

# PVLP-CK

## Installation Instructions



Leave this manual with party responsible for use and operation.

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

**CAUTION! Do not install damaged components.** If you received components that are damaged, contact your dealer for assistance.

### Introduction

The PVLP-CK kit requires a PVLP-SLP Power Vent Termination Kit which is sold separately. The PVLP-CK kit includes all the necessary components required to install a PVLP-SLP on a Hearth and Home Technologies appliance that has an IntelliFire™ Plus Control System.

**WARNING! Risk of Shock! DO NOT** wire 110-120 VAC to the valve. Incorrect wiring will damage controls.

### KIT CONTENTS:

- Power Vent Control Module (8K1-PVI)
- Aux Control (AUX300)
- Power Vent IPI Wire Harness
- Transformer, 6-volt Wall
- Female to Female Jumper Wire

**IMPORTANT OPERATIONAL NOTE:** When the control being used to run the fireplace is activated, a 2 minute delay will occur before pilot ignition will begin. This is to allow a pre-purge by the PVLP-SLP. If after an additional 90 seconds the pilot and burner do not light, refer to the Troubleshooting section of the PVLP-SLP instruction for further direction. There will also be a 20 minute post-purge in which the PVLP-SLP will continue to run after appliance is turned off.

## Electrical Information

### A. Wiring the Appliance for the PVL-CK

**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 PVL-CK 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 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.

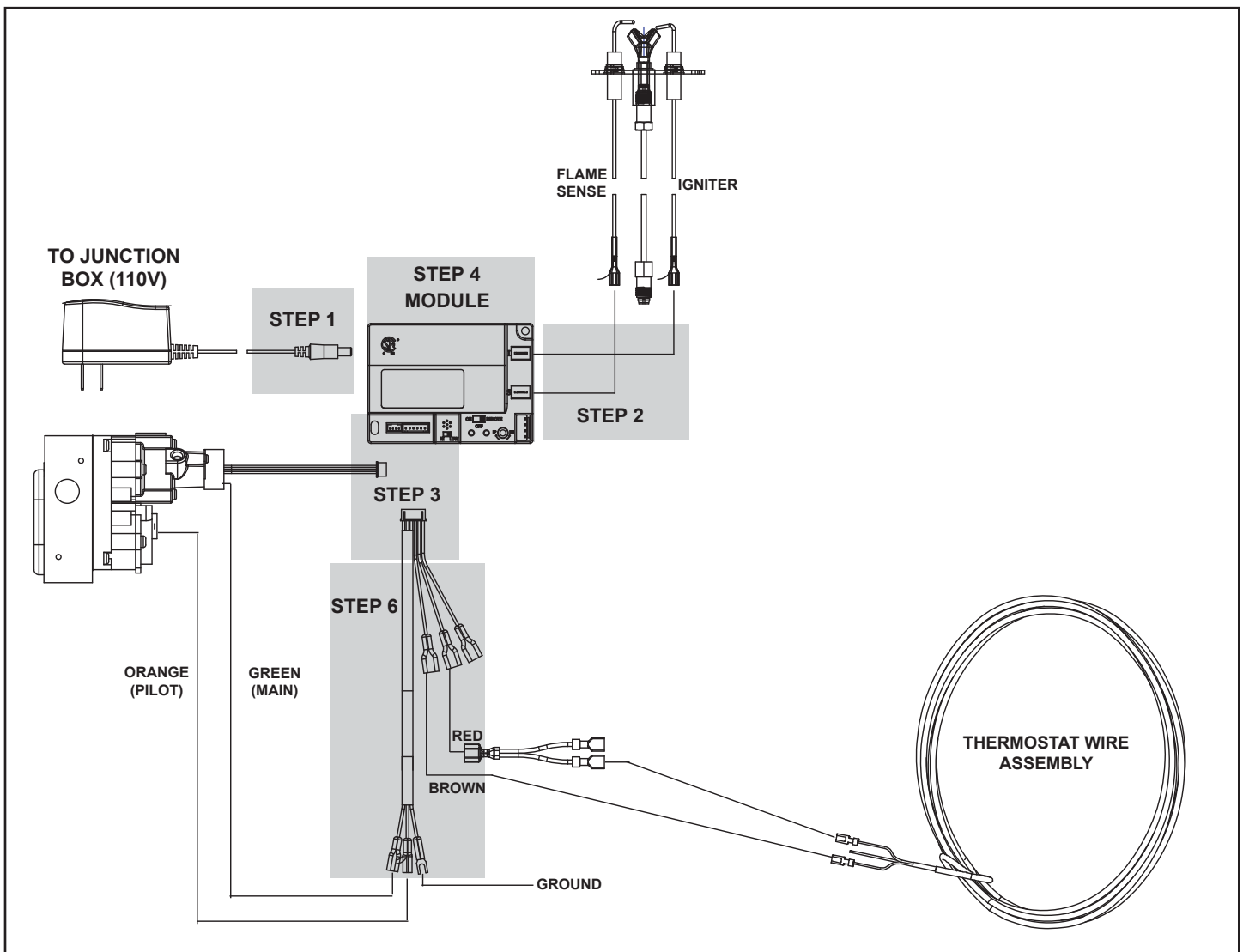


Figure 1 IntelliFire™ Plus (Black) IPI Module Wiring as Shipped from Factory

## IntelliFire™ IPI Module (Green)

Refer to Figure 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.

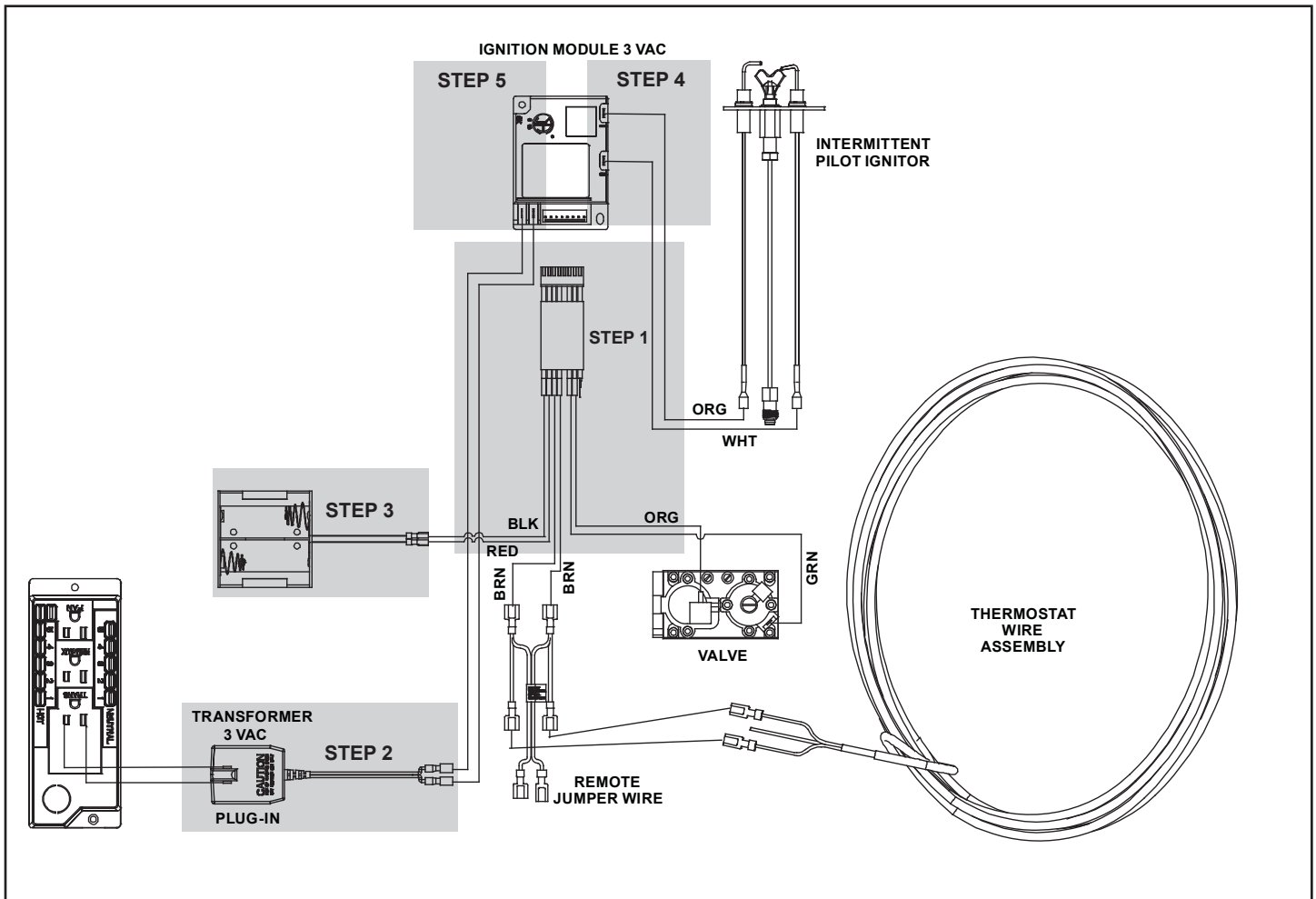


Figure 2. IntelliFire™ (Green) IPI Module Wiring as Shipped from Factory

## INSTALLATION

The type of control used to power the appliance is the determining factor in making the appliance compatible with the PVL-CK. Table 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	FIGURE 3
RC200	FIGURE 4
RC300	FIGURE 4

Table 1.

### IntelliFire™ Plus IPI Module (Black)

1. Attach the new 8K1-PVI 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 to the 8K1-PVI module.
4. Plug the Aux RC300 into the Junction Box.
5. Attach the 8K1-PVI wire harness 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.

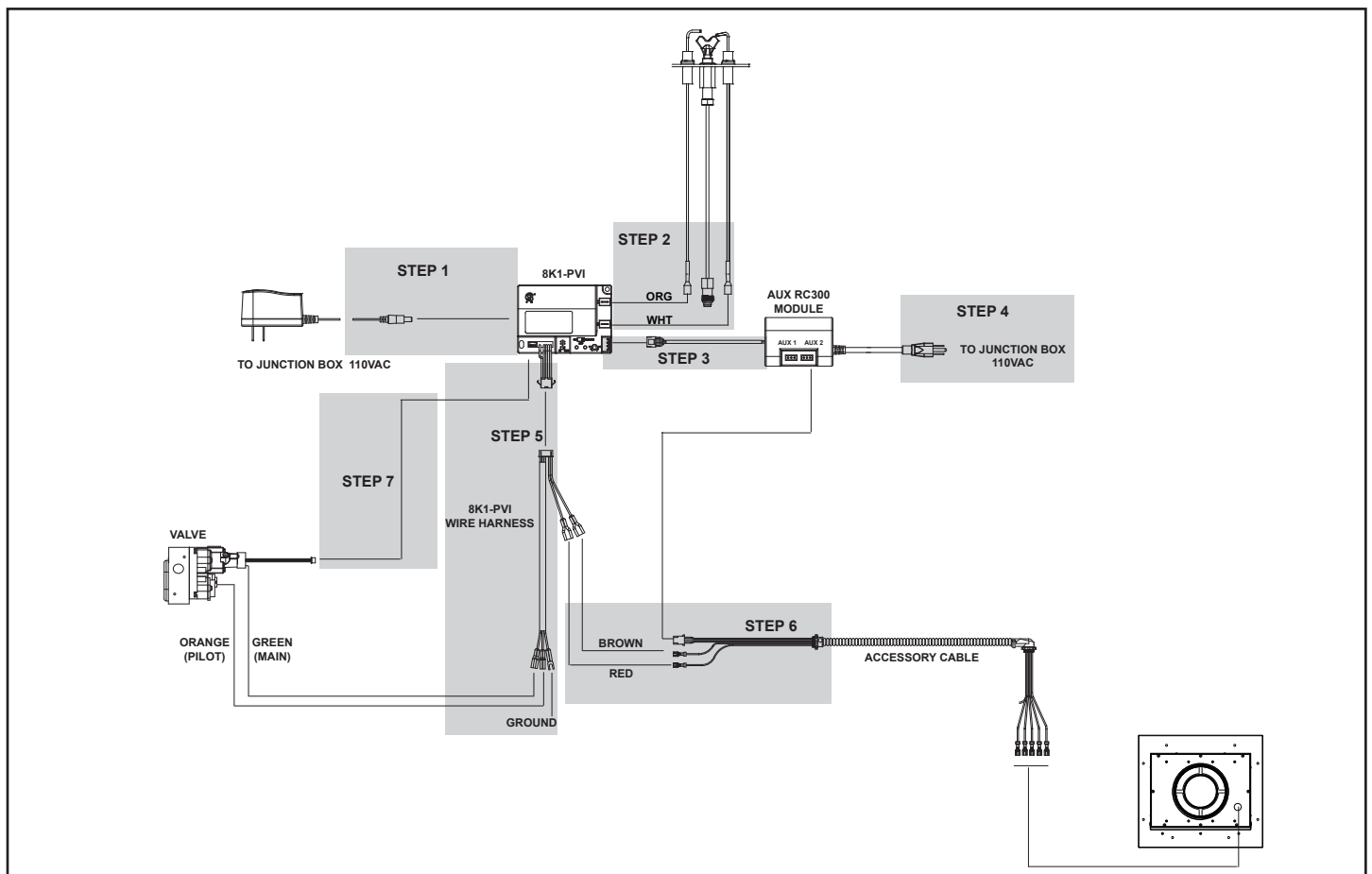


Figure 3 PVI Wiring for RC100, RC200, RC300 Controls

## IntelliFire™ IPI Module (Green)

1. Attach the new 8K1-PVI 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 to the 8K1-PVI module.
4. Plug the Aux RC300 into the Junction Box.
5. Attach the 8K1-PVI wire harness 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.

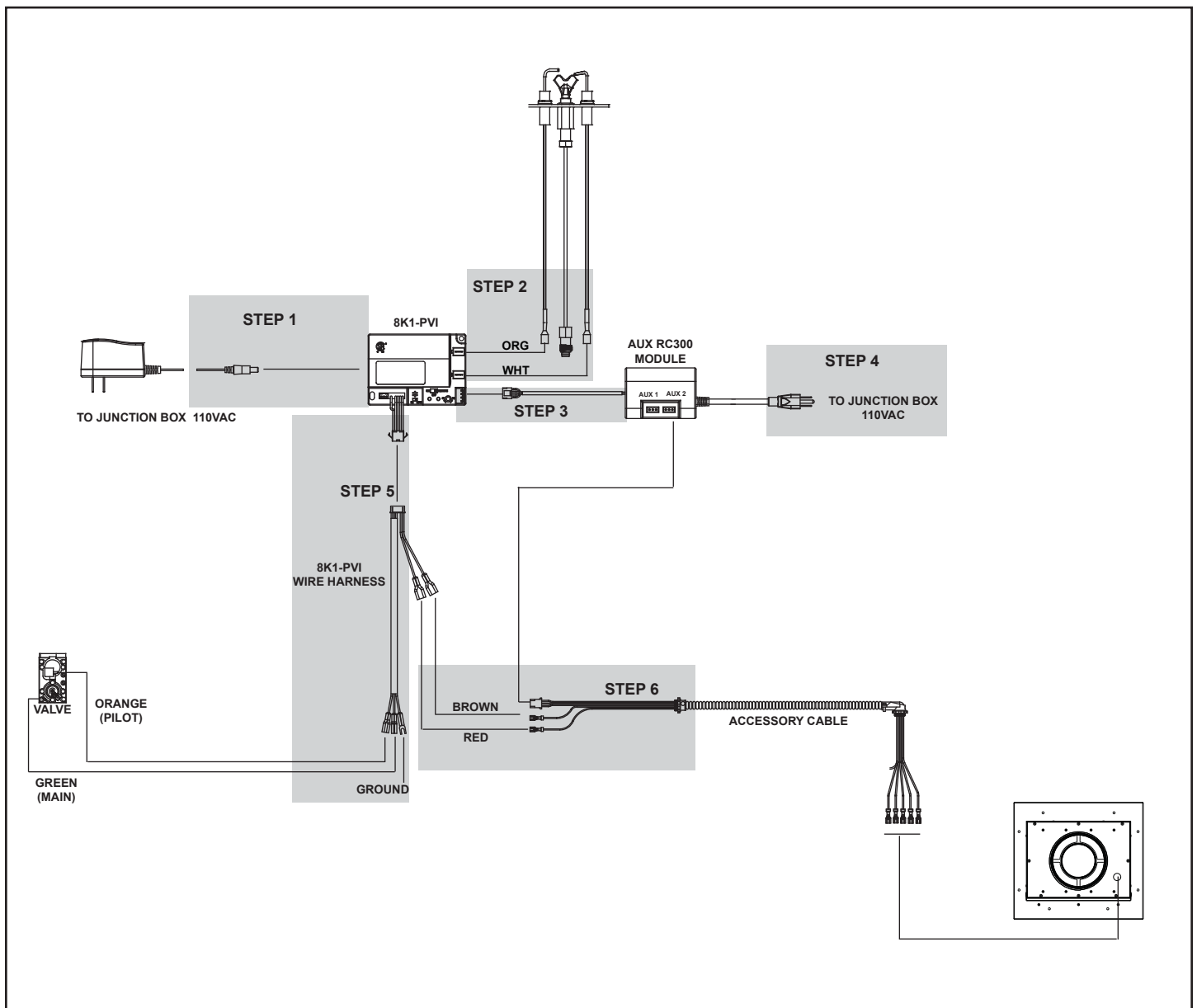


Figure 4 PVI Wiring for RC-MLT, SMART-STAT and SMART-BATT

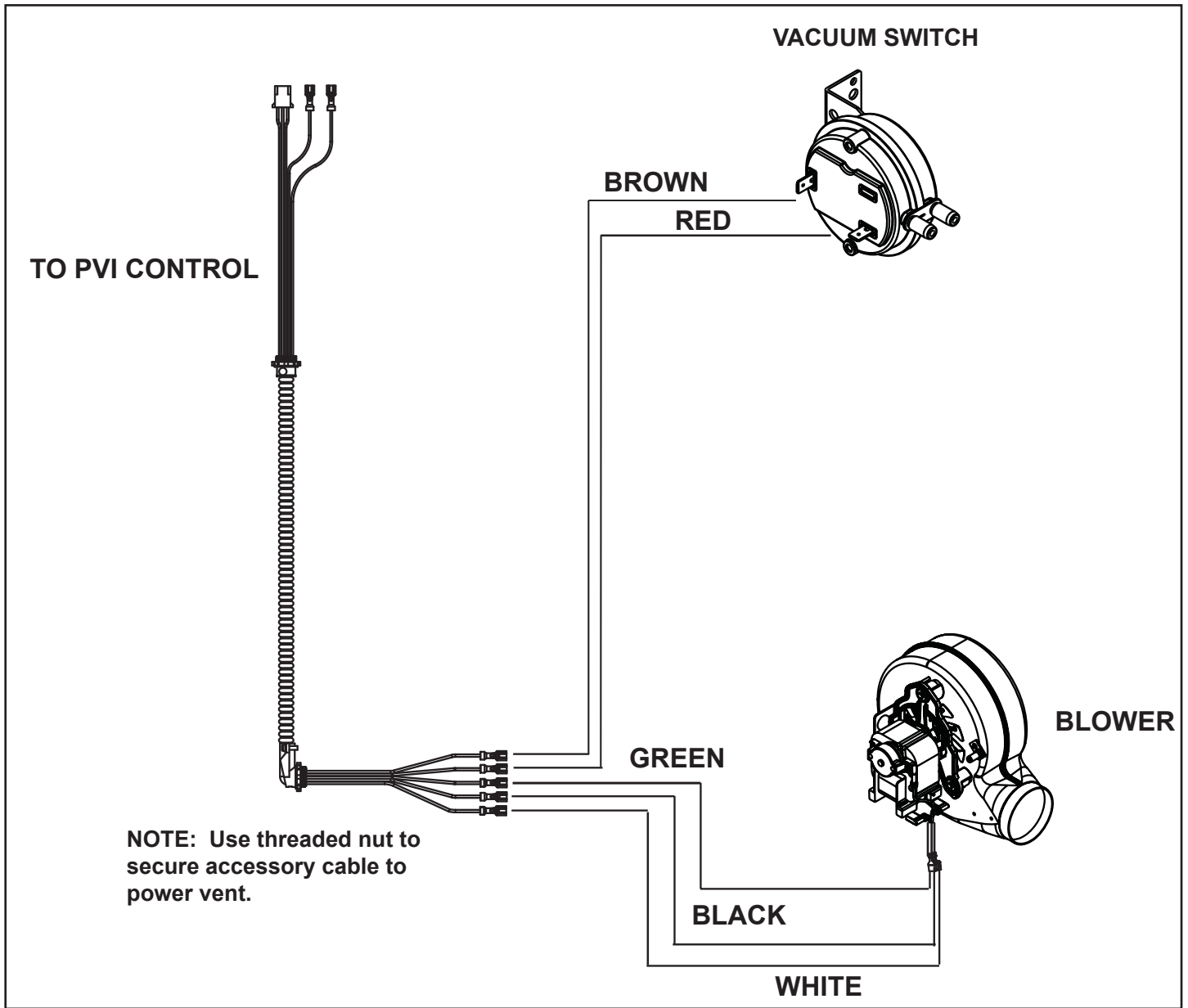


Figure 5. Internal PVI Wiring

## POWER VENT CONTROL MODULE (PVI-8K1) OPERATION

**IMPORTANT OPERATIONAL NOTE:** When the control being used to run the fireplace is activated, a 2 minute delay will occur before pilot ignition will begin. This is to allow a pre-purge by the PVLP-SLP. If after 90 seconds the pilot and burner do not light, refer to the Troubleshooting section of the PVLP-SLP instruction for further direction. If a remote is being used, there will also be a 20 minute post-purge in which the PVLP-SLP will continue to run after appliance is turned off.

The control module has an ON, OFF, and REMOTE selector switch that must be set prior to fireplace operation. See Figure 6.

**OFF Position:** Appliance will ignore all power inputs and will not respond to any commands from a remote control. The appliance should remain in the OFF position during installation, service, fuel conversion, and in the event that control goes into a LOCK-OUT mode as a result of an error code.

**ON Position:** In this mode, the appliance will ignite and run continuously; flame height can only be adjusted by the FLAME HI/LOW Switch while in this mode.

- Regardless of FLAME HI/LOW setting on the module, the fireplace will always light in the HI setting; if the HI/LOW is switched to the LOW position, the flame will automatically adjust from HI to LOW after the flame has been established for 10 seconds.

**REMOTE Position:** In this mode, the appliance will initiate command from an optional remote (RC100, RC200, or RC300).

- To adjust the flame height with a optional remote control (RC200 or RC300) the FLAME HI/LOW switch must be in the HI setting. IF the FLAME HI/LOW is in the LOW setting, the optional remote (RC200 or RC300) will no longer adjust the flame height. See Figure 6.

**MODULE RESET Procedure:** This module may lock-out under certain conditions. When this occurs, the appliance will not ignite or respond to commands. The module will go into lock-out mode by emitting three audible beeps, then continuously displaying a RED/GREEN error code at STATUS INDICATOR LED.

- Locate the module SELECTOR SWITCH. See Figure 6.
- Set the module selector to the OFF position.
- Wait five (5) minutes to allow for any potential accumulated gas to clear.
- Adjust the module SELECTOR SWITCH to the desired setting (ON or REMOTE).

### Nine Hour Safety Shutdown Feature

This control module has a safety feature that automatically shuts down the fireplace after 9 hours of continuous operation without receiving a command from an optional remote control (RC100, RC200, or RC300) or wired ON/OFF wall control.

## SERVICE PARTS LIST

DESCRIPTION	PART NUMBER
Auxiliary Box	2166-335
8K1-PVI	2196-150
8K1-PVI Wire Harness	2196-200
Transformer, 6-volt wall	2326-131
Female to Female Jumper Wire	2155-033

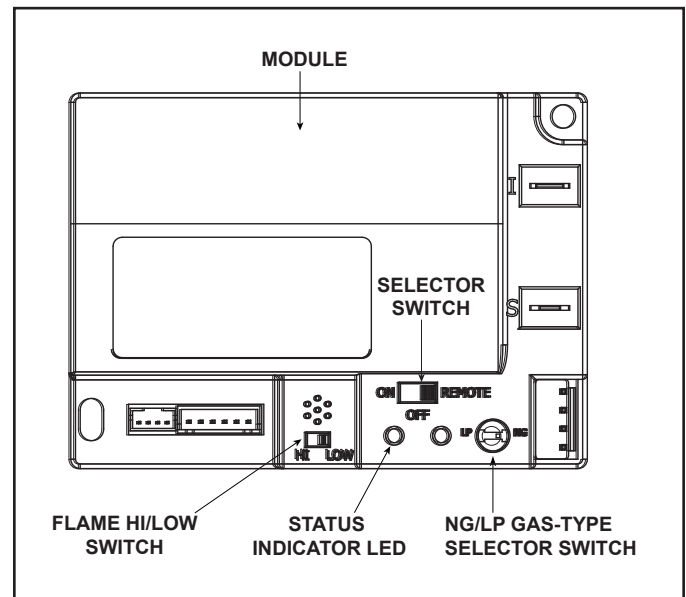


Figure 6. Control Module

Please contact your Hearth & Home Technologies dealer with any questions or concerns.  
For the location of your nearest  
Hearth & Home Technologies dealer,  
please visit [www.hearthnhome.com](http://www.hearthnhome.com).

Hearth & Home Technologies  
7571 215th Street West, Lakeville, MN 55044  
[www.hearthnhome.com](http://www.hearthnhome.com)