

## WSK100, WSK200 and WSK210 Wall Switches

- Installation and Operating Instructions -

### CAUTION



#### DO NOT DISCARD THIS MANUAL

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



### INTRODUCTION

The WSK100 and WSK200 wall switches are designed to switch the fireplace on or off, and the pilot function activates the pilot flame as well. These wall switches interface with Intellifire™ systems only.

### INSTALLATION PRECAUTIONS

This wall switch is tested and safe when installed in accordance with this installation manual. Do not install any components that may be damaged. Do not modify, disassemble, or substitute any of the components included with this kit. Installation of this kit must be done by a qualified service technician.

Placement of this wall switch may affect performance. An assessment of the space should be done prior to installation for optimum performance. See **Section 1.1** for location recommendations.

**NOTE:** The electrical junction box provided with the fireplace must be wired with 110 VAC before installing this kit. See owner's manual for details.

**NOTE:** All wiring should be done by a qualified electrician and shall be in compliance with local codes and with the National Electric Code **ANSI/NFPA No. 70** - current (in the United States), or with the current **CSA C22.1 CANADIAN ELECTRIC CODE** (in Canada).

### ⚠ WARNING



#### Shock Risk

Do NOT provide any power to this unit until all wiring is complete.

- May destroy parts of this device and render it unusable.
- May lead to possible electrical shock.

### ⚠ WARNING



Inspect components for damage. Damaged parts may impair safe operation.

- Do NOT install damaged components.
  - Do NOT install incomplete components.
  - Do NOT install substitute components.
- Report damaged parts to dealer.

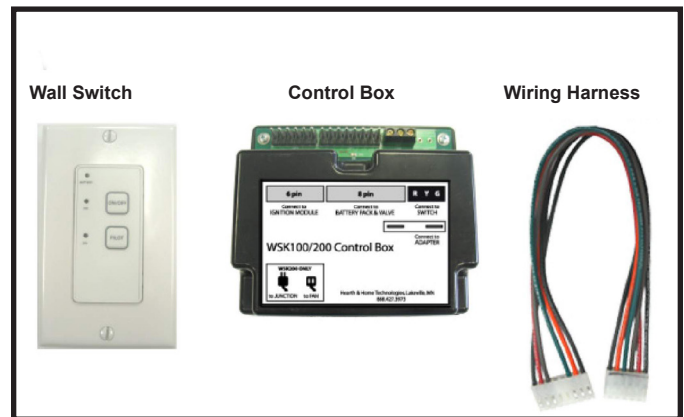


Figure 1. Items included in the WSK100 Wall Switch Kit

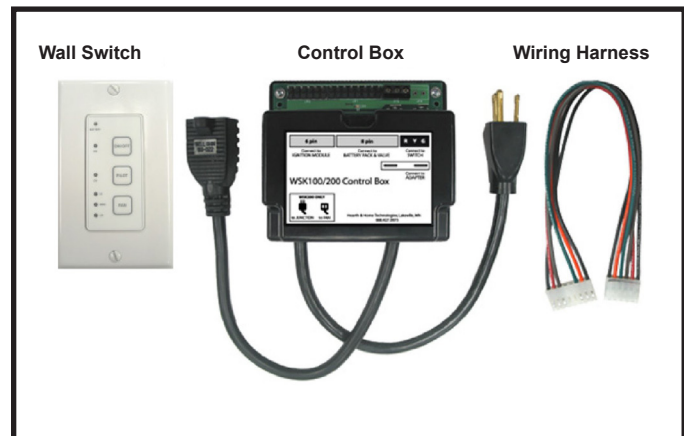


Figure 2. Items included in the WSK200 and WSK210 Wall Switch Kit. (Delay circuit not shown).

## 1.0 INSTALLATION INSTRUCTIONS

### 1.1 Determine Location

Determine the location for the wall switch. The selected location should be in the same space as the gas fireplace. Never place this switch in a separate room. The distance from the fireplace to the switch may be up to 50 ft.

The switch should be mounted into a UL-listed electrical junction box. The junction box should be dedicated to this wall switch. Never install this wall switch into a junction box that is shared with other electrical service or devices. If possible, install this switch on an interior wall of the residence at a recommended height of 5 ft from the flooring.

Should the switch be installed on an exterior wall, be certain wall insulation is kept intact and not damaged or dislodged during the installation of the electrical junction box. For exterior wall installations, it is recommended that the junction box be sealed with caulking material. This will minimize heat loss through this location.

### 1.2 Wiring the wall switch

**NOTE:** Wire supplied on the unit will be red, white and green. Wire purchased separately will be red, yellow and green.

1. Install the control wire from the fireplace to the switch location. Use caution not to stress the wire around tight or sharp corners. Do not run the control wire adjacent to existing or future phone, data, cable, or electrical lines. The wire should not come into contact with any part of the fireplace exterior with the exception of where it exits the outer wrap. Feed the wire to the electrical junction box and through a provided or approved strain relief.
2. Strip outer casing back about 1-1/2 inch. Use caution to avoid stripping inner wires.
3. Strip the white or yellow, red and green wire casings back about 3/8 inch.
4. Use a screw driver to connect the red wire to the "R" terminal, white or yellow wire to the "Y" terminal, and the green wire to the "G" terminal. Do not overtighten.
5. Use the screws provided to mount the switch to the electrical junction box right side up.
6. Install provided cover plate using the screws provided. Do NOT use a substitute cover, even though it may fit.

### 1.3 Installing the Control Box

#### **WARNING**



Burn Risk.



Shock Risk.

- Do not install the control box when fireplace is hot.
- Do not plug control box in until all connections are complete.

1. Place control box into the base pan area of the fireplace. Place unit as close to the louvers or decorative front as possible and to either the left or right side.
2. Connect the red, yellow or white and green wires to the R, Y and G labeled terminals on the control box.
3. Unplug the 8-pin wiring connector from the ignition module box and plug it into the 8-pin connector slot on the WSK control box.
4. Using the supplied wiring harness, plug the 8-pin connector into the ignition module and the 6-pin connector into the WSK control box.
5. Unplug the 3 volt adapter from the green ignition module and plug it into the spade terminals of the black WSK control box.

### 1.4 Installing the Blower (WSK200/210 Only)

1. See fireplace owner's manual on fireplace for location of the blower.
2. Plug the power cord from the blower into the WSK control box.
3. Disconnect and remove the temperature sensor switch and speed control (rheostat) from the fireplace.

**NOTE:** The WSK200 and WSK210 have a built in timer to turn the blower ON and OFF.

- The blower turns ON after 7 minutes.
- The blower turns OFF after 12 minutes.

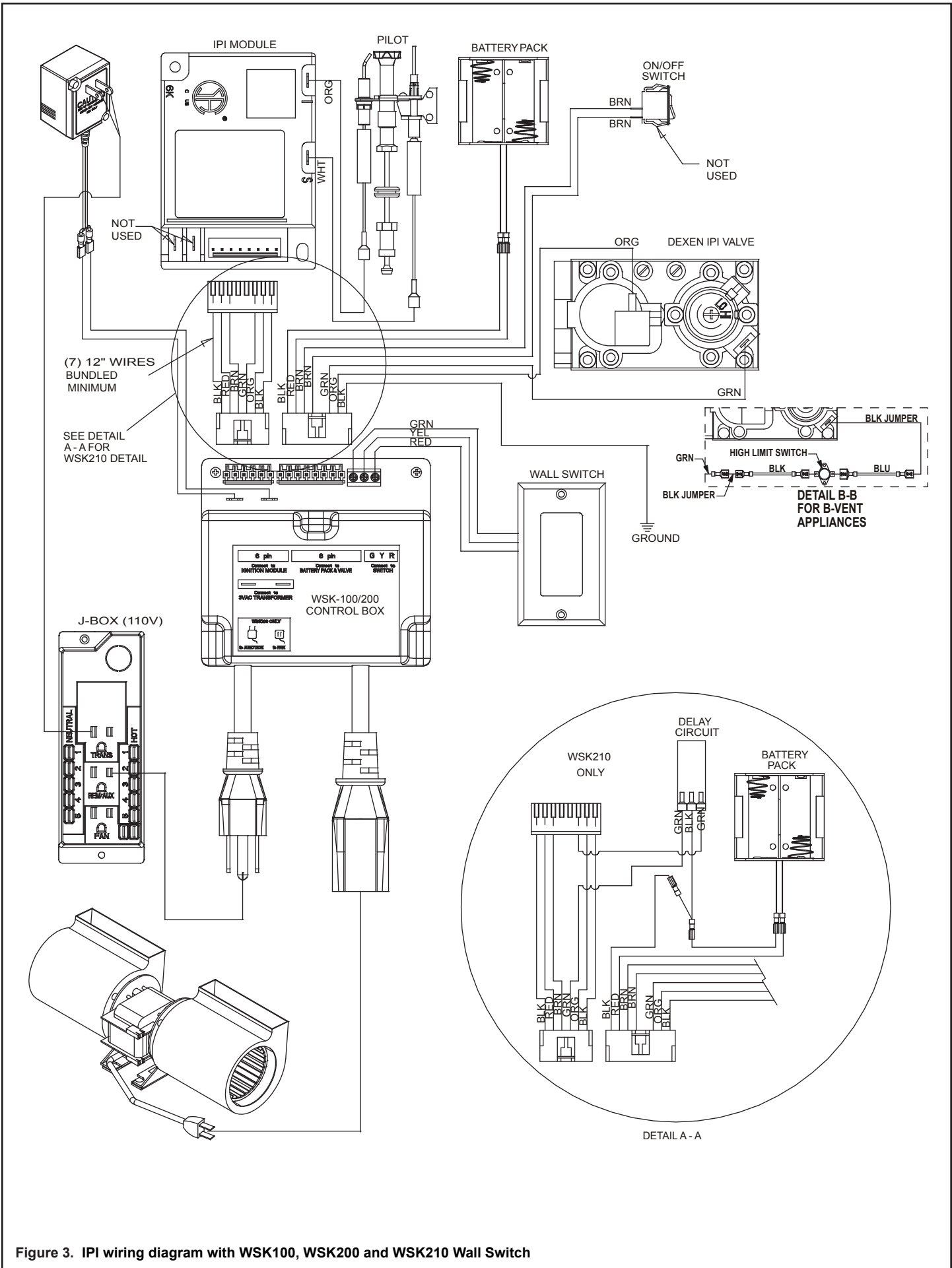


Figure 3. IPI wiring diagram with WSK100, WSK200 and WSK210 Wall Switch

## 2.0 OPERATION INSTRUCTIONS

**NOTE:** If the fireplace has an ON/OFF rocker switch (located near the gas valve), the switch may either be disconnected or turned to the OFF position. Rocker switch is not required for operation of this control.

### 2.1 Wall switch button operation

#### On/Off Button

- Button Press: Turns fireplace ON
- Button Press: Turns fireplace OFF

During severe cold weather, homeowners may find that activating the pilot assists in lighting the fireplace. Use the pilot button to switch from “as-needed” pilot to “constant-on”.

#### Pilot Button

- Button Press: Turns Pilot to “Constant-on”
- Button Press: Turns Pilot to “As-needed”

#### Fan Speed Button (WSK200 Only)

- Button Press: Turns fan on high
- Button Press: Turns fan on medium
- Button Press: Turns fan on low
- Button Press: Turns fan on off

## 3.0 TROUBLESHOOTING

### Effects of Line Power Failure

The operating characteristics of your fireplace may vary during a power failure or power outage. The options listed below will help determine the current state of your system.

Condition (at time of power failure)	Result
Wall switch is in ON mode with the main flame on and has no battery backup or has dead batteries.	The fireplace will shut down and the display lights in the wall switch will be off. When the power is restored to the system, the display lights will remain unlit and the fireplace will remain off.
Wall switch is in OFF mode with the main flame OFF and has no battery backup or has dead batteries.	The fireplace burner is not currently lit and will stay off. The display lights in the wall switch will be off. When the power is restored to the system, the display lights will remain unlit and the fireplace will remain off.
Wall switch is in ON mode with the main flame on and has battery backup.	The fireplace will shut down and the display lights in the wall switch will be off. When the power is restored to the system, the main burner flame and display lights will remain off.
The wall switch is in OFF mode with the main flame off and has battery backup.	The fireplace will stay off and the display lights in the wall switch will be off. When the power is restored to the system, the main burner flame and display lights will remain off.

Battery Light Functions	
On/lit	Battery is in use
Flashing	Low battery power
Off	110VAC power in use

**Note:** The WSK200 does not change automatically from one power source to the other (from 110 VAC to the battery backup or battery backup to 110 VAC).

**NOTICE:** Remove batteries from battery backup when not in use. Batteries tend to corrode over time.

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