

PVK80-PLUS

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 PVK80-PLUS kit requires a PVK-80 Power Vent Termination Kit which is sold separately. The PVK80-PLUS kit includes all the necessary components required to install a PVK-80 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 or to the appliance wall switch. Incorrect wiring will damage controls.

KIT CONTENTS:

- Power Vent Control Module (8K1-PVI)
- Aux Control (AUX300)
- Wall Switch Jumper Wire
- Power Vent IPI Wire Harness
- Adapter Cord Assembly
- 30 Inch Male/Female Wire Assembly

Note: The Power Vent Control Module included in this kit has a 30 second pre-purge cycle that is completed before the ignition cycle begins. This allows the fan to reach operating speed and remove potential residual gas from the combustion chamber.

INSTRUCTIONS:

1. Replace the existing wire harness with the Power Vent Wire Harness included in the kit. Reattach ground screw and connect orange and green wires to the valve as shown in Figure 1.
2. Replace the existing black Intellifire Plus Control Module with the black or gray Power Vent Control Module included in the kit as shown in Figure 1 and connect to the Power Vent IPI Wire Harness. The Power Vent Module is denoted with a "Yellow" label.

3. For appliances without an AUX control, install the Aux control included in the kit and connect to the Power Vent Control Module (8K1-PVI) and plug into the junction box "AUX" location. This AUX control will provide power to the power vent termination cap. See Figure 1.
4. Connect the 30 inch male/female wire assembly, shipped in PVK80-Plus Kit, to the red and brown wires on the IPI wire harness. Route the remainder of the harness to where the PVK-80 wiring will enter the appliance.
5. Connect the Adapter Cord Assembly, shipped in the PVK80-Plus Kit, into the AUX2 port of the AUX300 module. Route the remainder of harness to where the PVK-80 wiring will enter the appliance.
6. If required, bore an additional 7/8 inch diameter hole in the side of the fireplace outer wrap near where the wire hole already exists. Use a strain relief connector to secure wires whenever wires pass through a steel panel.
7. Remove and discard wires currently attached to terminal block included with the PVK-80. They are not needed.
8. Connect the black, white, and green wires from the power vent assembly to the terminal block according to the wiring diagram. See Figure 3. Attach 1/4 inch male wiring connectors to red and brown wires from PVK-80 Power Vent. Place the PVK-80 terminal block assembly in the cavity under the fireplace behind the blower using provided velcro pads.

Note: If the 6 1/2 foot 5-wire assembly will not reach the fireplace, the wires may need to be spliced to additional wire lengths in a junction box installed inside the building. Follow applicable electric codes.

9. Plug brown and red wire ends of harness routed in Step 4 onto the brown and red wires from the PVK-80 wiring harness.
10. Connect ends of harness routed in Step 5 to the terminal block, connecting like colors to one another: green to green, white to white, black to black.
11. Use a cable tie to connect the wires together so that no wire is in contact with the top of the cavity under the fireplace.
12. For appliances with remote controls, the existing remote control transmitter and newly installed Power Vent module must be reprogrammed. Refer to the installation instructions shipped with the appliance.

POWER VENT CONTROL MODULE (PVI-8K1) OPERATION

Note: The Power Vent Control Module included in this kit has a 30 second pre-purge cycle that is completed before the ignition cycle begins. This allows the fan to reach operating speed and remove potential residual gas from the combustion chamber.

The control module has an ON, OFF, and REMOTE selector switch that must be set prior to fireplace operation. See Figure 2.

OFF Position: Appliance will ignore all power inputs and will not respond to any commands from a wired wall switch or 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.

- This mode requires the installation of wired on/off wall control. See Figure 1.
- An optional remote (RC100, RC200, or RC300) cannot be used in conjunction with a wired on/off wall control
- 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).

- A wired on/off wall switch cannot be used in conjunction with a 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 2.

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 2.
- 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
Cord Assembly	2159-314
30" Male/Female Wire Assembly	2159-315
Auxiliary Box	2166-335
Jumper Wire Wall Switch	2179-300
8K1-PVI	2196-150
8K1-PVI Wire Harness	2196-200

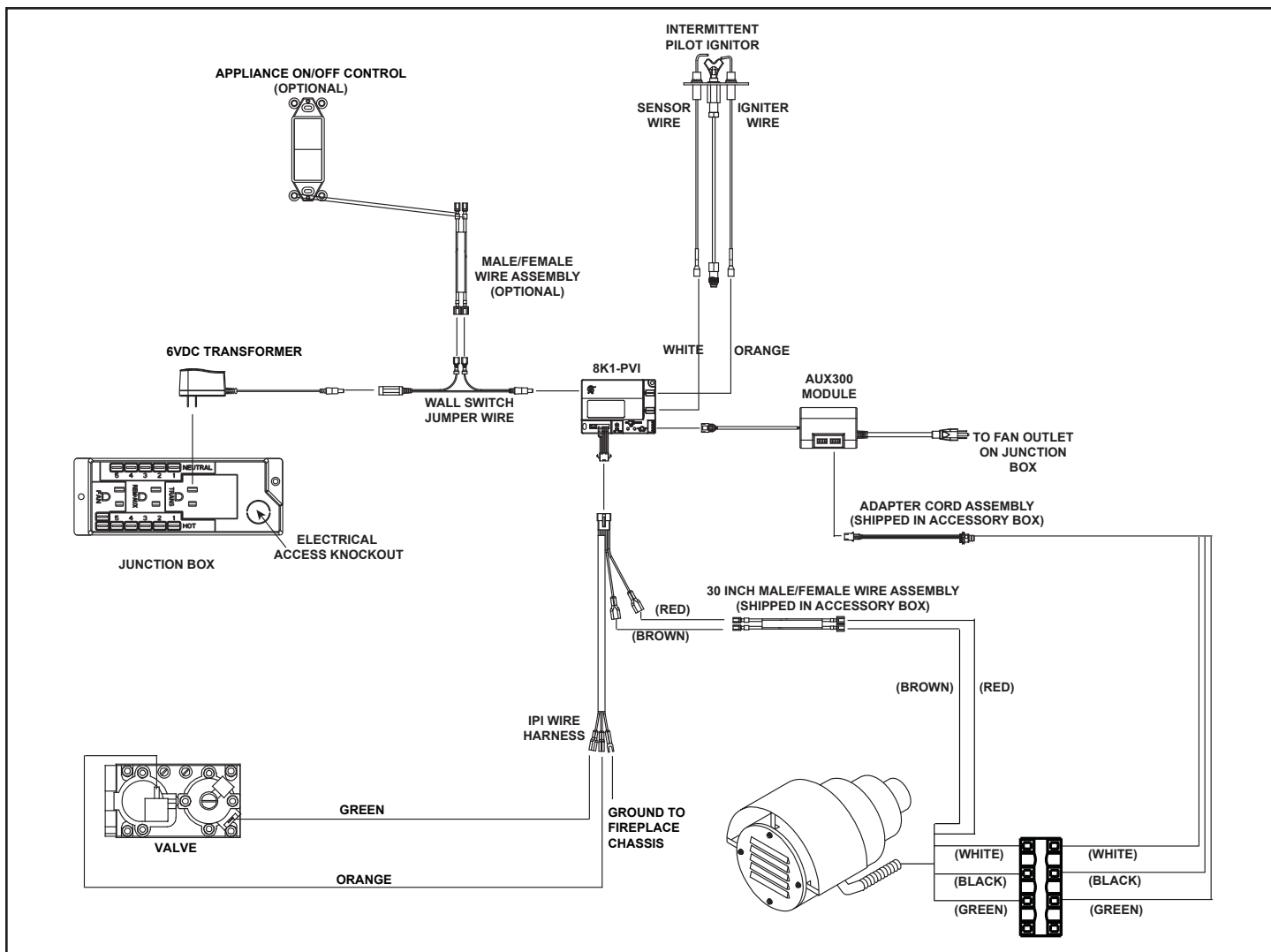


Figure 1. PVK-80 IntelliFire Plus Wiring Diagram

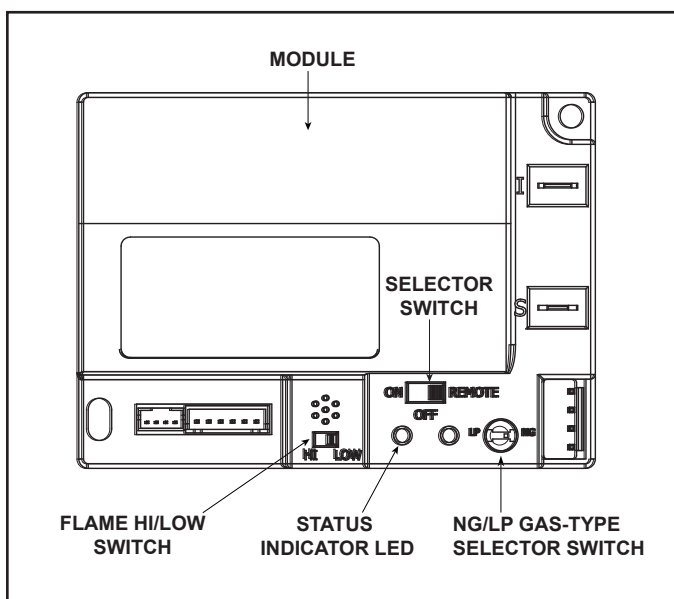


Figure 2. Control Module

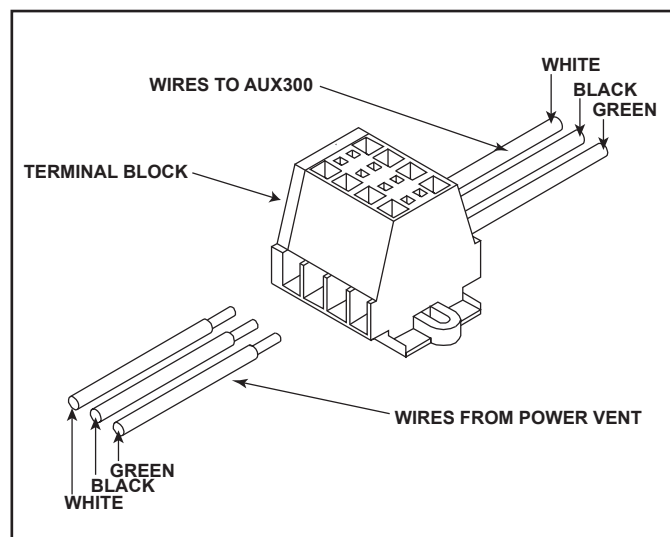


Figure 3. Terminal Block Detail

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.fireside.com.
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