft. of vertical drop decreases total allowable length by 2 ft.



Note: Minimum of two 90 degree elbows required before vertically positioned power vent.



A DVP-2SL adapter may be needed.

Figure 2.4

Top Vent - Vertical Termination

	Minimum		Maximum
$H_1 + V_1$	24 in.	610 mm	See "Venting Length Requirements by Model" chart for horizontal and vertical termination on page 8.
V_2	18 in.	457 mm	See "Venting Length Requirements by Model" chart for horizontal and vertical termination on page 8.
H_{TOTAL}	0	0	30% of Total Vent length allowed in "Venting Length Requirements by Model" chart for horizontal and vertical termination on page 8.

Note: 1 ft. of vertical drop decreases total allowable length by 2 ft.

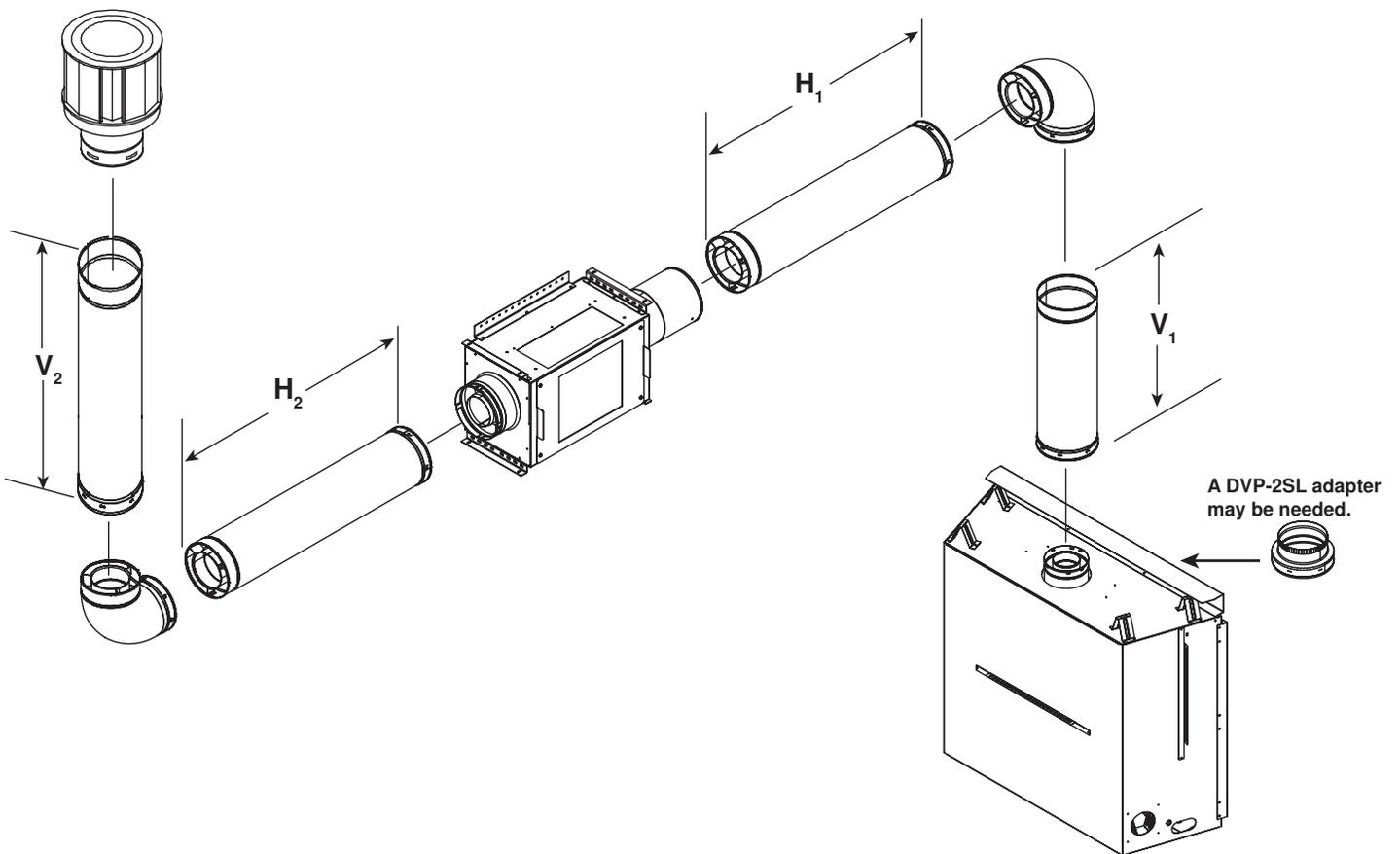


Figure 2.5

Top Vent - Vertical Termination - (continued)

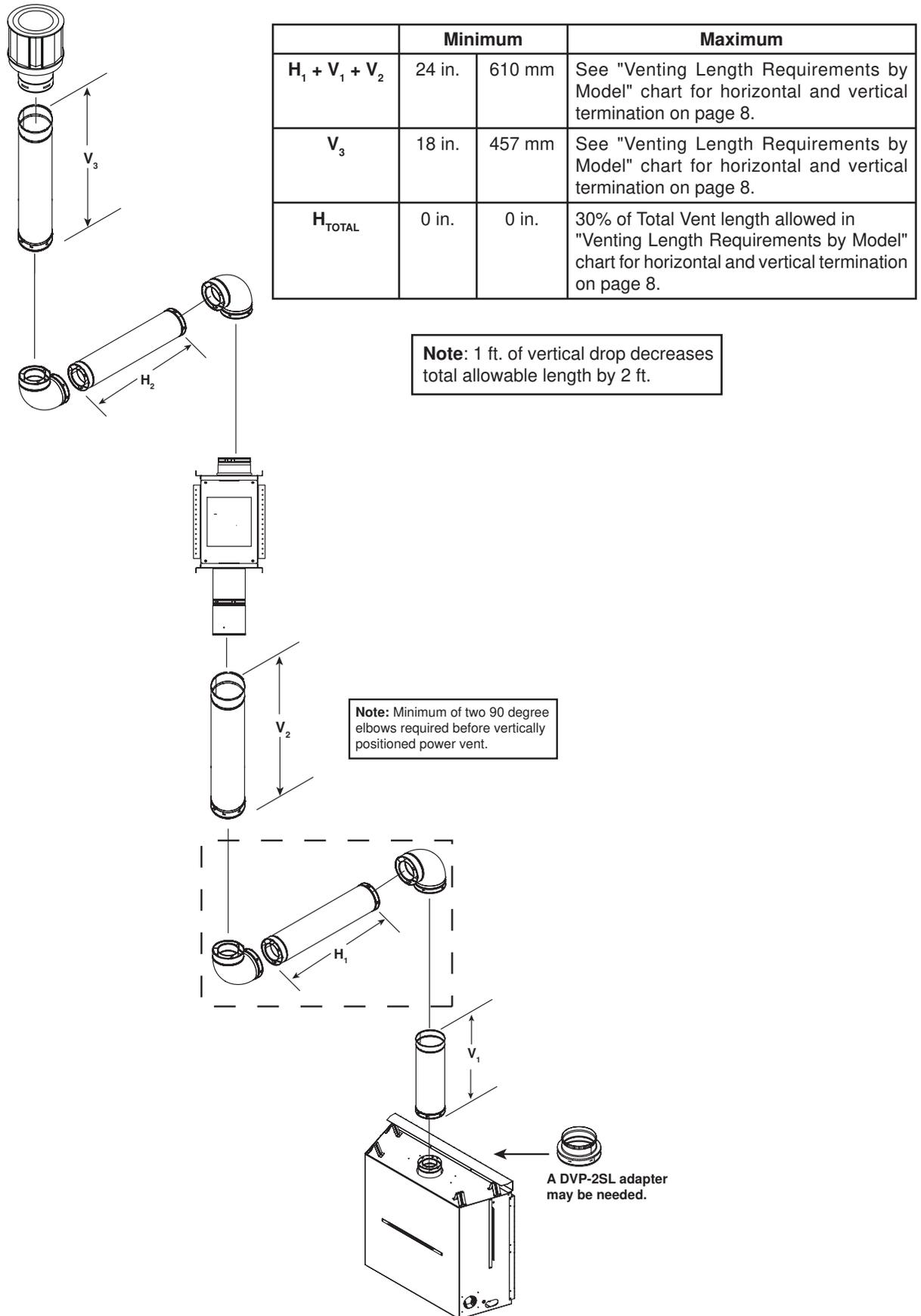


Figure 2.6

Venting Length Requirements by Model- Horizontal Terminaton

The Model Category (1 or 2) in Table 2.1 corresponds with the number on the Vent Length Requirement Chart In Tables 2.2 and 2.3.

HEAT & GLO		HEATILATOR	
Category 1	Category 1 & 2	Category 1	Category 1 & 2
SL-550TR, SL-750TR, SL-950TR	SLR-B	NDV3630, NDV3933, NDV4236, NDV4842	RAVE4013i
6000C, 6000CL, 6000CLX		CD4236, CD4842	
8000C, 8000CL, 8000CLX		CNXT4236, CNXT4842	
SL-550METRO		NEVO3630, NEVO4236	
DV3732SBI		DV3732SBI	

Table 2.1 Models

Horizontal Termination*														
Total Venting Length (Feet) Includes both horizontal and vertical section of pipe														
# of Elbows	10	20	30	40	50	60	70	80	90	100	110	120	130	140
1	1	1	1	1	1	1	1	1	1	1	2			
2	1	1	1	1	1	1	1	1	1	2				
3	1	1	1	1	1	1	1	1	1					
4	1	1	1	1	1	1	1	1	2					
5	1	1	1	1	1	1	1	1						
6	1	1	1	1	1	1	1	2						
7	1	1	1	1	1	1	1	2						
8	1	1	1	1	1	1	1							
9	1	1	1	1	1	1	1							
10	1	1	1	1	1	1	2							
11	1	1	1	1	1	1								
12	1	1	1	1	1	1								

Table 2.2 Allowable Vent Runs - Horizontal Termination

Venting Length Requirements by Model- Vertical Terminaton

The Vertical Termination venting chart can be used for all models with vertical termination.

VERTICAL TERMINATION*														
TOTAL VENTING LENGTH (feet)														
includes both horizontal and vertical section of pipe														
# of Elbows	10	20	30	40	50	60	70	80	90	100	110	120	130	140
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	1	1	1	1	1	1	1	1	1	1	1	1		
4	1	1	1	1	1	1	1	1	1	1	1	1		
5	1	1	1	1	1	1	1	1	1	1	1			
6	1	1	1	1	1	1	1	1	1	1				
7	1	1	1	1	1	1	1	1	1	1				
8	1	1	1	1	1	1	1	1	1					
9	1	1	1	1	1	1	1	1	1					
10	1	1	1	1	1	1	1	1						
11	1	1	1	1	1	1	1	1						
12	1	1	1	1	1	1	1							

Table 2.3 Allowable Vent Runs - Vertical Termination

C. Vent Termination Minimum Clearances

⚠ WARNING

Fire Risk.
Maintain vent clearance to combustibles as specified.

- DO NOT** pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe may cause overheating and fire.

Roof Pitch	H (Min.) Ft.
Flat to 6/12.....	1.0*
Over 6/12 to 7/12.....	1.25*
Over 7/12 to 8/12.....	1.5*
Over 8/12 to 9/12.....	2.0*
Over 9/12 to 10/12.....	2.5
Over 10/12 to 11/12.....	3.25
Over 11/12 to 12/12.....	4.0
Over 12/12 to 14/12.....	5.0
Over 14/12 to 16/12.....	6.0
Over 16/12 to 18/12.....	7.0
Over 18/12 to 20/12.....	7.5
Over 20/12 to 21/12.....	8.0

* 3 foot minimum in snow regions

Figure 6.1 Minimum Height From Roof To Lowest Discharge Opening

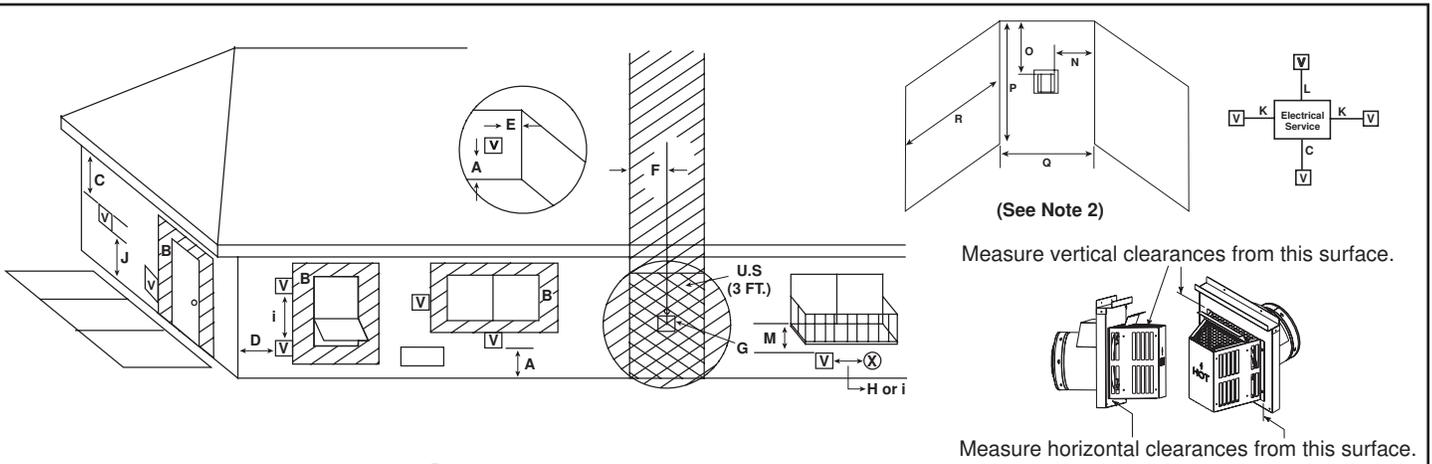
A	B
6 in. (minimum) up to 20 in. 152 mm/508 mm	18 in. minimum 457 mm
20 in. and over	0 in. minimum

Gas, Wood or Fuel Oil Termination Cap

* If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.

** In a staggered installation with both gas and wood terminations, the wood termination cap must be higher than the gas termination cap.

Figure 6.2 Staggered Termination Caps



V = VENT TERMINAL **X** = AIR SUPPLY INLET = AREA WHERE TERMINAL IS NOT PERMITTED

- A = 12 inches.....clearances above grade, veranda, porch, deck or balcony (See Note 1)
- B = 12 inches.....clearances to window or door that may be opened, or to permanently closed window. (Glass)
- C = 18 inches.....vertical clearance to unventilated soffit or to ventilated soffit located above the terminal
30 inches.....for vinyl clad soffits and below electrical service
- D = 9 inches.....clearance to outside corner
- E = 6 inches.....clearance to inside corner
- F = 3 ft. (Canada).....not to be installed above a gas meter/regulator assembly within 3 feet (90 cm) horizontally from the center-line of the regulator
- G = 3 ft.....clearance to gas service regulator vent outlet
- H = 9 inches (U.S.A.)
12 inches (Canada) clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance (See Note 6)
- i = 3 ft. (U.S.A.)
6 ft. (Canada).....clearance to a mechanical (powered) air supply inlet (See Note 6)

- J** = 7 ft.....clearance above paved sidewalk or a paved driveway located on **public** property (See Note 1)
- K = 6 inches.....clearance from sides of electrical service (See Note 5)
- L = 12 inches.....clearance above electrical service (See Note 5)

Covered Alcove Applications

- M*** = 18 inchesclearance under veranda, porch, deck, balcony or overhang
42 inches vinyl
- N = 6 inches non-vinyl sidewalls
12 inches vinyl sidewalls
- O = 18 inches non-vinyl soffit and overhang
42 inches vinyl soffit and overhang
- P = 8 ft.

	Q_{MIN}	R_{MAX}
1 cap	3 feet	2 x Q _{ACTUAL}
2 caps	6 feet	1 x Q _{ACTUAL}
3 caps	9 feet	2/3 x Q _{ACTUAL}
4 caps	12 feet	1/2 x Q _{ACTUAL}

Q_{MIN} = # termination caps x 3 **R_{MAX}** = (2 / # termination caps) x Q_{ACTUAL}

** a vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.

*** only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor, or meets Note 2.

Note 1: On private property where termination is less than 7 feet above a sidewalk, driveway, deck, porch, veranda or balcony, use of a listed cap shield is suggested. (See vents components page)

Note 2: Termination in a covered alcove space (spaces open only on one side and with an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. **1.** There must be 3 feet minimum between termination caps. **2.** All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. **3.** All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.

Note 3: Local codes or regulations may require different clearances.

Note 4: Termination caps may be hot. Consider their proximity to doors or other traffic areas.

Note 5: Location of the vent termination must not interfere with access to the electrical service.

Note 6: **1.** There must be 3 feet minimum between termination caps. **2.** All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. **3.** All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.

In the U.S and Canada: Vent system termination is **NOT** permitted in screened porches.

Vent system termination is permitted in porch areas with two or more sides open. You must follow all side walls, overhang and ground clearances as stated in the instructions.

Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

Figure 6.3 Minimum Clearances for Termination

CAUTION: IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS SUGGESTED THAT A VINYL PROTECTOR KIT BE INSTALLED.

3 Framing and Clearances

A. Framing and Clearances

Note: The factory-installed mounting brackets must be used to install the PVI-SLP securely to adjacent structures.

Chassis Dimensions

The dimensions are measured as shown in Figure 3.1 and listed in Table 3.1 when the PVI-SLP is vertically positioned.

Height	Width	Depth
18-7/8 in.	11-5/8 in.	10-1/2 in.

Table 3.1.

Framing Dimensions

WARNING! Risk of fire and burns! DO NOT install PVI-SLP with the access panel facing upward. Overheating may occur.

Table 3.2 and Figure 3.1 show the clearances required for the PVI-SLP. Required clearances are the same for all allowable PVI-SLP orientations.

Height	Width	Depth
20-7/8 in.	13-5/8 in.	12 in.

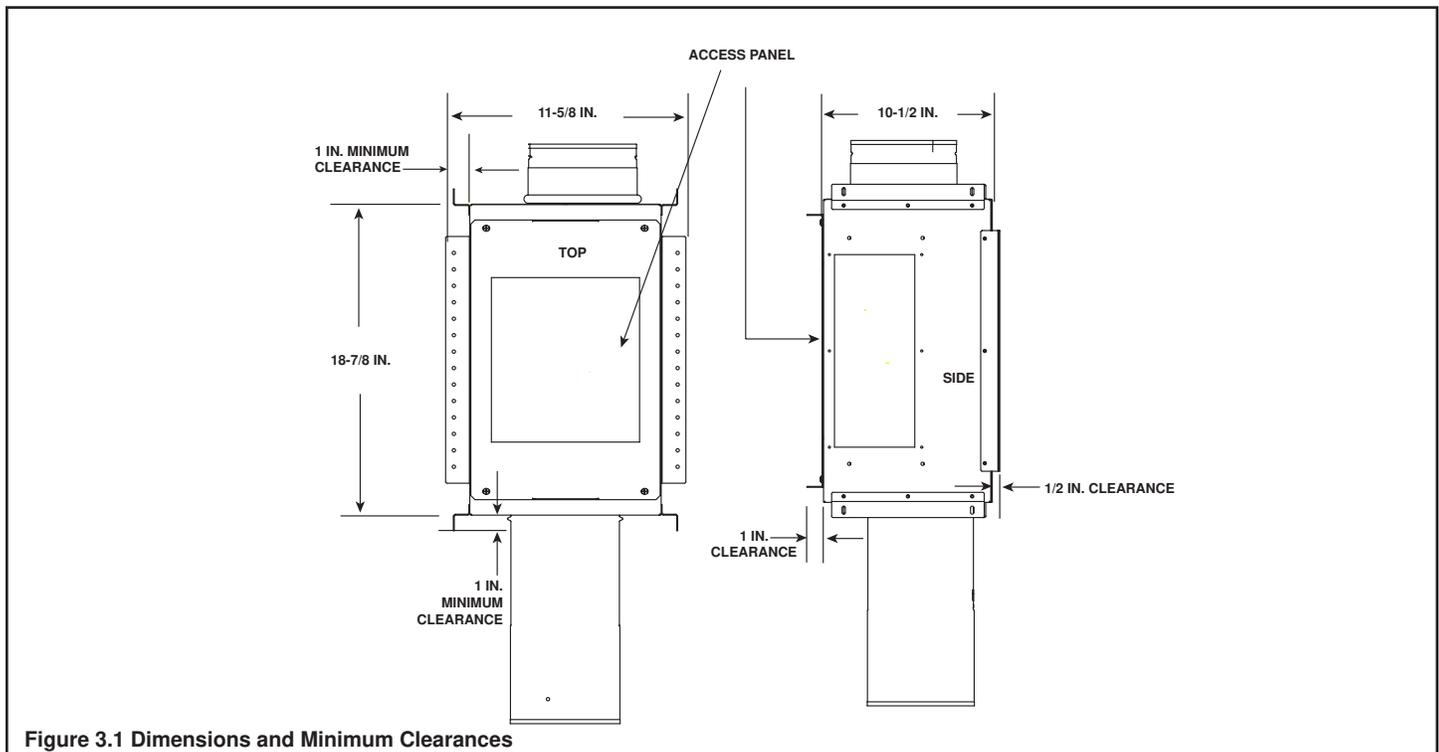
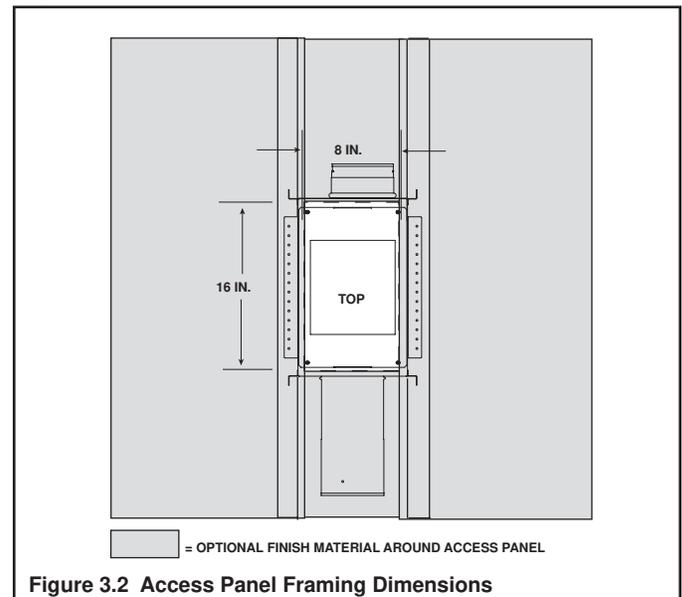
Table 3.2.

If the PVI-SLP is being installed in a confined space (such as a utility closet, mechanical room or attic space) with a total volume less than 250 cubic feet, an 8 inch by 16 inch hole will be required directly in front of the access panel. The confined space where the PVI is installed, and the space to which the access hole opens, must add up to at least 250 cubic feet. This hole may be covered with a decorative cover as long as the cover has a minimum of

30% open air. If the PVI-SLP is being installed in a space greater than 250 cubic feet the 8 inch by 16 inch access hole is still required, but a solid cover may be used. This also applies to a fireplace chase. See Figure 3.2.

If the PVI-SLP is being installed in a space greater than 250 cubic feet, the 8 inch by 16 inch access hole is still required, but a solid cover may be used.

The access panel opening must be located such that access for service and adjustment is available. The NEC requires a minimum of 30 inches of space around the opening and 36 inches in front of the opening to the access panel. Consult officials having jurisdiction regarding regional requirements.



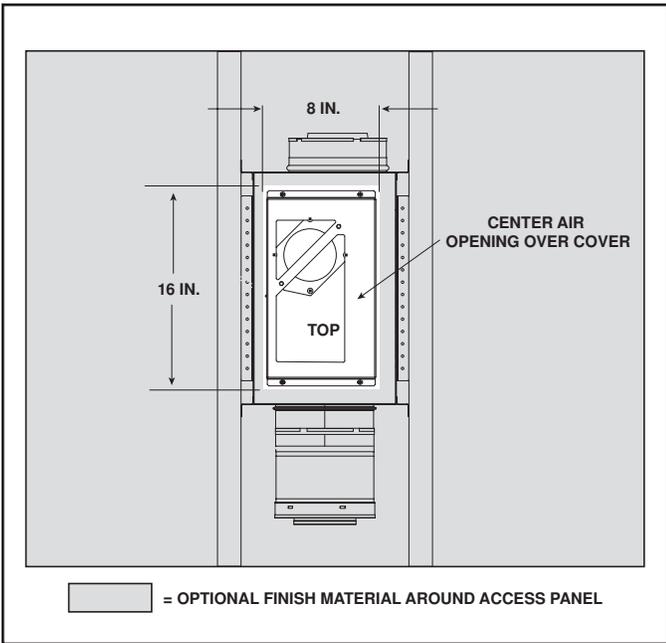


Figure 3.3 Access Panel Framing Dimensions

Figures 3.4 - 3.6 show possible framing techniques.

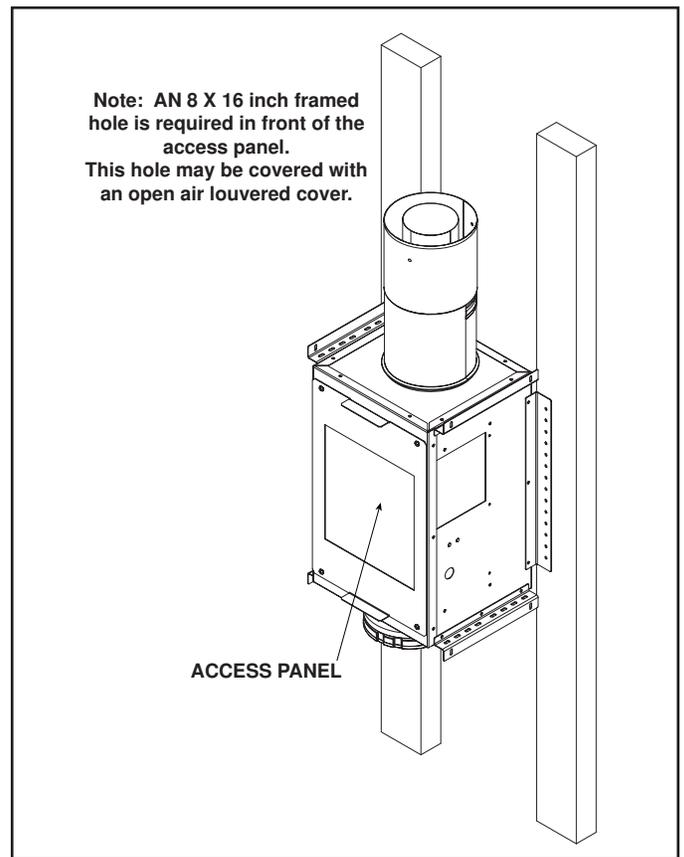


Figure 3.5 PVI-SLP Mounted to Vertical Surface

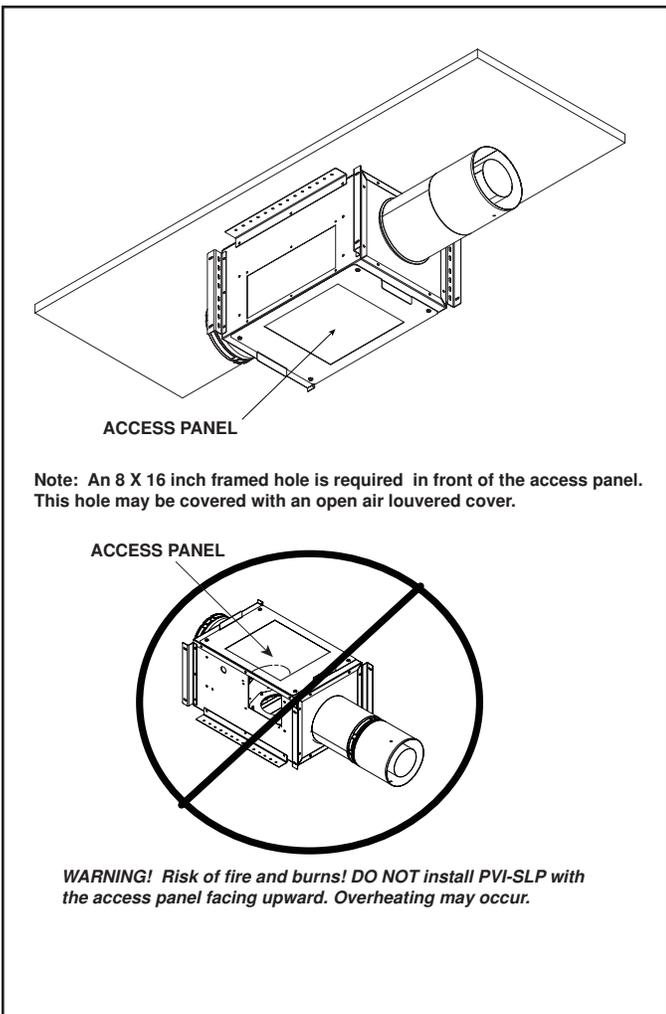


Figure 3.4 PVI-SLP Mounted to Horizontal Surface

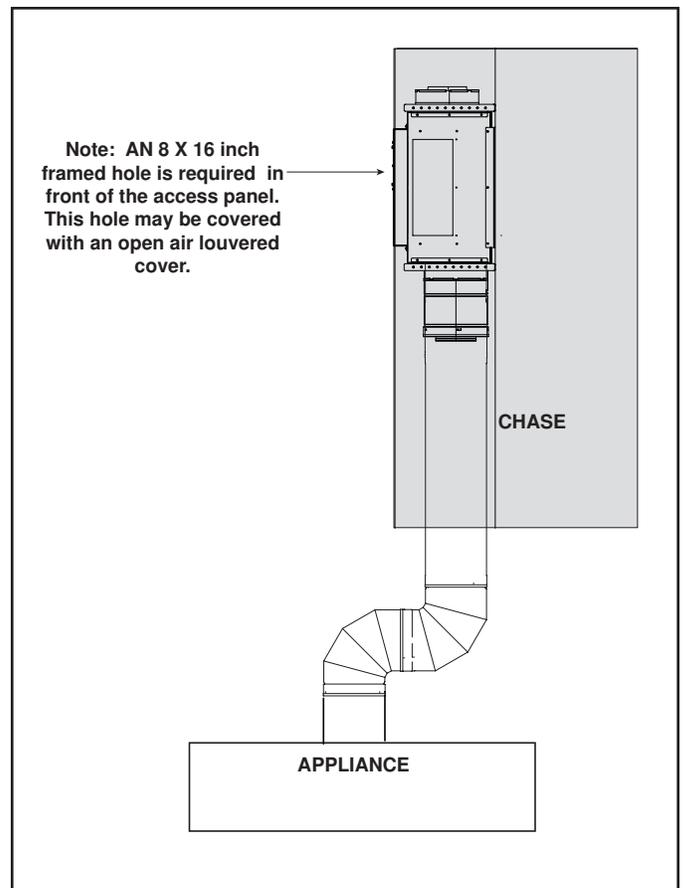


Figure 3.6 Mount PVI-SLP to Chase

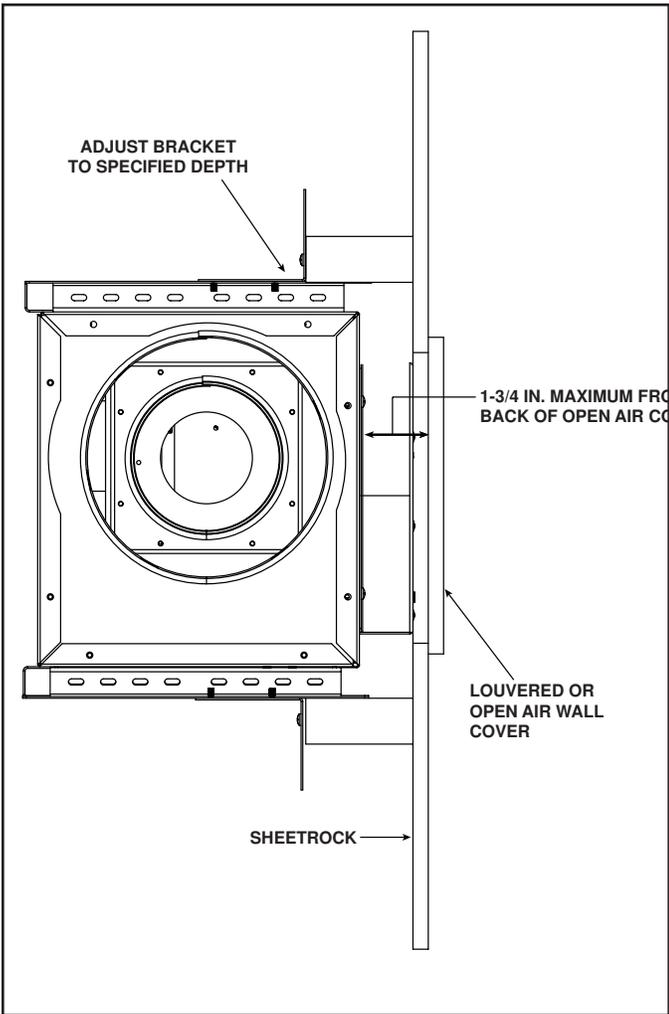


Figure 3.7 PVI-SLP Mounted with Fresh Air Access

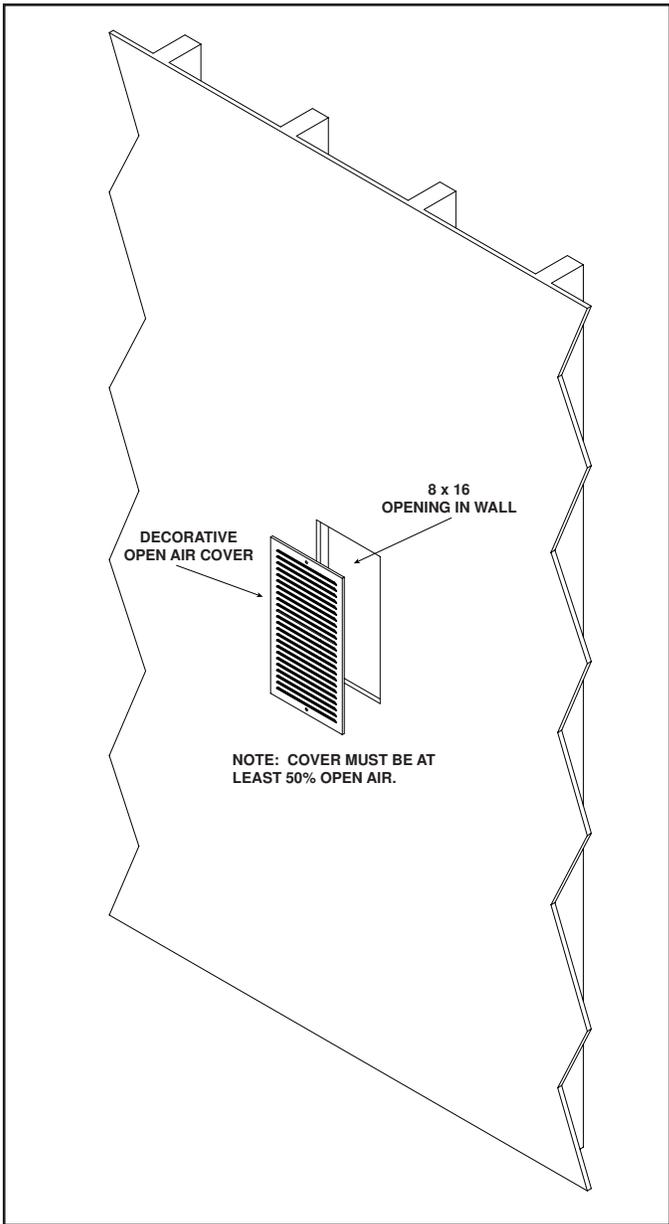


Figure 3.8

For additional scenarios to attach the PVI-SLP, the optional mounting brackets (2196-024) can be used. They can be secured to the side brackets on the PVI-SLP using wing nuts (supplied). The brackets can be attached anywhere along these designated holes. See Figure 3.9 and Figure 3.10.

The optional mounting brackets may be used when mounting the PVI-SLP to a studded wall. See Figure 3.11.

Securing the PVI-SLP inside a floor joist can be easily done using the side brackets. See Figure 3.12. If the side brackets cannot be used, or additional support is needed, the optional mounting brackets can be used as shown in Figure 3.13.



Figure 3.11

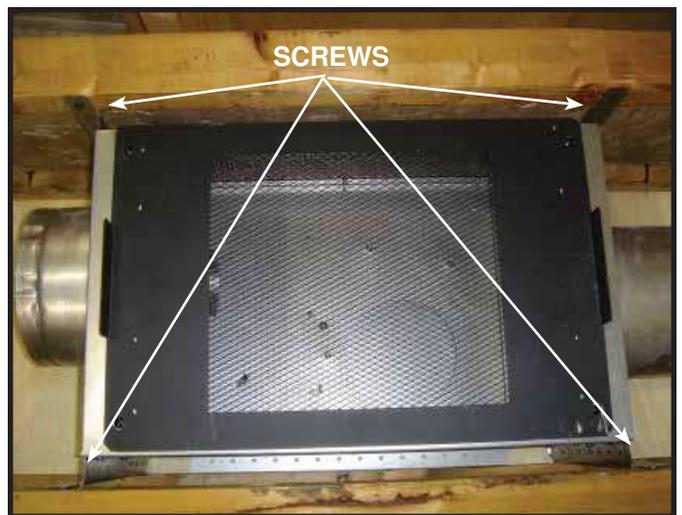


Figure 3.12



Figure 3.9



Figure 3.10



Figure 3.13

4 Electrical Information

A. Wiring the Appliance for the PVI-SLP

NOTICE: Electrical wiring must be done in accordance with national, provincial, and/or local electric codes.

CAUTION: Risk of shock! Disconnect electrical power from fireplace/power vent before performing any maintenance, repair, or electrical wiring.

NOTICE: Electrical service of 120 VAC-60Hz must be supplied to the junction box of the fireplace in order for the power vent to operate correctly.

NOTICE: The 8K1-PVI control module must be used to integrate the PVI-SLP to the fireplace.

REMOVAL OF UNNECESSARY PARTS

Refer to the appropriate directions depending on the color of the IPI module (Black or Green.)

IntelliFire Plus™ IPI Module (Black)

Refer to Figure 4.1 for steps 1 through 5. The shaded portion corresponding to the numbered step is the task to be performed.

1. Unplug control module power.
2. Detach the white and orange wires from the control module.
3. Detach the remaining harnesses from the control module.
4. Remove the black control module. This will no longer be needed.
5. Remove and discard battery pack (if present).
6. Remove and discard IPI wire harness.

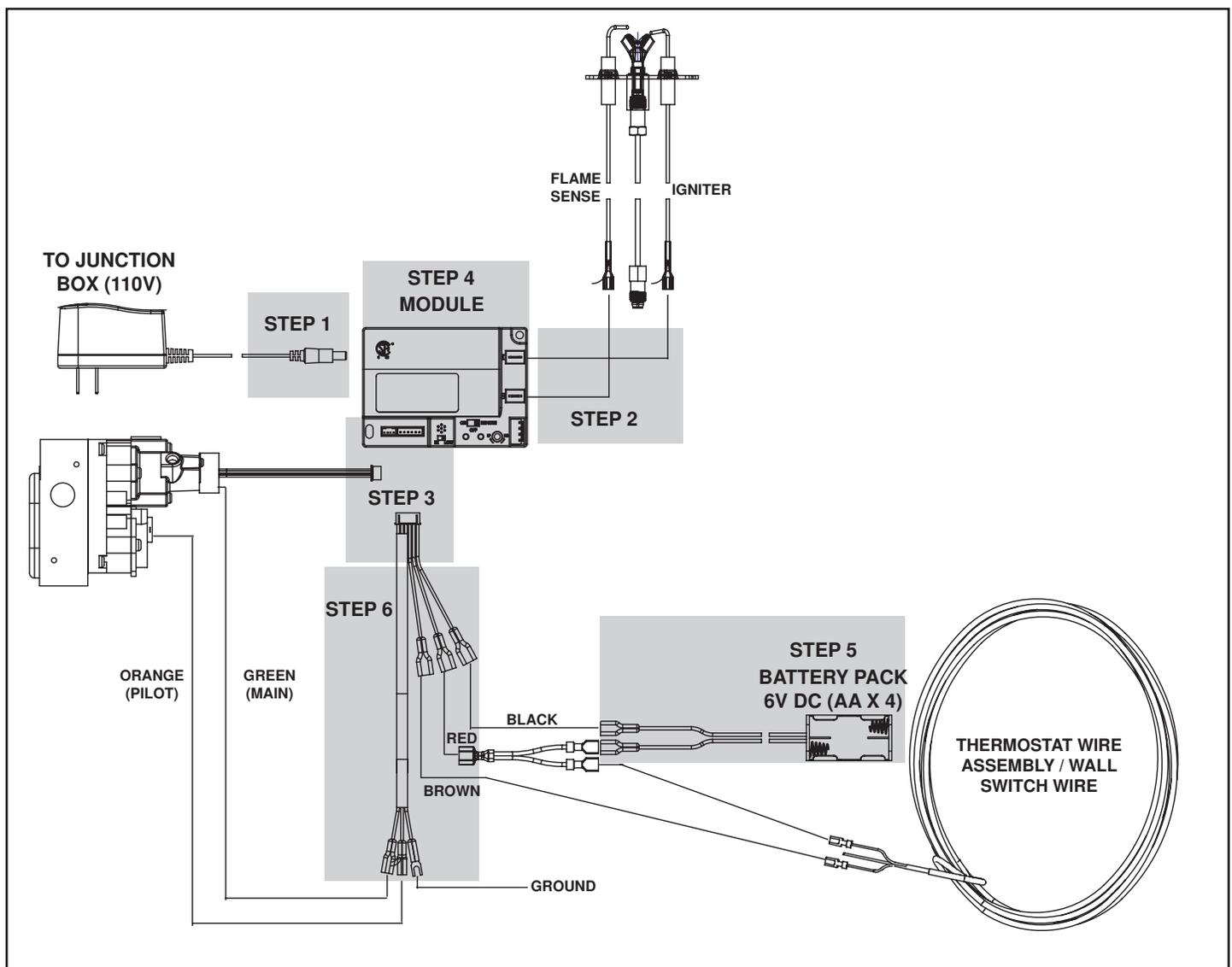


Figure 4.1 IntelliFire Plus™ (Black) IPI Module Wiring as Shipped from Factory

IntelliFire IPI Module (Green)

Refer to Figure 4.2 for steps 1 through 5.

1. Remove and discard wire harness connecting the valve to the control module.
2. Unhook the 3V transformer and discard. This will no longer be used.
3. Remove and discard battery pack (if present).
4. Detach the white and orange wires from the control module.
5. Remove the green control module. This will no longer be used.

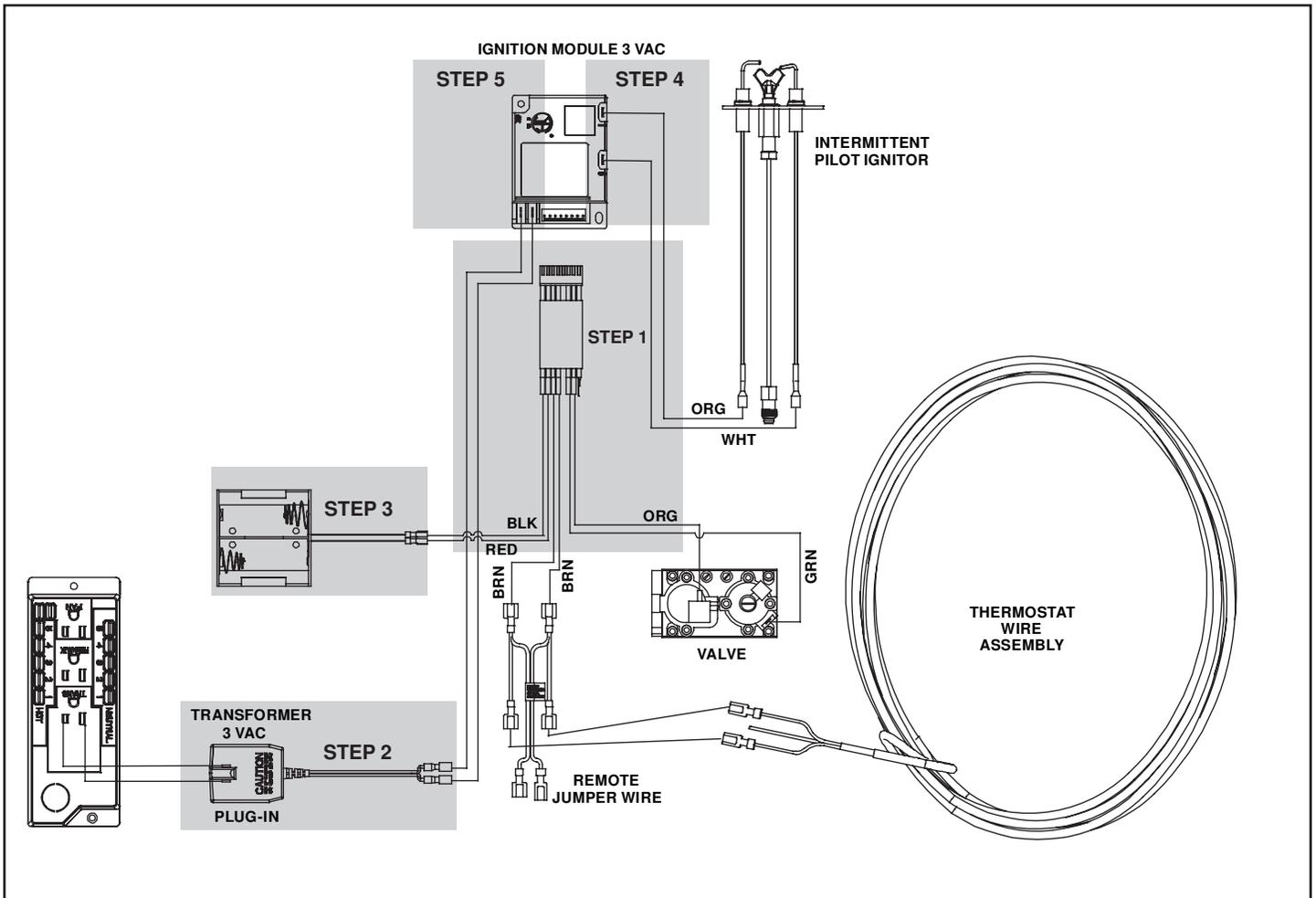


Figure 4.2. IntelliFire (Green) IPI Module Wiring as Shipped from Factory

INSTALLATION

The type of control used to power the appliance is the determining factor in making the appliance compatible with the PVI-SLP. Table 4.1 indicates which set of instructions to use.

- A 7/8 in. diameter hole must be bored in the side of the fireplace outer wrap in which the 5 wires from the power vent will be routed. The hole should be located 2 inches to the side of the junction box and 4-inches up from the base of the fireplace.

CONTROL	REFERENCE
RC100 RC200 RC300	FIGURE 4.3
RCT-MLT SMART-STAT SMART-BATT WALL SWITCH	FIGURE 4.4
WSK-MLT	FIGURE 4.5

Table 4.1.

RC100, RC200, RC300 DIRECTIONS

1. Attach the new 8K1-PVI (2196-150) module to the 6V transformer.
2. Connect the pilot wires (white to S and orange to I) to the 8K1-PVI module.
3. Connect the new Aux RC300 (2166-335) to the 8k1-PVI module.
4. Plug the Aux RC300 into the Junction Box.
5. Attach the wire harness (2196-200) to the 8k1-PVI module. Connect green and orange valve wires and reconnect ground wire to chassis.
6. Connect the accessory cable coming from the PVI to the AUX RC300 (AUX 2 port) and the corresponding colored wire on the wire harness.
7. Connect the stepper motor wires to the 8K1-PVI module.

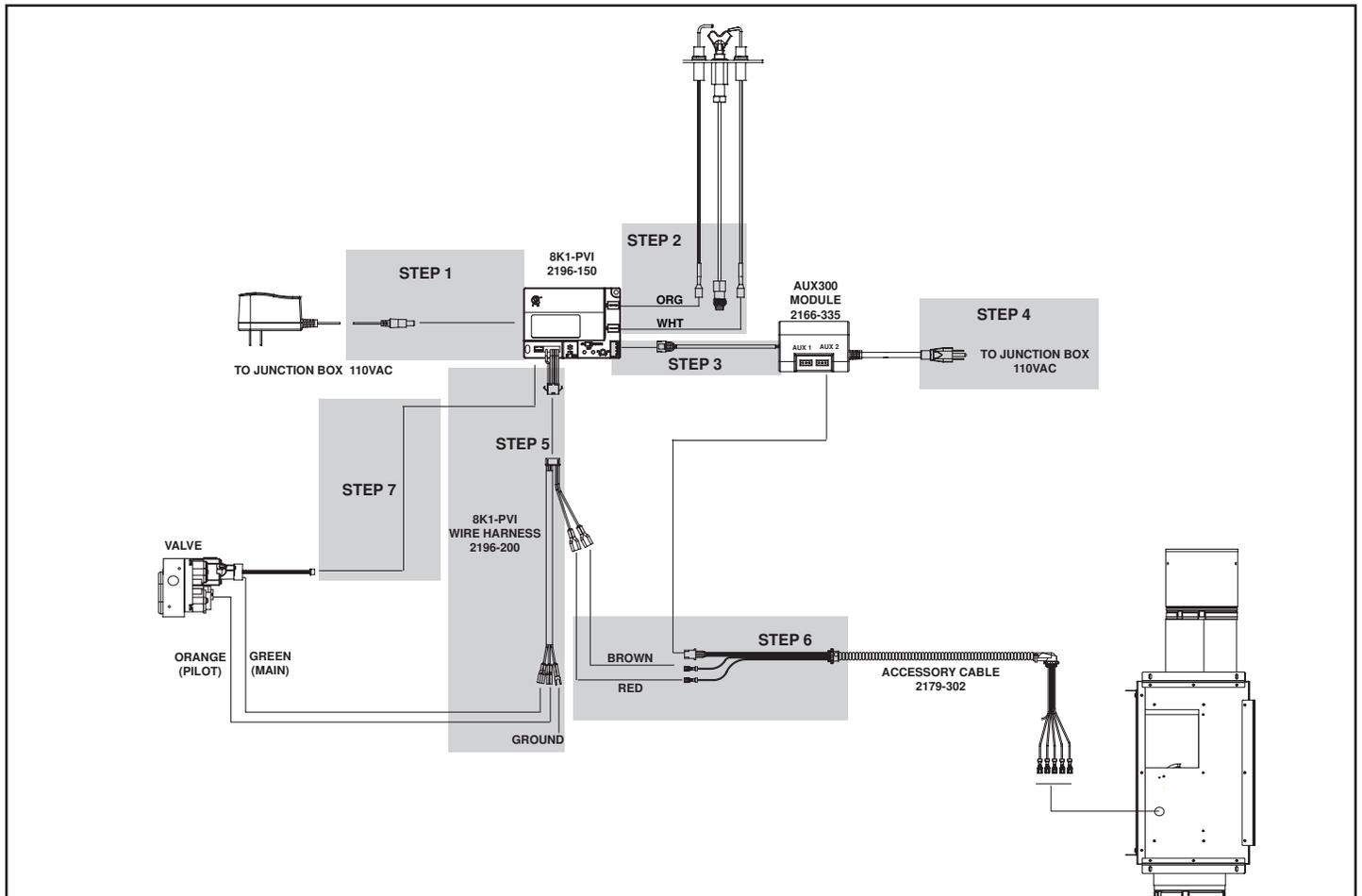


Figure 4.3 PVI Wiring for RC100, RC200, RC300 Controls

RCT-MLT, SMART-STAT, SMART-BATT and WALL SWITCH DIRECTIONS

1. Attach the new jumper wire (2179-300) to the new 8k1-PVI module (2196-150).
2. Connect the 6V transformer to the new jumper wire (2179-300). Connect transformer to junction box.
3. Connect the pilot wires (white to S and orange to I) to the 8K1-PVI module.
4. Connect the new Aux RC300 (2166-335) to the 8k1-PVI module.
5. Plug the Aux RC300 into the Junction Box.
6. Attach the new wire harness (2196-200) to the 8k1-PVI module and the valve. Connect ground wire to the fireplace chassis.
7. Connect the jumper wire (2012-206) to one of the female connectors on the wire harness. This step is done to ensure the correct terminal ends are mated together and is not required for some wall switch installations.
8. Attach the 2 red wires from the control box to the jumper wire harness.
9. Connect the accessory cable coming from the PVI to the Aux RC300 (AUX 2 port) and the corresponding colored wires on the wire harness.

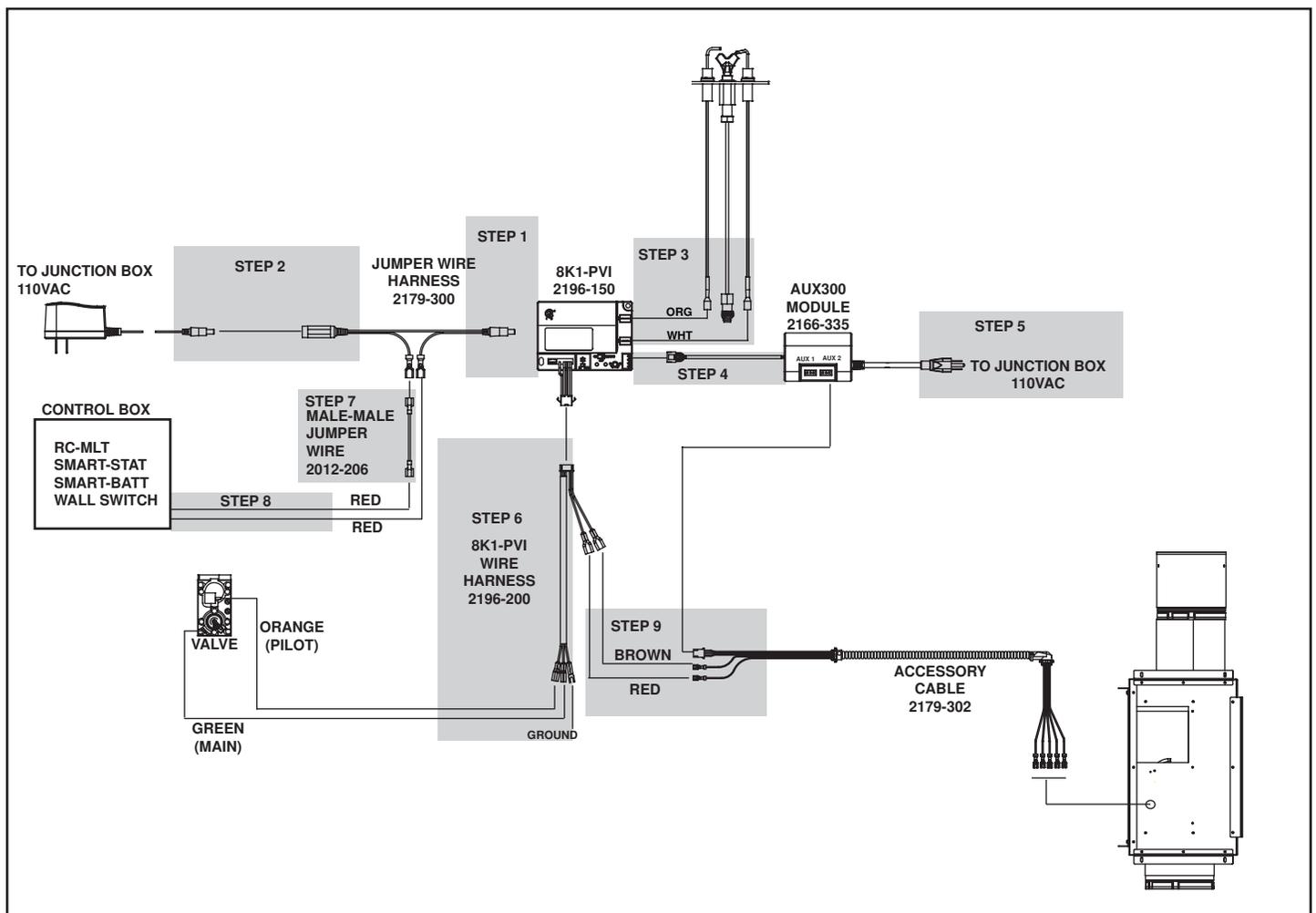


Figure 4.4 PVI Wiring for RC-MLT, SMART-STAT, SMART-BATT, and Wall Switch Controls

WSK-MLT DIRECTIONS

1. A battery pack or 3V transformer are not allowed with the PVI-SLP. Unhook all of the red/red and red/black sleeved wires on the WSK-MLT from them.
2. Attach the new jumper wire (2179-300) to the new 8k1-PVI module (2196-150).
3. Connect the 6V transformer to the new jumper wire (2179-300). Connect the transformer to the junction box.
4. Connect the pilot wires (white to S and orange to I) to the 8K1-PVI module.
5. Connect the new Aux RC300 (2166-335) to the 8k1-PVI module.
6. Plug the Aux RC300 into the Junction Box.
7. Attach the new wire harness (2196-200) to the 8k1-PVI module and the valve. Connect the ground wire to the fireplace chassis.
8. Connect the jumper wire (2012-206) to one of the female connectors on the wire harness.

9. Attach the 2 brown wires from the control box to the jumper wire harness.
10. Connect the accessory cable coming from the PVI to the AUX RC300 (AUX 2 port) and the corresponding colored wires on the wire harness.

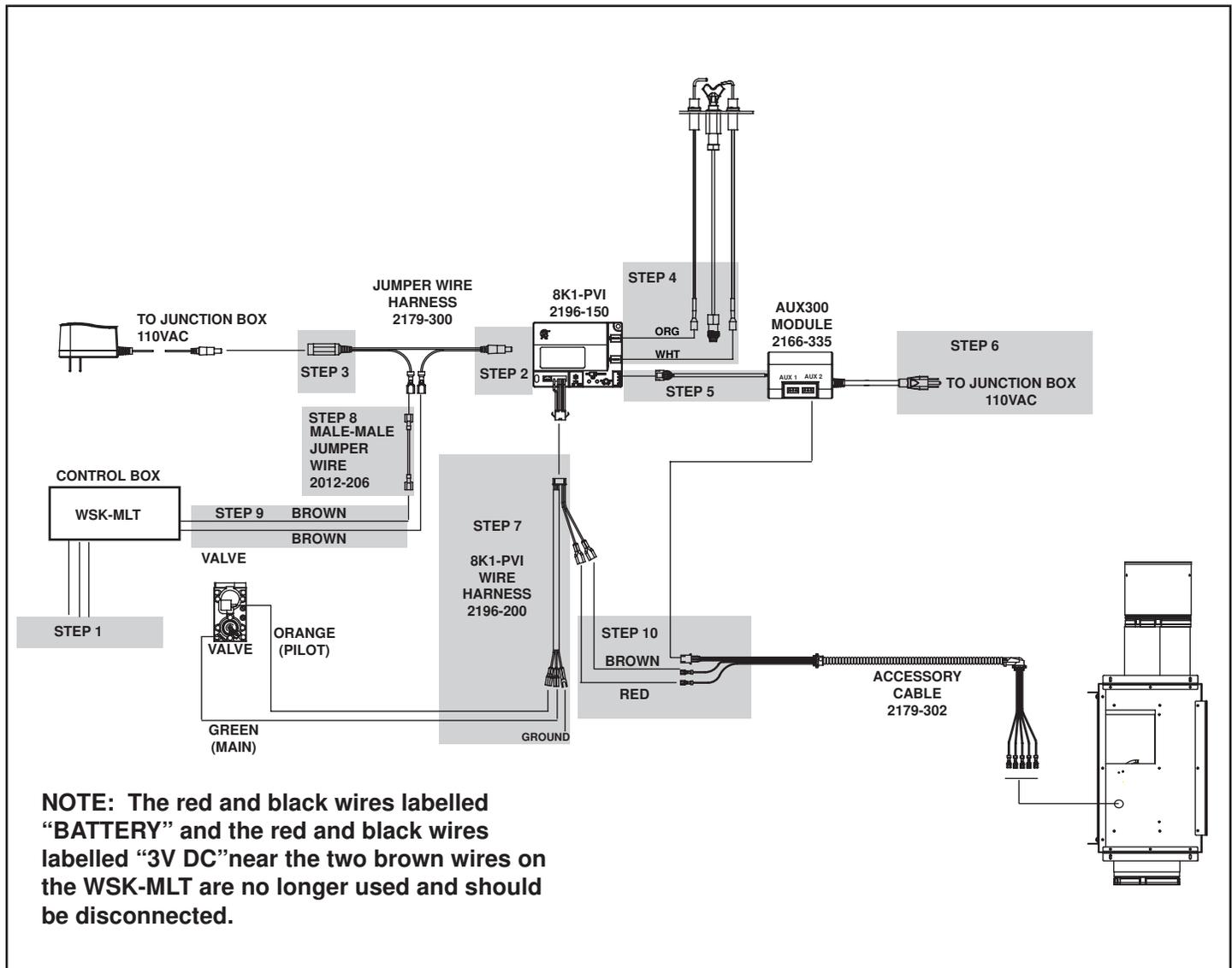


Figure 4.5 PVI Wiring for WSK-MLT Controls

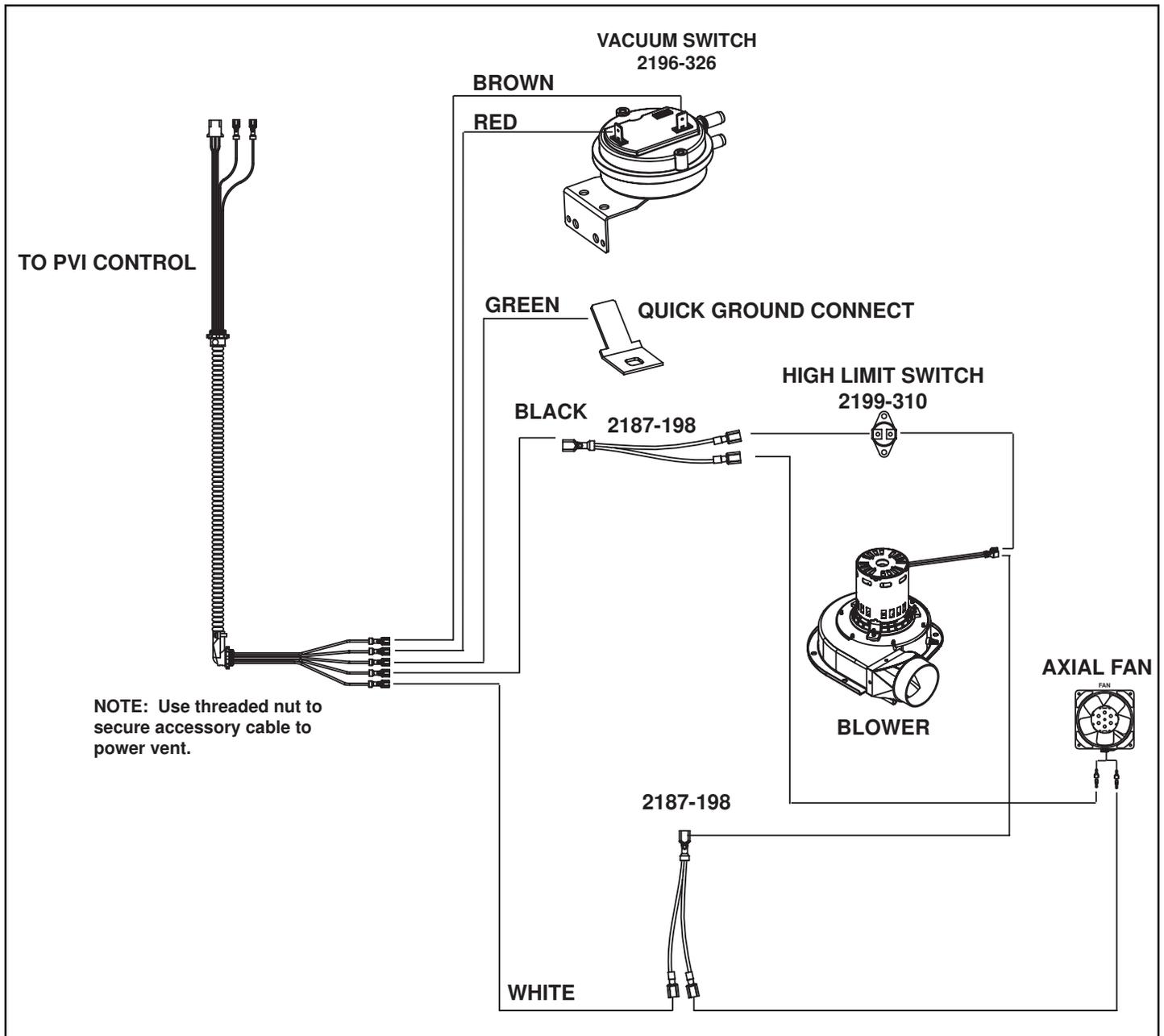


Figure 4.6 Internal PVI Wiring

5 Operating Instructions

A. Installation Inspection

1. Follow safety inspection procedures recommended by national, provincial, and/or local codes.
2. Be certain all electrical connections are properly made and secure.
3. Visually inspect the vent system and determine that there is no flue gas spillage, blockage or restriction, leakage, corrosion or other unsafe deficiencies.
4. Place the fireplace in operation and determine that the burner and power vent are operating properly. The main burner should show no signs of floating, lifting, or flashbacks.

WARNING: If any unsafe condition is determined when inspecting the installation and operation of the fireplace and Power Vent, the equipment should be shut off. Corrections **MUST** be made before the equipment is put into continuous operation.

B. Vacuum Switch Orientation

The vacuum switch must be installed on a vertical plane for proper function. If the PVI-SLP is mounted in a vertical position, the vacuum switch needs to be moved from its place in Figure 5.1 to the location shown in Figure 5.2. To do this, loosen and remove the two nuts securing it to the inside wall of the PVI-SLP. Move and secure the vacuum switch onto the adjacent wall using the two bolts that are sticking out of the surface. Be sure that the tube running from the vacuum switch to the motor is not pinched closed.

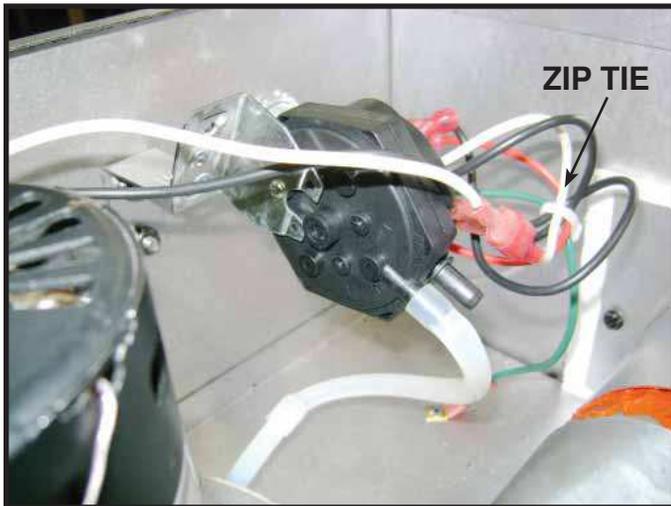


Figure 5.1 Switch Position for Horizontal Installation

CAUTION: Risk of electrical shock! DO NOT allow 120VAC wires to contact hot metal surfaces. Use supplied wire ties to bundle wires away from flue pipe, fan housing and other metal surfaces.

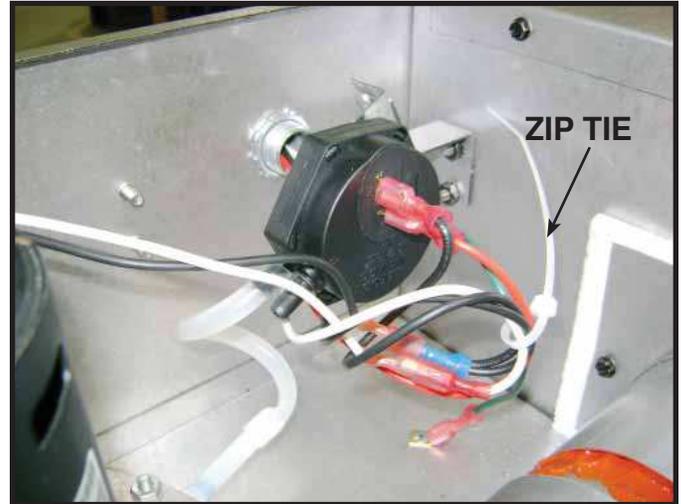


Figure 5.2 Switch Position for Vertical Installation

C. Setting the PVI-SLP Baffle Adjustment

The PVI-SLP has a baffle adjustment which must be set during the Installation Inspection. This baffle adjustment is located alongside the motor. See Figure 5.3.

The baffle adjustment is measured using the holes on the indicator bar of the PVI-SLP baffle. See Figure 5.4. This bar raises as the baffle is opened and lowers as the baffle is closed. When only one hole is showing, the baffle is closed. When all three holes are visible, the baffle is all the way open. DO NOT TRY TO FORCE IT OPEN ANY FURTHER THAN 1/2 in.

When the power vent is located within ten feet of the appliance, there is no limit to the baffle adjustment. If the power vent is located more than 40 feet from the appliance, the flue baffle must remain closed and cannot be adjusted. See Table 3 for limitations to the baffle adjustment.

The need to adjust the baffle will depend upon vent run configuration and burner flame characteristics.

Next to the bolt used for baffle adjustment is an indicator bar.

- If the burner flames are short, active, and jumping – turn the bolt clockwise (open). Check the burner flames and adjust the baffle again as necessary until the flames are stable, strong, and steady.
- If the burner flames are tall, lifting, floating, and ghost-like, the baffle is too open and **MUST** be closed (turn bolt counter-clockwise).
- If the pilot continuously sparks and does not become steady, the baffle may need to be opened. The requirements in table 3 must still be met.

Distance from PVI-SLP to Appliance	Maximum Allowable Baffle Setting
2-15 ft.	3 holes visible
16-39 ft.	2 holes visible
Greater than 40	1 hole visible

Table 3.

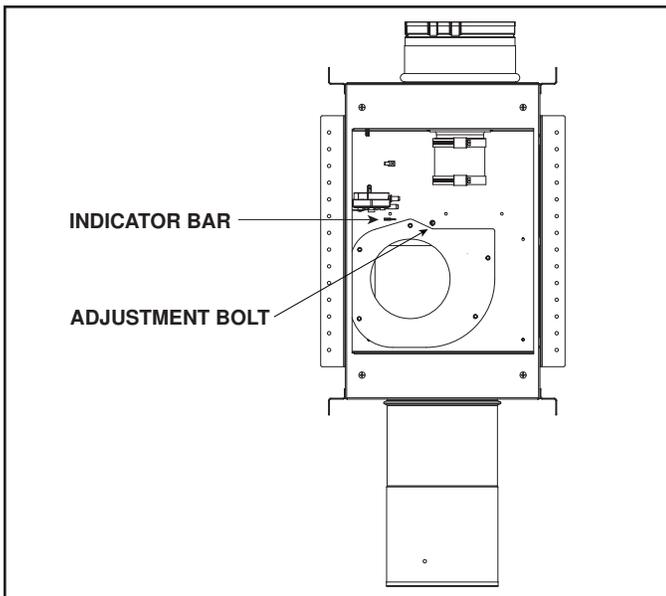


Figure 5.3 Baffle Adjustment Location

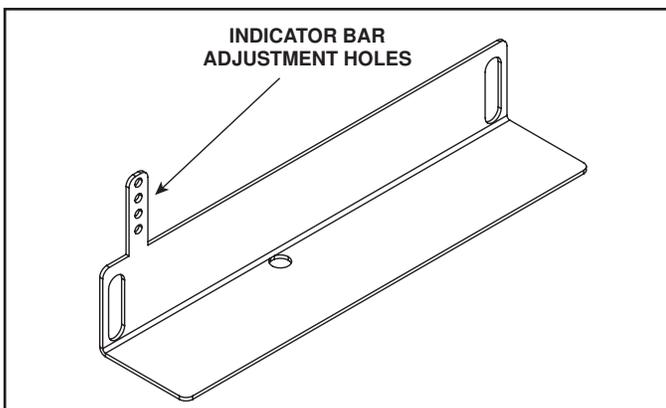


Figure 5.4 Baffle Adjustment

D. Operating Instructions

After installation of the power vent, follow the operation instructions of the fireplace.

1. Turn the fireplace ON/OFF switch to "ON".

Note: During periods of operation after turning the fireplace "ON", there will be a delay before the fireplace ignites. This is due to the time necessary for the fan to reach operating speed and to remove any gases from the combustion chamber.

2. After turning the switch to the "ON" position, if the fireplace does not turn on, shut the switch to "OFF" and inspect the power vent system for any debris that may be obstructing the fan blade movement.
3. Turn the fireplace ON/OFF switch to "OFF" to turn off the burner and the power vent.

E. Maintenance

CAUTION: Before performing any maintenance or repair to the power vent assembly, make sure electrical power is disconnected to the fireplace.

1. Vent System: Inspect all components and connections annually. Replace, seal, or tighten pipe connections if necessary.

2. Access Panel: Inspect at least annually. Ensure mesh is free of dust and debris.
3. Motor: The fan motor bearings are sealed and no further lubrication is necessary. To access the motor, vacuum switch or pressure sense tube. Refer to Figure 5.5.

If the motor needs to be removed, take out the three screws that attach the collar to the wall and the five nuts holding the motor down as shown in Figure 5.6.

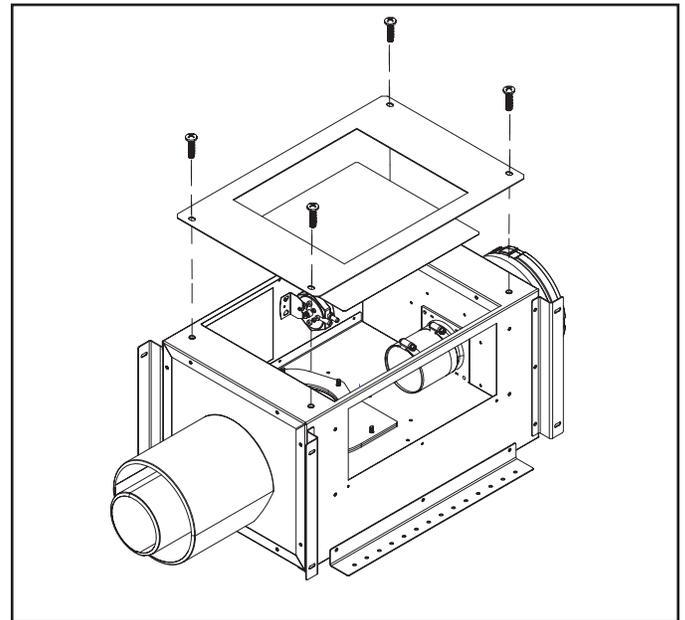


Figure 5.5 Maintenance Access

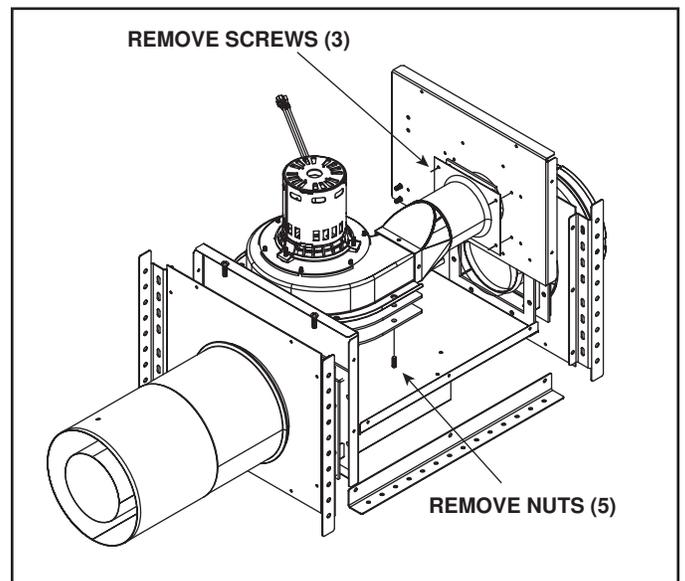


Figure 5.6 Motor/Blower Service

F. PVI-SLP Troubleshooting

Symptoms	Possible Causes	Corrective Action
IntelliFire Plus System		
Main Closes/ Pilot open, 5 seconds later pilot sparking with Blower ON. If condition persists for 60 seconds, 8K-1 locks out with 3 LED alarm.	Pilot Rectification Failure	<ol style="list-style-type: none"> 1. Verify that black wire on IPI wire harness is properly grounded to the fireplace chassis. 2. Verify that pilot is not being compromised by draft such that it fails to rectify. With the glass assembly in place, verify that the pilot flame is engulfing the flame sensing rod on the left side of the pilot hood. With a multi-meter, verify that the current in series between the module and the sense lead is at least 0.14 microamps. 3. Verify that line inlet pressure is within range on rating plate and correct pilot orifice is in pilot. 4. If #1-4 are correct, replace IPI module.
Pilot and Main shut down and 8K1-PVI locks out with 4 LED alarm.	Blocked Flue/Insufficient Draft	<ol style="list-style-type: none"> 1. Verify the teflon pressure tube is connected between blower impeller housing and vacuum switch. 2. Verify that wiring within PVI is correct and that the blower operates during the ignition command. 3. Verify that the venting is connected and sealed properly. 4. Verify that the vent termination is not blocked. 5. If #1 thru #4 are complete, connect black and red wires to bypass vacuum switch. If malfunction is corrected, lock-out system until the vacuum switch can be replaced.
Main Closes, 5 seconds later pilot sparking with Blower ON. If condition persists for 60 seconds, 8K-1 locks out with 3 LED alarm.	Shorted Pilot Sense	<ol style="list-style-type: none"> 1. Verify that the white sensor lead is properly connected to the S-terminal on the module. 2. Check for soot deposits on the pilot sense rod, adjacent shielding, or logs. If so, clean affected parts. 3. Verify that the white sense lead from the pilot is not damaged or melted within the firebox or valve compartment. Replace pilot if damage exists.
Main Closes, 5 seconds later pilot sparking with Blower ON. If condition persists for 60 seconds, 8K-1 locks out with 3 LED alarm.	Disconnected Pilot Sense	Verify that white sensor lead is properly connected to the S-terminal and the orange ignitor lead is connected to the I-terminal on the module
If given ignition command in both ON and REMOTE modes, system immediately locks-out with 3 LED alarm. Does not spark or attempt to ignite.	Pre-Existing/False Pilot Flame	Check for pre-existing pilot flame. If so, the valve is defective and should be replaced.
Pilot rectifies, burner begins to light, but has a difficult time fully lighting.	Draft from back of firebox is too strong due to power vent.	Place ember material along the back side of the ports that are experiencing the difficult lighting. This will block a portion of the strong draft.

Please contact your Hearth & Home Technologies dealer with any questions or concerns.

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