

# Installation Instructions

## Model Number ZDV3624NB, ZDV3624LPB

### Zero Clearance Direct Vent Gas Fireplace

Stock #'s: ZDV3624NB, ZDV3624LPB, are  
certified to: ANSI Z21.88-2009, CSA 2.33-2009

**INSTALLER: Leave this manual with the appliance.**  
**CONSUMER: Retain this manual for future reference.**



This appliance may be installed in an aftermarket permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.  
This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

**Read this complete manual before beginning installation.**  
**These instructions must be kept with the unit for future reference.**

## FOR YOUR SAFETY



**WARNING:** If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.



**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to this manual. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

#### What to Do If You Smell Gas

- Do not try to light any appliance.
- Extinguish any open flame.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone.
- If you can not reach your gas supplier, call the fire department.



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## PRE-INSTALLATION QUESTIONS and ANSWERS

### Why does my fireplace or stove give off odour?

It is normal for your fireplace to give off some odour. This is due to the curing of the paint, adhesives, silicones and any undetected oil from the manufacturing process as well as the finishing materials used with the installations (e.g. marble, tile and the adhesives used to adhere this product to the walls can react with heat and cause odours).

It is recommended that you burn your gas fireplace or stove for a minimum of four hours at a time with the fan off after the curing of the paint has been completed. These odours can last upward to 40 hours of burn time, keep burning at a minimum of four hours per use until odours dissipate.

### About curing of the paint

Your stove or fireplace has been painted with the highest quality silicone stove paint. This paint dries quickly in 15-20 minutes when first applied at the factory. However, due to the high temperature silicone components, the paint will cure when heat is applied to the appliance as it is first used.

The following information **applies to the curing process** to get the paint fully hard and durable.

Fire the appliance four successive times for 10 minutes each firing and a 5 minute cool down between each. Be aware during log and firebox paint curing that a white deposit may be developing on the inside of the glass doors. It is important to remove this white deposit from the glass doors with an appropriate cleaner to prevent build-up (such as Windex or a commercial fireplace glass cleaner).

- Babies, small children, pregnant women and pets should leave the area during the cure phase.
- Ventilate well, open doors and windows.
- Do not touch during curing.

### Noise coming from the fireplace?

- Noise caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of your fireplace.
- Different types and thicknesses of steel will expand and contract at different rates resulting in “cracking” and “ticking” sounds throughout the heating and cooling periods.
- You should also be aware that as temperatures change within the unit these sounds will likely re-occur. Again this is normal for steel fireboxes, and is not a defect.

### Cleaning the Glass

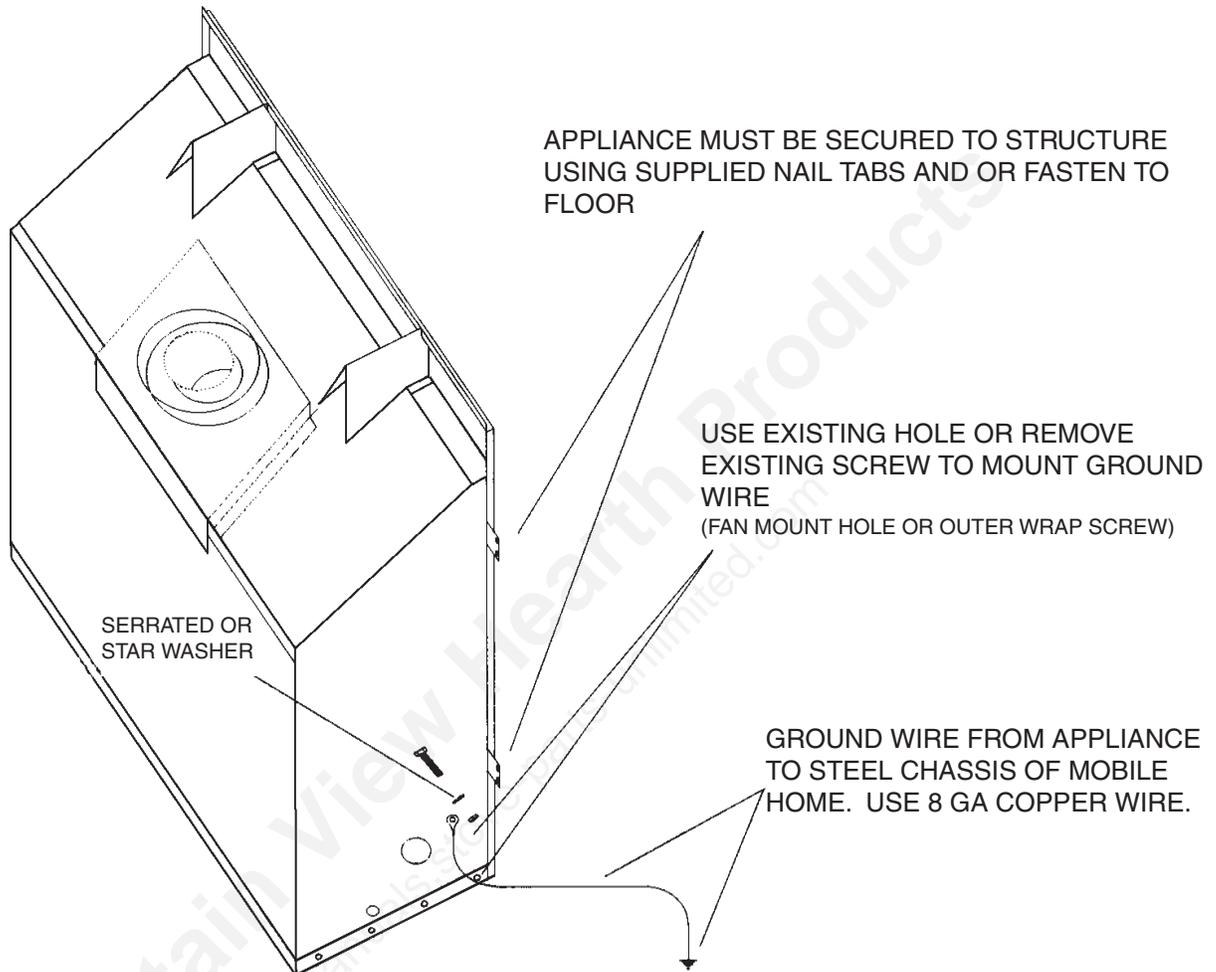
During the first few fires, a white film may develop on the glass front, as part of the curing process. The glass should be cleaned after the unit has cooled down or the film can bake on and become very difficult to remove. Use a non-abrasive cleaner and do not attempt to clean the glass while it is hot.

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## Mobile Home/Manufactured Housing Installation

This Direct Vent System Appliance must be installed in accordance with the manufacturer's installation instructions and the Manufactured Home Construction and Safety Standard Title 24 CFR, Part 3280, or the current Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities ANSI/NFPA 501A, and with CAN/CSA Z240 MH Mobile Home Standard in Canada.



**THE ZDV3624NB, ZDV3624LPB, ZDV3628N, ZDV3628LP, ZDV3632N and ZDV3632LP MAY BE INSTALLED IN MANUFACTURED (MOBILE) HOMES AFTER FIRST SALE IN THE USA. IN CANADA THE ZDV3628N, ZDV3628LP, ZDV3632N AND ZDV3632LP MAY BE INSTALLED IN MANUFACTURED (MOBILE) HOMES.**

Please follow the current ANSI/NFPA 70 National Electrical Code in the USA and CAN/CSA C22.1 Canadian National Electrical Code in Canada.

An appliance must be grounded to the steel chassis of the home with 8 ga. copper wire using a serrated or star washer to penetrate paint or protective coating to insure grounding.

Use carriage bolt at the attachment point (see diagram above) to secure the appliance to the floor.



**WARNING:** Do not compromise the structural integrity of the manufactured home wall, floor or ceiling, during installation of appliance or venting.

***For required venting components see venting installation in appropriate section of this manual.***

Certified for installation in a bedroom or bed/sitting room. In Canada must be installed with listed milli volt thermostat. In USA see local codes.

## Warnings, Installations, and Operations

### Installation Regulations

This gas appliance must be installed by a qualified installer in accordance with local building codes, or in the absence of local codes, with the current CAN/CGA-B149.1 Installation Code (in Canada) or the current National Fuel Gas Code Z223.1 when installed in the United States.

This appliance, when installed, must be electrically connected and grounded in accordance with local codes, or in the absence of local codes, with the current CSA C22.1 Canadian Electrical Code or with the national Electrical Code; ANSI/NFPA 70-1987 when installed in the United States.

# **WARNING**

### FOR SAFE INSTALLATION AND OPERATION OF YOUR GAS FIREPLACE PLEASE NOTE THE FOLLOWING:

1. Do not clean when the glass is hot.
2. Do not use abrasive cleaners.
3. Using a substitute glass will void all product warranties.
4. For safe operation, glass doors must be closed.
5. When purging the gas line, the glass front must be removed.
6. Do not strike or abuse glass. Take care to avoid breakage.
7. Do not alter gas orifice.
8. No substitute materials may be used other than factory supplied components.
9. This appliance gives off high temperatures and should be located out of heavy traffic areas and away from furniture and draperies.
10. Children and adults should be alerted to the hazards of the high surface temperatures of this appliance and should stay away to avoid burns or ignition of clothing.
11. Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
12. Under no circumstances should any solid fuels (wood, paper) be used in this appliance.
13. Under no circumstances should this appliance be modified. Any parts that have to be removed for servicing should be replaced prior to operating this appliance.
14. Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.
15. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean. Make sure that the gas valve and pilot light are turned off before you attempt to clean this unit.
16. Clothing or other flammable material should not be placed on or near the appliance. This appliance should not be used as a drying rack for clothing nor should Christmas stockings or decorations be hung from it.
17. Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.
18. Do not operate appliance unless completely installed as per installation instructions.
19. Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.
20. Do not operate appliance with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.
21. The front of the fireplace gives off high temperatures that could ignite combustible material which is kept close to the front of the unit.
22. Ensure that power to the Fireplace is turned off before servicing.
23. Do not operate this Fireplace without the glass front or with a broken glass.
24. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.
25. Operation of this appliance when not connected to a properly installed and maintained venting system or tampering with the blocked vent shutoff system can result in carbon monoxide (CO) poisoning and possible death.



- Gas fired appliances may be used only for supplemental heat and/or decorative purposes and under no circumstances shall they provide a primary heat source.
- This appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

NOTE: It is recommended that a Carbon Monoxide (CO) Detector be installed in or near bedrooms and on all levels of your home. Place a detector about 15ft [4.5m] outside the room that houses your gas appliance.

Certified for installation in a bedroom or bed/sitting room. In Canada must be installed with listed millivolt thermostat. In USA see local codes.

## Operations and Maintenance Instructions

For safe installation and operation note the following:

- The Burner/Log Assembly has been engineered and permanently adjusted for proper flame control.
- Periodically remove the logs from the grate assembly and vacuum any loose particles from the grate and burner areas. See Log Placement page to remove logs. Vacuum burner parts and replace logs.
- Never use our gas fireplace as a cooking device.
- Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

## Installation Requirements for the Commonwealth of Massachusetts

In the Commonwealth of Massachusetts, the installer or service agent shall be a plumber or gas fitter licensed by the Commonwealth.

When installed in the Commonwealth of Massachusetts or where applicable codes; the unit shall be installed with a CO detector per the requirements listed below.

1. For direct-vent appliances, mechanical-vent heating appliances or domestic hot water equipment, where the bottom of the vent terminal and the air intake is installed below four feet above grade the following requirements must be satisfied:
  - A. If there is not one already present, on each floor level where there are bedroom(s), a carbon monoxide detector and alarm shall be placed in the living area outside the bedroom(s). The carbon monoxide detector shall comply with NFPA 720 (2005 Edition).
  - B. A carbon monoxide detector shall be located in the room that houses the appliance or equipment and shall:
    - Be powered by the same electrical circuit as the appliance or equipment such that only one service switch services both the appliance and the carbon monoxide detector;
    - Have battery back-up power;
    - Meet ANSI./UL 2034 Standards and comply with NFPA 720 (2005 Edition); and
    - Have been approved and listed by a Nationally Recognized Testing Laboratory as recognized under 527 CMR.
  - C. A Product-approved vent terminal must be used, and if applicable, a Product-approved air intake must be used. Installation shall be in strict compliance with the manufacturer's instructions. A copy of the installation instructions shall remain with the appliance or equipment at the completion of the installation.
  - D. A metal or plastic identification plate shall be mounted at the exterior of the building, four feet directly above the location of vent terminal. The plate shall be of sufficient size to be easily read from a distance of eight feet away, and read "Gas Vent Directly Below"
2. For direct-vent appliances, mechanical-vent heating appliances or domestic hot water equipment where the bottom of the vent terminal and the air intake is installed above four feet above grade the following requirements must be satisfied:
  - A. If there is not one already present, on each floor level where there are bedroom(s), a carbon monoxide detector and alarm shall be placed in the living area outside the bedroom(s). The carbon monoxide detector shall comply with NFPA 720 (2005 Edition).
  - B. A carbon monoxide detector shall:
    - Be located in the room that houses the appliance or equipment;
    - Be either hard-wired or battery powered or both; and
    - Shall comply with NFPA 720 (2005 Edition).

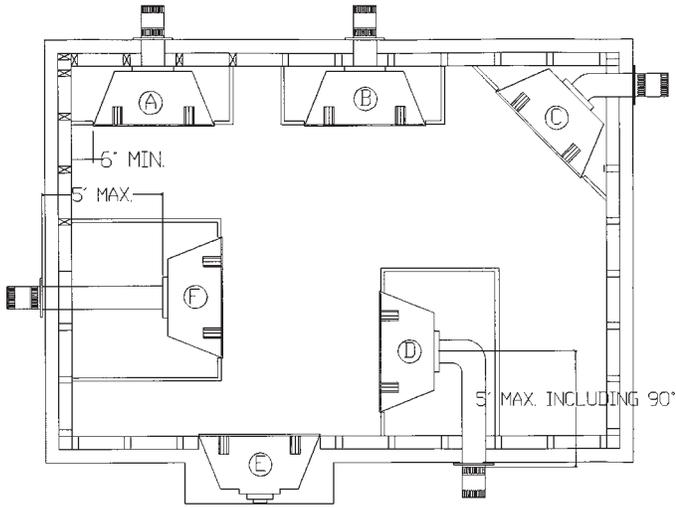
A Product-approved vent terminal must be used, and if applicable, a Product-approved air intake must be used. Installation shall be in strict compliance with the manufacturer instructions. A copy of the installation instructions shall remain with the appliance or equipment at the completion of the installation.

For the state of Massachusetts a **T-handle gas shut-off valve** must be used on a gas appliance. This T-handle gas shut-off valve must be listed and approved by the state of Massachusetts. This is in reference to the state of Massachusetts state code CMR238.

# Locating your Appliance

(above grade)

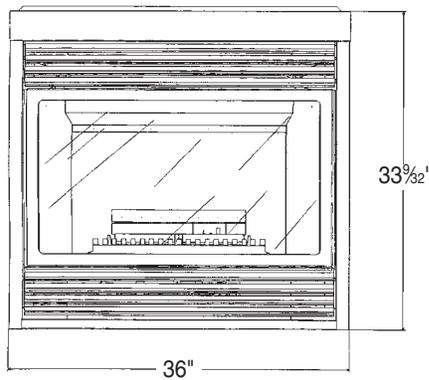
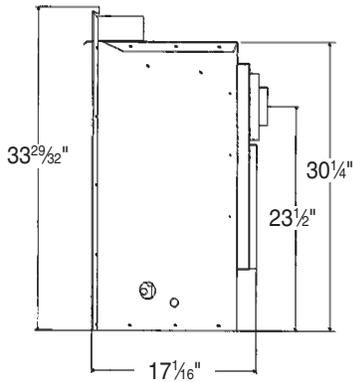
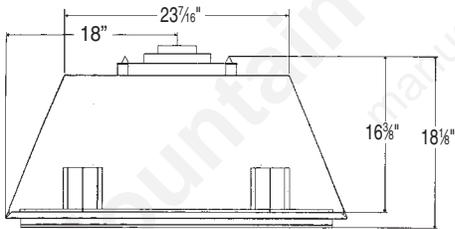
## Installing with Back Vent



- A - Flat on a wall
- B - Across the corner
- C - As an island
- D - As a room divider
- E - Flat on wall corner
- F - Exterior wall

ZDV3624B

## Back Vent

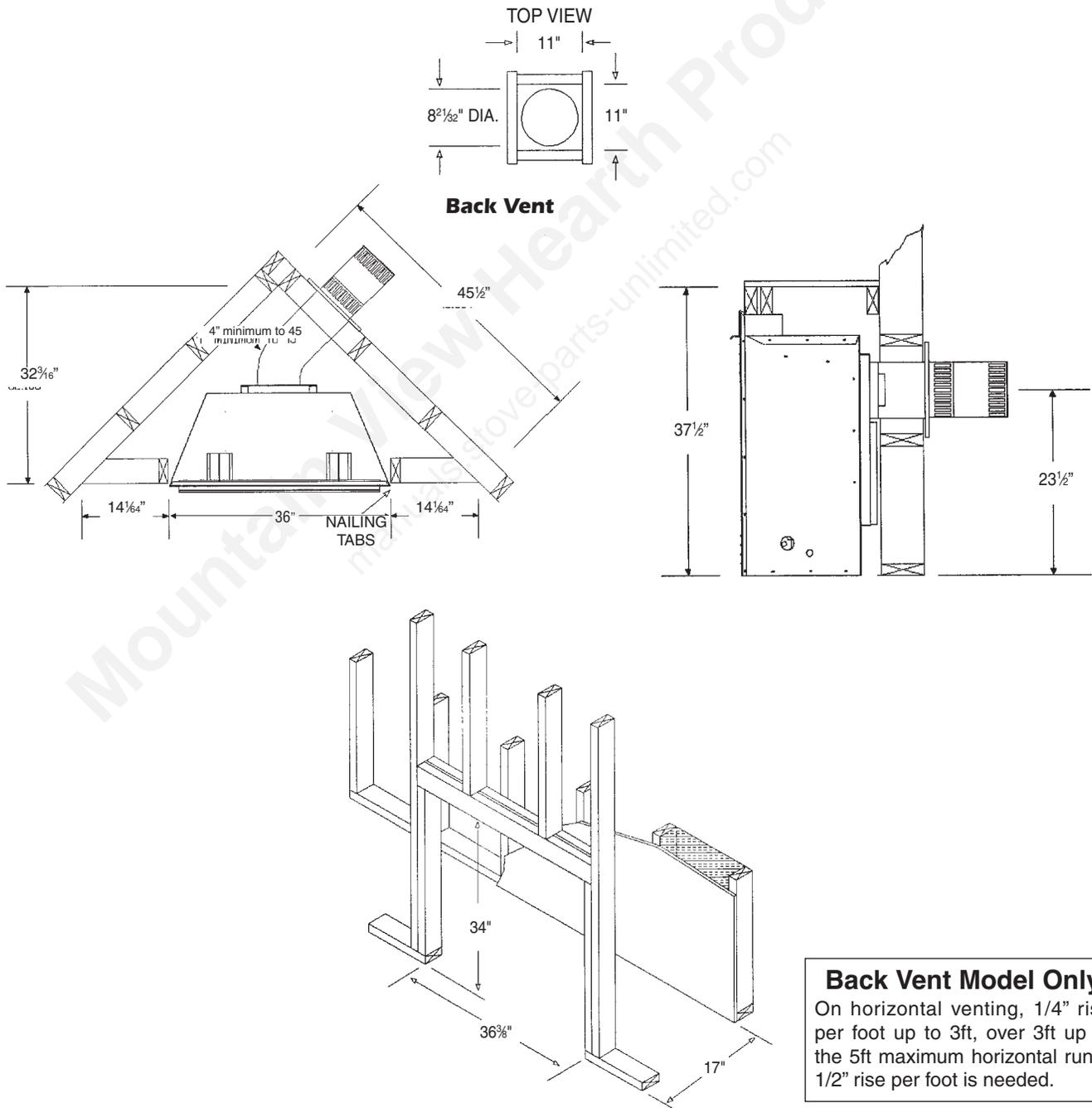


# Framing for your Gas Fireplace

## Framing Specifications

1. Cold climate installation recommendation: When installing this fireplace against non insulated exterior wall or chase, it is recommended that the outer walls be insulated to conform to applicable insulation codes. Drywall should be installed over insulation to prevent contact of insulation and unit.
2. Choose fireplace location and frame in accordance with the fireplace framing dimensions specified (See Framing Diagrams). Bend nailing tabs forward on left and right of unit and place fireplace into framed enclosure. This allows for 1/2" in front of framing tabs for finishing materials.
3. Drywall or other material can extend flush with the appliance on the bottom, sides and top of fireplace.
4. When installing horizontal with a 90 degree bend maintain a minimum of two and a half (2.5") inches above the bend in enclosures.
5. Hearth is not mandatory but is recommended for aesthetic purposes. Combustible floors cannot raise above the bottom of the fireplace. We recommend a non-combustible hearth projecting out 12" (305mm) or more in front of the fireplace.

It is recommended for **Propane Horizontal Installations** that the venting should be a minimum of one foot vertical off the flue before the elbow on any horizontal runs of one foot or greater. This allows for cleaner combustion and greatly reduces carboning and cleaning of glass. (Does not apply to Back Flue Models).



### Back Vent Model Only

On horizontal venting, 1/4" rise per foot up to 3ft, over 3ft up to the 5ft maximum horizontal run 1 1/2" rise per foot is needed.

### Clearance to Combustibles

Back (from Standoffs)	0 inches/0 mm
Side (from standoffs)	0 inches/0 mm
Ceiling (from bottom of fireplace)	60 inches/150 cm
Floor	0 inches/0 mm
Top (from standoffs)	0 inches/0 mm
Top of 90 degree bend in Minimum Enclosure of 42 inches	5 1/2 inches/140 mm / All Vent Systems
Top of 90 degree bend in Enclosure over 42 inches	2 1/2 inches/64 mm / All Vent Systems
Top of Horizontal Pipe	1 1/2 inches/38 mm / All Vent Systems
Side & Bottom of Horizontal Pipe	1 inch/25.5mm / All Vent Systems
Vertical Vent Pipe	1 inch/25.5mm / Kingsman Vent Systems
Vertical Vent Pipe Simpson/AmeriVent/Selkirk	1 1/4 inch/32mm / Systems

(NOTE -Floor) if installing the appliance directly on carpeting or other combustible materials other than wood flooring, the appliance shall be installed on a metal or wood panel, the full width and depth of the appliance. Carpet may extend 1/2 inch above the floor of appliance.

**Note: See Mantel Chart**

### Mantels

Depending on the depth of the fireplace mantel, it may be installed higher or lower from the top of the fireplace opening. See drawings for proper installation height of your combustible mantel. Non-combustible mantels may be installed at any height above the fireplace opening.

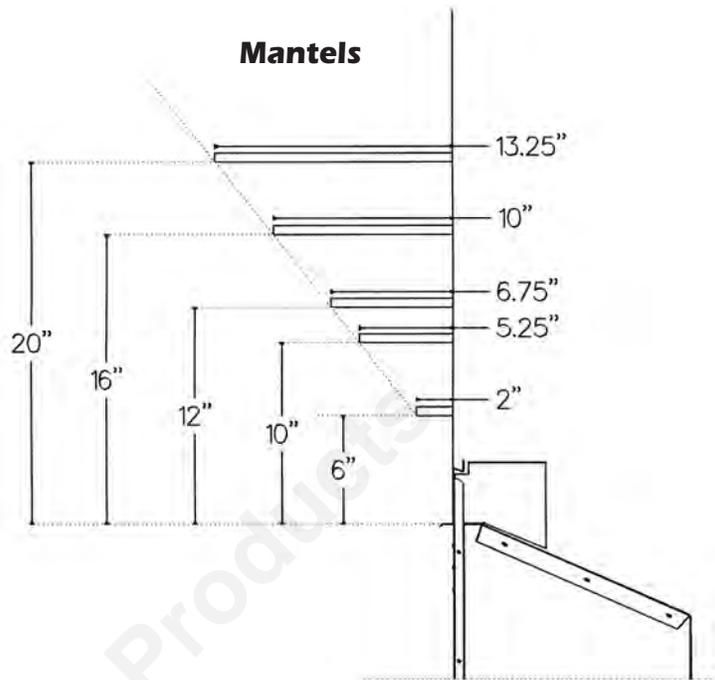
Non combustible materials such as brick, tile, etc. can extend up to or over the front face of the fireplace (NO PORTION OF GRILL AREA OR DOOR AREAS CAN BE COVERED).

Combustible material can extend flush to unit up to the top, bottom and sides of fireplace to stand-offs.

If slim line brass surround is used, brick, tiles or other NON-COMBUSTIBLE materials may extend past the front of unit giving a recessed appearance. For COMBUSTIBLE materials extending in front of fireplace consult (Mantel and Mantel Leg Drawings).

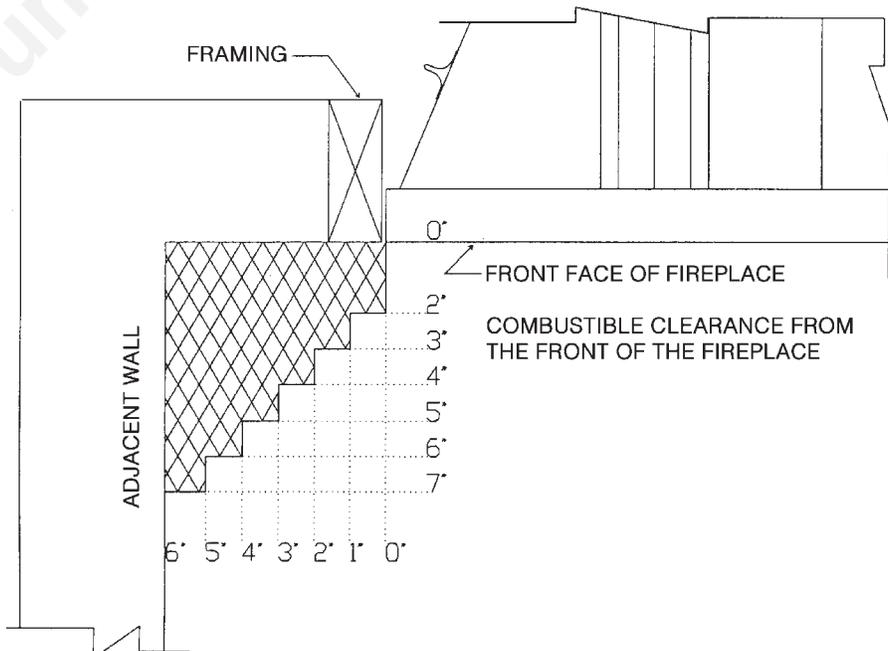
If wide brass surround is used finish materials must be flush with front of unit.

**Note: When using paint or lacquer to finish the mantel, such paint or lacquer must be heat resistant (250° F) to prevent discoloration.**



**WARNING:** Combustible objects must not be placed on a non-combustible mantel unless the non-combustible mantel meets the minimum height and width requirements for a combustible mantel.

### Mantel Leg Clearances



# Fan Kit Installation for Fan Assembly Z36FK

## Fan Mounting Instructions

1. Install Thermodisc provided with Fan kit. Screws and washer spacers are Factory installed in bottom of firebox. Washer spacers are to be placed in between firebox and thermodisc.
2. (NEW STYLE MOUNTING SYSTEM). The bottom of the unit has 2 tabs prepunched (bent upwards) for the rubber grommets in fan bracket. Place fan bracket over tabs. This will secure the fan.
3. Junction box should be mounted to opposite side and wired to variable speed control and 120v power.
4. Plug fan into junction box and attach the 2 leads exiting the fan housing into the thermodisc.
5. Close lower access cover.
6. Turn the wall switch on (clockwise). Turn the fireplace on. Once the sensor unit reaches operating temperature in approximately 10 to 15 minutes the fan will turn on. The fan can be switched off, if desired, by turning the wall switch fully counter-clockwise.
7. To set the minimum fan speed, if desired, remove the variable speed switch from the wall mount. Turn the variable speed wall controller to its minimum setting (fully clockwise). Use the set screw on the side of the variable speed controller to increase or decrease the minimum fan speed. (It may be desirable to lower minimum fan speed to decrease the sound level created by the fan.) Reinstall switch into wall mount and cover with face plate.

## Electrical Services

All optional fan kits are equipped with a 120V, 60Hz blower.

Note: All electric connections are to be made in accordance with CSA Standard C22.1 - Canadian Electrical Code part I or with the National Electrical Code, ANSI/NFPA 70 (latest edition) and/or in accordance with local codes.



### WARNING: Electrical Grounding Instructions.

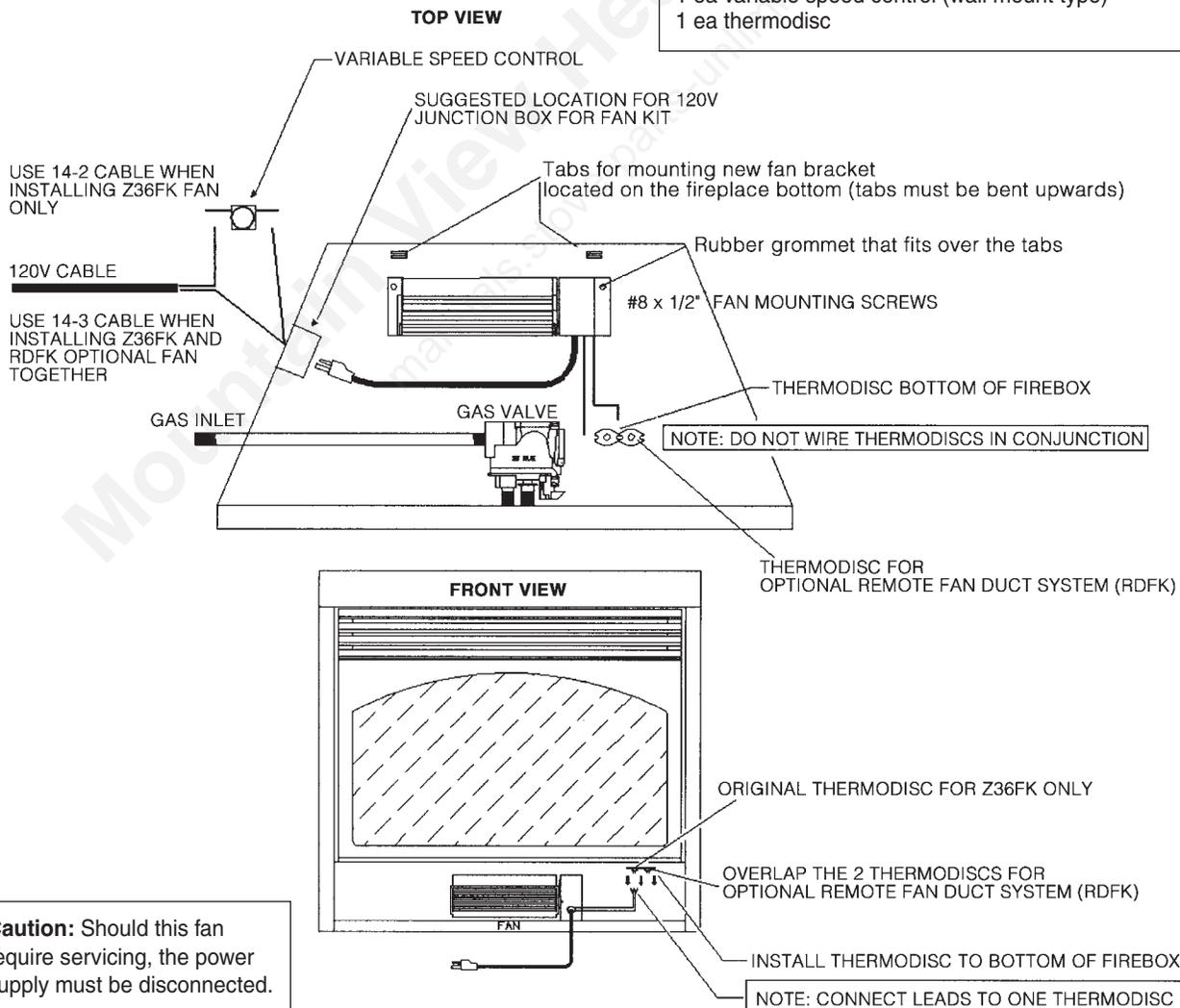
This appliance is equipped with a three-pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

**Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.**

**Verify proper operation after servicing.**

### Parts List:

- 1 ea. fan comes with 4 ft cord. Two 14' leads (female ends)
- 2 ea #8 x 1/2" screws
- 1 ea variable speed control (wall mount type)
- 1 ea thermodisc



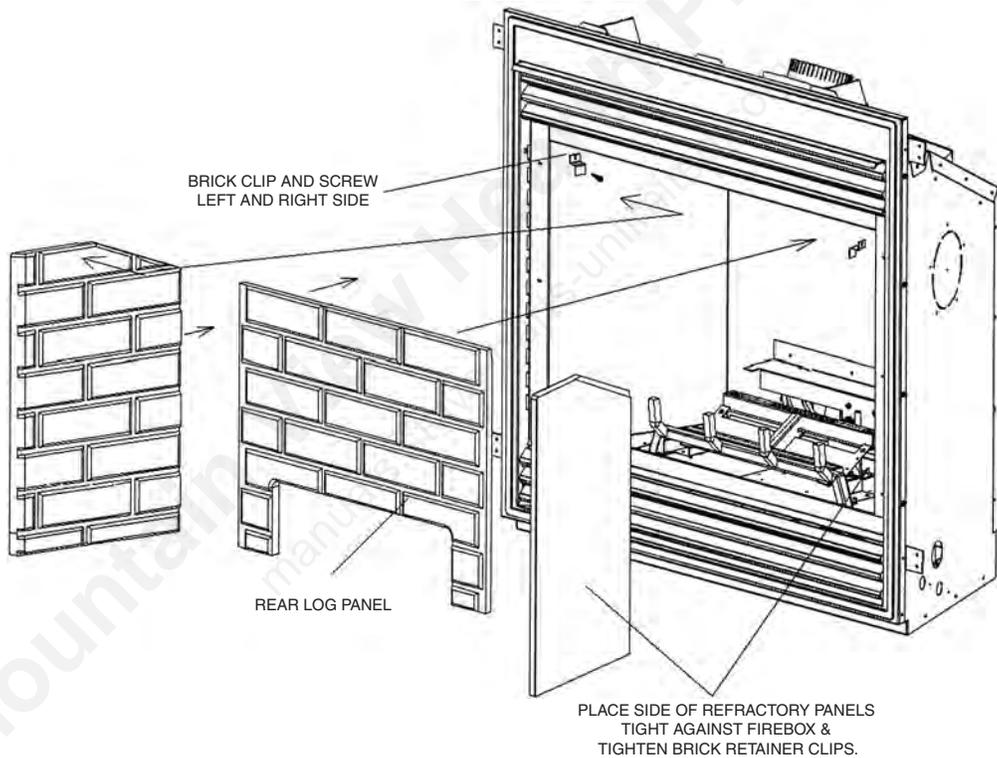
**Caution:** Should this fan require servicing, the power supply must be disconnected.

**NOTE: CONNECT LEADS TO ONE THERMODISC ONLY.**

## Brick Installation

### INSTALLING BRICK PANELS FOR MODEL ZDV3624 AND ZDV3628

1. PLACE REAR BRICK PANEL AGAINST REAR OF FIREPLACE
2. LOOSEN SCREW HOLDING BRICK CLIPS IN POSITION , MOVE CLIPS UP OUT OF THE WAY AND PLACE SIDE BRICKS UP TO REAR BRICK AND FLUSH AGAINST SIDE WALL OF FIREBOX. POSITION CLIPS OVER BRICK AND TIGHTEN SCREWS.



## General Glass Information

### Glass Cleaning

It will be necessary to clean the glass periodically. During start-up, condensation, which is normal, forms on the inside of the glass and causes dust, lint etc. to cling to the glass surface. Also, initial paint curing can deposit a slight film on the glass. It is therefore recommended that initially the glass be cleaned two or three times with non-abrasive common household glass cleansers and warm water. After that, the glass should be cleaned two or three times a season depending on the circumstances.



#### Warning and Cautions.

- Do not clean when the glass is hot.
- Do not use abrasive cleaners.
- Using a substitute glass will void all product warranties.
- Do not strike or abuse glass. Care must be taken to avoid breakage of the glass.
- Do not operate this fireplace without the glass front or with a broken glass.

### Glass Replacement

#### REPLACEMENT GLASS FOR BOTH DIRECT VENT UNITS

Model Series ZDV3624 can use either tempered glass or Robax ceramic or coated Neoceram glass. Must be 5mm thick.

Only Robax ceramic or coated Neoceram glass may be used for replacement for model ZDV3628 and ZDV3632. Must be minimum 5mm thick.

To replace glass, clean all materials from door frame. Scrape off old silicone down to metal. Using a high heat silicone temperature-resistant to 500°F (260°C) apply a continuous bead of approximately 1/32" to all four sides of frame and insert glass with new gasket. Frame should be on flat surface, with a small amount of weight pressing glass into silicone. Let dry approximately 15 to 20 minutes. The door can be re-installed by reversing Steps 1 & 2. Use caution when removing broken glass, wear gloves.

#### Removal of the Glass Door

1. Remove the two screws located behind upper grill or unfasten latches if so equipped.
2. To remove, pull frame forward and lift from bottom door retainer channel.

## Appliance/Log Reference Chart/Log Placement

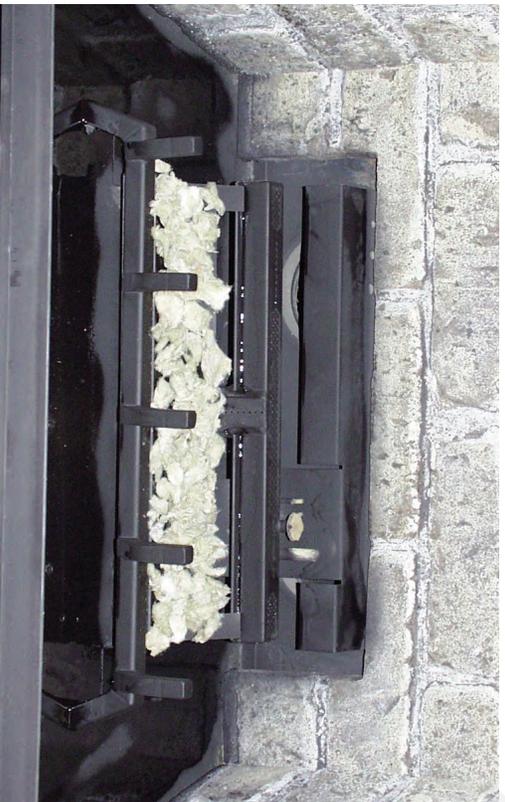
The following is a list of models and appropriate log sets that can be used with each model. It is important that the appropriate log set is used with the correct model in order for the appliance to work properly.

Appliance	LOGC42	LOGC43	LOGC44	LOGC60
ZDV3624NB or LPB	✓	✓		

# LOGC42 - LOG C43 LOG PLACEMENT GUIDELINES - FOR MODEL ZDV3624B (4-PIECE LOG SET)



**FIGURE A** - Log set Ember kit and Crushed rock



**Step (4)** Break glowing embers into thumbnail size. Place glowing embers on to the surface of the front burner, to the surface of the ember plates and over crossover to the same height as ember plates. Height on front burner 1/2" to 3/4". Height on ember plates 3/4" to 1". Do not cover back air openings on ember plates.



**FIGURE B** - Rear log holder.

**Step (1)** Units are equipped with screws or latches. To remove glass door, either remove screws or unfasten latches and lift door off bottom door retainer.

**Step (2)** Remove logs from carton and inspect each log.

**Step (3)** Verify to see that the ember plates (2 pcs) are between front and back burner.



**Step (5)** Place front log over burner, against decorative grate. Be sure that front log is tight up against the decorative grate.

## LOG C42 - LOGC43 LOG PLACEMENT (continued) - FOR MODEL ZDV3624B



**Step (6)** Place rear log on to the log retainer 1/2" away from back of fireplace. (If refractory liner is used, make sure refractory liner is installed first then back log is to be pushed up against it as tight as



**Step (7)** Place right crossover log across front and back logs using the log placement pin as a guide.



**Step (8)** Place left crossover log across front and back logs using the log placement pin as a guide.



**Step (9)** Place decorative moon rock on bottom of fireplace to simulate ash.

**DO NOT PUT ANY ROCK ON BURNERS!**

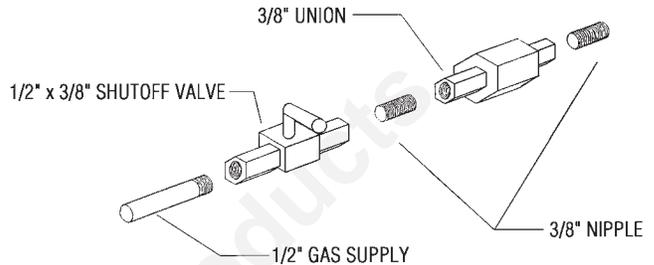
**Step (10)** Purge lines and test pilot operation.

**Step (11)** Replace glass door.

# Gas Line Installation

This gas appliance should be installed by a qualified installer in accordance with local building codes and with current CAN/CGA - B149.1 or .2 installation codes for Gas Burning appliances and equipment in Canada and the National Fuel Gas Code ANSI Z223 in the U.S.A.

1. The gas pipeline can be brought in through either the right or the left side of the appliance. A knockout is provided at either location to allow for the gas pipe installation and testing of any gas connection.
2. The gas control inlet is 3/8" NPT. Typical installation layout for rigid pipe is shown at right.
3. When using **copper** or **flex connector**, use only approved fittings. Always provide a union so that gas line can be easily disconnected for burner or fan servicing. See gas specification for pressure details and ratings.
4. When a vertical section of gas pipe is required for the installation, a condensation trap is needed. See CAN/CGA-B149.1 or .2 for code details.
5. For natural gas, a minimum of 3/8" iron pipe with gas minimum pressure of 4.5" w.c. must be used for supply from the gas meter. Consult with the local gas utility if any questions arise concerning pipe sizes.
6. A 1/8" NPT plugged tappings are accessible for test gauge connection both on the inlet and outlet of the gas valve.
7. Turn the gas supply ON and check for leaks. **DO NOT USE OPEN FLAME FOR THIS PURPOSE.** Use an approved leak testing solution.
8. The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 PSIG (3.5 KPa).
9. The appliance must be isolated from the gas supply piping system by closing its individual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 PSIG (3.5 KPa).



**Important:** Always check for gas leaks with a soap and water solution. Do not use open flame for leak testing.

For the state of Massachusetts a **T-handle gas shut-off valve** must be used on a gas appliance. This T-handle gas shut-off valve must be listed and approved by the state of Massachusetts. This is in reference to the state of Massachusetts state code CMR238.

**Note:** The gas line connection may be made of 1/2" rigid pipe or an approved flex connector. Since some municipalities have additional local codes, it is always best to consult your local authorities and the current CAN/CGA - B149.1 or .2 installation code in Canada or the National Fuel Gas code ANSI Z223.1 in the U.S.A.

## Gas Specifications

Models	Back Flue ZDV3624NB	Back Flue ZDV3624LPB
Fuel	Natural	Propane
Gas Control	Millivolt adjustable	Millivolt adjustable
Maximum Input	24,000 BTU High	22,000 BTU High
Minimum Input	14,000 BTU Low	15,000 BTU Low
Maximum Output	17,040 BTU	15,620 BTU
Orifice Size (0 - 4500 ft)	#42	#53
Air Shutter	.188	Fully Open
Gas Inlet Size S.I.T. 820 Nova, 3/8" NPT		
Gas Supply Pressure	Minimum	Normal      Maximum
Natural Gas	5.5"	7"              9"
Liquid Propane	11"	11"             12"
Manifold Pressure	Natural Gas	Liquid Propane
Manifold Pressure High	3.5 IN. W.C./ .87 KPa	10 IN. W.C./2.61 KPa
Manifold Pressure Low	1.6 IN. W.C./ .40 KPa	6.3 IN. W.C./1.57 KPa

# Millivolt System, Lighting, & Burner Control

## FOR YOUR SAFETY READ BEFORE LIGHTING

**WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.**

### BEFORE LIGHTING

- A** This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B** Smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS

- Do not try to light an appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.

- If you cannot reach your gas supplier, call the fire department.
- C** Use only your hand to push or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified technician. Force or attempted repair may result in a fire or explosion.
- D** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system which has been under water.

## LIGHTING INSTRUCTIONS

1. Stop! Read the safety information above on this label.
2. Set the thermostat to lowest setting.
3. Turn off all electrical power to the appliance.
4. Locate valve under the burner assembly.
5. If the control knob is not already in the off position, ie. the word "OFF" in the 9 o'clock position, then push in the gas control knob slightly and turn  clockwise to "OFF".  
NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not use force.
6. Wait five (5) minutes to clear out any gas. If you then smell gas. STOP! Follow "B" in the safety information above on this label. If you don't smell gas then go to the next step.
7. Now push in the control knob slightly and turn counter-clockwise  to the "PILOT" position.
8. Push in the control knob all the way and hold it. With the other hand push in the red ignitor button until you hear a click. Now observe closely the pilot burner located on the rear center-left hand side of the main burner. If a flame has appeared then continue to depress the control knob for 20 seconds. If the flame did not appear then continue to depress the red ignitor button every 5 seconds until a flame is established. NOTE: If after 30 seconds a flame has not yet been established then turn the control knob back to the off position and repeat steps 5, 6 & 7.
9. Once the pilot has been established hold the control knob in the depressed position for approximately 25 seconds before releasing. If the flame goes out then repeat steps 7 and 8.
10. Now turn the control knob to the "ON" position. The burner will not light unless the wall switch thermostat or remote control is turned "ON" or in the case of the thermostat there is a call for heat.
11. Close the access door and turn all electric power back to the appliance.

## TO TURN OFF THE APPLIANCE

1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Open the control access door.
4. Push in the gas control knob slightly and turn clockwise  to the "OFF" position. Do not force.
5. Replace control access panel.

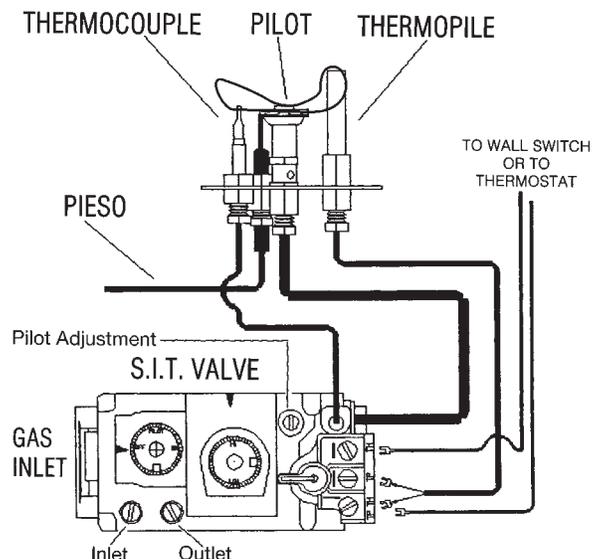
### Recommended Maximum Lead Length (Double Wire) When Using Wall Switch or Thermostat

Wire Size	Max. Length
14 GA.	100 FT.
16 GA.	64 FT.
18 GA.	40 FT.
20 GA.	25 FT.
22 GA.	16 FT.

#### Pilot Burner Adjustment

1. Adjust pilot screw to provide proper sized flame.

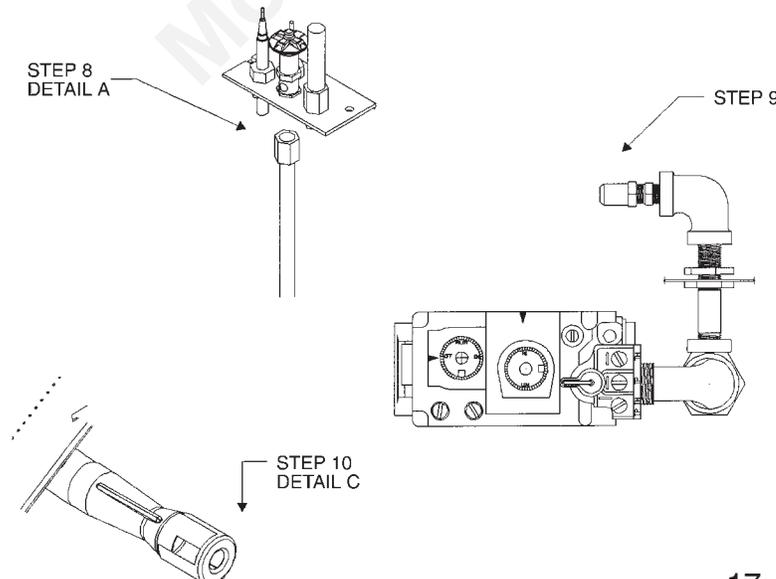
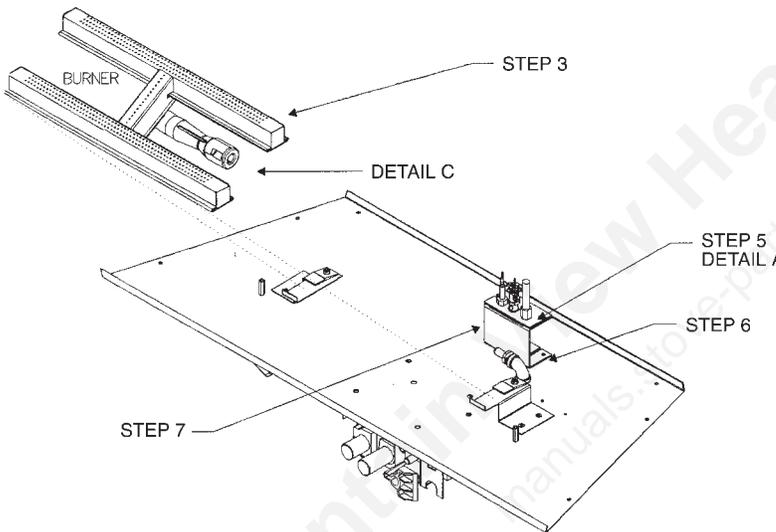
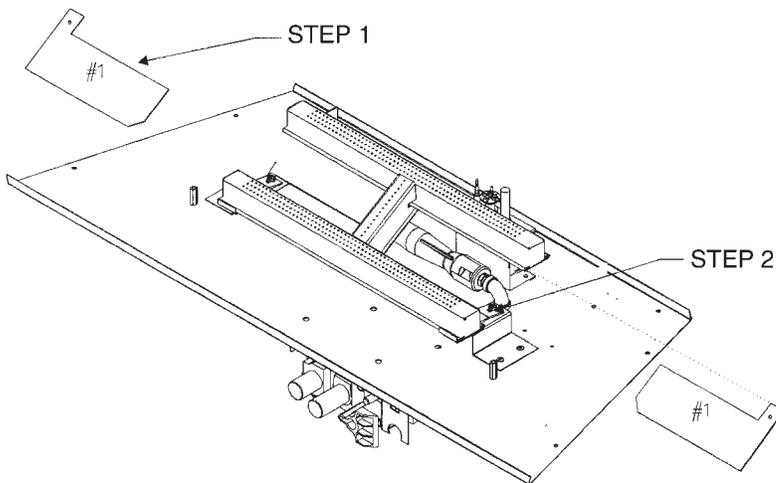
**CAUTION: DO NOT WIRE 120 VOLT POWER TO MILLI-VOLT SWITCHES OR THERMOSTAT.**





# CONVERSION KIT INSTRUCTIONS

PLEASE CONFIRM THAT STEP 4 IS UNDERSTOOD BEFORE PROCEEDING WITH CONVERSION.



## Warning

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit"

## SECTION A

- Step 1: Remove the 2 ember plates from the burner. This step may not be required, depending on the type of burner assembly.
- Step 2: Loosen the 2 screws holding the burner in place.
- Step 3: Slide the burner to the left to expose the orifice.

**Step 4: Before going any further you need to verify which pilot system is in use:**  
– If there is a spring clip below the pilot hood, proceed to the other side of page, Section B, Step 5.

- Step 5: Remove the 2 screws that hold the pilot to the bracket.
- Step 6: Remove the 2 screws that attach the pilot bracket to the firebox bottom.
- Step 7: Remove the pilot bracket to expose the pilot assembly.
- Step 8: Remove the pilot tube and nut from the pilot assembly using a 10mm wrench, slide the tube and nut down. You may have to tap the pilot hood lightly to release the pilot orifice. Place new pilot orifice into the pilot assembly and reinstall the pilot tube and nut. Tighten with wrench.  
Reinstall pilot bracket at this time.
- Step 9: Remove main orifice using a 1/2" wrench and replace with new conversion orifice.
- Step 10: Adjust the primary air setting to the correct setting as specified in the manual or label plate. To adjust the air setting, loosen the screw on the side of the tube and rotate to the correct opening using a drill bit or tape measure. Retighten screw.  
Reinstall burner at this time reversing STEPS 3, 2 and 1.
- Step 11: Follow instructions supplied with the conversion HI LOW to convert the valve from one type of fuel to the other.
- Step 12: Check for gas leaks around the pilot burner tube and face of valve.
- Step 13: Attach conversion label to label plate on bottom of unit, writing information as needed.

# Section B Installation Instructions

## GAS CONVERSION KIT FOR TOP CONVERTIBLE PILOT **SERIES 019065X**



Instructions for converting SIT 190 series pilot burner injection from NG to LPG and from NG to LPG Only. This information should be considered as supplemental to the Appliance Manufacturer's Instructions.

### WARNING!

**The installation of this conversion kit must only be undertaken by a qualified and certified gas appliance installer.**

- 1 Shut off the gas supply to the appliance.
- 2 Allow the pilot burner to cool to room temperature.  
**WARNING: Touching a hot pilot burner can result in injury.**
- 3 The pilot hood is held in place by spring pressure. Remove the hood by pulling it directly up from the pilot bracket (1).
- 4 Insert a 5/32" or 4mm Allen wrench into the hexagonal key-way of the injector (2), and rotate it counter clockwise until it is free of the injector journal (3).
- 5 Verify that the new injector is proper for the application. The injector size is stamped on the side of the injector near the top. LPG injectors have a groove machined around their circumference near the top, while NG injectors do not have a groove (5). Refer to the Appliance Manufacturers instruction sheet for the proper injector size.
- 6 Insert the Allen wrench into the end of the injector. Then, insert into injector journal, and rotate the injector clockwise until a torque of 9 in-lbs. is achieved.
- 7 Replace the pilot hood by aligning the tab on the base of the hood with the slot in the side of the pilot journal, and push the hood down, directly onto the pilot bracket (4). The hood must sit squarely on the bracket for proper operation. Check to insure that the hood is properly seated onto the pilot bracket.
- 8 Proceed to Section A, Step 9.



fig. 1



fig. 2



fig. 3



fig. 4

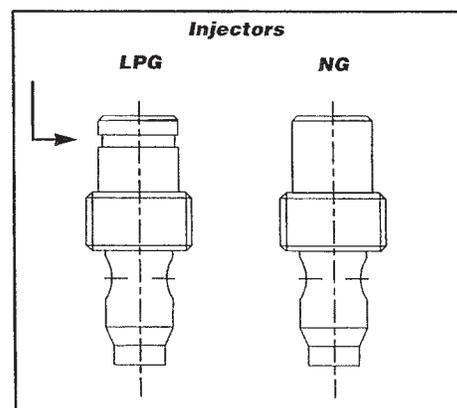


fig. 5

### WARNING!

**This conversion kit must only be applied as part of a conversion kit supplied by the appliance Manufacturer for the specific appliance, and type of gas being converted.**

**INSTALLER NOTICE. These instructions must be left with appliance.**

## Trouble Shooting The Gas Control System

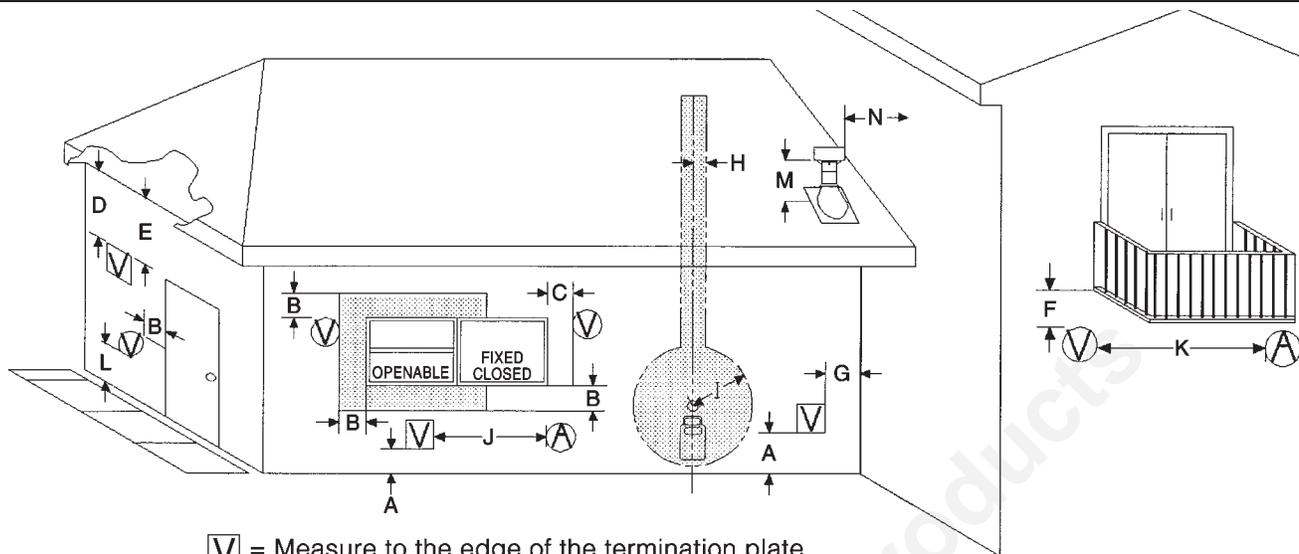


**WARNING:** BEFORE DOING ANY GAS CONTROL SERVICE WORK, REMOVE THE GLASS FRONT.

**NOTE:** Before troubleshooting the gas control system, be sure external gas shut off is in the “On” position.

Problem	Possible Causes	Corrective Action
Spark igniter will not light.	Defective or misaligned electrode at pilot.	Check for spark at electrode and pilot: if no spark and electrode wire is properly connected, replace igniter.
	Defective igniter (push-button)	Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot should be 1/8" to 1/4" to have a strong spark.
Pilot will not stay lit after carefully following lighting instructions.	Defective thermocouple (flame switch where applicable)	Check pilot flame. Must impinge on generator and thermocouple. Clean and/or adjust pilot for maximum flame impingement on generator and thermocouple. Replace thermocouple if pilot will not hold. (Hand tight 1/8 turn on replacement)
	Defective valve magnet.	Replace valve, if pilot won't hold after the thermocouple is replaced.
Pilot burning, no gas to burner, Valve knob "ON", Wall Switch "ON"	Wall switch or wires defective.	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch. If burner comes on, replace defective wall switch. If okay, jumper wires, across wall switch wires at valve. If burner comes on, wires are faulty or connections are bad.
	Generator may not be generating sufficient voltage.	Check generator with millivolt meter. Take reading at generator terminals of gas valve. Should read 325 millivolts minimum while holding valve knob depressed in pilot position and wall switch "off" Replace faulty generator if reading is below specified minimum.
	Plugged burner orifice.	Check burner orifice for stoppage and remove.
	Defective automatic valve operator.	Remove wall switch wires from gas valve. Install jumper wires from top bottom terminals of gas valve. Turn valve on "ON". If main burner does not light, replace valve.
Frequent Pilot outage problem.	Pilot flame may be too low or blowing (high) causing the pilot safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on generator and thermocouple.
Flame lifts off burner and goes out in less than 30 seconds	Inner 4" liner has come off flue or termination, flame is starving for oxygen	Attach 4" liner to flue or termination using screws, silicone and clamps as stated in manual.
Flame lifts off burner on one side while the rest of the flame remains lit.	Improper installation of firebrick. Firebrick is likely leaning.	Be sure to position firebrick against firebox walls and be sure to use brick clips attached to the inner side of firebox.

# Vent Termination



▣ = Measure to the edge of the termination plate.

○ = Measure to the edge of the round termination.

▣ Vent Terminal

○ Air Supply

▣ Area Where Terminal Not Permitted.

- A - Clearance above grade, veranda, porch, deck, or balcony 12 inches (30cm) minimum.<sup>1,2</sup>
- B - Clearance to window or door that may be opened. 12 inches (30cm) minimum for appliances 100 000 Btuh (30 kW) and lower, in Canada. 9 inches<sub>2</sub> (23cm) for appliances 50 000 Btuh and lower, in USA.
- C - Clearance to permanently closed window minimum 12 inches (30cm) recommended to prevent condensation on window, in Canada. 9 inches<sub>2</sub> (23cm) for appliances 50 000 Btuh and lower, in USA.
- D - Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 feet (60cm) from the center line of the termination. 18 inches (46cm) minimum.<sub>5</sub>
- E - Clearance to unventilated soffit 12 inches (30cm) minimum.
- F - Clearance under veranda, porch, deck or balcony 12 inches, (30cm) minimum.<sub>4</sub> US<sub>5</sub>
- G - Clearance from a perpendicular inside wall or outer corner to the edge of the vent terminal plate is 3" (minimum).
- H - Clearance to each side of center line extended above meter/regulator assembly 3 feet (91cm) within a height 15 feet (4.5m) above the meter/regulator assembly.
- I - Clearance to service regulator vent outlet 3 feet (91cm) minimum.<sub>1</sub> US<sub>5</sub>
- J - Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance: In Canada, 6 inches (15cm) for appliances ≤10,000 Btuh (3kW), 12 inches, (30cm) minimum for appliances >10,000 Btuh (3kW) and ≤100,000 Btuh (30kW), 36 inches (91cm) for appliances >100,000 Btuh (30kW). In the USA, 6 inches<sub>2</sub> (15cm) for appliances ≤10,000 Btuh (3kW), 9 inches (23cm) for appliances >10,000 Btuh (3kW) and ≤50,000 Btuh (15kW), 12 inches (30cm) for appliances >50,000 Btuh (15kW).
- K - Clearance to a mechanical air supply inlet 6 feet (1.8m) minimum.<sub>1</sub>, in Canada. In USA, 3 feet (91cm) above if within 10 feet<sub>2</sub> (3m) horizontally.
- L - Clearance above paved sidewalk or a paved driveway located on public property 7 feet (2.1m) minimum.<sub>3</sub>
- M - Clearance above highest point of exit on roof 18 inches (45cm).
- N - Clearance to perpendicular wall 24 inches (60 cm).  
(Recommended to prevent re-circulation of exhaust products. For additional requirements check local codes.)

**NOTE: Clearances are to the edge of terminal plate, add 6-3/4" to clearances to arrive at center line.**

**NOTE: Local Codes or Regulations may require different clearances.**

## Termination

It is imperative that the vent termination be located observing the minimum clearances as shown. There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" from the front of the termination plate.

Do not locate termination where excessive snow or ice build-up may occur. Be sure to check vent termination area after snow falls and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

## General Venting Information

The gas fireplace is approved to be vented either through the side wall or vertically through the roof.

This appliance is approved with Kingsman flex vent system and also approved for use with Simpson Duravent Direct Vent System, AmeriVent Direct Vent Pipe System and Selkirk Direct Temp.

Kingsman flex vent system can be used with Simpson Duravent Direct Vent termination's.

When using Simpson Duravent, AmeriVent Direct Vent pipe or Selkirk Direct Temp a Kingsman/Duravent adapter must be used.

**ONLY VENTING COMPONENTS SPECIFICALLY APPROVED AND LABELED FOR THIS FIREPLACE MAY BE USED.**

Minimum clearance to combustibles on venting is 1" with the following exceptions as follows: Top of horizontal 1 1/2". Top of 90 degree elbow in an enclosure under 42" is 5 1/2". Top of 90 degree elbow in an enclosure over 42" is 2 1/2".

Venting terminal shall not be recessed into a wall or siding. If finishing the outside wall with vinyl or wood siding it is recommended that a Siding Shield be installed, Part Number ZDVSSLR.

- 1 - In accordance with the current *CSA B149.1, Natural Gas and Propane Code*.
- 2 - In accordance with the current *ANSI Z223.1/NFPA 54, National Fuel Gas Code*.
- 3 - A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.
- 4 - Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.
- 5 - Clearance in accordance with local installation codes and the requirements of the gas supplier.

# IPI Electronic Ignition System

## Overview

The IPI system is an advanced burner controller that provides you with the option of having either a Standing-Pilot, or an intermittent igniting system. This alternating mode is controlled by the CPI/IPI Switch (Continuous Pilot Ignition/Intermittent Pilot Ignition) located on the IPI System Box. The difference between a Standing-Pilot and an Intermittent-Pilot is in whether the pilot stays lit or shuts off:

In Standing-Pilot, the pilot assembly is lit by the IPI Main Module and continues to stay lit until 1) the CPI/IPI Switch is switched to the IPI position; 2) a loss of electrical power (battery and AC source), 3) the flame sensor loses its signal, 4) the fuel supply discontinues, or 5) the IPI Main Module malfunctions.

In the Intermittent-Pilot mode, the pilot shuts off when the appliance is not in use. The advantage of this mode is that fuel is not consumed when the fireplace is not operating.

NOTE: In some jurisdiction, Intermittent-Pilot is required. That means the pilot cannot remain lit when the appliance is not operating.

## Components

The core of the IPI system is the Main Module and the IPI Valve. With these two components the system is able to operate a gas fireplace. There are also other components available to complement the IPI system.

**IPI System Cover:** Is essential in keeping the components at their proper operating temperatures. **DO NOT OPERATE THE APPLIANCE WITHOUT THIS COVER.**

**Modulating Servo Motor:** Is an add-on valve component that permits HI/LO functionality to be controlled by the remote. Contrary to this feature is a Manual HI/LO Control Knob. The Modulating Servo Motor requires the Remote system to be present.

**Backup Battery Pack:** This component permits the IPI system to operate without the need for an external AC Adapter power source. The advantage to using the battery backup is that in the case of a power failure, the appliance is still

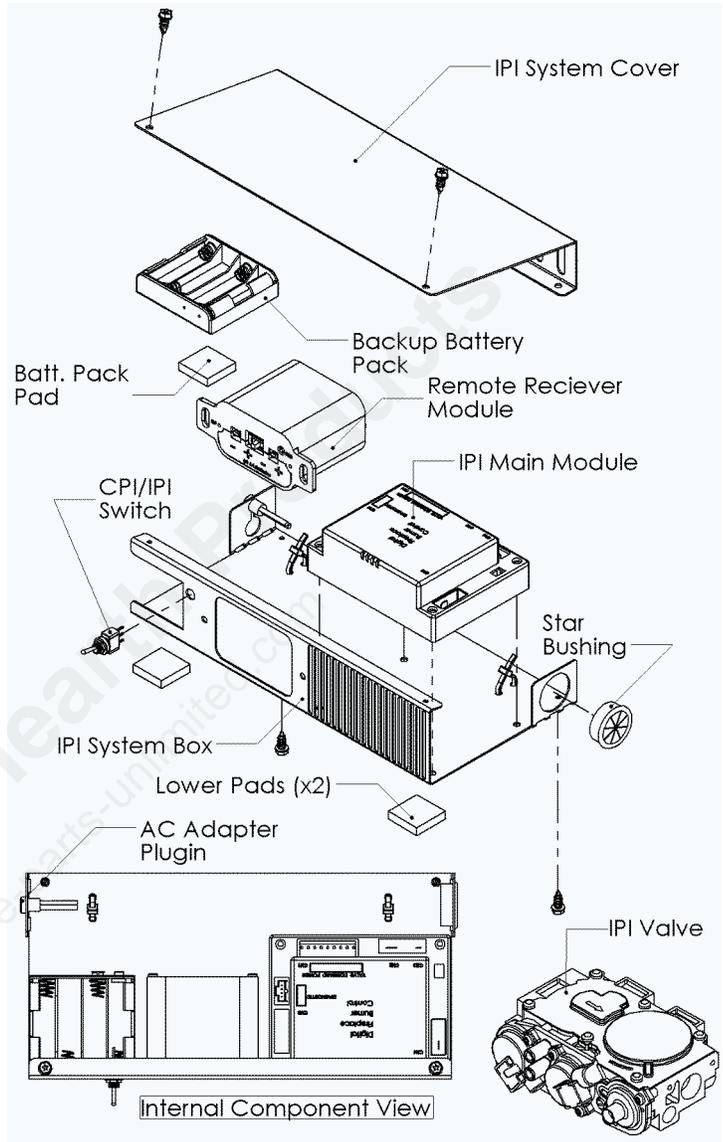
**NOTE:** In certain instances the IPI Main Module requires resetting. This can occur if the system is unable to ignite the pilot or the main burner in the allotted time period. The IPI is programmed to lockout all commands. To reset this lockout you must deplete the system of all electrical power. This means to remove the batteries from the Battery Pack, remove the batteries from the Remote Receiver (if applicable), and disconnect the AC Adapter from the system. Leave the power off for approximately 25 seconds to clear its lockout.

operable.

**Remote Receiver:** This component provides the capability of controlling the appliance with a wireless remote transmitter. There are two switches to note on the receiver module:

The first switch on the Remote Receiver module is a 3-position slide switch. This switch is used to either manually turn the main burner ON, activate the receiver to begin communication with the transmitter, or turn the main burner completely OFF. The position of the slide switch designates these functions respectively.

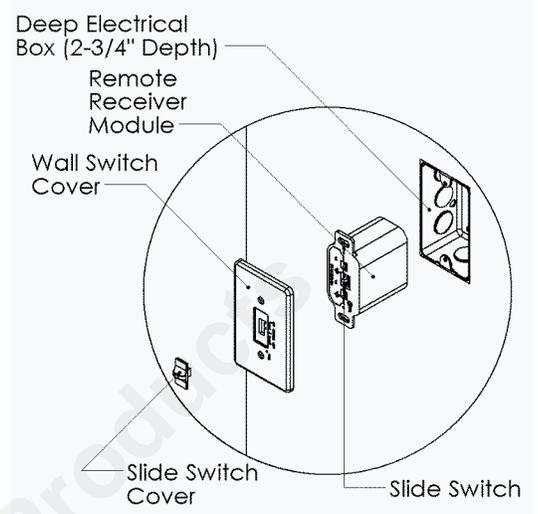
The second is the small round pushbutton [PRG] used for programming the receiver to respond to a designated remote. Therefore to program the system ensure that the transmitter is first turned OFF. Then, ensure that there is sufficient electrical power going to the Receiver module and a fresh set of batteries in the transmitter. Now switch the

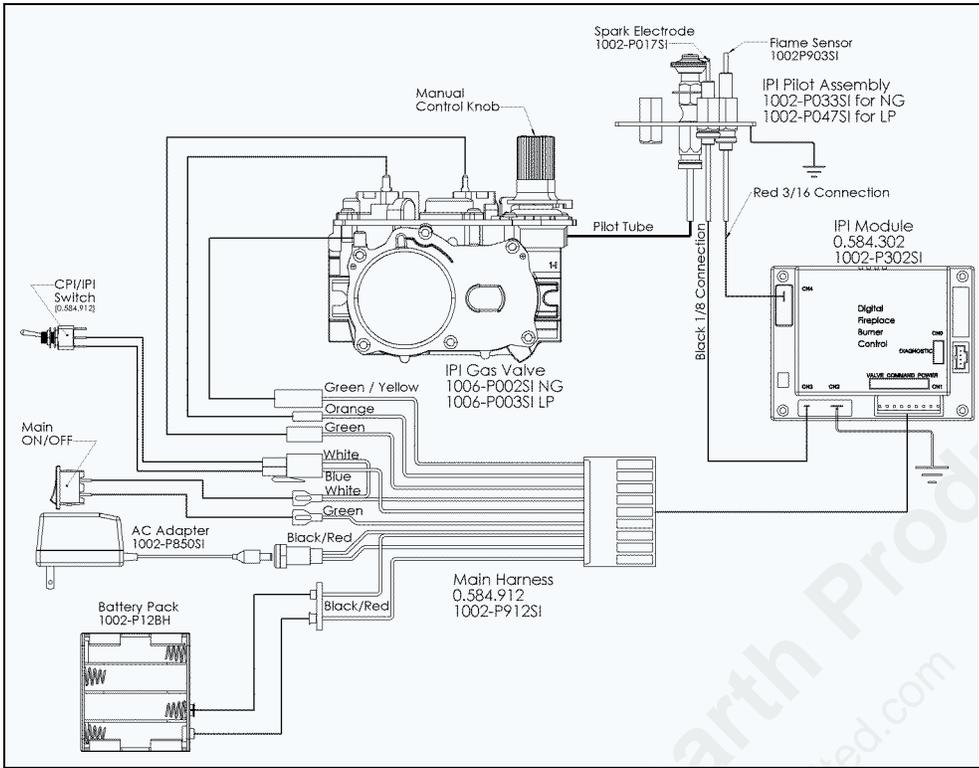


the slide switch to the middle [REMOTE] position and then push the small pushbutton to begin programming. Bring the transmitter close to the receiver and then press the power button [R] on the transmitter. An audible beep will sound to indicate the system is programmed and ready to be used.

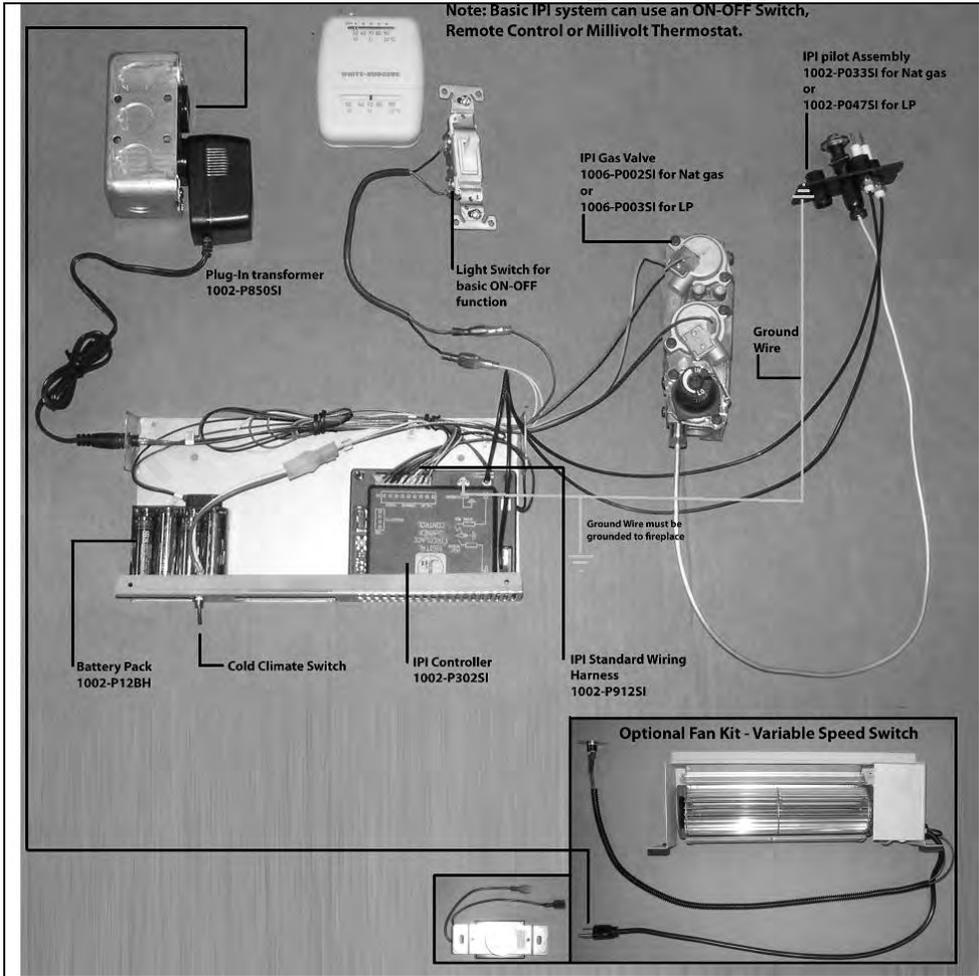
**NOTE:** The Remote Receiver module can also be located outside of the appliance to a maximum of 6ft away installed in a certified deep wall switch electrical box (2-3/4" depth). For this configuration an extension wiring harness (P/N: 1001-P904SI) is required.

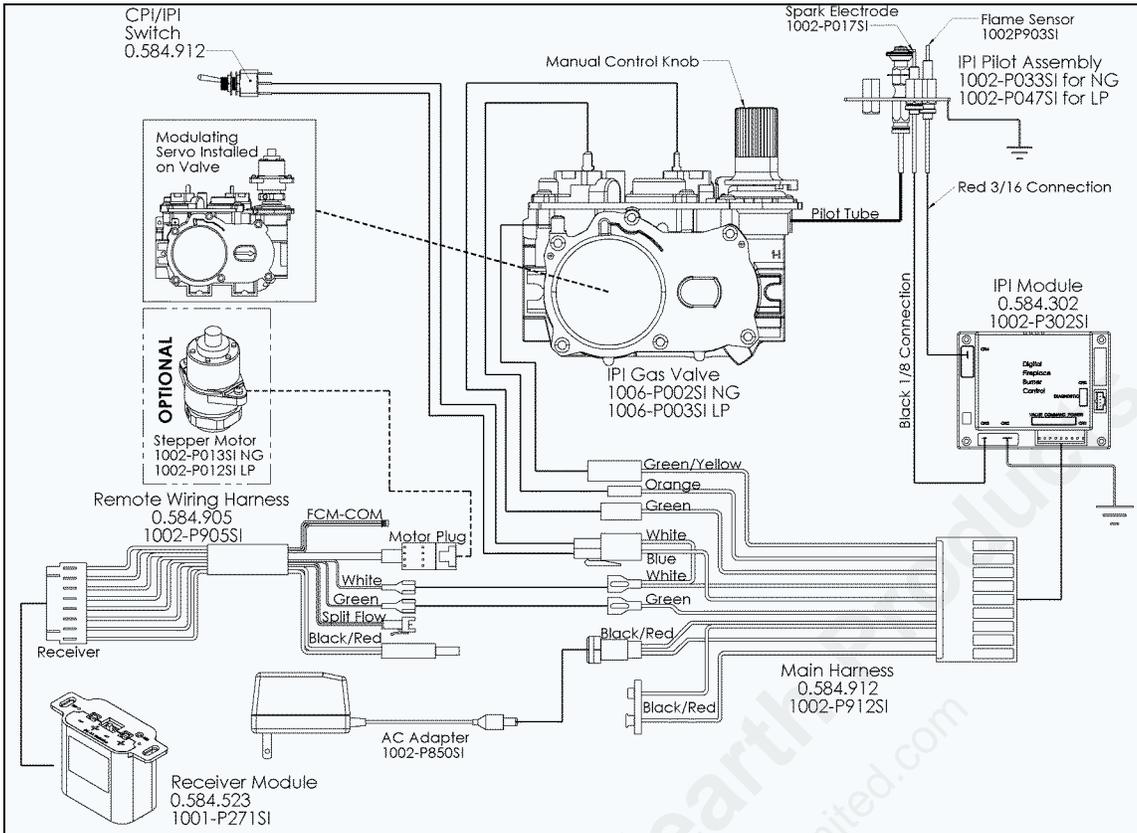
Electrical Supply in Series: The entire IPI system can be powered by a single power source (i.e. by the AC Adapter). This is advantageous if you do not want to supply extra batteries. To achieve this simply connect the AC Adapter into the Remote Control wiring harness instead of the main IPI harness. From the Remote wiring harness, use its male plug-in connector and connect it to the female plug-in in the main IPI harness. Now the circuit is complete. So the way it works is that electrical power is supplied to the Remote Receiver module and then proceeds to the Main IPI module. Furthermore, note that a Backup Battery Pack is not required in this configuration. Instead, batteries in the Remote Receiver act as the backup supply.



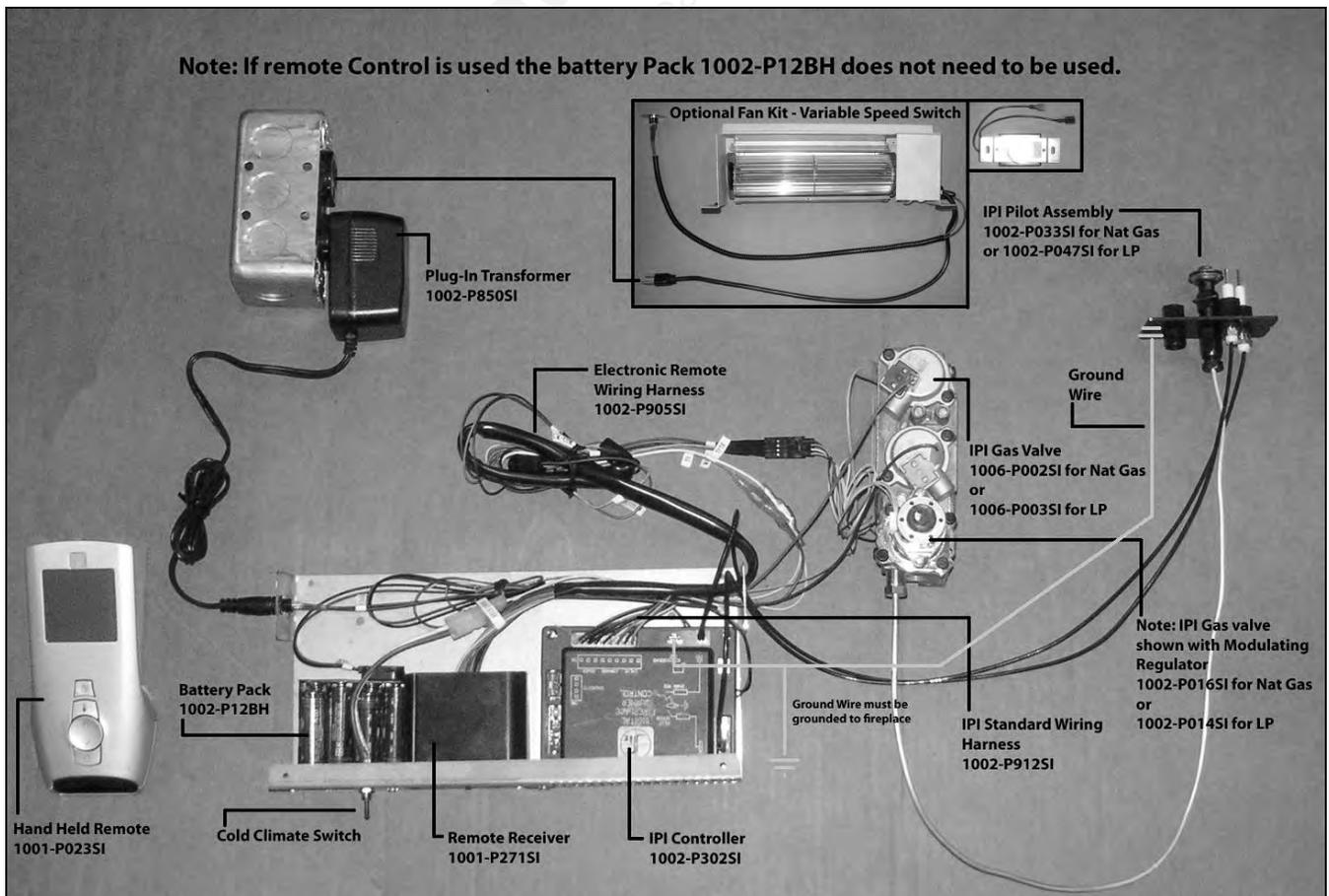


Configuration #1: Basic manual HI/LO and manual ON/OFF capabilities.





Configuration #2: Remote ON/OFF and manual HI/LO capabilities. OPTIONAL: For units with remote HI/LO capabilities, a modulating servo is required to be installed on the valve. The connectors to this servo must be connected to the Remote Harness as shown in the figure above.





## IPI Lighting Instructions



### WARNING

1. If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.
2. Always light the pilot whether for the first time or if the gas supply has ran out with the glass door opened or removed.

### FOR YOUR SAFETY READ BEFORE LIGHTING

- A. This fireplace is equipped with an ignition device which automatically lights the pilot. Do not try to light by hand.
- B. Before operating smell all around the fireplace area for gas and next to the floor because some gas is heavier than air and will settle on the floor.
- C. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and replace any part of the control system and any gas control which has been under water



### WHAT TO DO IF YOU SMELL GAS

- |  |  |
|--|--|
| <ol style="list-style-type: none"><li>1. Turn off all gas to the fireplace.</li><li>2. Open windows.</li><li>3. Do not try to light any appliance.</li><li>4. Do not touch any electric switch; do not use any phone in your building.</li></ol> | <ol style="list-style-type: none"><li>5. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.</li><li>6. If you cannot reach your gas supplier, call the fire department.</li></ol> |
|--|--|

### LIGHTING INSTRUCTIONS

1. STOP! Read the above safety information on this label.
2. Remove batteries from Receiver and/or Battery Backup Pack.
3. Turn off all electric power to the fireplace.
4. This fireplace is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
5. Open the glass door.
6. Turn manual shutoff valve clockwise  to OFF position (located behind the access panel).
7. Wait five [5] minutes to clear out any gas. If you smell gas including near the floor, STOP! Follow "B" in the above safety information on this label. If you don't smell gas go to the next step.
8. Turn manual shutoff valve counter-clockwise  to ON position.
9. Close the glass door.
10. Turn on all electric power to the fireplace, and re-install batteries into the Transmitter/Receiver and/or Battery Backup Pack.
11. Turn ON the switch that operates the Main Burner. If using a Remote Control refer to Remote Control Operation Manual for activation.

### TO TURN OFF GAS

1. Turn OFF all electric power to the fireplace if service is to be performed, including removing batteries from the Remote Transmitter/Receiver and/or Battery Backup Pack.
2. Access door inside the firebox must be removed to access the manual shutoff valve.
3. If alternate shut-off valve was installed it can be shutoff instead of going through the fireplace to access the fireplace shut off valve.

## General Vent Installation Information

This gas appliance is approved to be vented either through the side wall or vertically through the roof. **Only Kingsman Flex(Z-Flex)Venting Kits and components specifically approved and LABELED for this stove may be used.** This appliance is also approved for use with Simpson-Duravent Direct Vent system, Ameri-Vent Direct Vent Pipe System, ICC Excel Direct, Metal Fab Sure-Seal DV and Selkirk Direct Temp.

### RIGID OR HARD PIPE

When using Simpson Duravent, AmeriVent pipe, ICC Excel Direct, Metal Fab Sure-Seal DV and or Selkirk Direct Temp a Duravent hardpipe adapter must be used (**part # ZDV DFA for fireplaces and part # ZDV DKA for Stoves, Serenity and ZDV3624B**). Follow installation instructions provided by Simpson Duravent/AmeriVent/Selkirk Direct Temp, ICC Excel Direct, Metal Fab Sure-Seal DV for installation of pipe and adhere to the clearance to combustibles provided in this manual. Apply a bead of Mill Pac high temp sealant to all joints of pipes, adapters and termination, when using Kingsman Flex(Z-Flex)Venting venting and Simpson Duravent venting.

**NOTE:** Increase framing depth by one inch when using hardpipe.



**Warning:** DO NOT mix parts from different systems unless stated in the manual.

### Flex Pipe Venting

Kingsman Flex pipe is shipped in unexpanded length. When installing pipe expand the lengths. Pipe can be expanded to twice their lengths e.g. 4ft. to 8ft. Fully expand pipe and cut off excess.

Do not use more than 2 couplers to extend short pipes. Single sections are preferred in an installation attaching at the fireplace and termination.

Place the spring spaces provided approximately every two feet to stabilize 4" flex in the center of 7" flex. When forming bends place spring in bend or before and after. (See Fig. 1).

Horizontal runs require support metal straps every 2 feet. In off set installation support straps should be used to stabilize pipe.

Expand 4" and 7" flex pipe to the point that the 7" protrudes approximately 2 to 3 inches past outer wall and the 4" flex protrudes approximately 2 to 3 inches past the 7" flex. See Fig. 1. Attach the 4" pipe to the termination first and secure with sealant and four screws then attach the 7" flex to the termination with caulking and four screws.

Termination may then be moved back to the outer wall and attached to home screwing into the framing. Silicone around termination to waterproof. If siding shield is going to be used attach this using same attaching hole as the top of termination after termination has been caulked for water proofing.

### Use Hi Temp Sealant

Apply a bead of mill pac high temp sealant to all joints and use four screws to secure each pipe at fireplace, termination and any joint if joining any sections of pipe.

## Installation of Back Vents

### General Back Vent Installation and Specification

Straight Back max vent length 60" Vent Kit # ZDVHSK  
 45° Corner Max Number of 45° Bends One or ZDVHSK5  
 Max Vent Length after 45° Bend 54"

**NOTE: Minimum clearance between vent pipes and combustible materials is one inch or 25mm side and bottom. 1 1/2" top.**

#### Step 1

Locate vent opening on the wall. COMBUSTIBLE WALLS cut a 11" x 11" (280mm x 280mm) minimum hole and frame as shown. NON-COMBUSTIBLE WALL hole opening must be 8.5" (216mm) in diameter. Install wall thimble for vent pipe routing through wall. See Fig. 3.

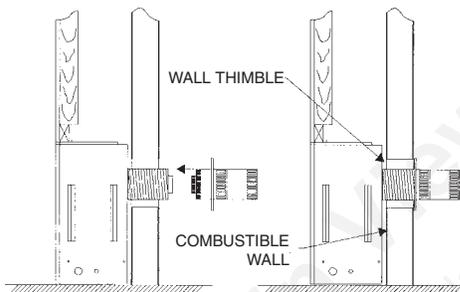
#### Step 2

Place fireplace into place and attach vent pipes, four inch (4") first. Make sure pipes are pushed on securely. Seal with millpac sealant and secure with 4 screws/washers per pipe.

#### Step 3

**Straight Back Venting.** Measure wall thickness. If wall is thinner than (1Ft.) then 1 foot unexpanded length in ZDVHSK must be expanded and cut. 7" should extend past outer wall approximately 2" to 3" and 4" flex approximately 2" past the 7" flex that allows enough room to secure pipe to termination with high heat millpac and 4 screws, then press termination back to outer wall and seal. Place spacer spring over 4" flex to stabilize it in the 7" flex if length is over a foot.

#### Step 4



**Cover Back Venting.** Only one - 45° bend per installation. Install as per above length. May not exceed Figure 1 page 16 and must be cut to comply.

Install wall thimble. Place fireplace into place and secure to floor with nailing tabs.

#### Step 5

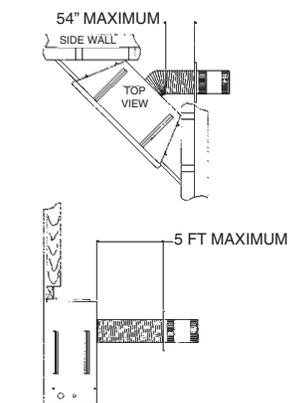
Mount vent termination, make sure 4" and 7" pipes are siliconed. Caulk around wall thimble to weatherproof.

On horizontal venting, 1/4" rise per foot up to 3ft, over 3ft up to the 5ft maximum horizontal run 1 1/2" rise per foot is needed.

### Corner Installation Location

**NOTE: When the fireplace is installed cross corner it is necessary to bend the flex pipe. Use Kit ZDVHSK5.**

Note: Venting Terminals shall not be recessed into wall or siding. If finishing the outside wall with vinyl or wood siding it is recommended that a Siding Shield be installed, Part Number ZDVSSLR.



## Parts List

PART NO.	DESCRIPTION
<b>Fireplace Part Numbers</b>	
ZDV3624NB (Millivolt)	Fireplace Heater Back Flue NG, Tempered Glass, 24,000 BTU, BRA-MHA 75% efficient
ZDV3624NBE (IPI)	
ZDV3624LPB (Millivolt)	Fireplace Heater Back Flue LP, Tempered Glass, 22,000 BTU, BRA-MHA 75% efficient
ZDV3625LPE (IPI)	
<b>FIREPLACE REQUIREMENTS</b>	
<b>Grills</b>	
Z36GBA	Grill Kit - Classic Builder Antique Brass
Z36GBC	Grill Kit - Classic Builder Chrome
Z36GBP	Grill Kit - Classic Builder Polish Brass
Z1GBL	Grill Kit - Black
Z1GAB	Grill Kit - Antique Brass
Z1GPB	Grill Kit - Polish Brass
Z36GCR	Grill Kit - Chrome
Z36PBL	Panel Grill Kit - Black
<b>LOG SETS: (Required for each unit)</b>	
LOGC42	Log Set - 4 pce. - Classic Oak (ZDV3320, 3624/28, 4224/28 Series)
LOGC43	Log Set - 4 pce. - Traditional Oak (ZDV3320, 3624/28, 4224/28 Series)
<b>Fireplace Accessories Options:</b>	
Z36SAB	Surround - Antique Brass (Coverage New Style 34 1/2" H x 41 1/8" W)
Z36SCR	Surround - Chrome (Coverage New Style 34 1/2" H x 41 1/8" W)
Z36SPB	Surround - Polish Brass (Coverage New Style 34 1/2" H x 41 1/8" W)
Z36SLAB	Surround Slim Line - Antique Brass (Coverage 34 1/4" H x 37 1/2" W)
Z36SLCR	Surround Slim Line - Chrome (Coverage 34 1/4" H x 37 1/2" W)
Z36SLPB	Surround Slim Line - Polish Brass (Coverage 34 1/4" H x 37 1/2" W)
Z36SLBL	Surround Slim Line - Gun Metal Black (Coverage 34 1/4" H x 37 1/2" W)
Z1ADBL	Arch Door Frame - Black
Z36ADDX	Arch Door Frame - Deluxe Black (352)
Z36ADTH	Arch Door Frame - Top Half Black (353T)
Z36ADDA	Arch Door Frame - Double Arch Black (354)
Z36ADDD	Arch Door Frame - Double Door Arch Black (355)
Z1ADAB	Arch Door Frame - Antique Brass
Z36ADCR	Arch Door Frame - Chrome
Z1ADPB	Arch Door Frame - Polish Brass
RDFK	Remote Duct Fan Kit (for ZDV3628/ZDV3632 models only)
Z36FK Control	Fan Kit w/Variable Speed Wall Mount (Temperature Sensing)
Z1MT	Thermostat Millivolt Wall Mount
Z80PT	Thermostat Programmable Digital Millivolt Wall Mount (1F80-40)
Z1RC	Remote Control Millivolt (On/Off with LED) (Model I)
ZART	Remote Control Thermostat Millivolt (Model K)
RMCBN	Remote Control - Basic - Natural Gas (On/Off, Hi/Lo Flame Adjustment)
RMCBP	Remote Control - Basic - Liquid Propane (On/Off, Hi/Lo Flame Adjustment)
DCHS	Remote Control Heatshield
Z36RL	Refractory Liner (3 piece)

PART NO.	DESCRIPTION
<b>Designer Doors for 36" Fireplaces - Operative</b>	
Z36DDA1BL	Designer Door Arch - Series 1 - Black
Z36DDTA1A	Trim - Antique for Designer Arch - Series 1
Z36DDTA1C	Trim - Chrome for Designer Arch - Series 1
Z36DDTA1P	Trim - Polish for Designer Arch - Series 1
Z36DDS1BL	Designer Door Straight - Series 1 - Black
Z36DDS2BL	Designer Door Straight - Series 2 - Black
Z36DDS3BL	Designer Door Straight - Series 3 - Black
Z36DDTS1A	Trim - Antique for Designer Straight - Series 1
Z36DDTS1C	Trim - Chrome for Designer Straight - Series 1
Z36DDTS1P	Trim - Polish for Designer Straight - Series 1

### Child Safety Screens

Z36CSS	Child Safety Screen - 36" DV Fireplaces
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### Conversion Kit (Sit Valve Only)

3624-CKLP	LP Conversion Kit for ZDV3624 (Millivolt)
3624-CKNG	NG Conversion Kit for ZDV3624 (Millivolt)
3624-CKLPI	LP Conversion Kit for ZDV3624 (IPI)
3624-CKNGI	NG Conversion Kit for ZDV3624 (IPI)

### Replacement Burner Assembly Millivolt

3624-BNGSI	Burner Assembly - Natural Gas c/w Valve System (ZDV3624N)
3624-BLPSI	Burner Assembly - Liquid Propane c/w Valve System (ZDV3624LP)

### Valve System Parts Millivolt

If Serial Number is LESS than: ZDV3624LP - 8952 / ZDV3624N - 9154  
ZDV3624LPB - 360767 / ZDV3624NB - 360766 / ZDV3628LP - 3697  
ZDV3628N - 3698 / ZDV3630LP - 420371 / ZDV3630N - 420372

1000-P136WR	Thermopile GOAI-524
1001-P035SI	Electrode Sparker 915.035 SIT
1001-P129SI	Thermocouple 290.129 SIT unified
1001-P157SI	Orifice Pilot LP 977.157 SIT
1001-P159SI	Orifice Pilot NG 977.159 SIT
1001-P508SI	HT Cable 16
1001-P633SI	Valve Nova LP Hi/Lo 0820633
1001-P634SI	Valve Nova NG Hi/Lo 0820634
1001-P605SI	Pilot Burner LP 190.605 unified SIT
1001-P606SI	Pilot Burner NG 190.606 unified SIT

### Valve System Parts - New Top convertible SIT (Millivolt)

If Serial Number is GREATER than above

1000-P136WR	Thermopile GOAI-524
1001-P069SI	Electrode Sparker 915.069 TC SIT
1001-P216SI	Thermocouple 290.216 TC SIT
1001-P165SI	Orifice Pilot LP 977.165 TC SIT
1001-P167SI	Orifice Pilot LP 977.167 TC SIT
1001-P508SI	HT Cable 16
1001-P633SI	Valve Nova LP Hi/Lo 0820633
1001-P634SI	Valve Nova NG Hi/Lo 0820634
1001-P713SI	Pilot Burner LP 199.713 TC SIT
1001-P714SI	Pilot Burner NG 199.714 TC SIT

### Valve System Parts - IPI System

#### Electronic Ignition/Remote Control IPI

EGTRC	Remote Control IPI (Thermostat)
EGTMRCN	Remote Control IPI (Thermostat/Modulating - NG)
EGTMRCP	Remote Control IPI (Thermostat/Modulating - LP)
EGTFRCN	Remote Control IPI (Thermostat/Modulating/Fan - NG)
EGTFRCP	Remote Control IPI (Thermostat/Modulating/Fan - LP)

#### Electronic Ignition Replacement Parts IPI

1002-P001si	Valve IPI (NG; ON/OFF)
1002-P002si	Valve IPI (LP; ON/OFF)
1006-P002si	Valve IPI (NG; Hi/Lo)
1006-P603si	Valve IPI (LP; Hi/Lo)

PART NO.	DESCRIPTION
1002-P047si	Pilot Assembly (LP)
1002-P033si	Pilot Assembly (NG)
1002-P089si	Spark Electrode (Long)
1002-P113si	Electrode Flame Sensor (Long)
1002-P302si	IPI Ignition Board
1002-P850si	AC Wall Adapter
1002-P12BH	Battery Pack
1002-P912si	Wiring Harness
1002-P166si	Orifice Pilot (NG #62)
1002-P168si	Orifice Pilot (LP #35)
1002-P013si	Stepper Motor (NG)
1002-P012si	Stepper Motor (LP)
1002-P016is	Hi/Lo Regulator (NG)
1002-P014si	Hi/Lo Regulator (LP)

### Miscellaneous Parts

1000-150GE	#SILICONE GE RED IS806 #736
1000-150MP	#HI-TEMP MILL PAC SEALANT 840099
1000-214	#PIEZO-IGNITER 1244-17 MARK 21
1000-215	#PAL NUT (18MMX1.5MM)BLK (1364.03)
1000-218	#SWITCH IVORY (1451/001)
1000-227	#COVER IVORY (86001/001)
1000-255	#ORIFICE BRASS - (State Size)
1000-EMBER	#MOON ROCK
6000-130	#EXPLOSION FELT GASKET
2000-080	#THERMODISC 2450 (For Blower)
2000-081	#BLOWER MOTOR QLN65/2400
1000-085	#CONTROL VARIABLE SPEED KBWC-13BV
1000-306	THERMALCORD - ADHESIVE BACK FOR DOOR FRAME
1000-305	CERAMIC GLASS - FOR ALL ZDV3600
3600-311	TEMPERED GLASS - FOR ZDV3624 MODEL

## Kingsman Fireplace Venting

Catalog Number	Description
ZDVHSK	Horizontal Vent Starter Kit - 3 FT Length Horizontal Vent Termination, Wall Thimble, 36" Flex Pipe, Mill Pac, screws/washers, springs.
ZDVHSK5	Horizontal Vent Starter Kit - 5 FT Length Horizontal Vent Termination, Wall Thimble, 60" Flex Pipe, Mill Pac, screws/washers, springs.
FDVHT	Horizontal Vent Termination
FDVHSQ	Horizontal Square Termination
ZDVST	Horizontal Snorkel Termination (34" Tall, 24" Center to Center)
FDVHSC	Safety Cage for Horizontal Termination
ZDVVOS	Offset Support
ZDVWT	Wall Thimble (Horizontal Venting)
ZDVSS	Siding Shield
ZDVFK5	Flex Kit (4" & 7" Dia.) x 2.5' (Unexpanded) 5' Expanded
ZDV4FC	Flex Connector 4" Diameter
ZDV7FC	Flex Connector 7" Diameter
ZDV4SS	Spring 4" Standoff Spacer
ZDVHSKSQ	<b>Horizontal Square Termination Vent Starter Kit - 3 FT Length</b> Horizontal Vent Termination, Wall Thimble, Wall Thimble, 36" Flex Pipe, Mill Pac
FDVHSQ	Horizontal Square Vent Termination
ZDVSSLR	Siding Shield - Large Return



## LIMITED LIFETIME WARRANTY

This Limited Lifetime Warranty applies only while the unit remains at the site of the original installation and only if the unit is installed inside the continental United States, Alaska, Hawaii, and Canada. The warranty applies only if the unit is installed and operated in accordance with the printed instructions and in compliance with applicable installation and building codes and good trade practices.

### BASIC ONE YEAR WARRANTY

During the first year after installation, we will provide a replacement for any component part of your unit found to be defective in materials or workmanship, including labour costs. Repair work requires prior approval by Kingsman, labour costs are based on a predetermined rate schedule and any repair work must be done through an authorized Kingsman dealer.

### LIMITED LIFETIME WARRANTY

The heat exchanger, combustion chamber and burner of every Kingsman product excluding the Outdoor Firepit are warranted against materials or workmanship during the period the product is owned by the original owner. The part to be replaced must be returned to our distributor in exchange for the replacement part. Any labor, material, freight and/or handling charges associated with any repair or replacement pursuant to this Limited Lifetime Warranty will not be covered by this warranty.

### GENERAL TERMS

In lieu of providing a replacement part, we may, at our option, provide the distributor's component purchase price from us or a credit equal to the distributors component purchase price from us toward the purchase of any new unit which we distribute. If a credit is given in lieu of a replacement part, the rating plate from the unit being replaced must be submitted on a warranty claim, and the unit being replaced must be made available to our distributor for disposition.

In establishing the date of installation for any purpose, including determination of the starting date for the term of this Limited Lifetime Warranty, reasonable proof of the original installation date must be presented\*, otherwise the effective date will be based upon the date of manufacture plus thirty (30) days.

We will not be responsible for and you, the user, will pay for: (a) damages caused by accident, abuse, negligence, misuse, riot, fire, flood, or Acts of God (b) damages caused by operating the unit where there is a corrosive atmosphere containing chlorine, fluorine, or any other damaging chemicals (other than in a normal residential environment) (c) damages caused by any unauthorized alteration or repair of the unit affecting its stability or performance (d) damages caused by improper matching or application of the unit or the unit's components (e) damages caused by failing to provide proper maintenance and service to the unit (f) any expenses incurred for erecting, disconnecting or dismantling the unit (g) parts or supplies used in connection with service or maintenance (h) damage repairs, inoperation or inefficiency resulting from faulty installation or application (i) electricity or fuel costs or any increase in electricity or fuel cost whatsoever including additional or unusual use of supplemental electric heat.

We shall not be liable for any incidental, consequential, or special damages or expenses in connection with any use or failure of this unit. We have not made and do not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose. We make no express warranties except as stated in this Limited Lifetime Warranty. No one is authorized to change this Limited Lifetime Warranty or to create for us any other obligation or liability in connections with this unit. Any implied warranties shall last for one year after the original installation. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty or condition lasts, so the above limitations or exclusions may not apply to you. The provisions of this limited warranty are in additions to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

Save this certificate. It gives you specific legal rights, and you may also have other rights which may vary from state to state and province to province.

In the event your unit needs servicing, contact your dealer or contractor who installed or serviced your unit. When requesting service, please have the model and serial number from each unit readily available. If your dealer needs assistance, the distributor is available for support and we, in turn support the distributor's efforts.

Fill in the installation date and model and serial numbers of the unit in the space provided below and retain this limited warranty for your files.

**Model No.** \_\_\_\_\_ **Serial No.** \_\_\_\_\_ **Date installed** \_\_\_\_\_

**Dealer or Contractor Name:** \_\_\_\_\_

\*To receive advantage of your warranty, you must retain the original records that can establish the installation date of your unit.