Installation Instructions

HBZDV4224, HBZDV4228

Intertek C#4000720

Models: HBZDV4224N, HBZDV4224NE, HBZDV4224NE2, HBZDV4224LP, HBZDV4224LPE, HBZDV4224LPE2

Certified to: ANSI Z21.88:2017 • CSA 2.33:19 Vented Gas Fireplace Heaters, CSA 2.17-2017

Models: HBZDV4228N, HBZDV4228NE, HBZDV4228NE2, HBZDV4228LP, HBZDV4228LPE, HBZDV4228LPE2

Certified to: ANSI Z21.88-2017 • CSA 2.33-2017 Vented Gas Fireplace Heaters, CSA 2.17-2017

⚠ WARNING:
FIRE OR EXPLOSION HAZARD
Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- **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.**
  - **Do not touch any electrical switch; do not use any phone in your building.**
  - **Leave the building immediately.**
  - **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
  - **If you cannot reach your gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

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.

For Propane Horizontal installations the venting must be a minimum of one foot vertical off the flue before going horizontal.

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

VENTED GAS FIREPLACE HEATER: NOT FOR USE WITH SOLID FUEL.

⚠ DANGER

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.

KINGSMAN FIREPLACES Est. 1976

A Division of R-Co. Inc.
2340 Logan Avenue
Winnipeg, Manitoba, Canada R2R 2V3
Ph: (204) 632-1962
Printed in Canada December 9, 2019
Part # 42HB-MAN17

Table of Contents

Cover 1
Table of Contents 2-3
Pre-installation Questions and Answers / Operations and Maintenance Instructions 4
Safety Screen Installation 5
Warnings, Installations and Operations - Installation Regulations 6
Installation Requirements for the Commonwealth of Massachusetts / Carbon Monoxide (CO) Detector 7
Mobile Home/Manufactured Housing Installation 8

Installation & Framing

Fireplace Installations in Covered Outdoor Locations 9
Locating your Appliance / Unit Dimensions 10
Framing for your Gas Fireplace 11
HBZDV42 - Framing and Facing Requirements 12
How to Install Clean View Kit (CVCK) / Clearance to Combustibles 13
HB36SBL / HB42SBL Surrounds 14
Clearances – HB36 / HB42 / HB47 – Mantels 15
Mantel Leg Clearances 16

Accessories and Options

Fan Kit Installation 17
Split Receptacle- Fan Speed Control Outside of Fireplace 18
Brick Installation 19
Installation of HB Porcelain Liners – HB42PL 20
Door and Glass Information / Appliance/Log Reference Chart/Log Placement 21
LOGC42 - LOG C43 LOG Placement 22-23
LOGC44 Placement 24-26
MQLOGC45 Oak Logset Placement 27-28
MQRSP3 with Pilot Shield 29
Installing MQRSP3 30
Pilot Shield RSP1 / RSP2 31
MQROCK1/MQRSP3 32-33

Burner System

Gas Line Installation 34
Millivolt System, Lighting, and Burner Control 35
Annual Inspection List for Determining Safe Operation of a Direct Vent Gas Fireplace 36
Removing Burner System 37
Burner System Maintenance / Conversion Kit Instructions – PART A 38
Conversion Kit Instructions – PART A 39
Gas Conversion for Top Convertible Pilot – Part B (series 0190XYZ) 40
Gas Conversion for Modulator – PART C 41

Proflame 1

Overview / Components 42
Remote Control Operation 43
Proflame 1 Parts List – Standard System 44
Configuration #1: Basic Manual HI/LO and Manual ON/OFF Capabilities 45
Configuration #2: Remote ON/OFF and Manual HI/LO Capabilities 46
Operating the Receiver Without Batteries- Millivolt and Proflame 1 47
Configuration #3: Remote ON/OFF, variable HI/LO, and Fan Capabilities 48
Electronic Ignition Lighting Instructions 49

Proflame 2

Proflame 2 Parts List / Basic System / Configuration GTMFL 50
Proflame 2 Module and Remote Control 51
Cold Climates – CPI Setting - Proflame 2 Remote Control 52

Proflame 2 Remote Control..... 53-54
Proflame 2 Label Diagram..... 55

Venting

Vent Terminal Clearances..... 56
General Vent Installation / Installation Of Side Wall Venting..... 57
Venting Routes And Components / Horizontal Venting Table From Bottom of Fireplace..... 58
Venting Straight Up Through Roof..... 59-60
Fireplace Installations Using Co Linear Flex Kits..... 61
Glass Safety / Termination Cap Safety..... 62
Approved for Power Vent PVH58..... 63

Parts Lists

PVH58 Parts List..... 64
Parts List..... 65-66

Troubleshooting

Troubleshooting the Gas Control System..... 67

Warranty

Limited Lifetime Warranty..... 68

Pre-installation Questions and Answers

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 using a 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.

Why does my fireplace or stove give off odour?

It is normal for your fireplace to give off some odor at first. 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 (if a fan is present) 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.

Noise coming from the fireplace?

Noise is caused by the expansion and contraction of metal as the appliance heats up and cools down. This is normal and is similar to the sounds produced by a furnace or heating duct. This noise does not affect the operation or longevity of your fireplace.
It is also normal for the fan to make some noise when it comes on. This noise can be reduced somewhat by turning down the speed of the fan with the variable speed control. Be aware, however, that this will reduce the volume of heated air circulated into the room by the fan.

Note to the Installer:

Be sure appliance is working properly and its operation (including remote control operation, if included) is fully explained to and understood by the customer.

Operations and Maintenance Instructions

For safe installation and operation note the following:

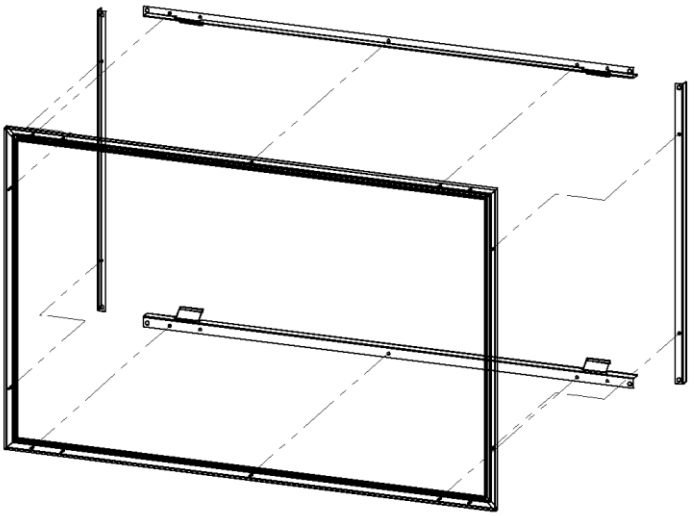
- Be sure to read and understand all the instructions in this manual before operation of appliance.
- Ensure all wiring is correct and properly enclosed to prevent possible shock.
- Check for gas leaks.
- Make sure the glass door is properly installed before operation. Never operate the appliance with the glass door removed.
- Make sure venting and termination cap are installed and unobstructed.
- If brick or porcelain liners are used, ensure they are installed.
- Verify that the pilot can be seen when lighting the appliance. If not, the log or rock placement is incorrect.
- If the unit is turned off, you must wait a minimum of 60 seconds before re-lighting it.
- Venting systems should be periodically examined by a qualified agency.
- The flow of combustion and ventilation air must not be obstructed.
- 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 your 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.
- Areas in and around the Chase Vent Openings should be cleaned annually.

Safety Screen Installation Z Series

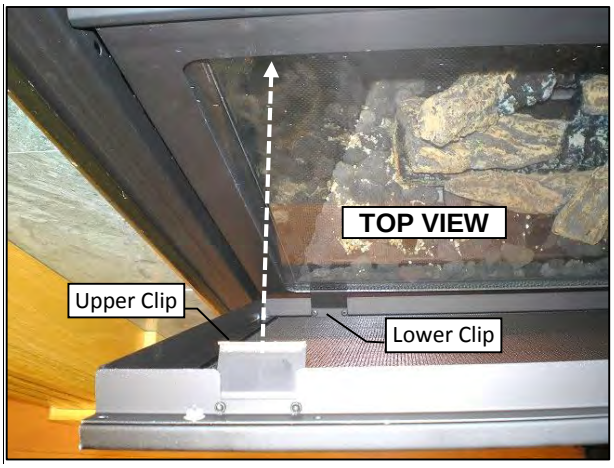
Contents of Kit:
[1] Safety Screen
[2] Side Angles
[2] Horizontal Angles
[12-16] DT Screws (Depending on screen size)
Assembly: Attach components with supplied screws as shown.

NOTE: Screens are symmetrical from top to bottom.

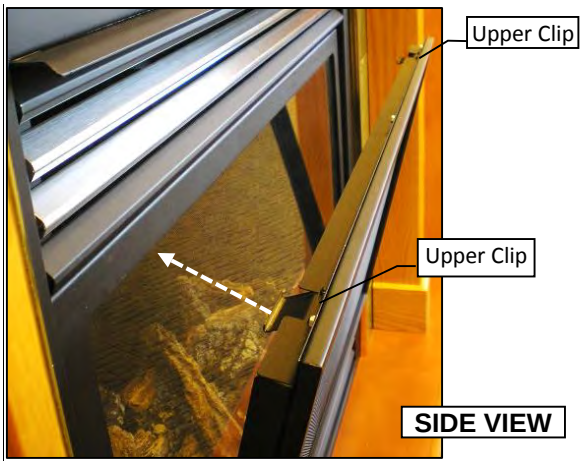
⚠WARNING:
Wait until unit is COMPLETELY cool before touching glass or attempting to install or remove Child Safety Screens.



Screen with Side & Horizontal Angles



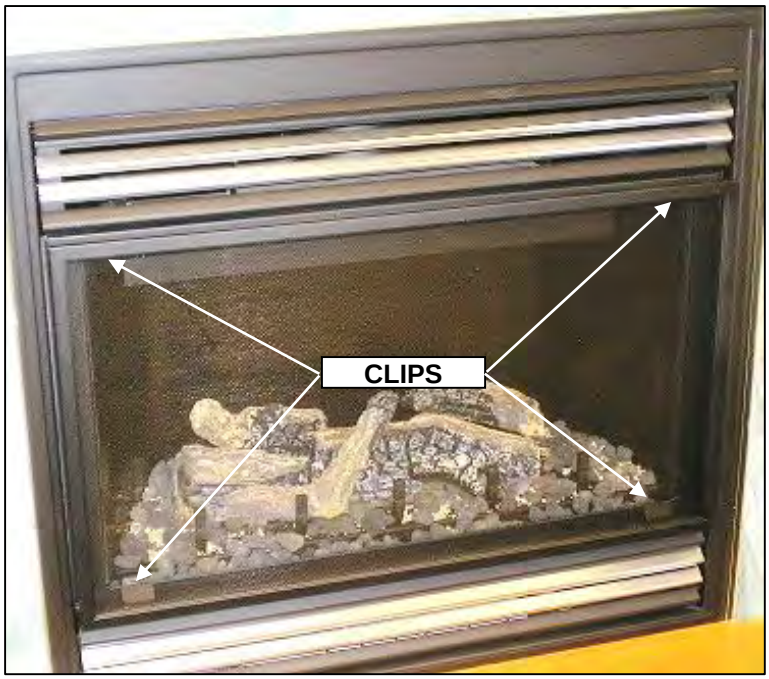
Hook Lower Clip onto glass door frame.



Press down and push upper clip under top glass door frame.

To install screens hook bottom clip onto glass door frame, then press down and push upper clip under top glass door frame, then release. Clip will hook onto frame.

Fireplace with Screen



To remove Safety Screens
WAIT UNTIL FIREPLACE IS COMPLETELY COOL.
Press down on upper clips and remove screen from fireplace glass door.

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/CSA-B149.1 or .2 Installation Code (in Canada) or the current National Fuel Gas Code Z223.1- NFPA 54 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 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, guard, or barrier 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. **WARNING: 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 appliance area must be kept clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
22. The front of the fireplace gives off high temperatures that could ignite combustible material which is kept close to the front of the unit.
23. Ensure that power to the Fireplace is turned off before servicing.
24. Do not operate this Fireplace without the glass front or with a broken glass.
25. 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.
26. 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.
27. This appliance is equipped with a three-prong (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.
28. **NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.** This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.
29. This appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

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.
   - **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; 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.
   - **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.

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.

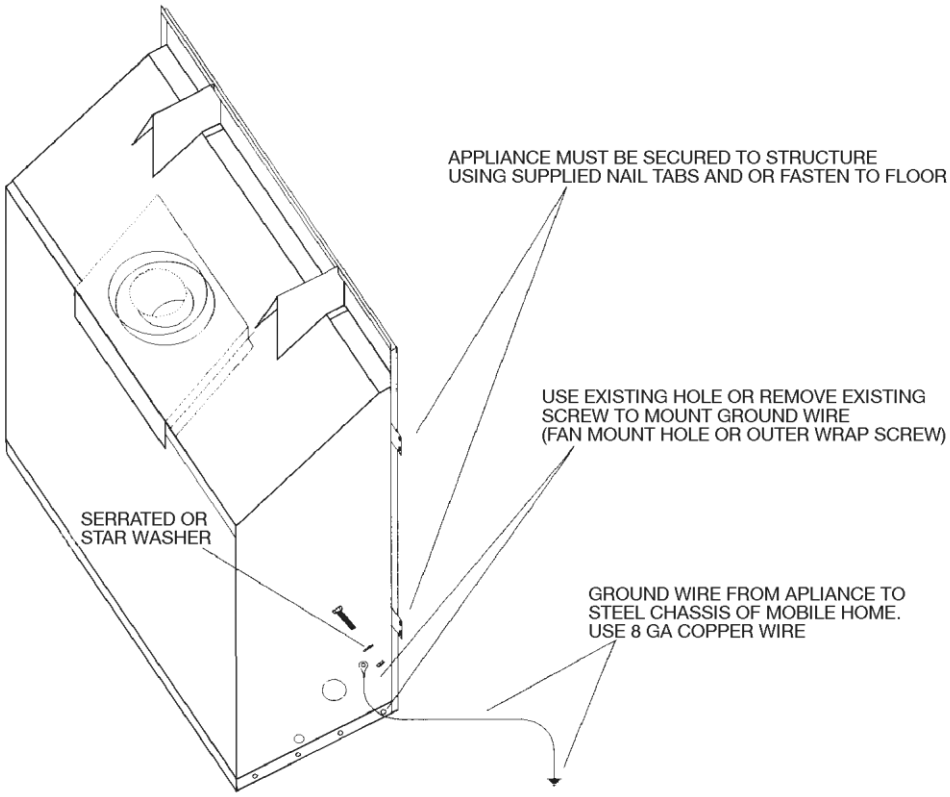
Carbon Monoxide (CO) Detector

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.

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 HBZDV4228N/NE/NE2 & HBZDV4228LP/LPE/LPE2 MAY BE INSTALLED IN MANUFACTURED (MOBILE) HOMES AFTER FIRST SALE IN THE USA. IN CANADA THE HBZDV4228N/NE/NE2 & HBZDV4228LP/LPE/LPE2 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.

Certified for installation in a bedroom or bed/sitting room.

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

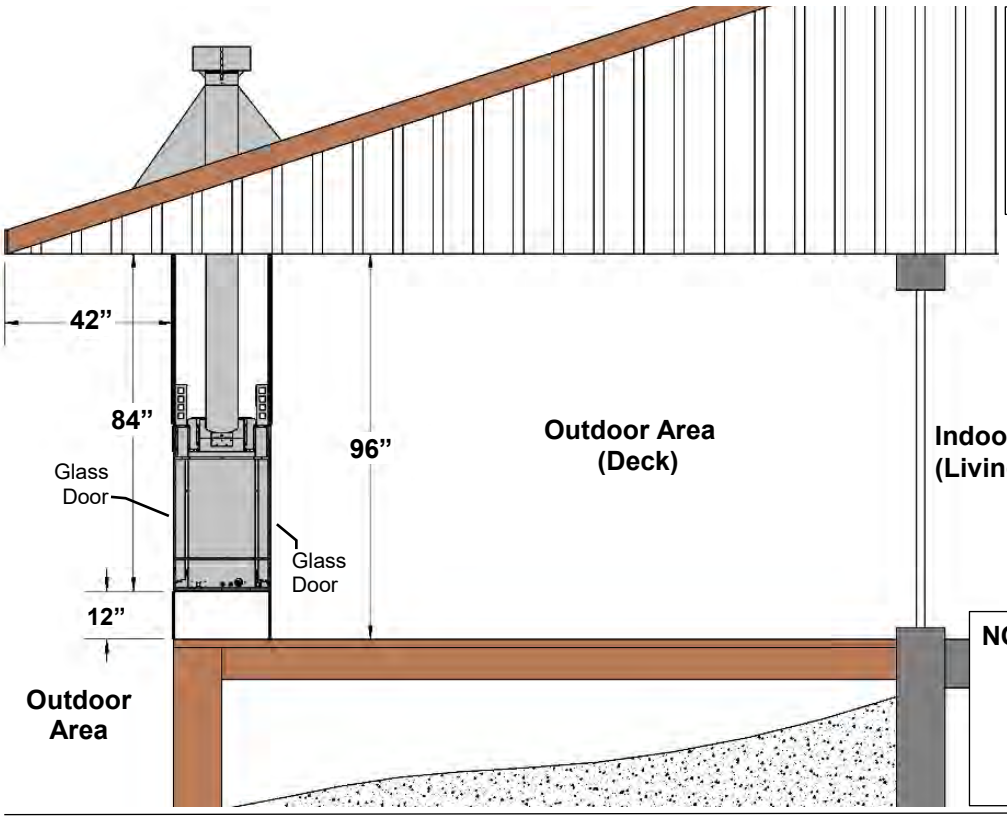
For required venting components see venting installation in appropriate section of this manual.

Fireplace Installations in Covered Outdoor Locations
– FOR BASIC MILLIVOLT UNITS ONLY- NO FAN – NO LIGHTS-

CAUTION – Installation of an indoor gas fireplace with an outdoor exposure is not covered under the (ANSI Z21.88 – CSA 2.22 or ANSI Z21.50 – CSA 2.33) standard(s) used to certify the indoor gas-fired fireplace. The Intertek safety certification will not apply to this installation method. This installation method must be deemed acceptable by the Authority Having Jurisdiction (AHJ) prior to the indoor gas fireplace being installed.

Kingsman and Marquis Direct Vent fireplaces may be installed into outdoor locations provided they are suitably protected from direct water impingement.

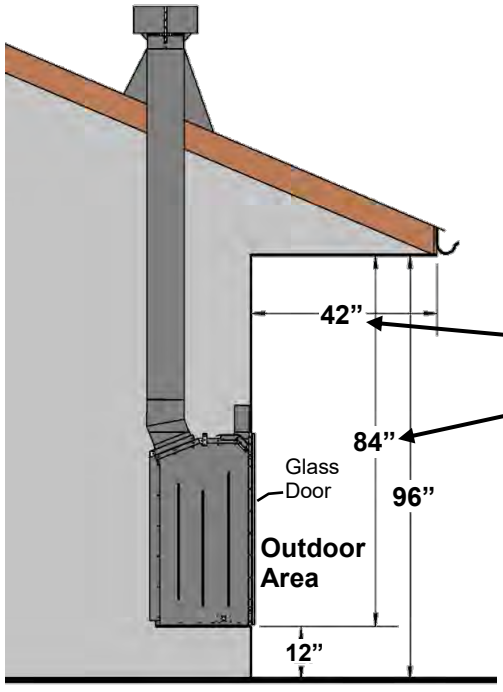
However, all installation clearances in the appliance manual must be observed. Framing, Clearances to Combustibles, Mantel Heights, Facing Requirements, Venting Installation, etc. **Use supplied Safety Screen.**



All wiring connections to line power shall be in accordance with outdoor requirements of;
-NECA NFPA 70 in the USA
-Canadian Electrical Code, CSA C22.1 for Canada.

⚠ **NOTE: TEMPERED GLASS WARNING:** Tempered glass is vulnerable to rapid and/or extreme changes in temperature (thermal shock). Take care to prevent water from contacting the fireplace, especially if it is hot.

NOTE: See-Through Units are suitable for an outdoor location, but not on the outside wall of a house or other structure, as air flows through both sides of the fireplace.



A **Minimum** sheltering cover (overhang) of **1/2 the distance from the base of the fireplace to the ceiling** (base of roofline) is required.

EXAMPLE:
The bottom of the fireplace is **84”** from the ceiling.
Therefore, **42”** of sheltering cover is required above fireplace.

The Fireplace is not to be operated in temperatures below freezing (0°C / 32°F).

Locating Your Appliance

LOCATION KEY:

A. Flat on Wall

B. Across the Corner

C. As an Island

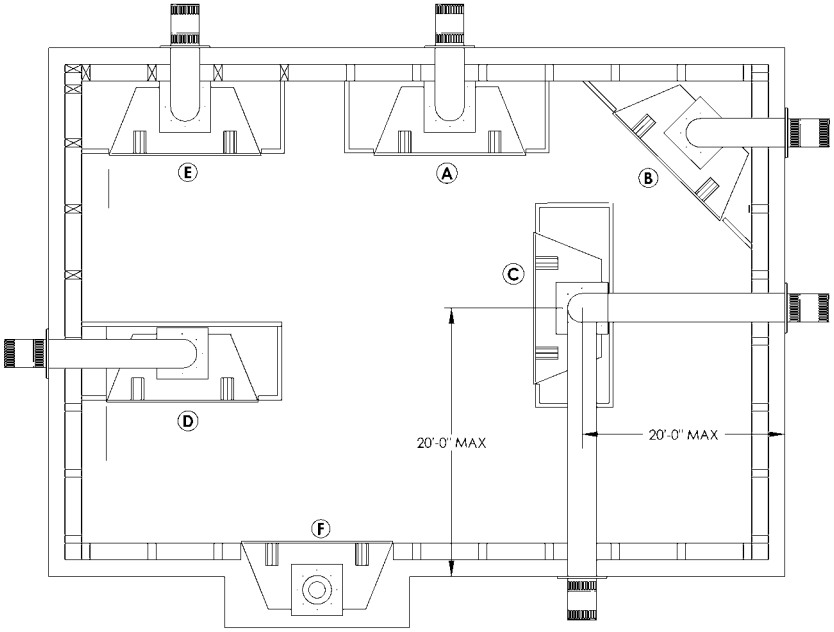
D. As a Room Divider

E. Flat on Wall Corner

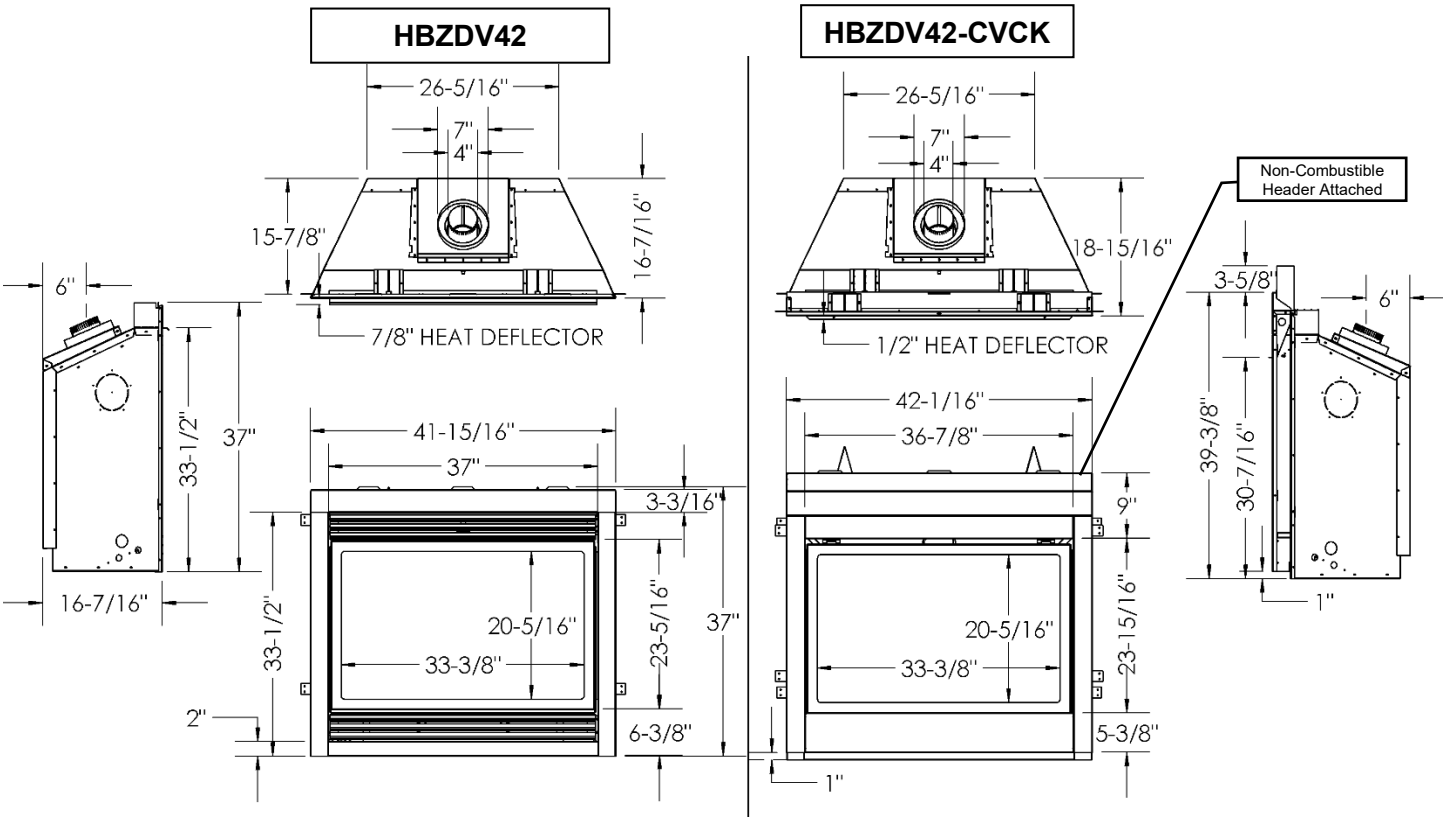
F. Exterior Wall

See Mantel Leg Clearances Instruction for the proper placement of fireplace.

Island installation with a top vent is possible as long as the horizontal portion of the vent system does not exceed 20 feet (6.1 m).



Fireplace Dimensions



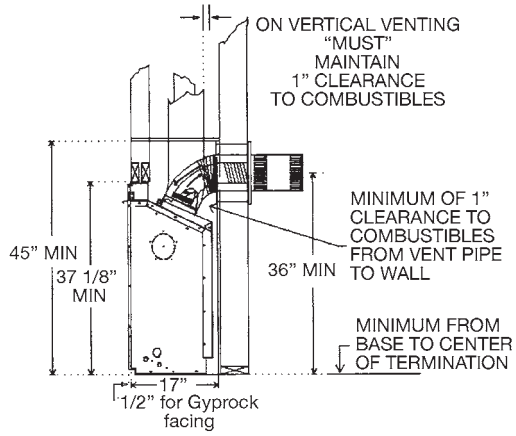
Framing for your Gas Fireplace

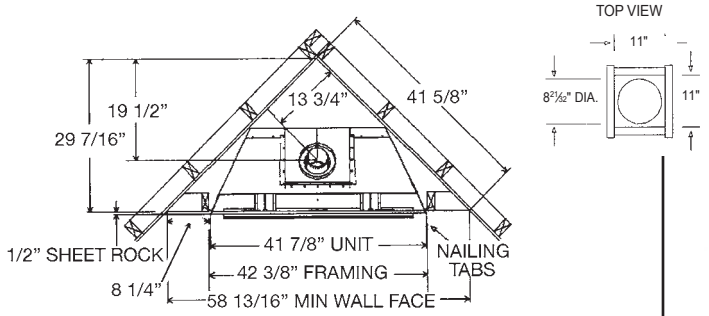
Framing Specifications

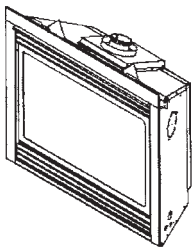
1. Cold climate installation recommendation: When installing this fireplace against non insulated exterior wall or chase, it is recommended that the outer walls be insulated to conform to applicable insulation codes. Drywall must be installed over insulation to prevent contact of insulation and unit.
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. (louvered models only)
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. For HBZDV with louvers combustible floor can raise 1" above the bottom of the fireplace. For HBZDV with CVCK (Clean view Circulating Kit) floor or hearth can raise 7" above the bottom of the fireplace with portions being combustible and non combustible. See drawing Below.
6. When installing MQHB42SW surround,the fireplace must be raised a minimum of 3 1/2" above the finished floors, to accommodate the wall surround. The fireplace may be raised higher but the 60" clearance measured from the bottom of the fireplace to the ceiling must be maintained at all times. (i.e. For an 8 ft. ceiling the unit can be raised only 36 inches.)

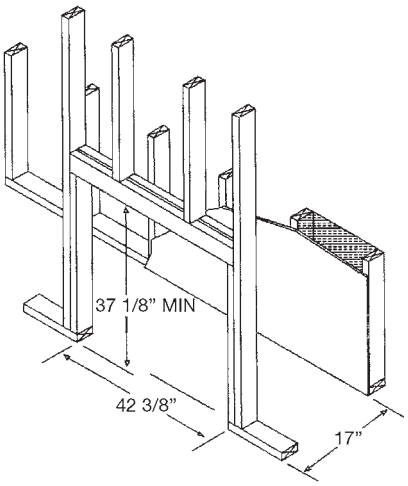
For **Propane Horizontal Installations** the venting must be a minimum of one foot vertical off the flue before the elbow on any horizontal runs of one foot or greater. This allows for cleaner combustion and greatly reduces carboning and cleaning of glass.

HBZDV42 louvered

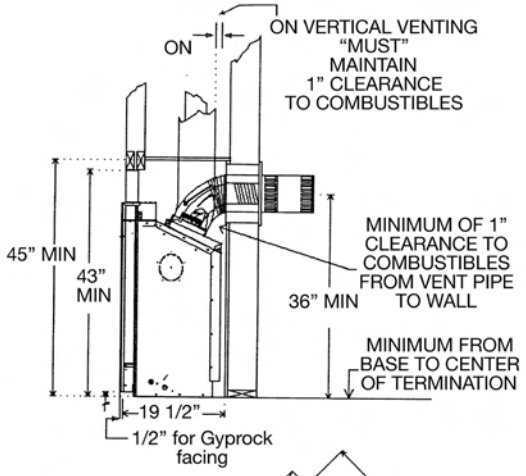


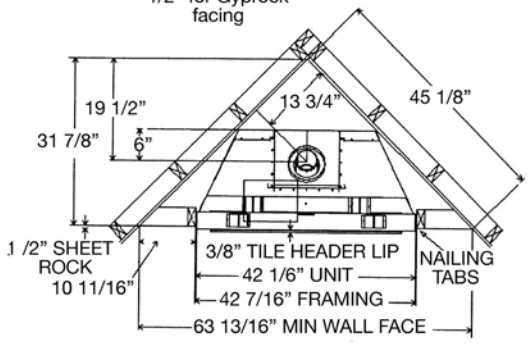


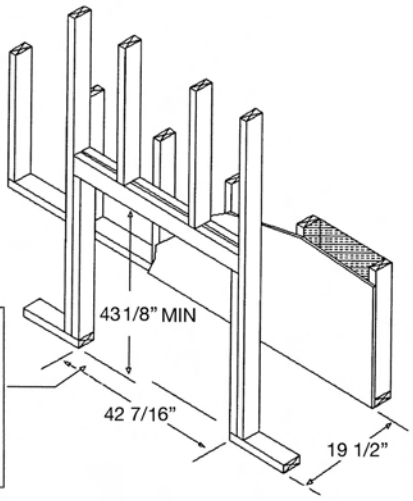




HBZDV42 WITH CVCK (CLEAN VIEW CIRCULATING KIT)



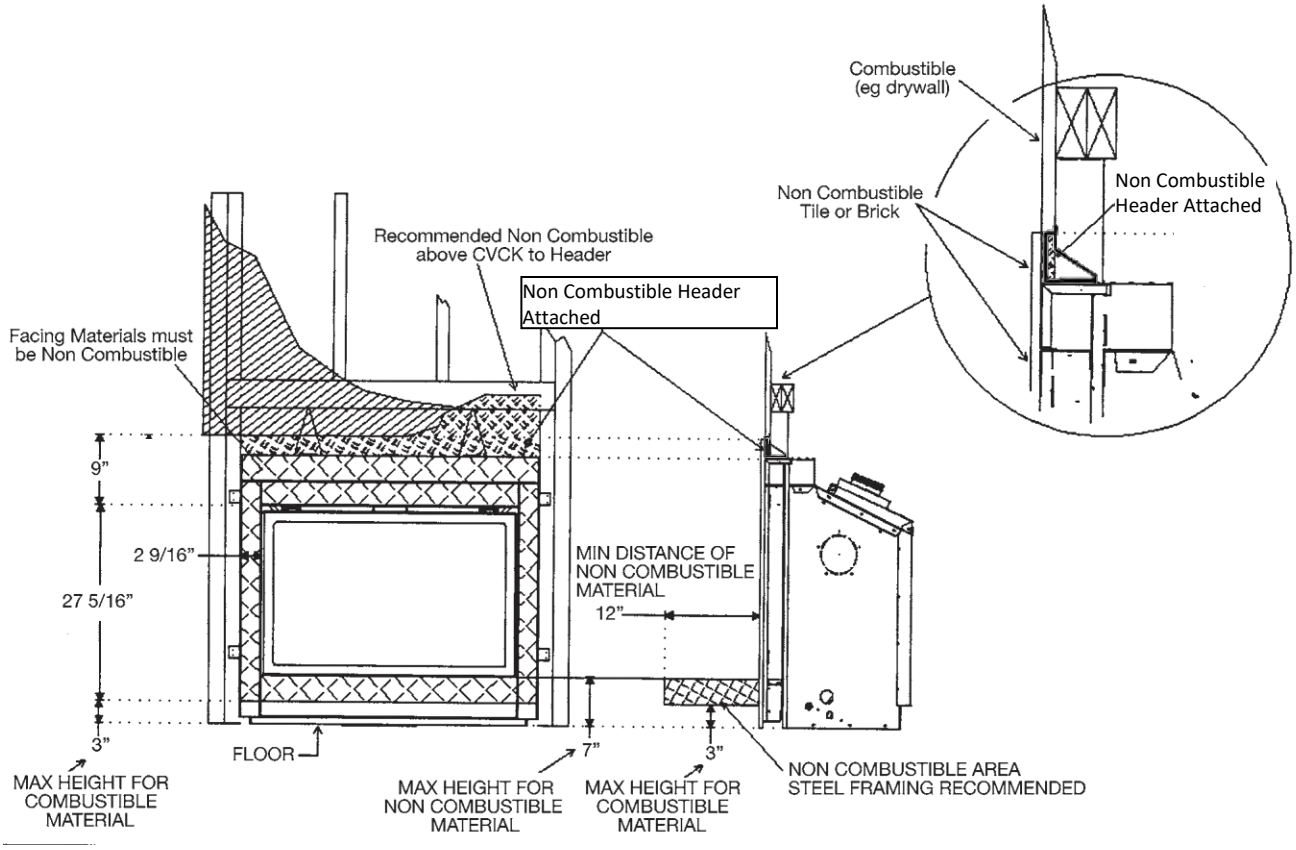




NOTE: When adding a MQHB42SW wall surround, the fireplace must be raised a minimum of 3 1/2" above the finished floor to accommodate the wall surround. (See next page)

HB42 - Framing and Facing Requirements

HBZDV42 WITH HB42CVCK (CLEAN VIEW CIRCULATING KIT)



HB42 - HOW TO INSTALL CLEAN VIEW KIT (CVCK)

CAUTION: When using CVCK DO NOT INSTALL a Louver assembly.

1. Install optional fan kit (see Fan Instruction).
2. Fold two standoffs up into position and mount with supplied screws. (FIG 1)
3. Hang CVCK on top of fireplace retainer tabs and rotate down into position. (FIG 2)
4. Using the screws provided, fasten the non-combustible header onto the top of the CVCK assembly.
5. Using four supplied #6 screws, fasten CVCK kit to the inside frame of unit.
6. Kit is supplied with 2 valve extension knobs. Align the notches and slide the extensions onto valve knobs.
7. DO NOT brick or tile beyond the inside area of the CVCK kit to allow for removal of door.
8. Install optional pull screen system: First slide curtain onto rods and slide round end of rod into side post (REF A). Using 1/2" DT screws, mount the flattened end of rod to bottom side of rod hanger bracket (REF B). Repeat this step for opposite side.

NOTE: ADDITIONAL ACCESS FOR GASLINE INSTALLATION AND FAN ELECTRICAL INSTALLATION- When CVCK is installed in framing, remove 2 screws from the right and left side of the bottom panel. Once screws are removed, bottom panel can be rotated forward for access to gas valve and fan system.

CVCK KIT CONTENT
1x Metal Surround
10x 1/2" DT Screws
4x #6 Combo Screws
1x 3" ON/OFF/PILOT Knob
1x 3" High/Low Knob
1x Non-combustible Header

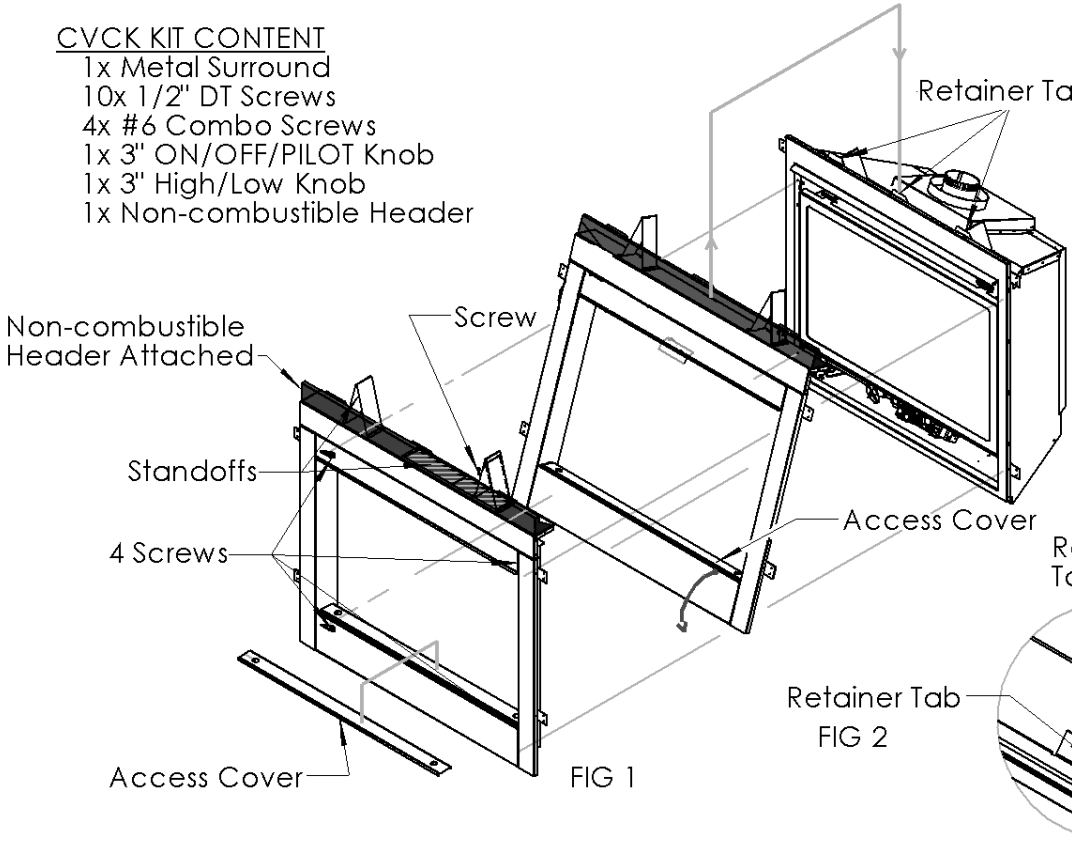


FIG 1

NOTE: When using the Clean View Kit (CVCK) and installing optional electrical components (i.e. Remote Controls, variable speed control, and or fan modules) locate them in the Clean View access area, unless other shielding devices like our IPI Component box is used.

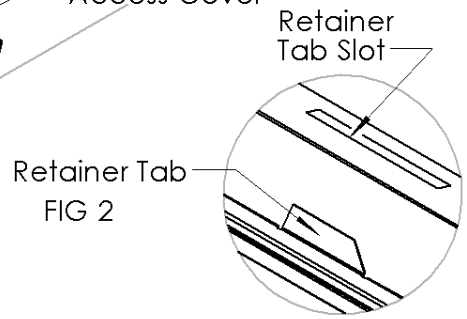


FIG 2

Clearance to Combustibles

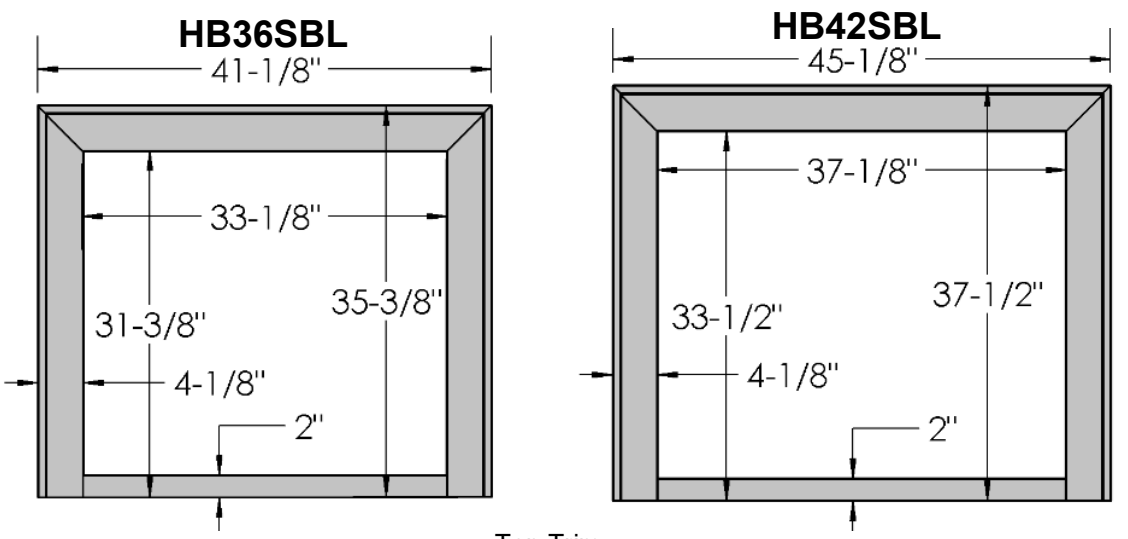
Clearance to Combustibles	
Back (from Standoffs)	0 inches/0 mm
Side (from standoffs)	0 inches/0 mm
Floor	0 inches/0 mm
Ceiling (from bottom of fireplace)	60 inches/150 cm
Top (from standoffs)	0 inches/0 mm
Top of 90 degree bend in Minimum Enclosure of 45 to 46 inches	5 inches/128 mm/ All Vent Systems
Top of 90 degree bend in Enclosure over 46 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	1 1/4 inch/32mm / Simpson/AmeriVent/Selkirk Direct Temp Systems

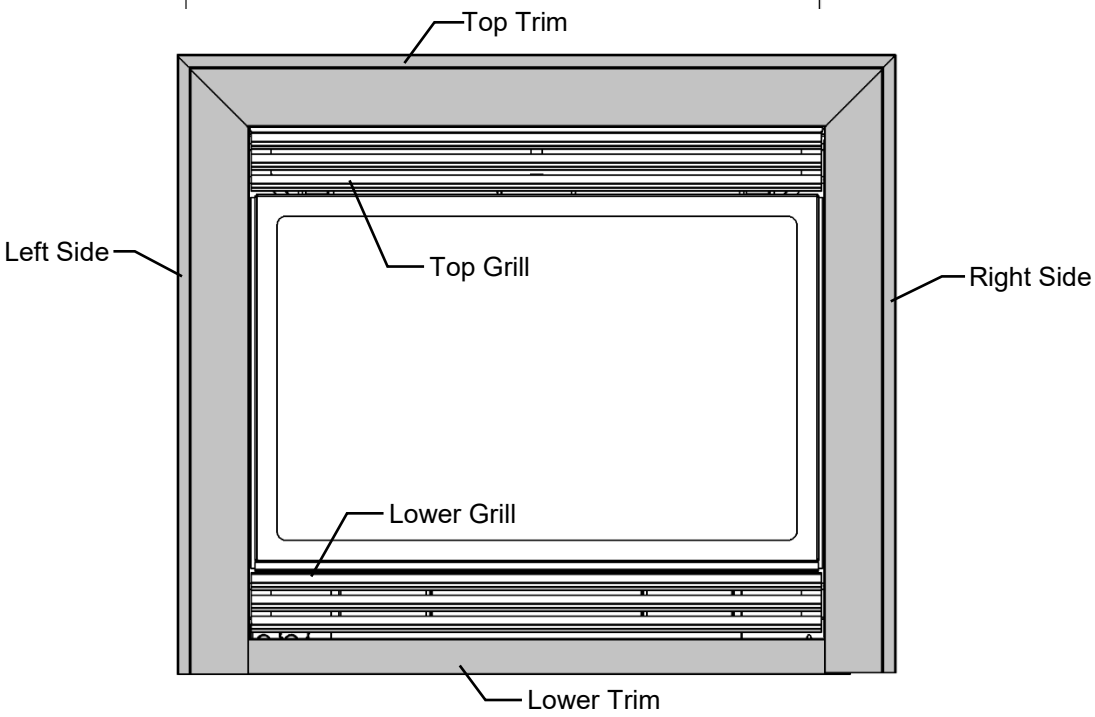
(NOTE -Floor) if installing the appliance directly on carpeting or other combustible materials other than wood flooring, the appliance shall be installed on a metal or wood panel, the full width and depth of the appliance. Carpet may extend 1 inch above the floor of appliance.
For units with CVCK (Clean View Circulating Kit) see framing with CVCK to establish floor heights.

⚠ **WARNING:** 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.

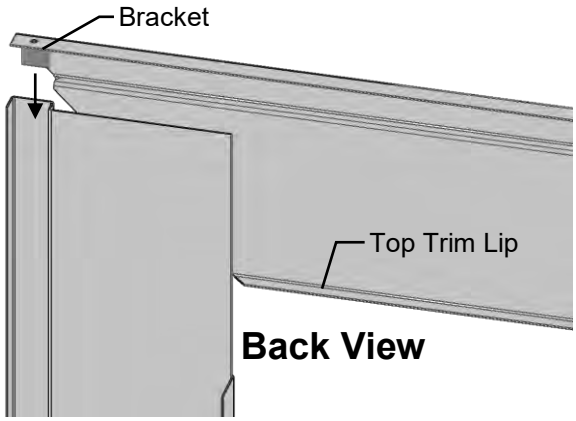
HB36SBL & HB42SBL Surrounds

Supplied with [Qty 4] 6-32 Black Self Tapping Screws.

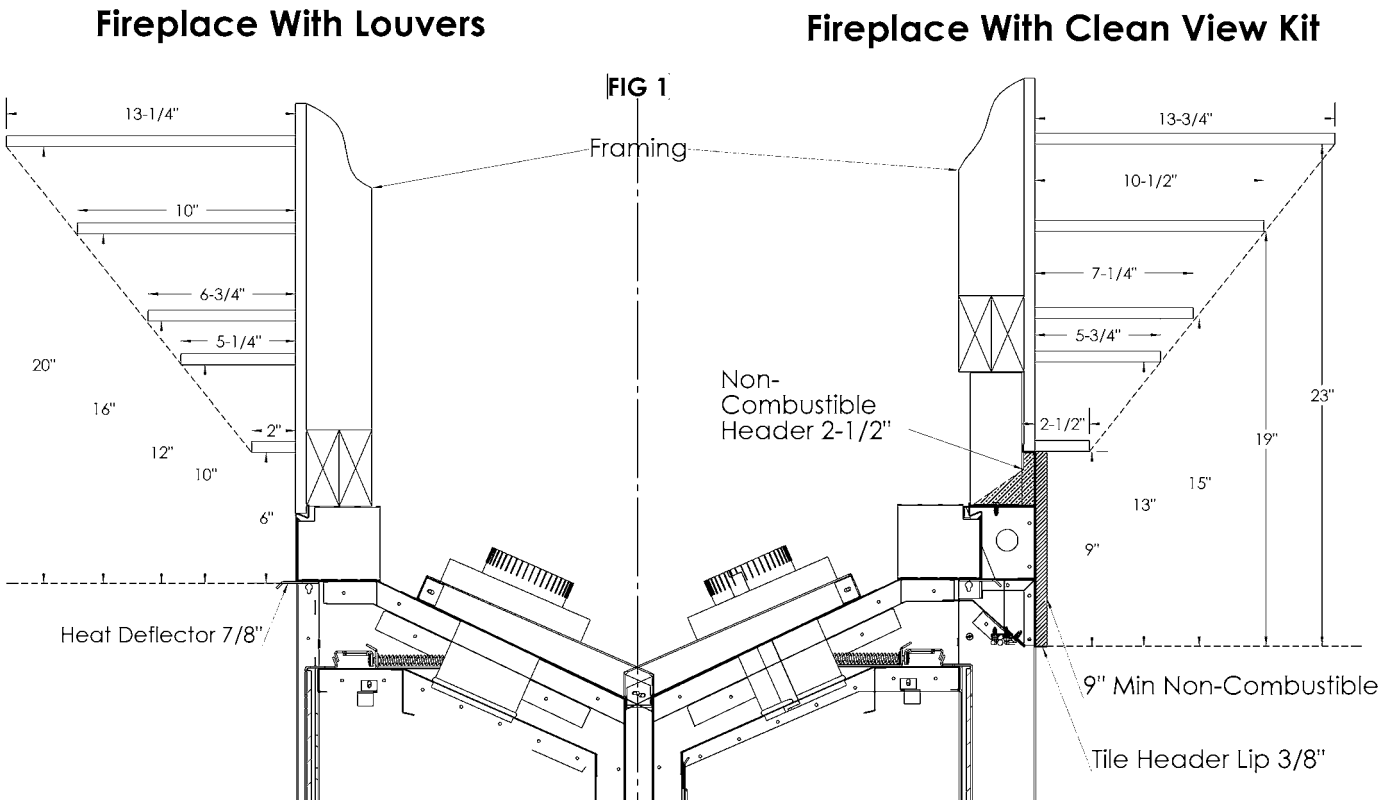




1. Remove Top and Lower Grills.
2. Place Lower Trim onto fireplace.
3. Attach left and right sides to fireplace with [2 ea.] 6-32 screws.
4. Position top trim onto left and right sides by sliding the top trim and bracket together.
5. Push bottom side of trop trim toward fireplace. The lip on the bottom side of top trim must be inserted into fireplace.

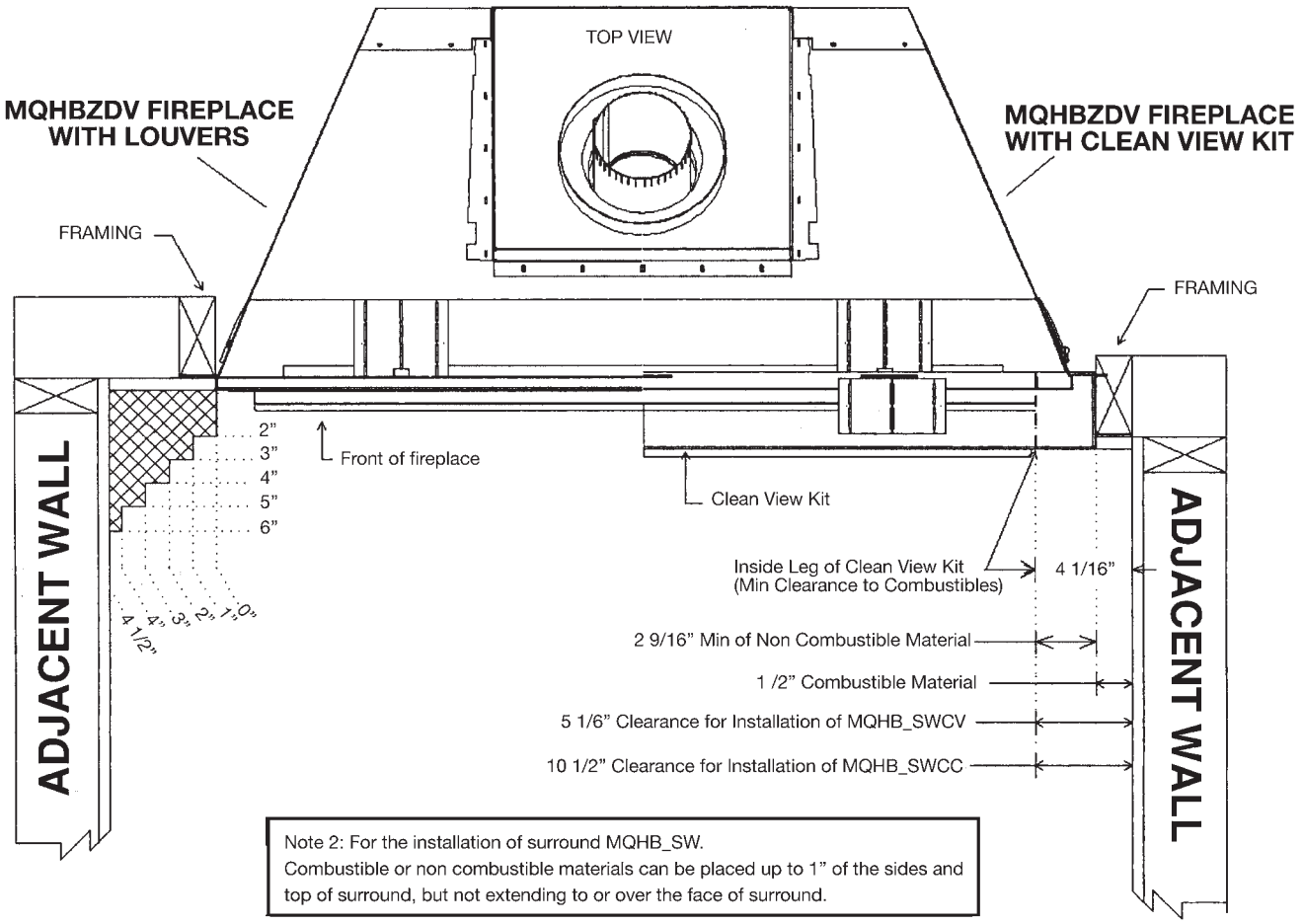


Clearances – HBZDV42 – Mantels



⚠ **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



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 except when using MQHBSW.

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) except where designer clean view kit is used.

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

For COMBUSTIBLE materials extending in front of fireplace consult (Mantel and Mantel Leg Drawings).

Surrounds

If installing wide or slim line surrounds, the finish materials must be flush with the front facing of the fireplace.

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

Fan Installation for HBZDV 36/42/47

Fan Installation instructions for HBZDV36/42/47 with or without CVCK (Clean View Circulating Kit)

Note: INSTALL FAN KIT BEFORE INSTALLING OPTIONAL CVCK (Clean View Circulating Kit).

If CVCK has been installed into Framing additional access is provided by removing screws from bottom panel of CVCK. See INSTALLING CLEAN VIEW KIT (CVCK). Page 9-10

1. Slide fan housing into unit and place over 2 Fan Retainer tabs. Tabs are pre punched and bent up. Rubber grommets at the base of the fan should fit snugly over the tabs. *Note: When installing fan, lay the fan on its back and slide into the Fireplace lengthwise. Once inside the fan can be stood upright and slid behind the valve for placement.
2. Note: For Fan Disc installation HBZDV units have been installed with a sliding track system. Install the Thermodisc provided with the Fan Kit. Place thermodisc into sliding assembly, Fig 1, and attach 2 leads exiting right side of fan housing into thermodisc. Now slide disc assembly into thermodisc track, Fig 2. Place swivel handle of disc assembly on track to lock into position. To service disc simply pull swivel handle slide towards you while rotating handle to access disc.
3. Wire Junction Box to 120v and wall mounted variable speed control. Install a duplex outlet to junction box and plug fan into outlet.
4. Turn the wall switch on (clockwise). Turn fireplace on. Once the sensor in unit reaches operating temperature (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.
5. To set the minimum fan speed. Remove the variable switch from the wall mount. Turn the variable speed wall controller to its minimum setting (fully counter clockwise). Use the set screw on the side of variable speed controller to increase or decrease the minimum fan speed (lowering minimum fan speed will decrease sound level created by fan)

   Reinstall switch into wall mount and cover with face plate.

Note: To service fan with CVCK kit installed see Removing Burner System in manual.

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

Verify proper operation after servicing.

Parts List:

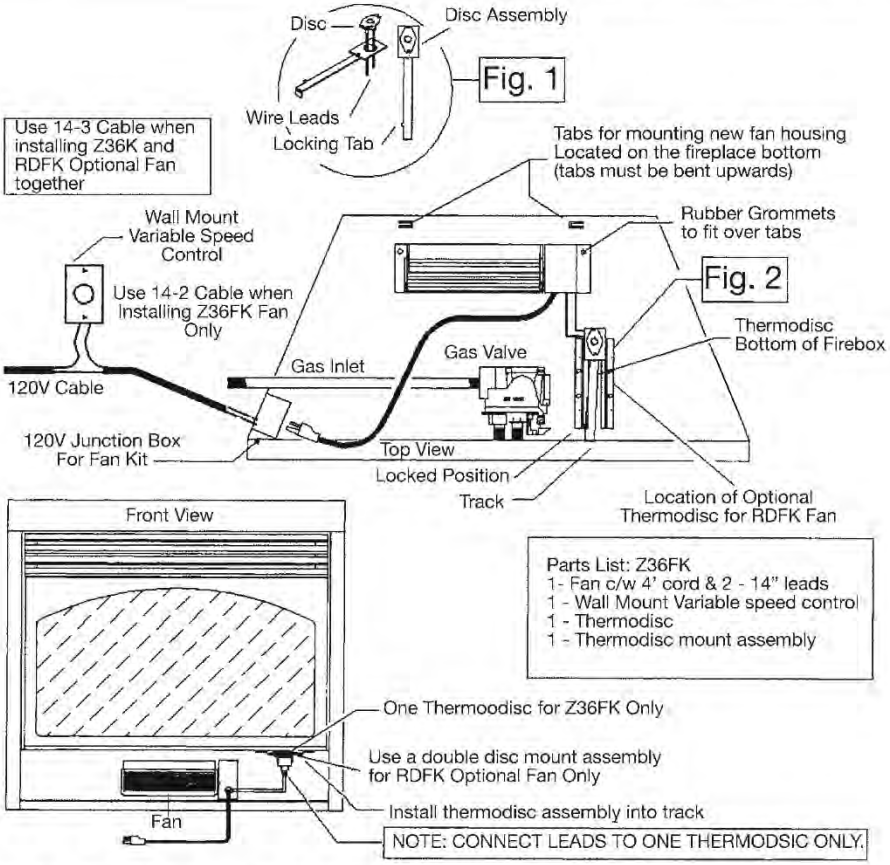
1 ea. fan comes with 4 ft cord. Two 14' leads (female ends)
1 ea variable speed control (wall mount type)
1 ea thermodisc
1 thermodisc mount assembly

Electrical Services

All optional fan kits are equipped with a 120V, 60Hz, .4amp 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 – DO NOT ATTACH 120V FAN ASSEMBLY TO MILLIVOLT GAS VALVE SYSTEM

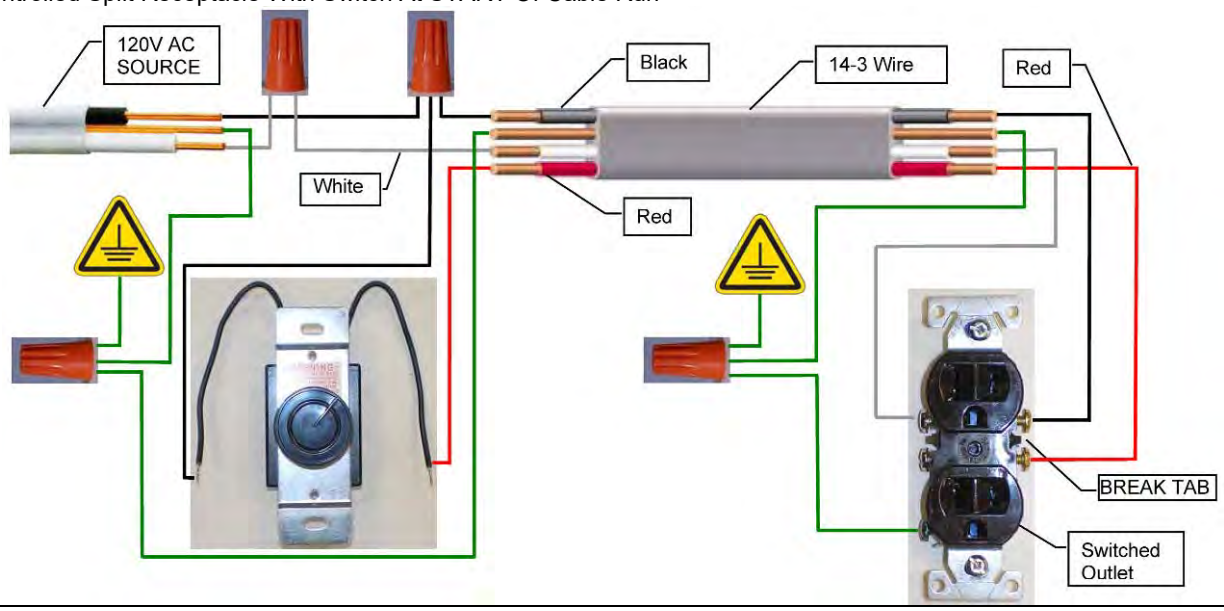
Fan Speed Control Outside of Fireplace

If you plan to locate the variable speed control switch for the fan outside of the fireplace and you require a constant source of AC power inside the unit for another accessory such as lights or an IPI valve system, follow one of the procedures below.

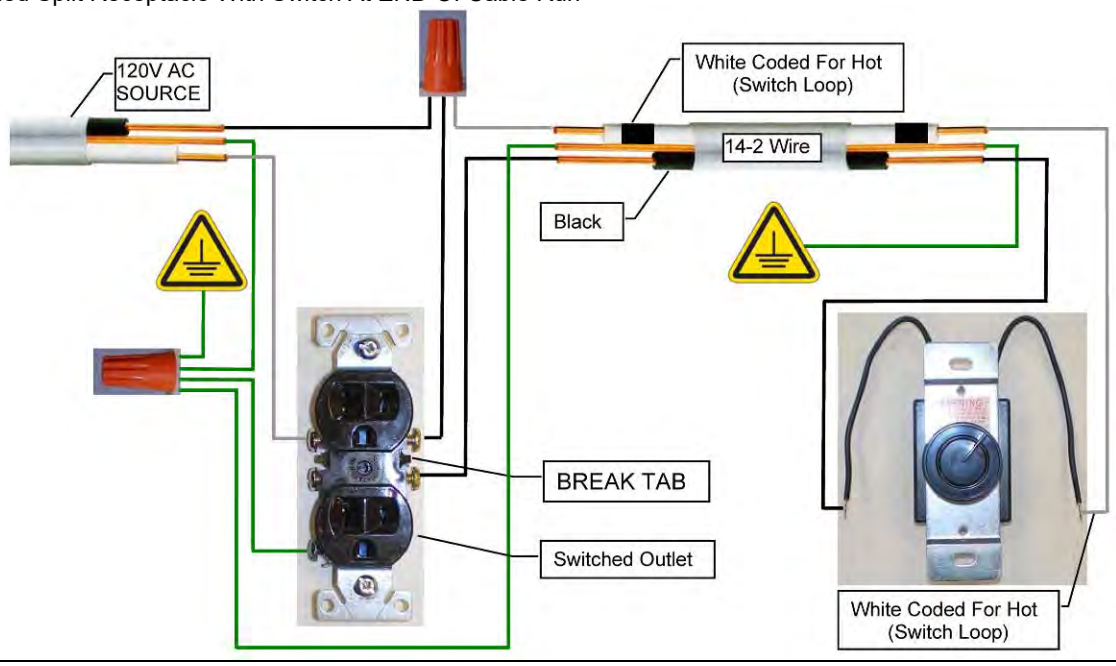
⚠WARNING	⚠WARNING	⚠WARNING
A qualified electrician must connect electrical wiring to junction outlet for built-in installation. **Follow all codes.**	Electrical Grounding Instructions – This appliance is equipped with a three – pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.	Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation and servicing.

⚠**Caution**: Electrical installation to be done by a qualified installer. All wires must be connected and grounded in accordance with CSA Standard C22.1- Canadian Electrical Code part 1 or with the National Electrical Code, ANSI /NFPA 70 (latest edition) and /or in accordance with local codes.

Switch Controlled Split Receptacle With Switch At START Of Cable Run



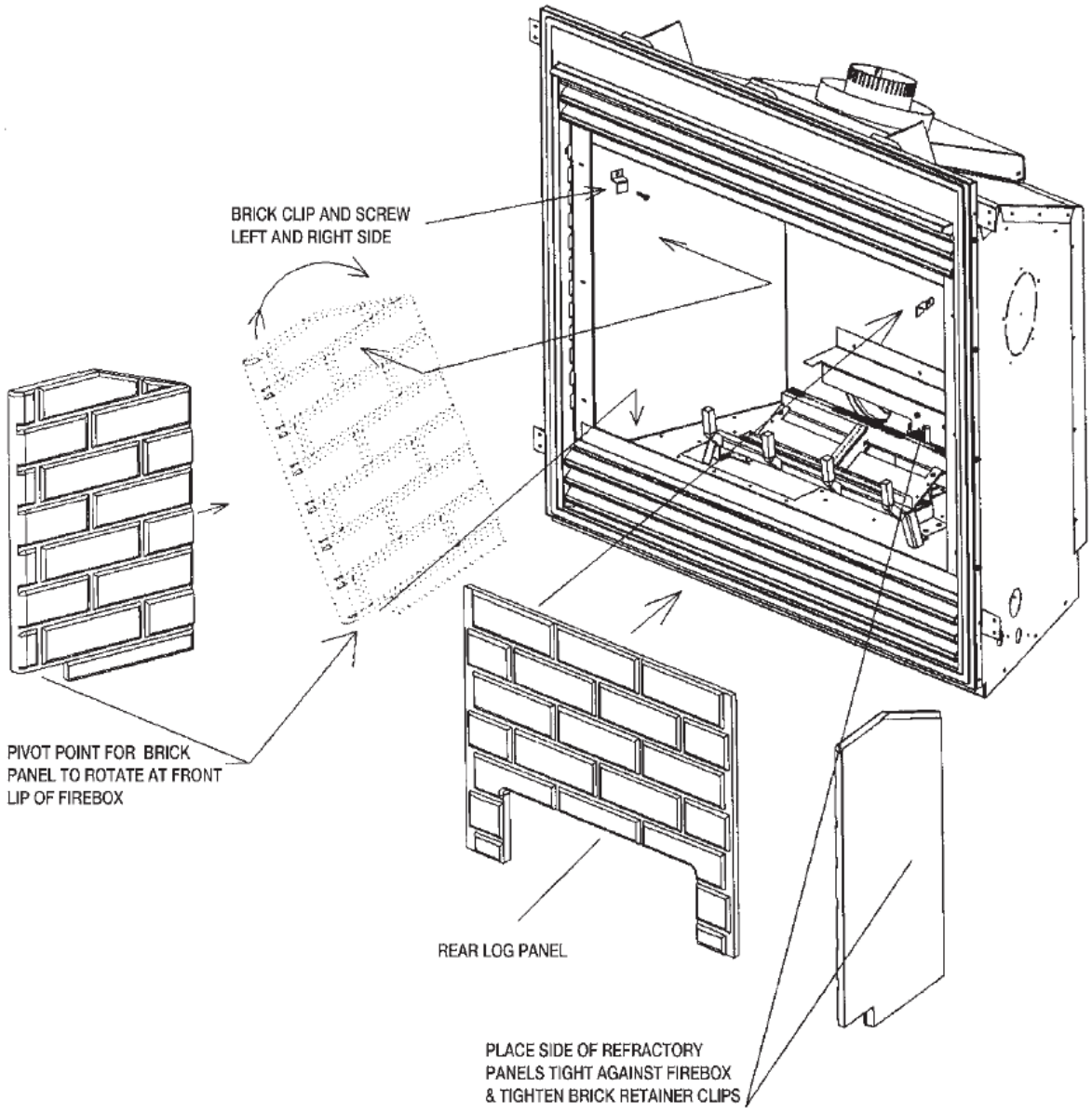
Switch Controlled Split Receptacle With Switch At END Of Cable Run



Brick Liner Installation – HBZDV4224 & HBZDV4228

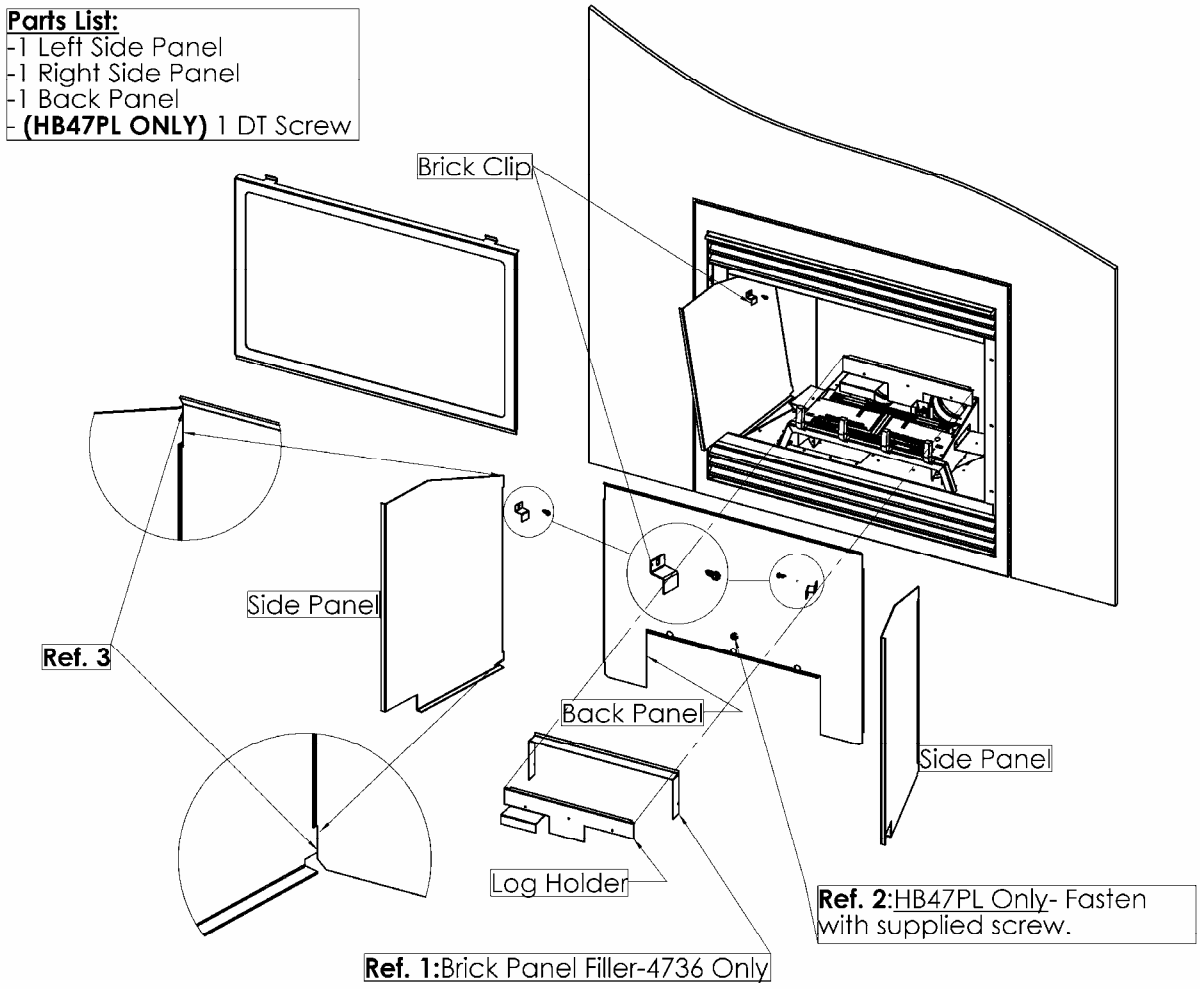
INSTALLING BRICK PANELS FOR MODEL HBZDV4224 AND HBZDV4228

1. Place rear brick panel against rear of fireplace.
2. Loosen screws holding brick clips in position. Rotate clips up out of the way.
3. Place bottom of side brick over front lip of fireplace and rotate panel into position.
4. Rotate brick clips down and tighten screws.



Installation of HB Porcelain Liners - HB42PL

1. Remove Door from the fireplace by unlatching the 2 latches on top of unit.
2. Remove back Log Holder by removing 3 screws from face of Log Holder. The Log Holder will have to be re-installed after the placement of the Back Panel.
3. Place Back Panel up against rear of firebox by tilting top of Back Panel towards you and sliding bottom of Back Panel over burner system.
4. Loosen screws holding Brick Clip in place. Rotate Brick Clip out of the way and slide Side Panel up against Back Panel. Side Panel tabs should engage top and bottom of Back Panel **(See Ref. 3)**. Rotate Brick Clip down over Side Panel and tighten screw.
5. Re-install Log Holder (and Brick Filler Panel if applicable) removed in step 2.Install Log Set as per instruction and re-install Door.



Door and 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.

Removal of the Glass Door

1. Remove the door by unlatching the 2 top latches. Simply place 2 fingers in the grooves, pull towards you and lift upwards slightly.
2. Once the top of the door is unlatched, simply pull outwards and lift upwards to unlatch the bottom.
3. When re-installing the door place the bottom of the door in first and secure with Top Latch assembly to the door.

Spring Replacement:

*Over time, spring may need to be replaced if tension is lost.

1. To remove the top latch, remove the 2 hex screws that secure it in place. They are located in the firebox.
2. Once all the screws are removed the latches will slide out of place.
3. There is 1 lock nut per latch. When replacing a spring, tighten the lock nut until 2 threads are beyond the locknut. This is critical for proper tension.

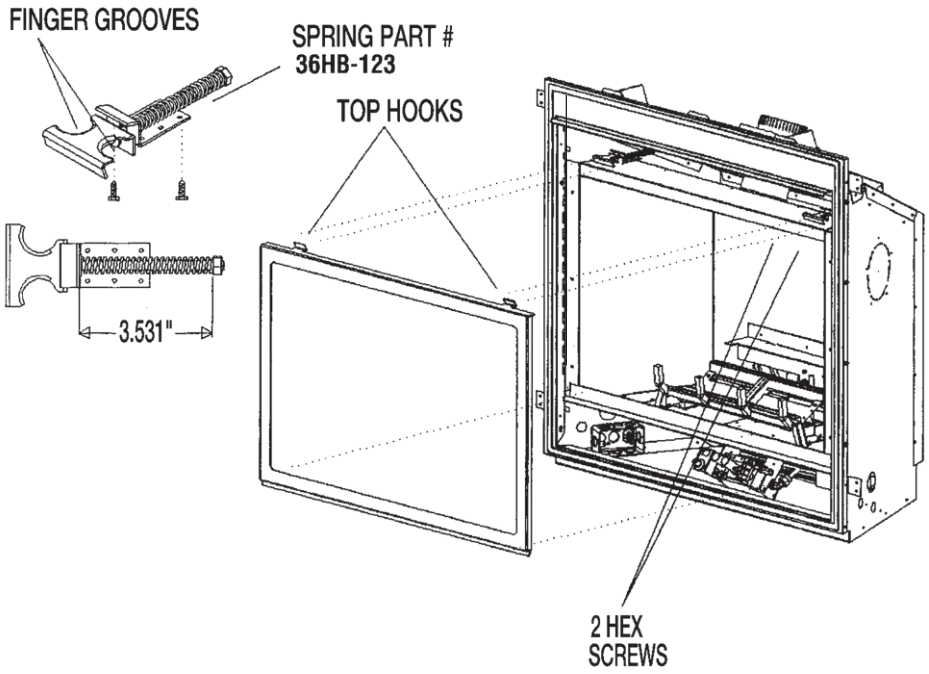
Glass Replacement

REPLACEMENT GLASS FOR BOTH DIRECT VENT UNITS

Model Series HBZDV4224 can use either tempered glass or Robax ceramic or coated Neaoceram glass. Must be 5mm thick.

Only Robax ceramic or coated Neaoceram glass may be used for replacement for model HBZDV4228. 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.



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	MQRSP3 MQROCK1
HBZDV4224N or LP	✓	✓	✓	✓
HBZDV4228N or LP	✓	✓	✓	✓

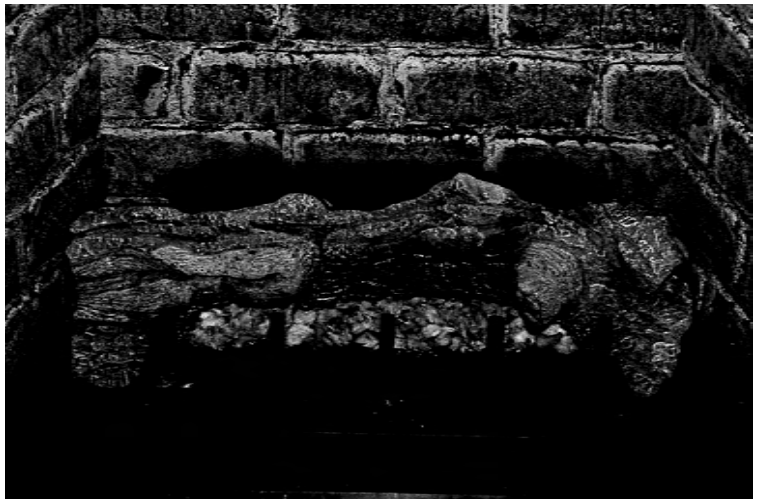
Log Assembly for HBZDV4224/HBZDV4228
LOGC42 - LOG C43 LOG PLACEMENT GUIDELINES (4-PIECE LOG SET)

FIGURE A - Log set Ember kit and Crushed rock

WARNING:
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.

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 (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.



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 MODELS HBZDV4224HBZDV4228

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 possible.)

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.

LOGC44 PLACEMENT GUIDELINES - FOR MODELS HBZDV4224/HBZDV4228

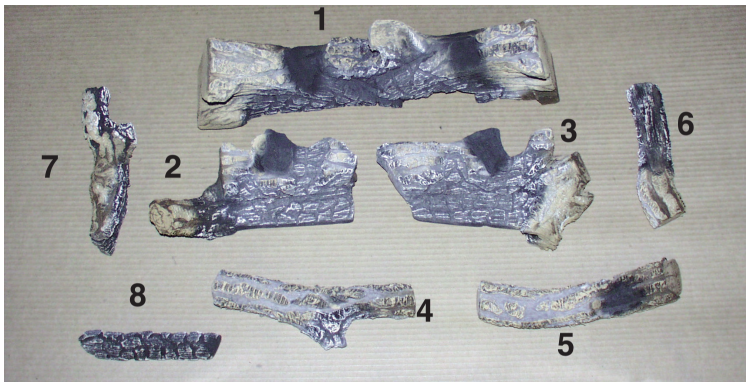
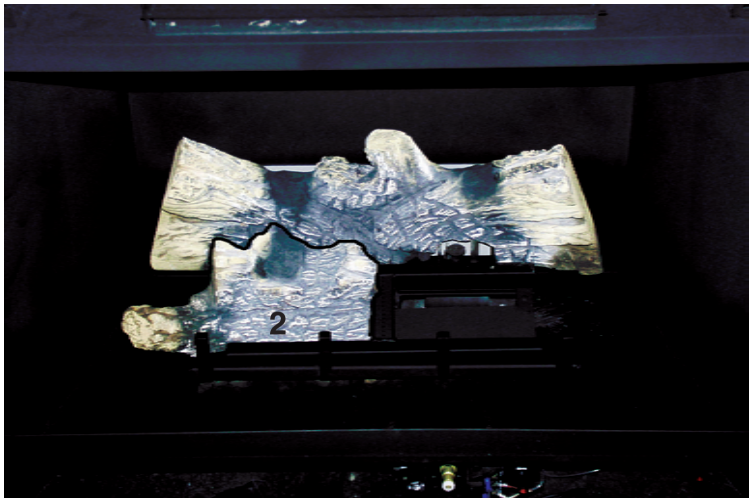


FIGURE A - Log set Ember kit and Crushed rock

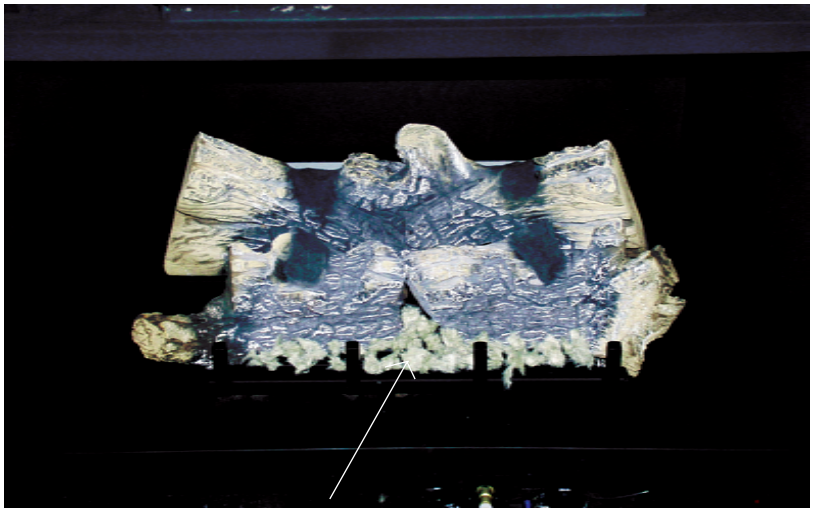
Step (1) Position rear log over rear log holder and lower into position. Be sure that the log does not sit on rear burner, but behind and lower than burner.



Step (2) Locate flat surface on Log (2) and place directly onto left ember plate, push log fully to the right until it touches the crossingtube.

LOGC44 PLACEMENT GUIDELINES - FOR MODELS HBZDV4224/HBZDV4228

Step (3) Locate flat surface on Log (3) and place directly on to right Ember plate, push log fully to the left until it touches Log (2)

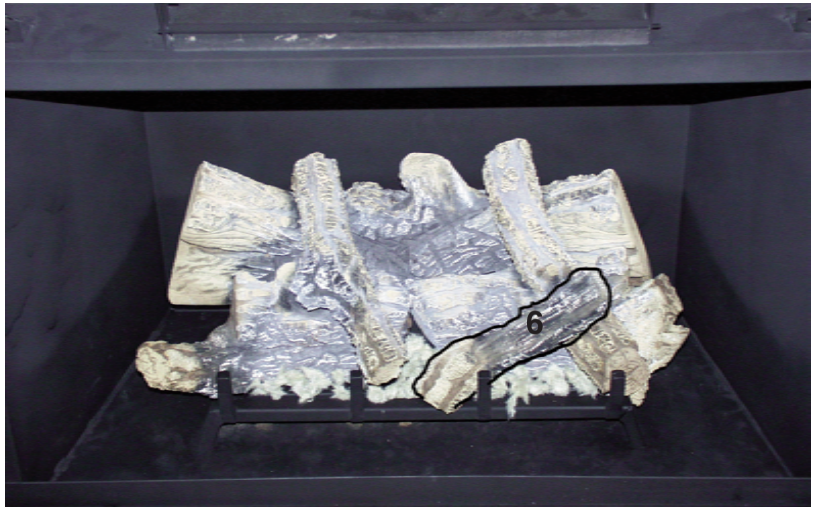


Step (4) Remove Ember material from plastic bag, tear off dime and nickel sized pieces and place directly onto front burner tube and crossover tube. (NOTE: Do not place embers onto rear burner tube)

Step (5) Position Log (4) into grooved areas of Logs (1) and (2).

Step (6) Position Log (5) into grooved area of Logs (1) and (3).

LOGC44 PLACEMENT GUIDELINES - FOR MODELS HBZDV4224/HBZDV4228



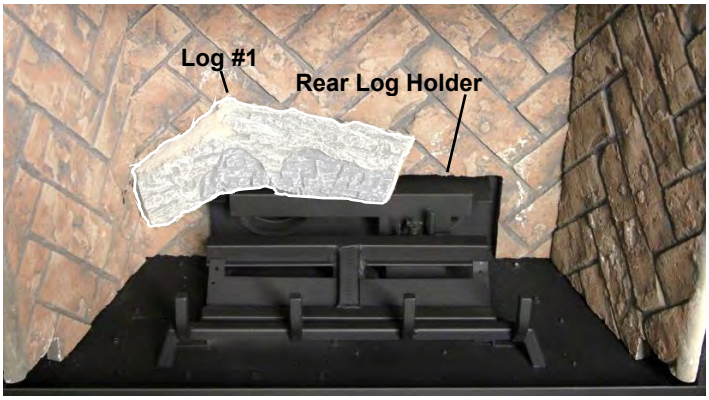
Step (7) Position Log (6) up against the the 2nd grate post from the right, and position upper section of Log (6) into grooved area of Log (5).

Step (8) Slide Log (7) between Log (1) and Log (2)

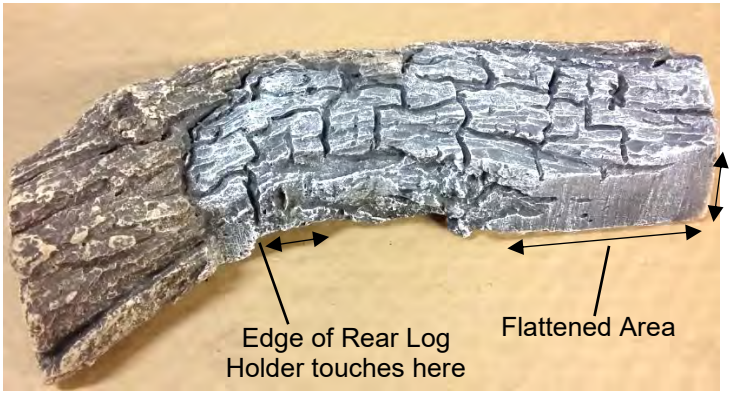
Step (9) Position Log (8) up against the 3rd grate post from the right, and position upper section of Log (8) against Logs (2) and (7).

Step (10) Place crushed rocks onto firebox bottom.
(NOTE: Do not place crushed rock onto burner tubes)

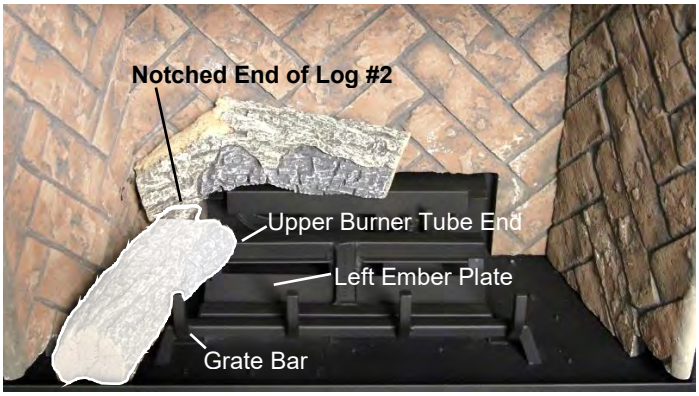
MQLOGC45 Oak Logset -Placement Instructions- HBZDV3624 / 3628 / 4224 / 4228



Step 1: Place flattened area of **Log #1** onto left side of Rear Log Holder.

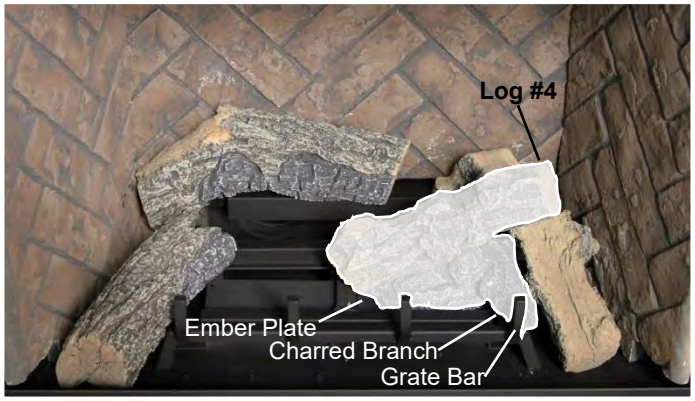


Log #1 Flattened Area



Step 2: Place Notched End of **Log #2** onto Left Ember Plate and against Upper Burner Tube End. Next place Flattened Area of Log #2 onto Firebox Floor and against left side of Grate Bar.

Step 3: Rest the Small Branch end of **Log #3** onto Rear Log Holder. Next place Flattened area of Log #3 onto firebox floor between the right end of Grate Bar and sidewall of Firebox or Brick Panel.



Step 4: Place Flattened Area of **Log #4** onto the Ember Plate, making sure it is completely seated. The charred Branch of Log #4 will rest on the end of the Grate Bar.

Step 5: Place Rock Wool onto Front and Crossover Burner Tubes and onto the Left Ember Plate

Step 6: Place the end of **Log #5** against middle right Grate Bar as shown. The other end will rest on Log #2.

Step 7: Place **Log #6** onto Log #1 and Log #5 making sure to position between the end and center flames evenly. There should be no impingement of flames or sooting may occur.

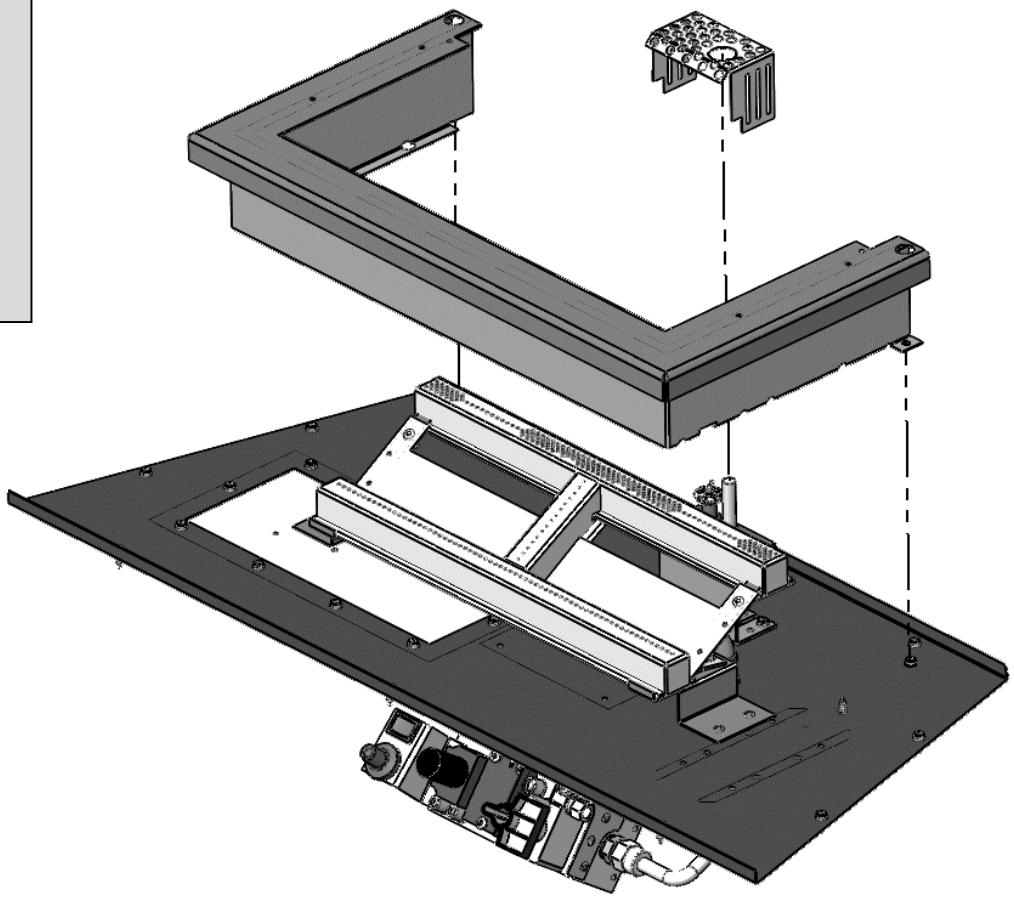
Step 8: Place **Log #7** onto empty spot on Rear Log Holder and onto Log #4 making sure to position between the end flame and center flame evenly. There should be no impingement of flames or sooting may occur.

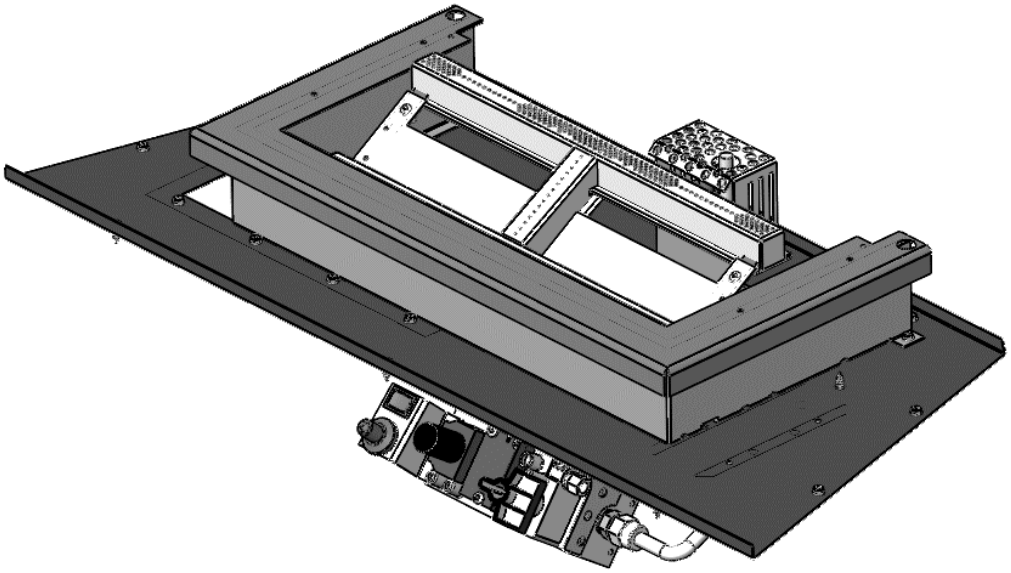
Step 9: Place Lava Rock onto Firebox Bottom and sprinkle Vermiculite.

MQRSP3 with Pilot Shield

⚠ WARNING:

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.





Installing MQRSP3 Rock Platform Assembly Fits HBZDV3624-28/4224-28

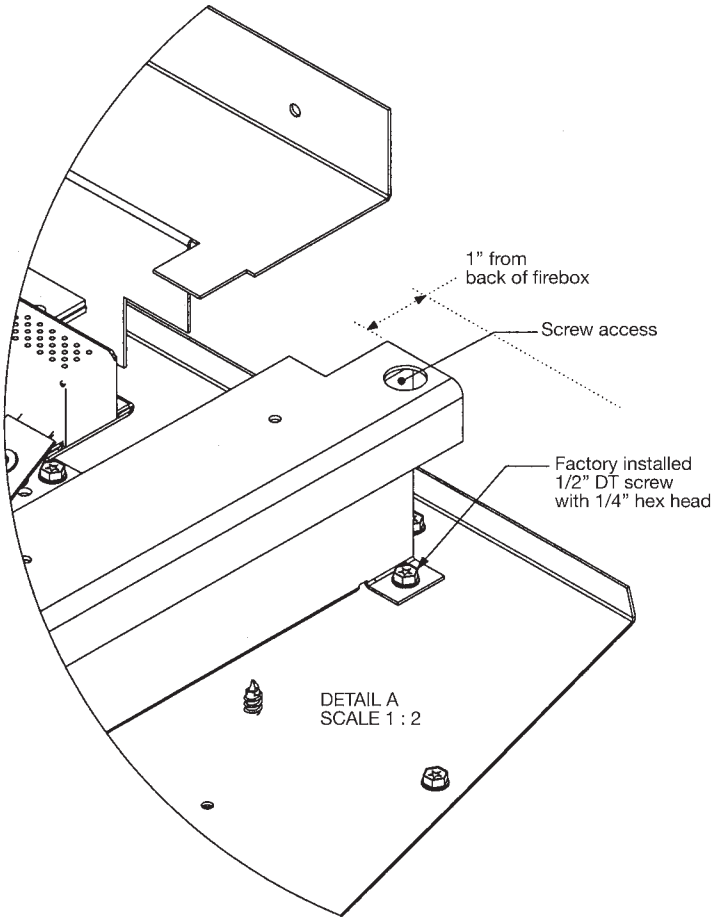
WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Installing rock platform to burner system with pre-punched holes:

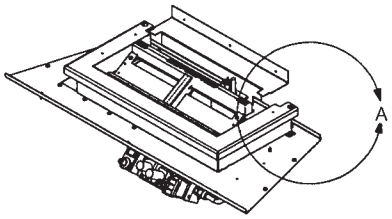
1. Remove the two factory installed screws located at the back of burner system.
2. Center platform on burner system.
3. Fasten rock platform with screws removed in step 1.

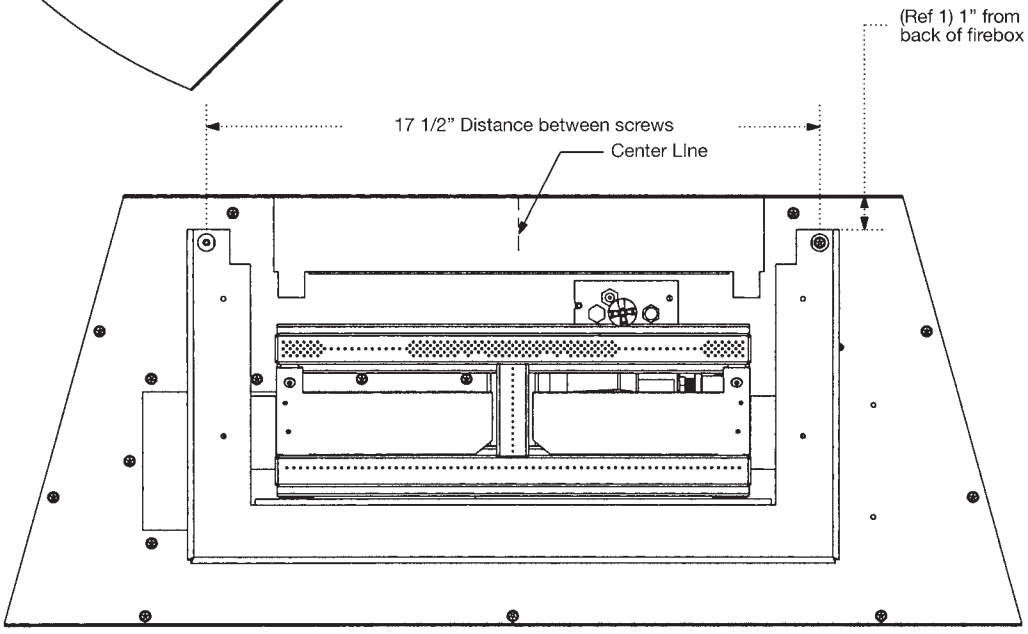
Installing rock platform to burner system without pre-punched holes:

1. Use the rock platform as a template for the holes to be drilled. Center platform on burner system 1" from the back of firebox (Ref 1) and mark the location of holes to be drilled.
2. Using a 1/8 drill bit, drill holes marked in step 1 and fasten rock platform with the two supplied screws.



Packaging MQRSP3
2 - 8-18 DT Screws
1 - Rock Platform
1 - Instructions

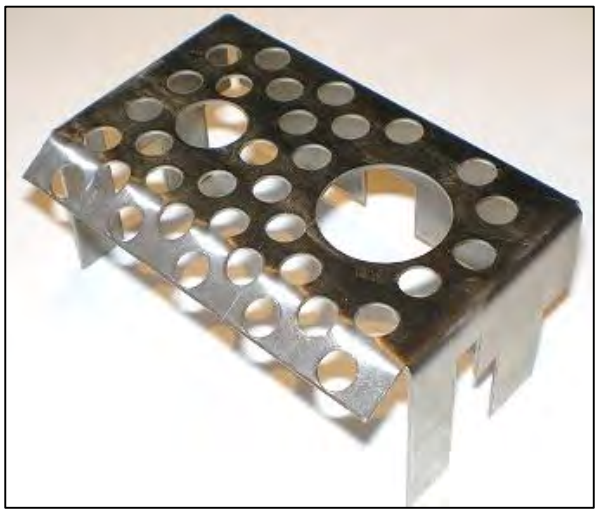




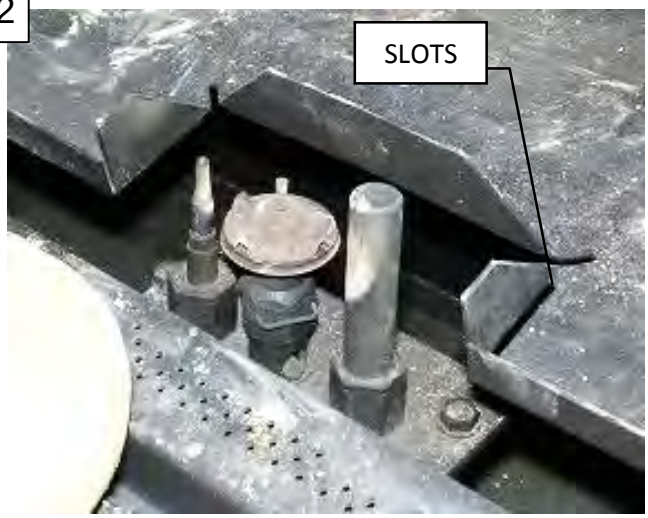
Pilot Shield RSP1 / RSP2

Qty: 1 Shield Per Kit

1

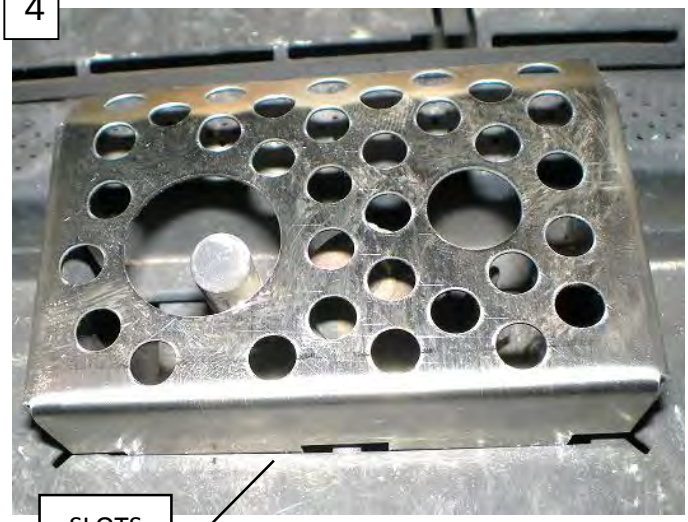


2



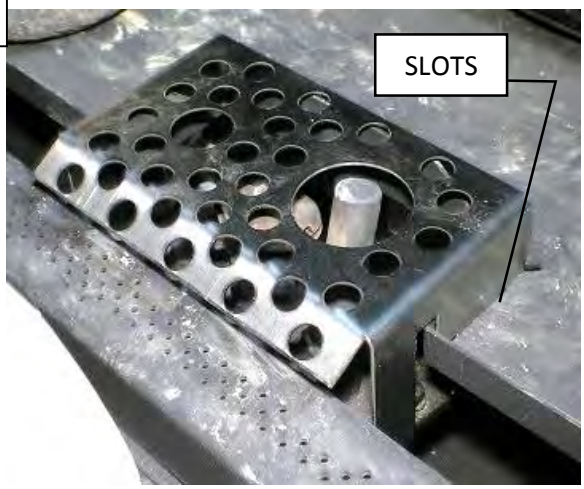
3

4



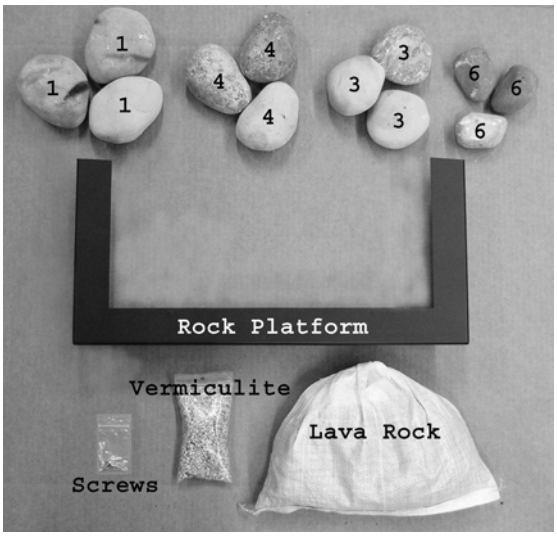
Back View

5

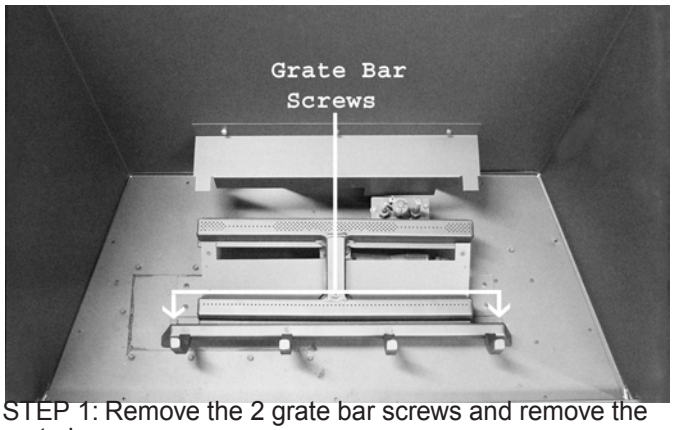


6

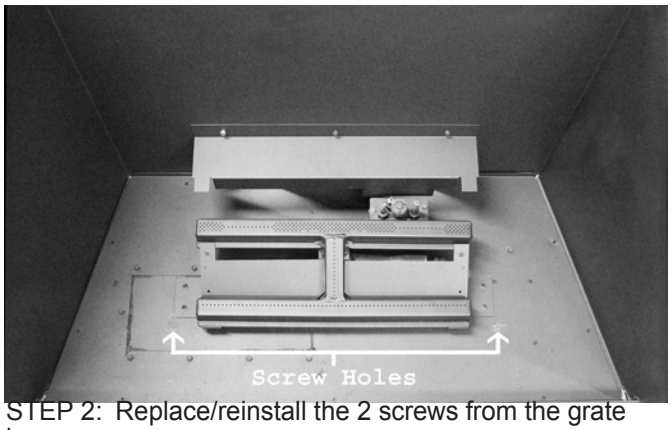
WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.



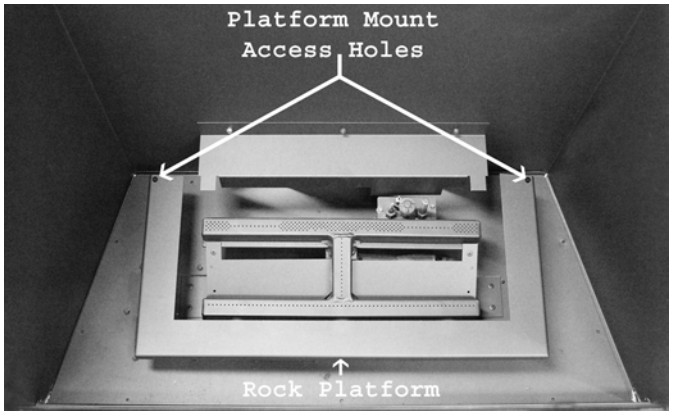
PARTS LIST
MQRSP3 (ROCK PLATFORM)
2 SCREWS



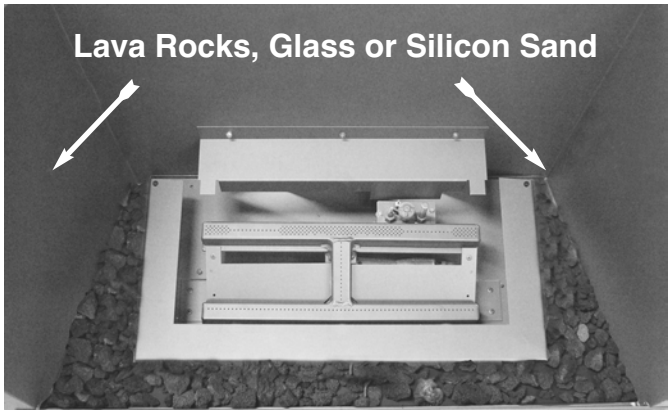
STEP 1: Remove the 2 grate bar screws and remove the grate bar.



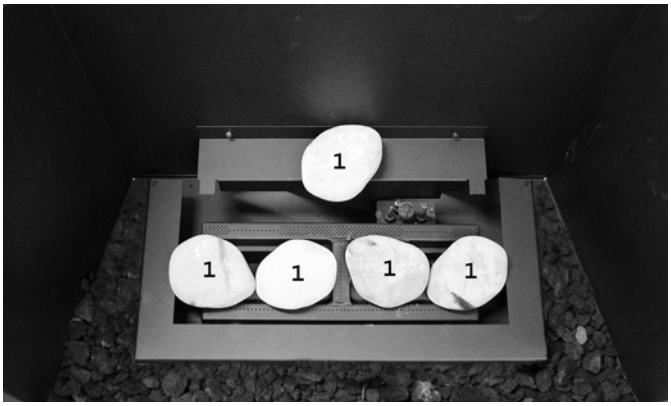
STEP 2: Replace/reinstall the 2 screws from the grate bar.



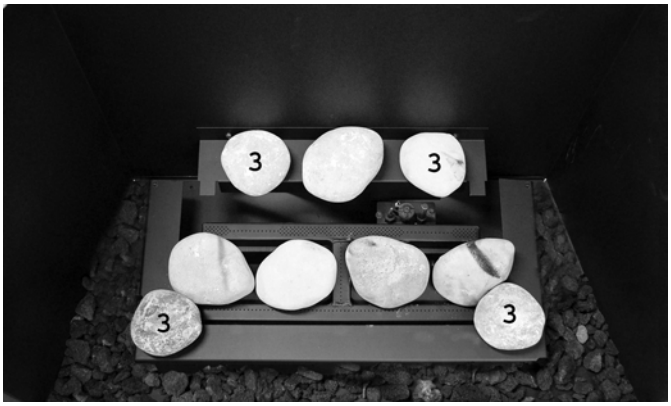
STEP 3: Using the rock platform mount holes, attach the rock platform to the burner pan as shown.



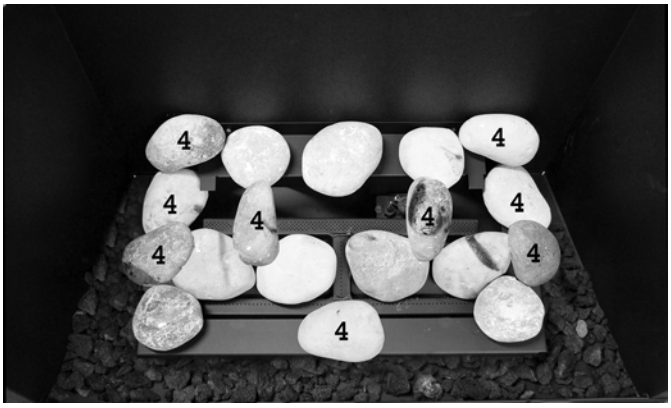
STEP 4: Fill around the rock platform with lava rock. Sprinkle vermiculite over top of the lava rock. **Do not place lava rock or vermiculite on the burner tube.**



STEP 5: Place rocks #1 onto the burner as shown. **Do not place rocks directly onto the burner tubes.**



STEP 6: Place rocks #3 into position as shown. **Do not place rocks directly onto the burner tubes.**



STEP 7: Place rocks #4 into position as shown.

STEP 8: Place rocks #6 into position as shown.

STEP 9: Place remaining rocks #3 and #4 into position as shown or at random.

Finished Rock F3 Setup

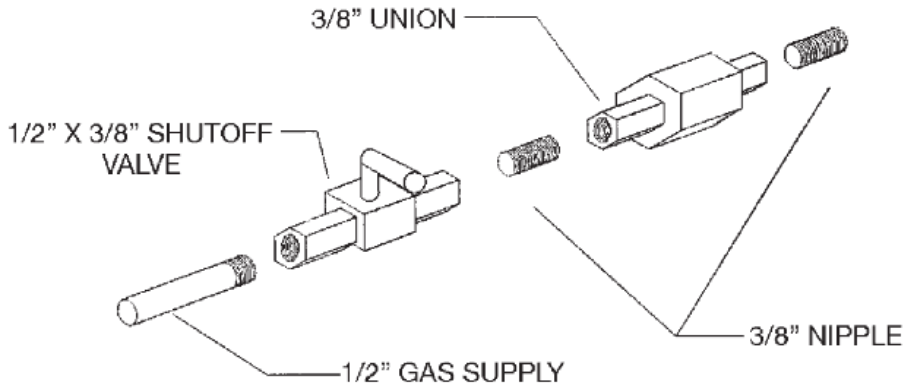
Never place any of the rocks directly onto the burner tubes.

Note: If flame impingement on the rocks causes sooting, you may have to move or remove one or more rocks. Do not place rocks directly over top of the burner tube.

Gasline 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).

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.

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.

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

Gasline Specifications

Gas Specifications

Models	HBZDV4224N NE / NE2	HBZDV4224LP LPE / LPE2	HBZDV4228N NE / NE2	HBZDV4228LP LPE / LPE2
Fuel	Natural	Propane	Natural	Propane
Maximum Input	24,000 BTU High 14,000 BTU Low	22,000 BTU High 15,000 BTU Low	28,000 BTU High 20,000 BTU Low	26,000 BTU High 19,000 BTU Low
Maximum Output	n/a	n/a	21,000 BTU	19,500 BTU
Orifice Size (0 - 4500 ft)	#42	#53	#37	#52
Air Shutter	1/8" – .125"	Fully Open	.218" – 7/32"	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, and 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 the 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 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, i.e. 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 igniter 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 igniter 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.
   - If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
   - If the pilot will not stay lit after several tries, turn the gas control to "OFF" and call your service technician.
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 electrical power back to the appliance.
12. The pilot must be turned off when the unit is not in use.

TO TURN OFF THE APPLIANCE

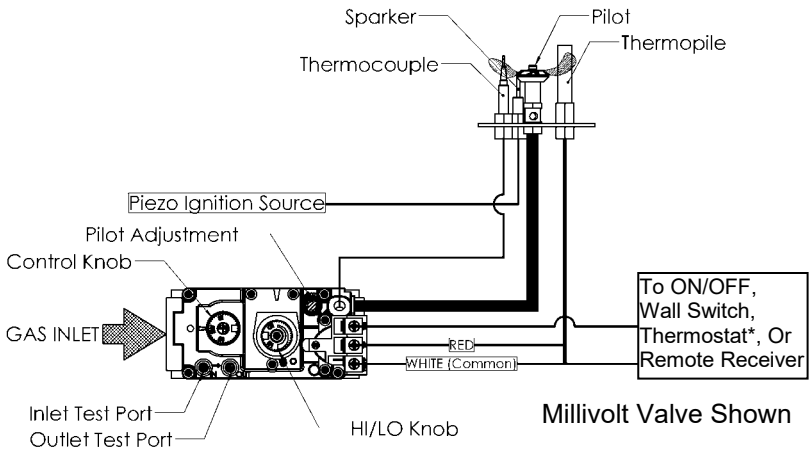
1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Open the control access door.
4. Push in the gas control knob slightly and turn ↻ clockwise to the "OFF" position. Do not force.
5. Replace control access panel.

NOTE: Only one on/off device (manual on/off, remote control, or hard wired thermostat) should be connected to the appliance at any one time, this is most important when installing an insert or stove as the on/off rocker switch is installed at the factory.

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

Wire Size	Max. Length
14ga	100ft [30.4m]
16ga	64ft [19.5m]
18ga	40ft [12.1m]
20ga	25ft [7.6m]
22ga	15ft [4.5m]

CAUTION: DO NOT WIRE 120V POWER TO MILLIVOLT SWITCHES OR THERMOSTAT.



Millivolt Valve Shown

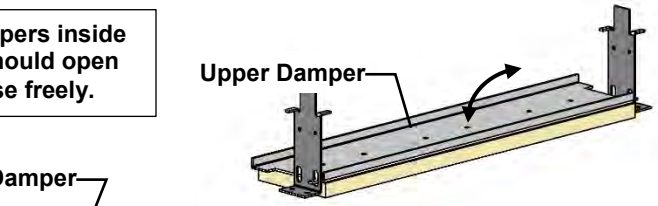
Annual Inspection List for Determining Safe Operation of a Direct Vent Gas Fireplace

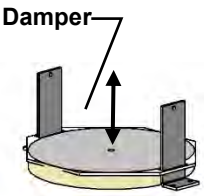
Refer to this checklist for proper maintenance, safe use, and operation.

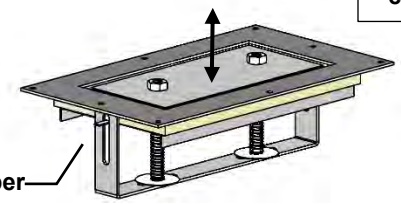
See each section for more specific information.

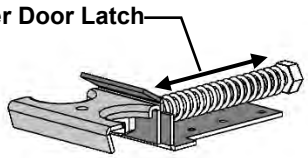
1. Inspect and operate all pressure relief mechanisms (i.e., relief dampers, spring loaded door latches) installed on your appliance to verify relief mechanisms are free from obstruction to operate.

Relief Dampers inside Firebox should open and close freely.

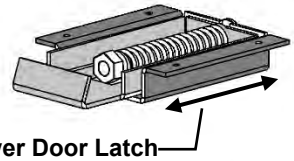






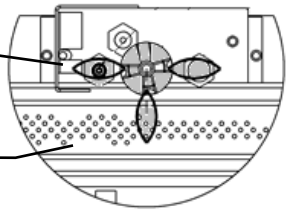


Spring loaded Door Latches should extend and return to the closed position.

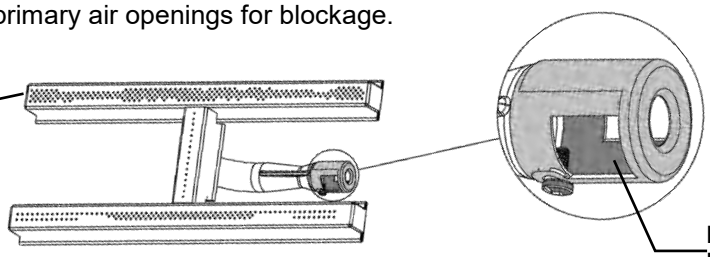


2. Clean glass window with a suitable fireplace glass cleaner. Abrasive cleaners must not be used. Be careful not to scratch the glass when cleaning.

3. Inspect the operation of the Pilot. Ensure that it is working properly.



4. Inspect and ensure the lighting of the main burner occurs within 4 seconds of the main gas valve opening. Visual inspection should match that outlined in the appliance instruction manual (refer to ***Monthly Flame Inspection***). Inspect primary air openings for blockage.



5. Inspect condition of vent and vent terminal for sooting or obstruction and correct if present.

6. Vacuum and clean any debris in the firebox that is not supposed to be there.

7. Test and measure the flame failure response time of the flame safety system. It must de-energize the safety shutoff in no more than 30 seconds.
Procedure for Millivolt Units: Turn on fireplace for 5 minutes. Shut off fireplace while listening to valve. A "click" should be heard within 30 seconds. This indicates the safety shutoff is working properly.
Procedure for IPI Units: Turn on fireplace and allow main burner to come on. Then disconnect Flame Sense wire from IPI Module (X3 Connection). The fireplace should shut down immediately.

8. Check all accessible gas-carrying tubes, connections, pipes and other components for leaks.

Removing Burner System / Access Cover

Warning: 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.

If Fireplace has been installed with optional CVCK (Clean View Circulating Kit) to service fan system or burner system controls, the access cover and burner system will have to be removed

Warning: Before starting removal of parts turn off gas supply, disconnect 110 volts to fan system and disconnect 110 volts to electronic ignition burner system if applicable.

Access cover removal

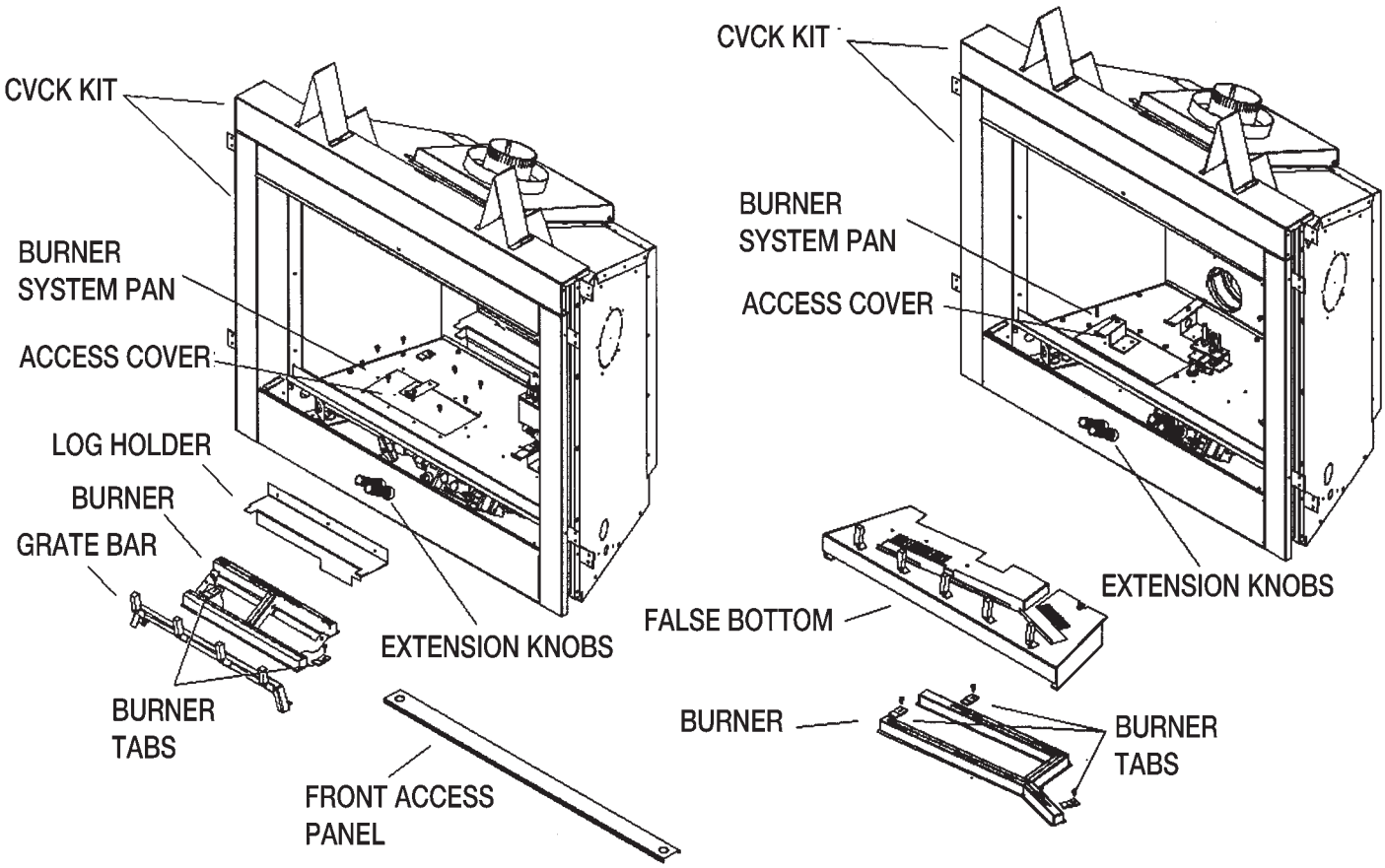
1. Remove door, logs, brick panels, false bottom, burner grate and burner from firebox.
2. Lift false bottom up (on applicable units only) from alignment pins and remove. Burner grate (on applicable units only) is fastened by 2 screws one right and left of grate, remove screws and take out grate. Remove burner by loosening burner retainer tab screws and slide burner left off orifice. Access cover is now exposed for removal.
3. Remove 10 screws holding access cover in place. Push down on one corner of access cover to break seal of cover, once loose cover can be slid under firebox bottom to expose gas connection.

Removing Burner System

1. Disconnect gas line connection at burner system through access cover opening.
2. Remove extension knobs and wiring from face of gas valve.
3. Undo screws holding back log holder (on applicable units only) and remove. Remove screws from perimeter of burner system pan, lift pan at one back corner and rotate pan up from back of firebox. Make sure when tilting up and removing burner system, that all fan and valve control wiring is disconnected. To re-install access cover / burner system remove old Mil Pac sealant and apply new sealant. After new sealant is applied reverse removal procedure to re-install parts.

* Caution high temperature sealant has been applied to access cover and burner system pan. New sealant will have to be applied when re-installing access cover and burner stem to maintain the integrity of sealed combustion chamber. Mil Pac part #840099 or Kingsman part # 1000-150MP sealant can be purchased from your Kingsman retailer or distributor.

Warning: All work should be performed by a qualified and certified technician.



Burner System Maintenance

It is recommended to annually inspect and clean the Burner System to prevent malfunction and / or sooting. This operation should be performed by your dealer or a qualified technician.

⚠ -CAUTION-

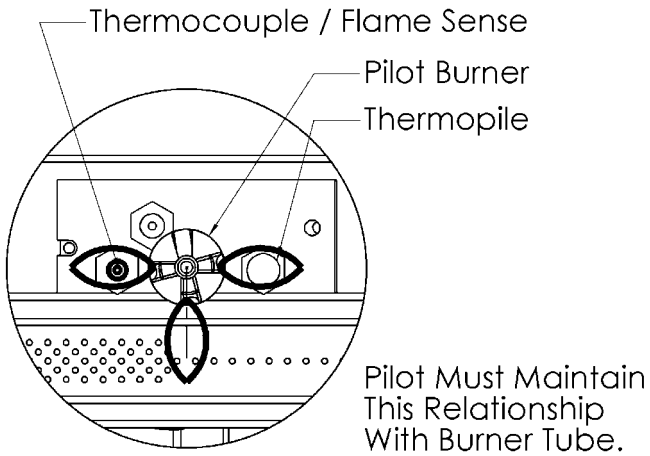
Before servicing the burner system ensure that the gas supply is turned OFF and disconnect all electrical connections to the appliance. Allow the appliance to cool to room temperature. Note that the pilot assembly may be hot in an intermittent or standing-pilot system—even if the main burner was never on. Exercise caution when working within the area.

-ALL WORK SHOULD BE PERFORMED BY A QUALIFIED AND CERTIFIED TECHNICIAN-

Monthly Flame Inspection

It is recommended to turn on the unit at least once a month and inspect the flame pattern to ensure there are no problems with the burner tube. The pilot flame should also be inspected monthly to ensure proper operation.

Flame should appear similar to the above picture.



Conversion Kit Instructions – PART A

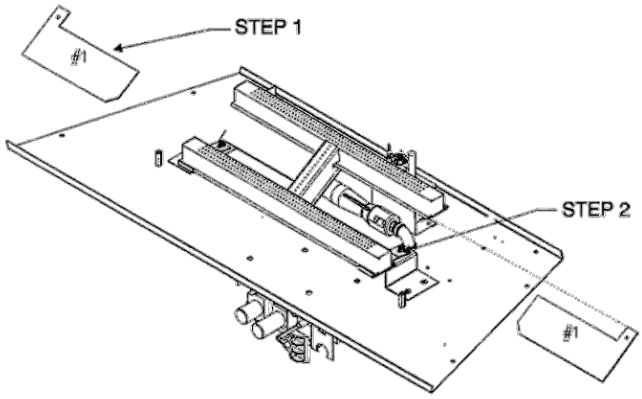
Kit Number	Description	Pilot Orifice	Burner Orifice Brass (1000-255)	Brass Nipple	Air Shutter	Hi/Lo Regulator
4224HB -CKLP 4228HB -CKLP	Propane Conversion -Millivolt-	1001-P167SI #30 (977.167)	#53 #52	1000-253closed 1000-253closed	Fully Open Fully Open	1001-P202SI (0.907.202)
4224HB -CKNG 4228HB -CKNG	NG Conversion -Millivolt-	1001-P165SI #51 (977.165)	#42 #37	1000-253closed 1000-253closed	1/8” 7/32”	1001-P201SI (0.907.201)
4224HB -CKLPI 4228HB -CKLPI	Propane Conversion -IPI -	1001-P168SI #35 (977.168)	#53 #52	1000-253closed 1000-253closed	Fully Open Fully Open	1002-P014SI (0.907.014)
4224HB –CKLP2 4228HB –CKLP2	Propane Conversion -IPI -	1001-P168SI #35 (977.168)	#53 #52	1000-253closed 1000-253closed	Fully Open Fully Open	1002-P012SI (907.012)
4224HB -CKNGI 4228HB -CKNGI	NG Conversion - IPI -	1001-P166SI #62 (977.166)	#42 #37	1000-253closed 1000-253closed	1/8” 7/32”	1002-P016SI (0.907.016)
4224HB –CKNG2 4228HB –CKNG2	NG Conversion - IPI -	1001-P166SI #62 (977.166)	#42 #37	1000-253closed 1000-253closed	1/8” 7/32”	1002-P013SI (907.013)

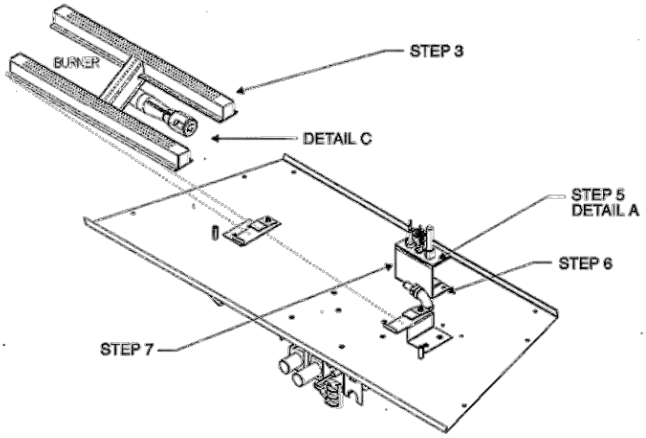
Refer to “**Gas Specifications Chart**” for inlet pressures and input ratings. Clock meter to verify input rate. Place conversion label as close to converted gas control as possible. Refer to lighting instructions to verify the normal operating sequence of the ignition system. IMPORTANT: Always check for gas leaks with a soap and water solution. DO NOT USE OPEN FLAME FOR LEAK TESTING.

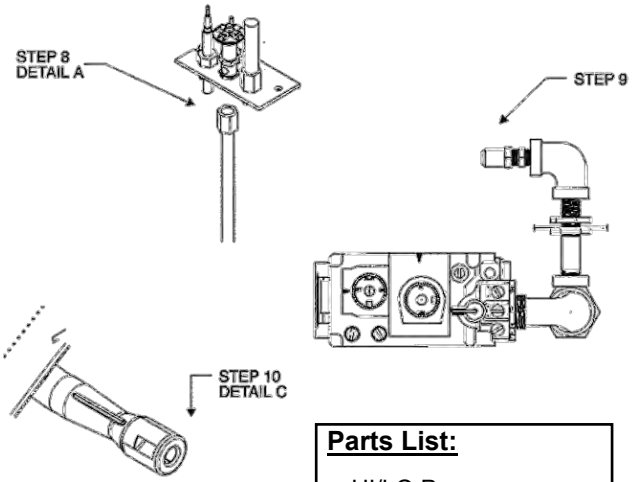
Conversion Kit Instructions – PART A

⚠Caution:

The gas supply shall be shut off prior to disconnecting the electrical power, before proceeding with the conversion.







Parts List:

- HI/LO Pressure Regulator Assembly
- Pilot Orifice
- Burner Orifice
- Brass Nipple
- Instructions
- Conversion Kit Label

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.

1. Remove the 2 ember plates from the burner. This step may not be required, depending on the type of burner assembly.
2. Loosen the 2 screws holding the burner in place.
3. Slide the burner to the left to expose the orifice.
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 then proceed to STEP 5 in PART B.**
5. Remove the 2 screws that hold the pilot to the bracket.
6. Remove the 2 screws that attach the pilot bracket to the firebox bottom.
7. Remove the pilot bracket to expose the pilot assembly.
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.
9. Remove main orifice using a 1/2" wrench and replace with new conversion orifice.
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.
11. Follow instructions supplied with the conversion HI/LO to convert the valve from one type of fuel to the other.
12. Check for gas leaks around the pilot burner tube and face of valve.
13. Attach conversion label to label plate on bottom of unit, writing information as needed.

Gas Conversion for Top Convertible Pilot – Part B (series 0190XYZ)

Instructions for converting SIT 190 series pilot burner injector from NG to PROPANE and from PROPANE to NG 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. First remove the spring, then remove the hood by pulling it up from the pilot bracket (fig. 1).
4. Insert a 5/32" or 4 mm Allen wrench into the hexagonal key-way of the injector (fig. 2), and rotate it counter-clockwise until it is free of the injector journal.
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. Propane injectors have a groove machined around their circumference near the top, while NG injectors do not have a groove (fig. 4). Refer to the Appliance Manufacturer's instruction sheet for the proper injector size.
6. Insert the Allen wrench into the end of the injector. Then, insert the injector into injector journal, and rotate the injector clockwise until a torque of 9 lbf in (1.0 Nm) is achieved.
7. First 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, onto the pilot bracket (fig. 3). The hood must sit squarely on the bracket for proper operation. Then replace the spring by pushing it on his seat (fig.3). Check to insure that the hood is properly seated onto the pilot bracket and that the spring is properly inserted onto his seat.
8. Restore the gas supply to the appliance, and ignite the pilot burner. Verify proper ignition and operation.

fig. 1

fig. 2

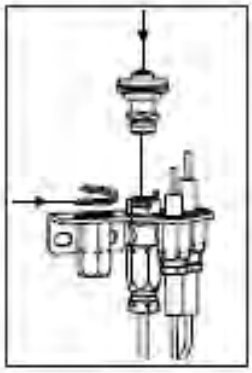


fig. 3

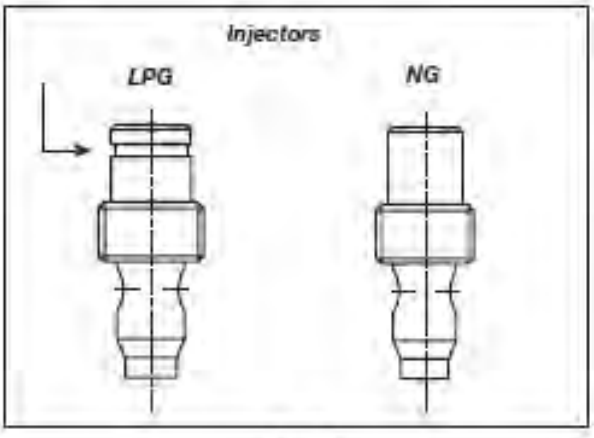


fig. 4

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.

installationinstructions

7 252 136

820 NOVA mV

Modulating Conversion Kit

⚠ -WARNING!-
The installation of this conversion kit must only be undertaken by a qualified and certified gas appliance installer.

MODULATING PRESSURE REGULATOR CONVERSION KIT INSTALLATION OR REPLACEMENT INSTRUCTIONS.

1 *Turn control knob to the OFF position, and shut off the gas supply to the valve.*

2 *Using a Torx T20, or slotted screwdriver, remove and discard the three pressure regulator mounting screws (A), pressure regulator tower (B), and the spring and diaphragm assembly (C) (If applicable)*

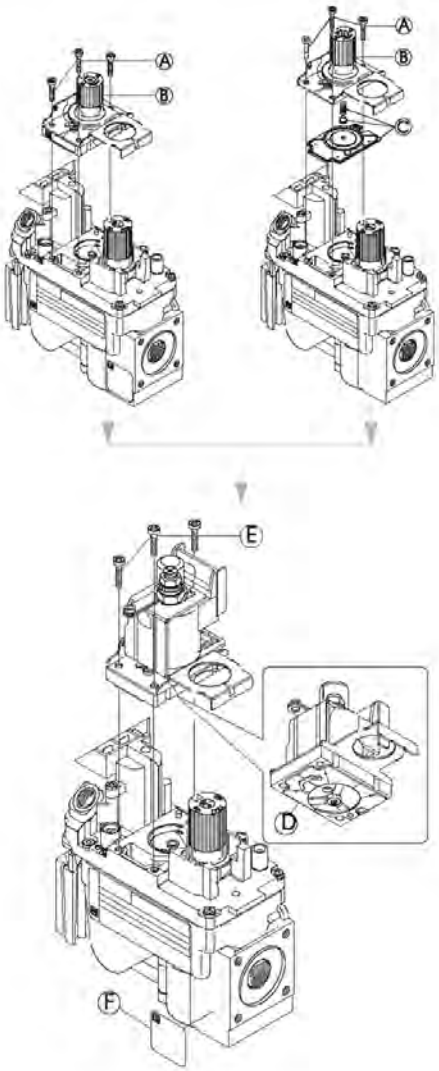
3 *Insure that the rubber gasket (D) is properly positioned and install the new modulating pressure regulator assembly to the valve using the new screws (E) supplied with the kit. Tighten screws securely. (Reference torque = 25 In.Lb.)*

4 *Install the enclosed identification label (F) to the valve body where it can be easily seen.*

5 *Apply gas to system and re-light appliance according to manufacturers instructions.*

6 *With the main burner "ON", test the new pressure regulator assembly for leaks using a soap solution.*

7 *Relight the main burner in both the HI and LO positions, and verify proper burner ignition and operation.*



⚠ -WARNING!-
This modulating 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.

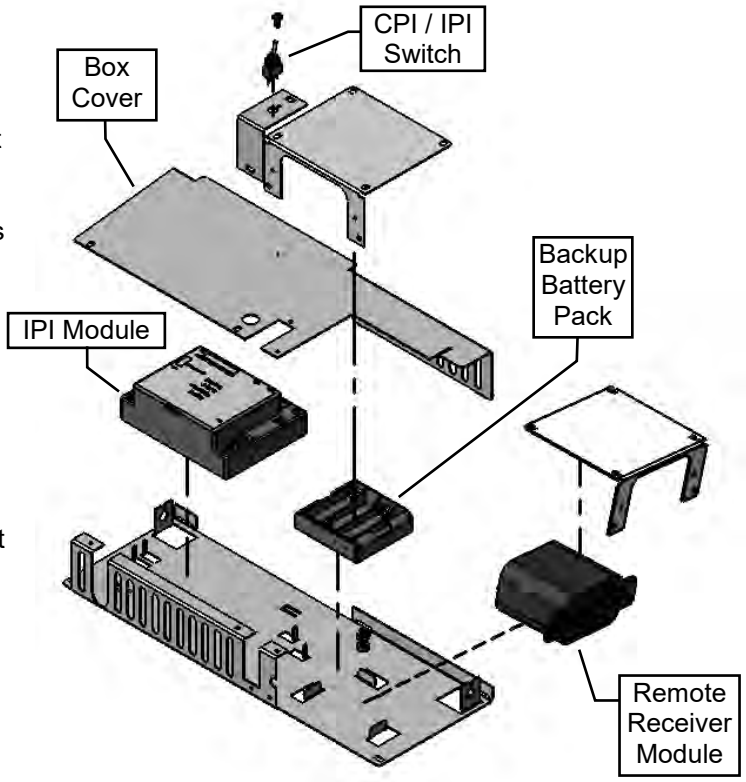
INSTALLER NOTICE. These instructions must be left with appliance.

SIT Group

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 jurisdictions 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 operable.

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.

Remote Receiver: This component provides the capability of controlling the appliance with a wireless remote transmitter.

Standing Pilot Mode for Colder Climates (Below Freezing)

For IPI models it may be necessary to set the appliance to Standing Pilot mode to maintain heat in the cavity. The purpose of this procedure is to prevent cold air from penetrating the chimney and then onto the living space. Therefore, when the internal temperature is slightly elevated the fireplace is able to freely exhaust its combustion and hence making it easier to startup.

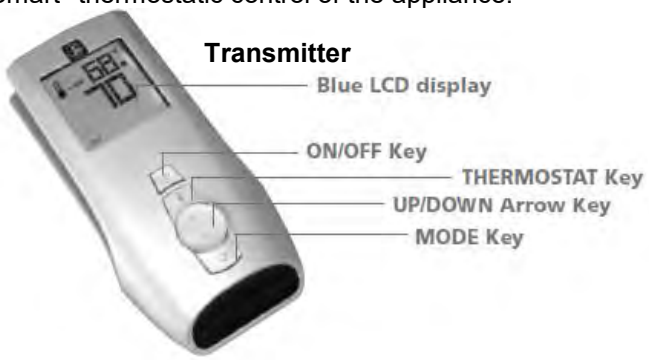
Standing Pilot Mode for Colder Climates (Below Freezing)
For IPI models it may be necessary to set the appliance to Standing Pilot mode to maintain heat in the cavity. The purpose of this procedure is to prevent cold air from penetrating the chimney and then onto the living space. Therefore, when the internal temperature is slightly elevated the fireplace is able to freely exhaust its combustion and hence making it easier to startup.

NOTE: The pilot system for this appliance may be equipped with a Seven Day Timer, in which case the pilot flame will be extinguished if the main burner has not been turned ON for seven days. This Seven Day Cycle is reset every time the main burner is cycled ON / OFF and the pilot remains lit. If more than seven days has passed since the main burner has been cycled ON / OFF and the pilot is also out, follow the procedures described in this manual to light the pilot.

Proflame 1 -Remote Control Operation-

The Proflame GTM is configured to control the on/off main burner operation, its flame levels, and provides on/off and Smart *thermostatic control of the appliance.

Transmitter



Remote Receiver

Transmitter
The Transmitter is powered by 3 AAA type batteries. A Mode Key is provided to Index between the features and a *thermostat Key is used to turn on/off or index through *thermostat functions

Remote Receiver
The Receiver connects directly to the gas valve and stepper motor with a wiring harness. The Receiver is powered by 4 AA type batteries. The Receiver three position slider switch can be set to one of three positions: ON (Manual Override), Remote (Remote control) or Off.

Initializing the System for the first time
Install 4 AA batteries into the receiver battery bay. Install 3 AAA type batteries in the Transmitter battery bay.
Place the 3 position slider switch in the “Remote” position. Insert the end of a paper clip into the hole marked “PRG” on the Receiver front cover. The Receiver will “beep” three (3) times to indicate that it is ready to synchronize with a Transmitter. Push the On button. The Receiver will “beep” four times to indicate the Transmitter’s command is accepted. The system is now initialized.

Temperature indication Display
With the system in the “OFF” position, press the *thermostat Key and the Mode Key at the same time. Look at the LCD screen on the Transmitter to verify that a C or F is visible to the right of the Room Temperature display.

Turn the Appliance On or Off
Press the ON/OFF Key on the Transmitter

Remote Flame Control
The Proflame GTM has six (6) flame levels. Pressing the Down Arrow Key once will reduce the flame height by one step until the flame is turned off. The Up Arrow Key will increase the flame height each time it is pressed. If the Up Arrow Key is pressed while the system is on but the flame is off, the flame will come on in the high position.

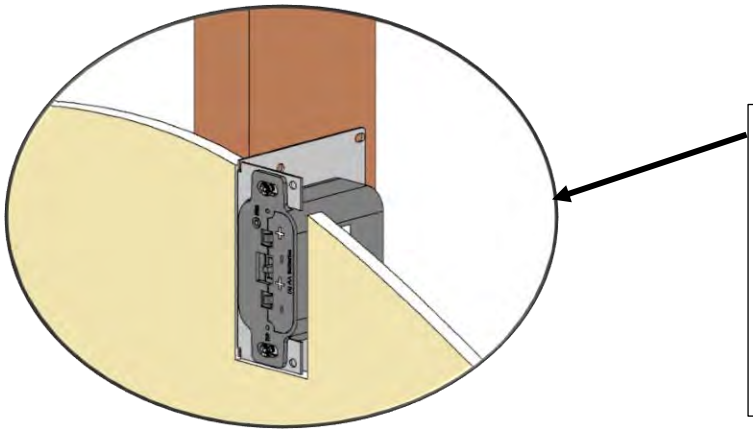
Room *thermostat (Transmitter Operation)
The Remote Control can operate as a room *thermostat. To activate this function, press the *thermostat Key. The LCD display on the Transmitter will change to show that the room *thermostat is “ON” and the set temperature is now displayed. To adjust the set temperature, press the Up or Down Arrow Keys until the desired set temperature is displayed on the LCD screen of the Transmitter.

Smart *thermostat (Transmitter Operation)
The Smart *thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperatures. As the room temperature gets closer to the set point the Smart Function will modulate the flame down. To activate this function, press the *thermostat Key until the word "SMART" appears to the right of the temperature bulb graphic. To adjust the set temperature, press the Up or Down arrow Keys until the desired set point temperature is displayed.

Key Lock Function
This function will lock the keys to avoid unsupervised operation. To activate this function, press the MODE and the UP Arrow Key at the same time. To de-activate this function, press the MODE and the UP Arrow Key at the same time.

Low Battery Detection
Transmitter - When the Transmitter batteries are low, a Battery Icon will appear on the LCD display of the Transmitter.
Receiver - When the Receiver batteries are low, No “beep” will be emitted from the Receiver when it receives an On/Off command from the Transmitter. When the batteries are replaced the “beep” will be emitted from the Receiver when the ON/OFF Key is pressed (See Initializing the System for the first time).

Manual Bypass Of The Remote System
If the batteries of the Receiver or Transmitter are low or depleted, the appliance can be turned on manually by sliding the three position slider switch on the Receiver to the ON position. This will bypass the remote control feature and the appliance main burner will come on if the gas valve is in the “On” position.



<u>Wall Mount Option</u>

10ft. Extension Harness (Part No. 1001-P904SI) required.

- The Remote Receiver can be mounted on a vertical wall stud using the DCHS as a mounting bracket.
- Ensure that the face is protruding 1/2” so that the face plate will be flush on the face of the wall.
- Drywall cutout size is 2” wide by 4-1/8” tall.
- Must be installed within 10ft of valve assembly (6ft recommended).

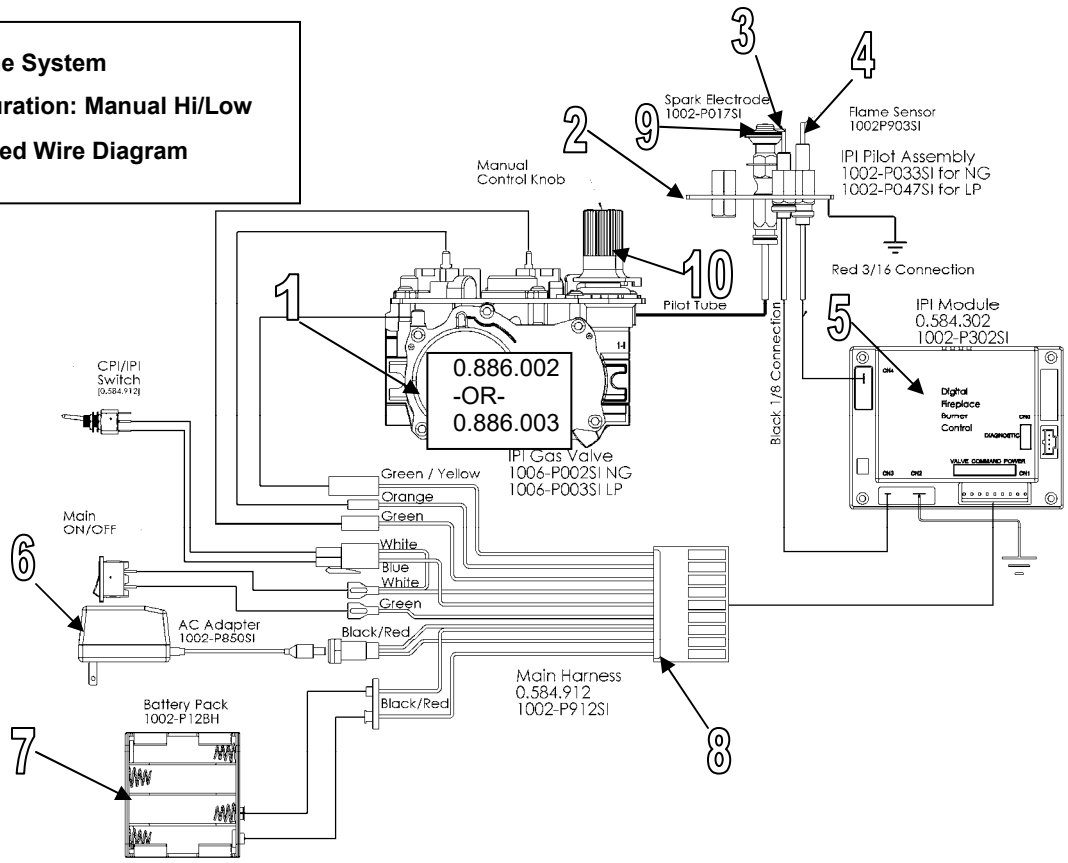
IPI Electronic Ignition Parts List – Standard System

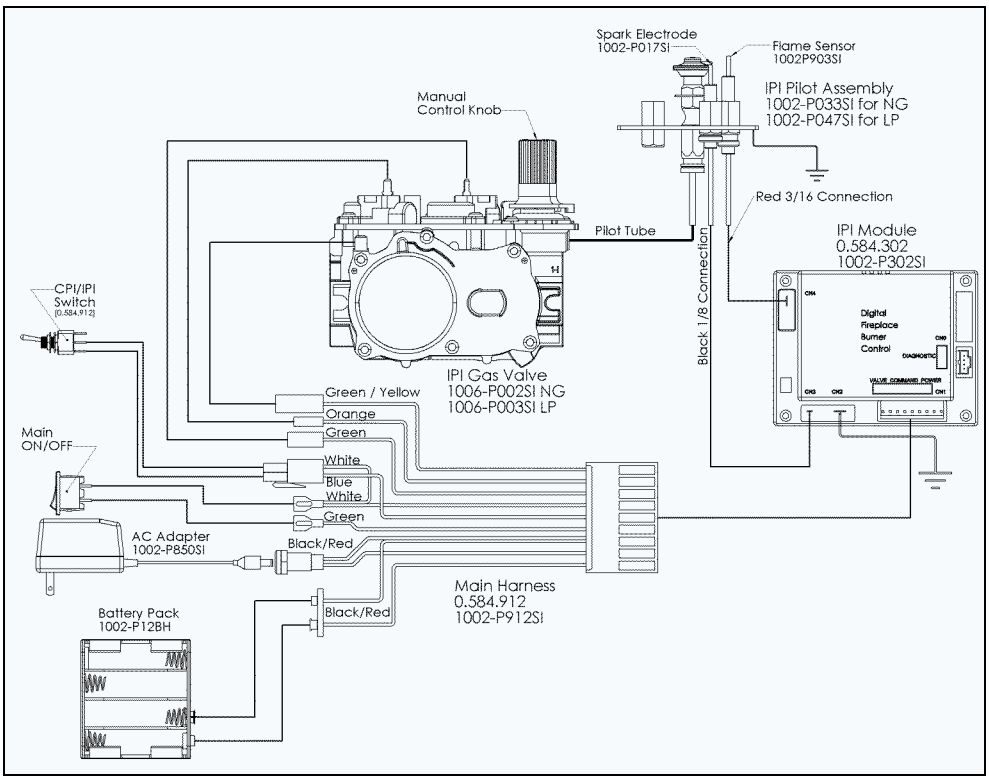
ITEM NO.	PART NO.	DESCRIPTION
1	1006-P002si	Valve IPI Hi/Lo NG
	1006-P003si	Valve IPI Hi/Lo LP
2	*1002-P047si	Pilot Assembly-LP -24” Wire
	*1002-P033si	Pilot Assembly-NG -24” Wire
3	1002-P017si	Spark Electrode (with wire)
	*1002-P119si	Spark Electrode (with wire- 35” Length)
4	1002-P903si	Electrode Flame Sensor
	*1002-P910si	Electrode Flame Sensor (35” Length)
5	1002-P302si	IPI Ignition Board
6	1002-P850si	AC Wall Adapter
7	1002-P12BH	Battery Pack
8	1002-P912si	Wiring Harness
9	1001-P166si	Orifice Pilot -NG#62
	1001-P168si	Orifice Pilot -LP#35
10	1002-P013si	Stepper Motor -NG
	1002-P012si	Stepper Motor -LP
	1002-P016si	Hi/Lo Regulator -NG
	1002-P014si	Hi/Lo Regulator -LP
*Models ZRB46E / MQRB4436E / MQRB5143E / MQRB6961E Longer (35”) Wire length is required for these units.		

Proflame System

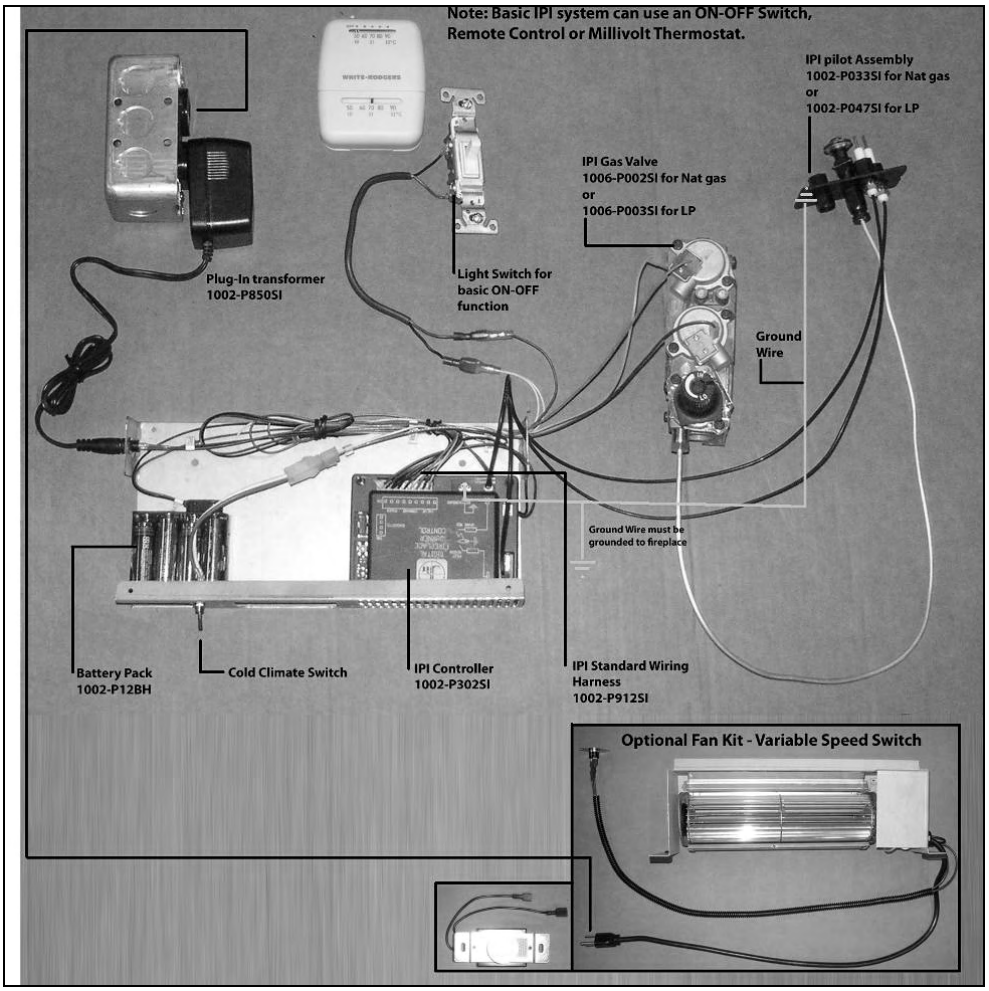
Configuration: Manual Hi/Low

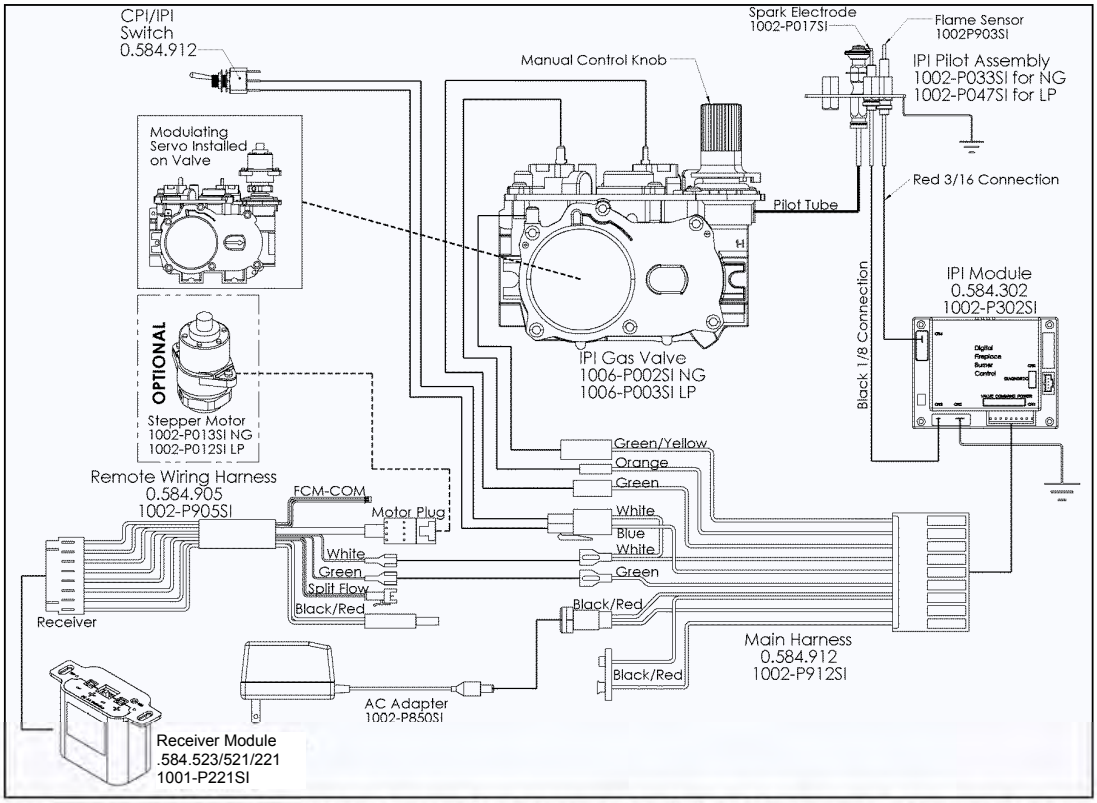
Simplified Wire Diagram



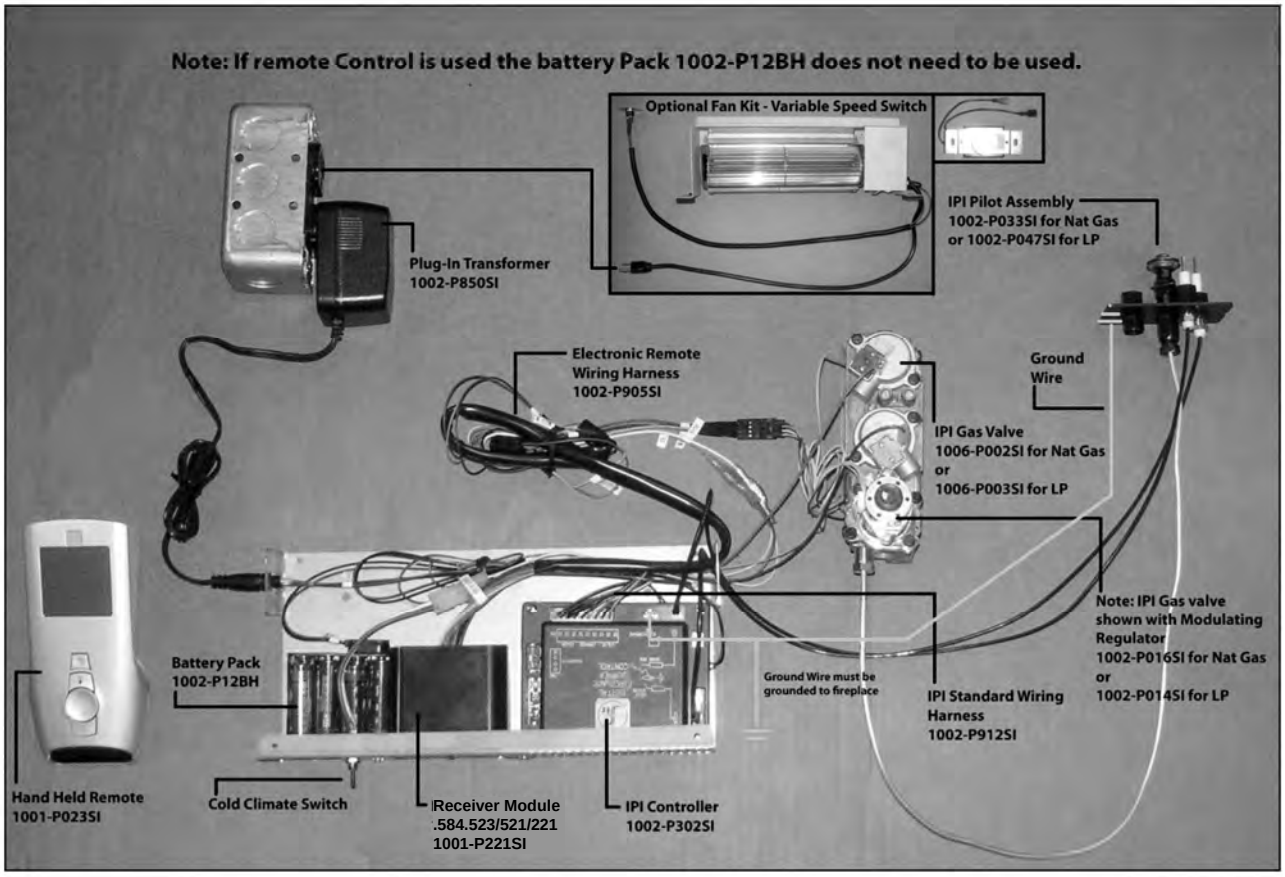


Configuration #1: Basic manual HI/LO and manual ON/OFF capabilities.





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.

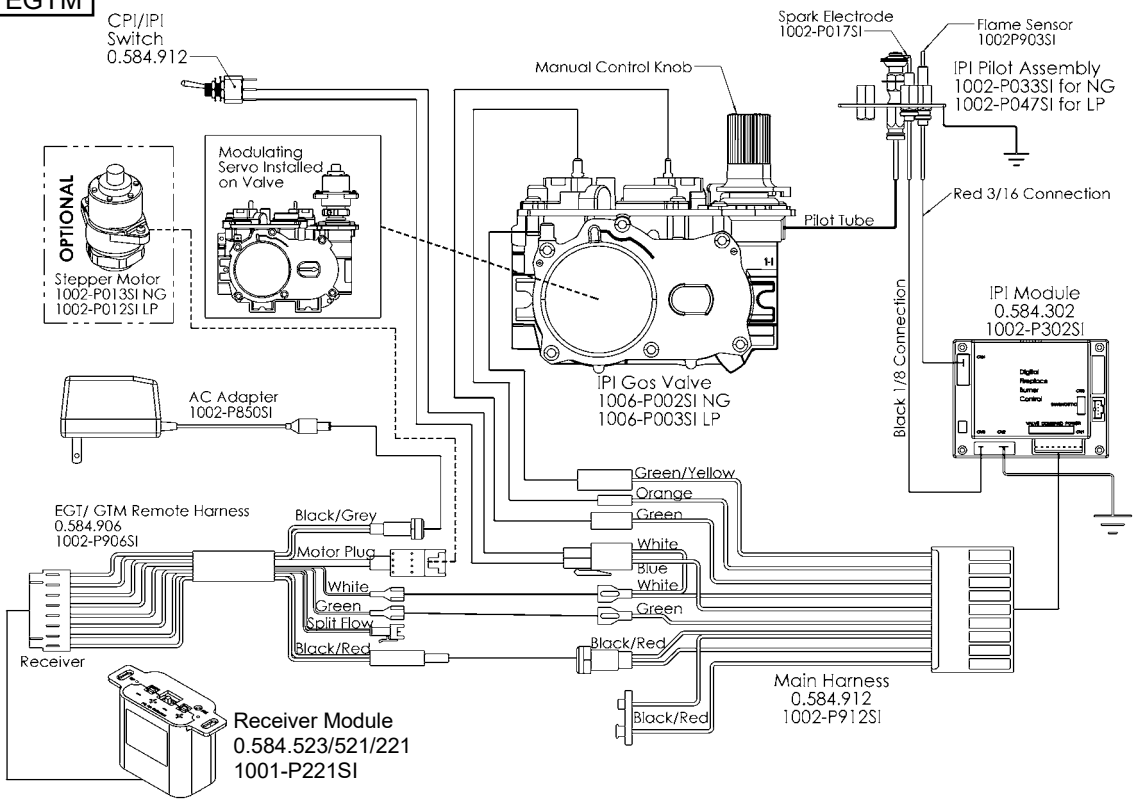


Operating the Receiver Without Batteries For GT / EGT / GTM / EGTM Remote Controls

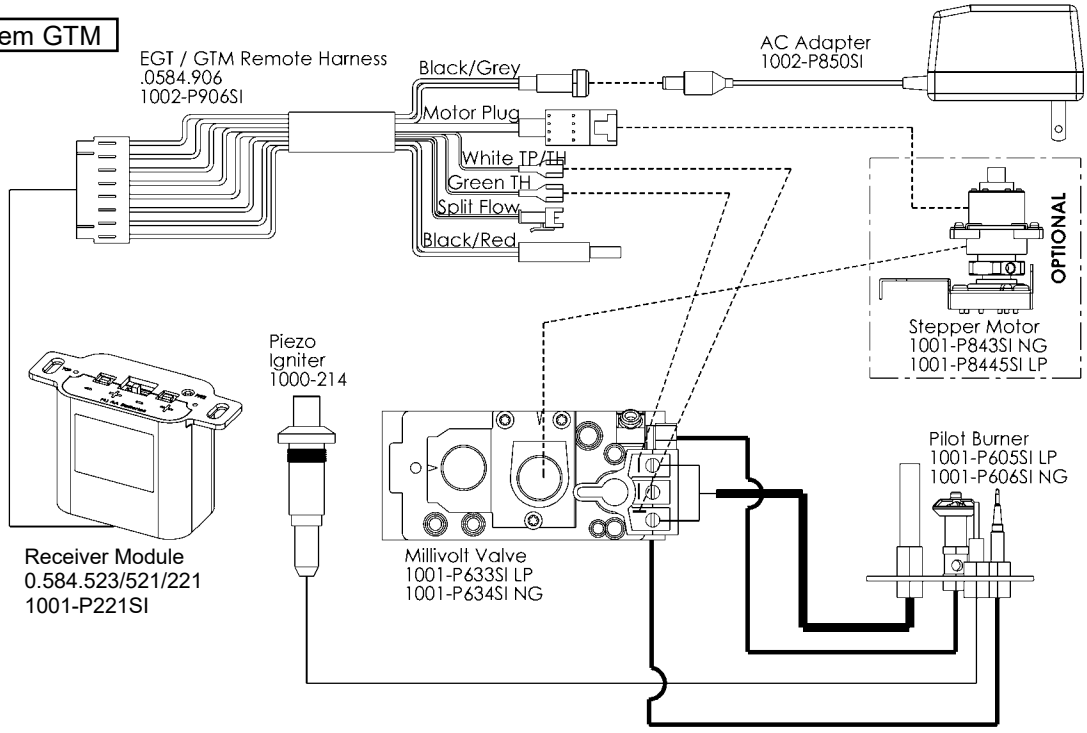
-Wiring Harness P/N 1002-P906si required for both IPI & Millivolt systems.
-Millivolt Systems will also require Power Adapter P/N 1002-P850si.

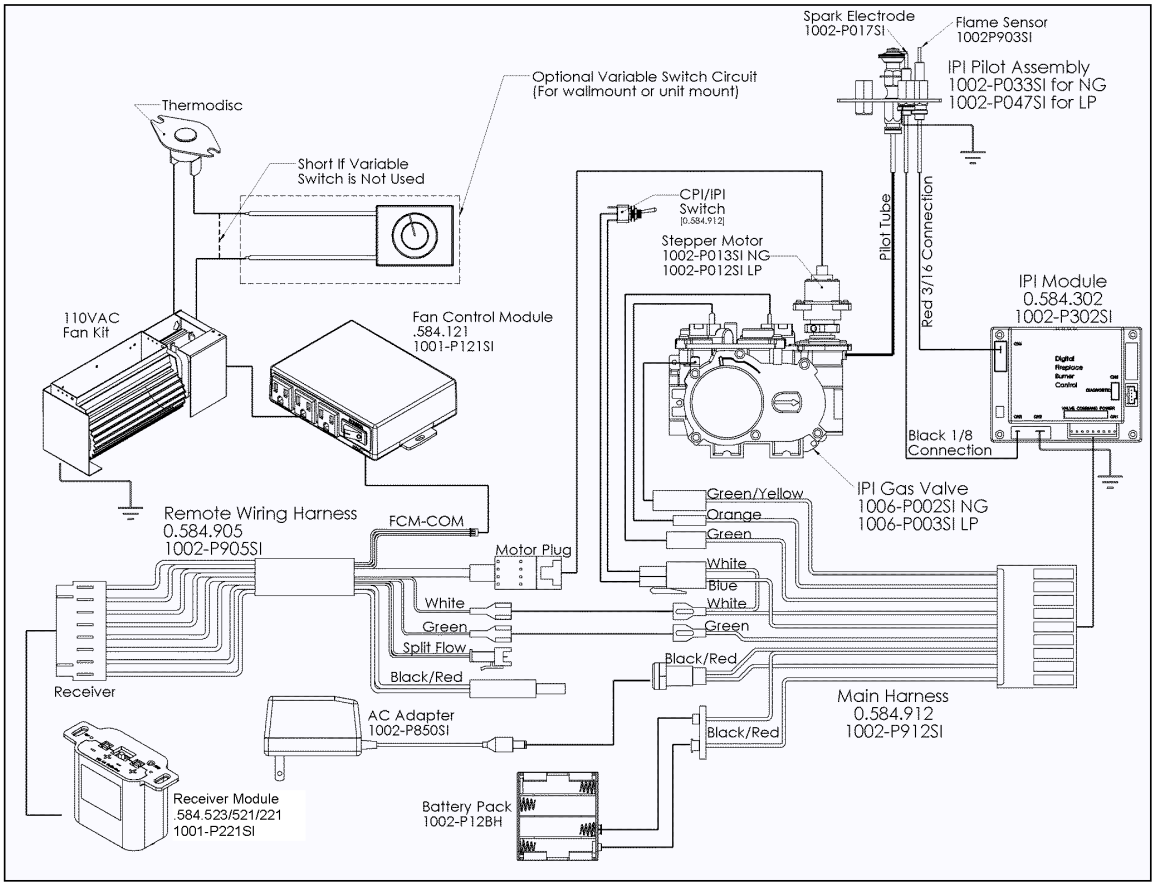
The Remote Receiver & IPI or Millivolt system can be powered by the AC Adapter. This is advantageous if you do not want to use batteries. Simply connect the AC Adapter into the Remote Control Wiring Harness as per the diagrams below.

IPI System EGTM

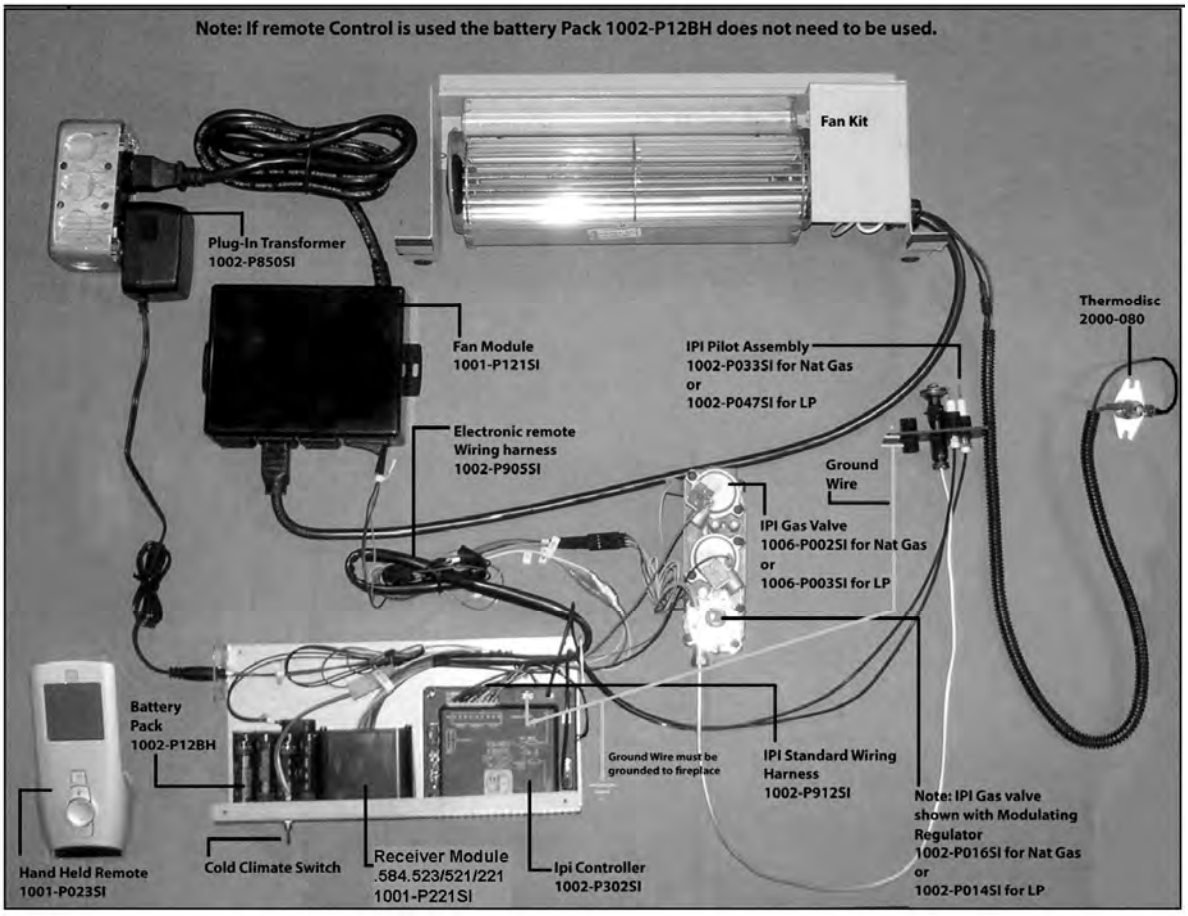


Millivolt System GTM





Configuration #3: Remote ON/OFF, variable HI/LO, and fan capabilities. Refer to the fan installation/removal section for fan installation.



- Lighting Instructions - Intermittent Pilot Ignition System (IPI)

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.

Always light the pilot whether for the first time or if the gas supply has run out with the glass door opened or removed.

BEFORE LIGHTING:

A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

B. **BEFORE OPERATING** smell 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

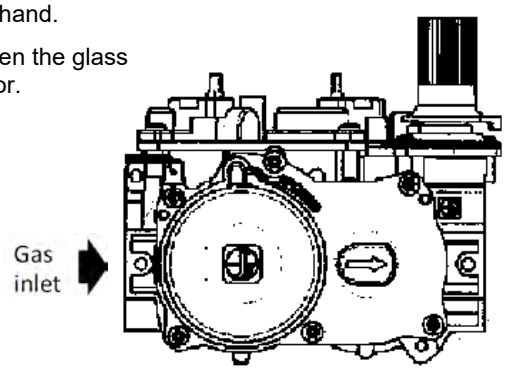
- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and any gas control which has been under water.

D. If the gas valve requires repair, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

OPERATING INSTRUCTIONS

1. Stop! Read the safety information above on this label.
2. Remove batteries from receiver, and/or Battery Backup Pack.
3. Turn off all electric power to the appliance.
4. This appliance 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 (Located behind the access panel).
7. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above this label. If you do not smell gas, go to next step.
8. Turn manual shutoff valve counter-clockwise ↶ to on.
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" Switch that operates the Main Burner. If using a Remote Control refer to Remote Control Operation Manual for activation.
12. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Turn off all electric power to the fireplace if service is to be performed, including removing batteries from Remote Transmitter/Receiver and/or Battery Backup Pack.
2. Remove control access panel.
3. Turn manual shutoff valve clockwise ↷ to off (Located behind the access panel).

   If alternate shut-off valve was installed it can be shut off instead of going through the fireplace to access the fireplace shutoff valve.
4. Replace control access panel.

Proflame 2 –NE2 / LPE2 -IPI System Parts List-

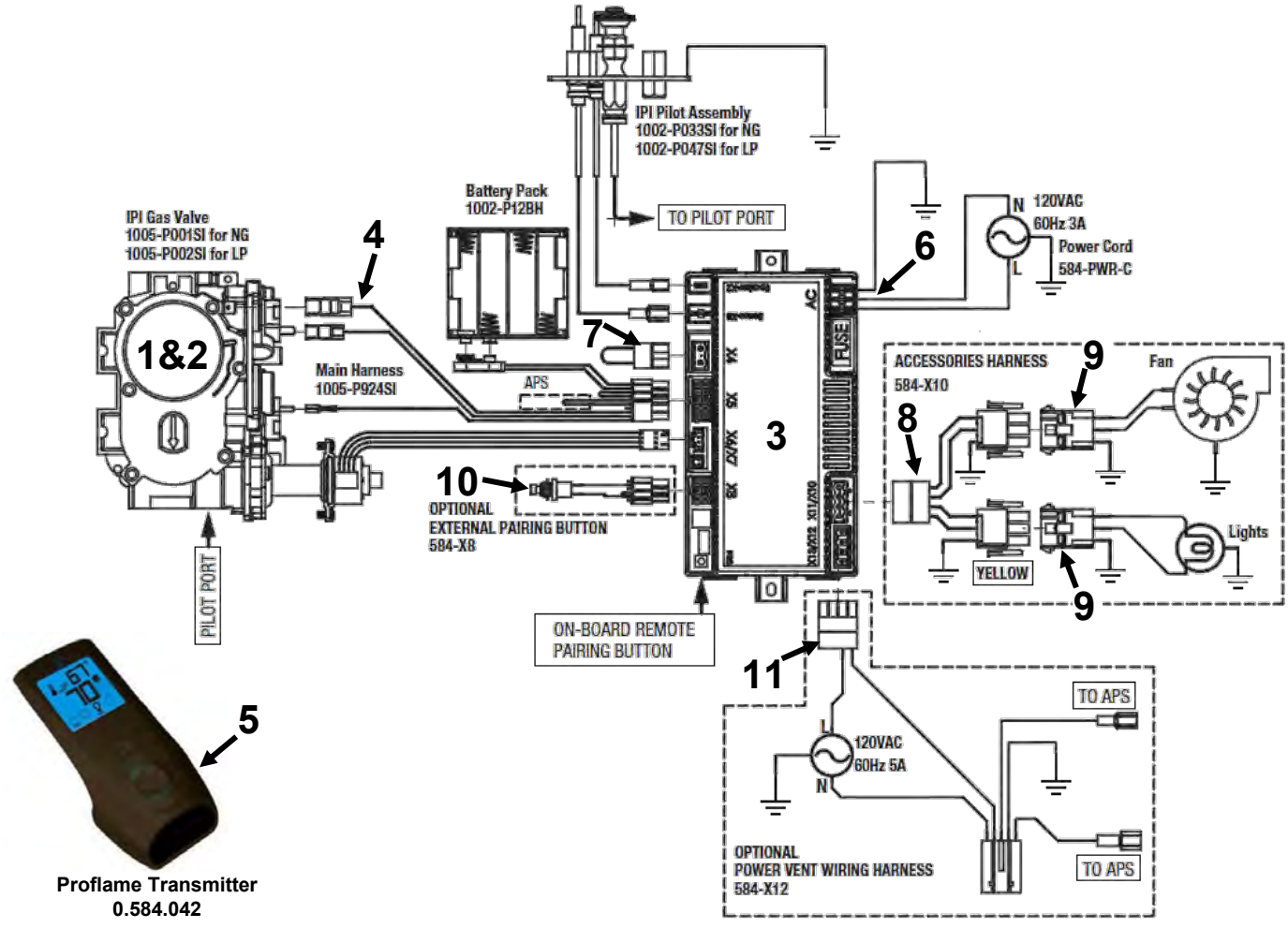
IPI PROFLAME 2 - COMPONENT PARTS

	PART NO.	DESCRIPTION
1.	1005-P001SI	Valve IPI Proflame PF2 885.001 NG - Stepper
2.	1005-P002SI	Valve IPI Proflame PF2 885.002 LP - Stepper
3.	1005-P325SI	Module IPI - Proflame 2 - 584.325
4.	1005-P924SI	Harness PF2 - 584.924
5.	1005-P042SI	Transmitter - PF2 - Black 584.042
6.	584-PWR-C	Wire Harness PF2 – Power Cord
7.	584-X4P	Terminal Block
8.	584-X10	Wire Harness PF2
9.	584-ACC01-C	Wire Harness PF2 - Fan/Light
10.	584-X8-B	Wire Harness PF2 - Optional Reset Harness
11.	584-X12	Optional Power Vent Harness

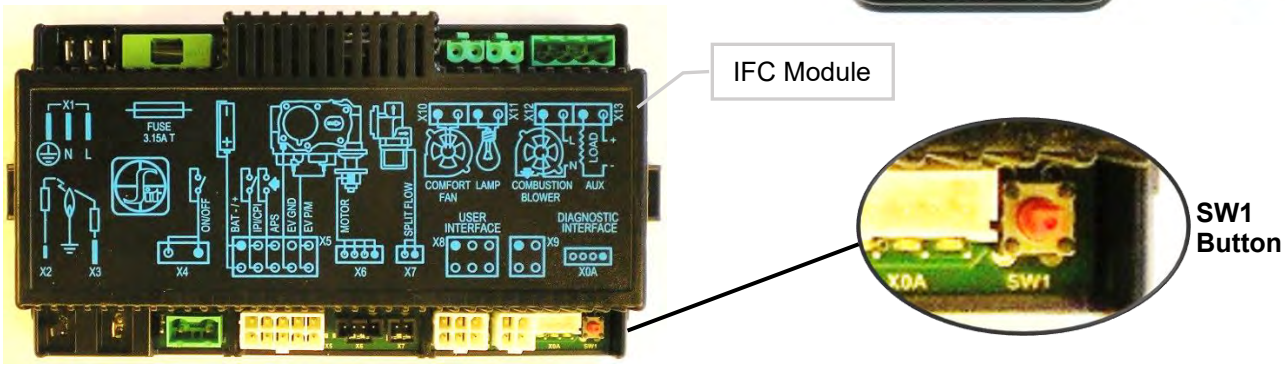
NOTE: Fan and / or Light Options are not available on some fireplaces. **Check with your dealer.**

IPI - PF1 and PF2 Common Components

	PART NO.	DESCRIPTION	
12.	1002-P033SI	TC - Pilot Burner IPI (Assembled) NG 199.033	
13.	1002-P047SI	TC - Pilot Burner IPI (Assembled) LP 199.047	
14.	1001-P166SI	TC - Orifice Pilot NG 977.166 #62 (IPI)	
15.	1001-P168SI	TC - Orifice Pilot LP 977.168 #35 (IPI)	
16.	1001-P280SI	TC - Tubing W/Fittings 1/8 2.182.280	
17.	1002-P012SI	IPI Stepper Kit - LP 907.012	**P2 CONVERSION**
18.	1002-P013SI	IPI Stepper Kit - NG 907.013	
19.	1002-P014SI	IPI Reg Kit - LP Hi-Lo 907.014	**P1 CONVERSION**
20.	1002-P016SI	IPI Reg Kit - NG Hi-Lo 907.016	
21.	1002-P017SI	TC - Electrode Cable & Sparker IPI 915.017 24"	
22.	1002-P119SI	TC - Electrode Cable & Sparker IPI 35" (Infinite, ZCVRB47, VRB46)	
23.	1002-P12BH	IPI Battery Housing 12bh347-Gr	
24.	1002-P903SI	TC - Electrode Flame Sense IPI 007.253/915.903 24"	
25.	1002-P910SI	TC - Electrode Flame Sense 35" (Infinite, ZCVRB47, VRB46)	



Proflame 2 IFC Module and Remote Control



Pairing Remote Control:

- Install the 3 AAA type batteries in the battery bay, located on the base of the Remote Control. Note polarity of the batteries and insert them as indicated.
- Connect the AC power supply to the IFC Module.
- Press the SW1 button on the IFC Module so the IFC will “beep” and a red LED is illuminated to indicate that the IFC Module is ready to synchronize with a Remote Control within 10 seconds. With the batteries already installed in the Remote Control, push the ON button. The receiver will “beep” four times to indicate the Remote Control’s command is accepted.

The system is now initialized.

Resetting Proflame 2 IFC Module for Manual Use

If the transmitter gets misplaced, is broken, or is no longer wanted the PF2 Module can be reset to a manual system. A manual on/off switch or thermostat may be installed at the X4 connector (this connection is Jumped at the factory) no power is required.

The following sequence must be followed to reset the PF2 Module:

- Press the Red **SW1** button until you hear three beeps.
- Within 10 seconds press the **SW1** button again until you hear it beep.
- The PF2 Module may now be turned on/off manually (x4 connector) by a switch (not supplied), the pilot will remain on CPI (continuous pilot ignition) mode, all other functions of main burner, fan and lights will be on the high setting.

Fan Startup and Shutdown Timings:

Fan setting is started with a delay of 5 minutes from the fireplace ignition and stopped with a delay of 12 minutes from the fireplace switching off.

Low Battery Power Detection

When the Remote Control’s batteries are low, a Battery Icon will appear on the LCD display before all power is lost. When the batteries are replaced this icon will disappear.

Battery Backup

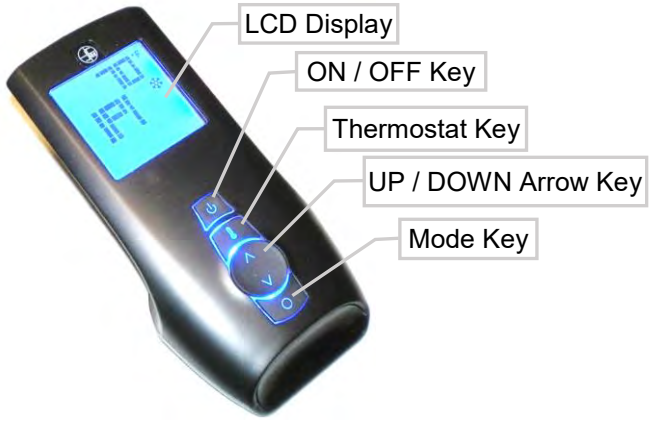
The PF2 module is powered by line voltage (AC) with provision of battery backup in case of main power loss. Fans and lighting features will not function with the PF2 Module is powered by battery backup. It is recommended that the 4 x AA batteries are changed before each heating season.

Cold Climates – CPI Setting - Proflame 2 Remote Control

Use the CPI setting during cold weather, otherwise the fireplace may have a hard time starting up and establishing a flame. The **CPI** (Continuous Pilot Ignition) setting will keep the firebox and fireplace exhaust vent warm during cold weather. When the firebox and exhaust vent are warm, exhaust gasses will readily flow out of the firebox.

If the firebox and venting are too cold, there is resistance due to the heavy cushion of cold air, and combustion gasses may not rise into the exhaust vent, thus causing the fireplace to cycle or **Lockout** (if this happens see ***Lockout Reset Procedures*** below).

NOTE: The pilot system for this appliance may be equipped with a **Seven Day Timer**, in which case the pilot flame will be extinguished if the main burner has not been turned ON for seven days. This Seven Day Cycle is reset every time the main burner is cycled ON / OFF and the pilot remains lit.If more than seven days has passed since the main burner has been cycled ON / OFF and the pilot is also out, follow the procedures described in this manual to light the pilot.



To switch from IPI to CPI Mode:

1. Turn the fireplace OFF using the **ON / OFF Key**.

2. Press the **Mode Key**. Display will appear as below.

3. Press UP on the **UP / DOWN Arrow Key**.
Display will show **CPI.**

The module in the fireplace will beep once to confirm command.

TO RETURN TO IPI (INTERMITTENT PILOT) MODE:

Repeat steps one and two, and then press DOWN on the **UP / DOWN Arrow Key**.

The module in the fireplace will beep once to confirm command.

Lockout Reset Procedures – Proflame 2

If the fireplace has cycled too many times in a short period of time, it will shut down and become unresponsive to any new command.

The LED light on the Proflame 2 module in the fireplace will be flashing red.

This condition is a **Lockout** state.

Lockout Reset Procedure:

1. Disconnect power from the Proflame 2 module in the fireplace for 10 seconds. This includes removing the backup batteries.
2. Once the 10 second interval has passed, reconnect power and reinstall backup batteries. The pilot should now try to light.
3. If the fireplace does not come on, call your fireplace technician.

Proflame 2 Remote Control

Remote-Flame Control

The proflame has six (6) flame levels. With the system on, and the flame level at the maximum in the appliance, pressing the Down Arrow Key once will reduce the flame height by one step until the flame is turned off.
The Up Arrow Key will increase the flame height each time it is pressed. If the Up Arrow Key is pressed while the system is on but the flame is off, the flame will come on in the high position. (Fig. 7 & 8) A single "beep" will confirm reception of the command.

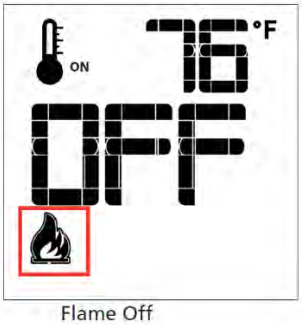
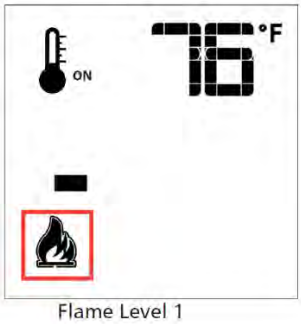


Fig. 7: Flame Off



Flame Level 1

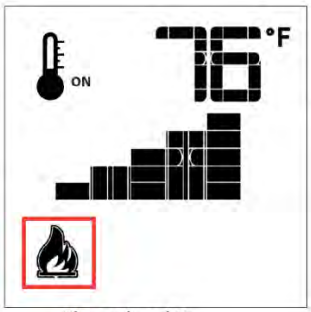


Fig. 8: Flame level 5

Flame Level Maximum

Room Thermostat (Transmitter Operation)

The Remote Control can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in a room.
To activate this function, press the Thermostat Key (Fig. 1). The LCD display on the Transmitter will change to show that the room thermostat is "ON" and the set temperature is now displayed (Fig. 9). To adjust the set temperature, press the Up or Down Arrow Keys until the desired set temperature is displayed on the LCD screen of the Transmitter.

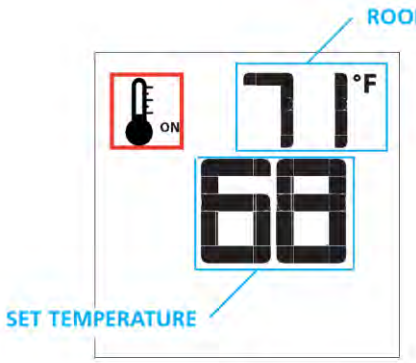


Fig. 9

Fig. 10

Smart Thermostat (Transmitter Operation)

The Smart Thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperatures. As the room temperature gets closer to the set point the Smart Function will modulate the flame down.
To activate this function, press the Thermostat Key (Fig. 1) until the word "SMART" appears to the right of the temperature bulb graphic (Fig. 11).
To adjust the set temperature, press the Up or Down Arrow Keys until the desidered set temperature is displayed on the LCD screen of the Transmitter (Fig. 12).

Fig. 11: Smart flame function

Fig. 12

Note:
When Smart Thermostat is activated, manual flame height adjustment is disabled.

Fan Speed Control

If the appliance is equipped with a hot air circulating fan, the speed of the fan can be controlled by the Proflame system. The fan speed can be adjusted through six (6) speeds. To activate this function use the Mode Key (fig.1) to index to the fan control icon (Fig. 13). Use the Up/Down Arrow Keys (Fig.1) to turn on, off or adjust the fan speed (fig. 14). A single "beep" will confirm reception of the command.

Fig. 13

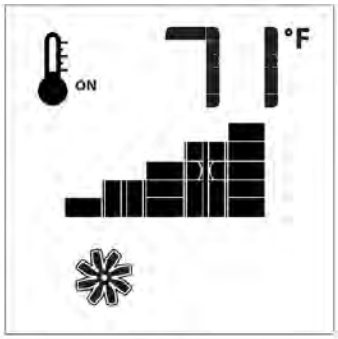


Fig. 14

Remote dimmer control (Light)

The auxiliary function controls the AUX power outlet by the dimmable light control. To activate this function use the Mode Key (fig. 1) to index to the AUX icon (fig. 15 & 16).
The intensity of the output can be adjusted through six (6) levels. Use the Up/Down Arrow Keys (Fig.1) adjust the output level (fig. 16). A single "beep" will confirm reception of the command.

Note:
This function is only available in Room Thermostat or Smart Thermostat Control Mode.

Fig. 15

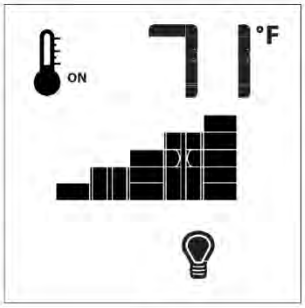
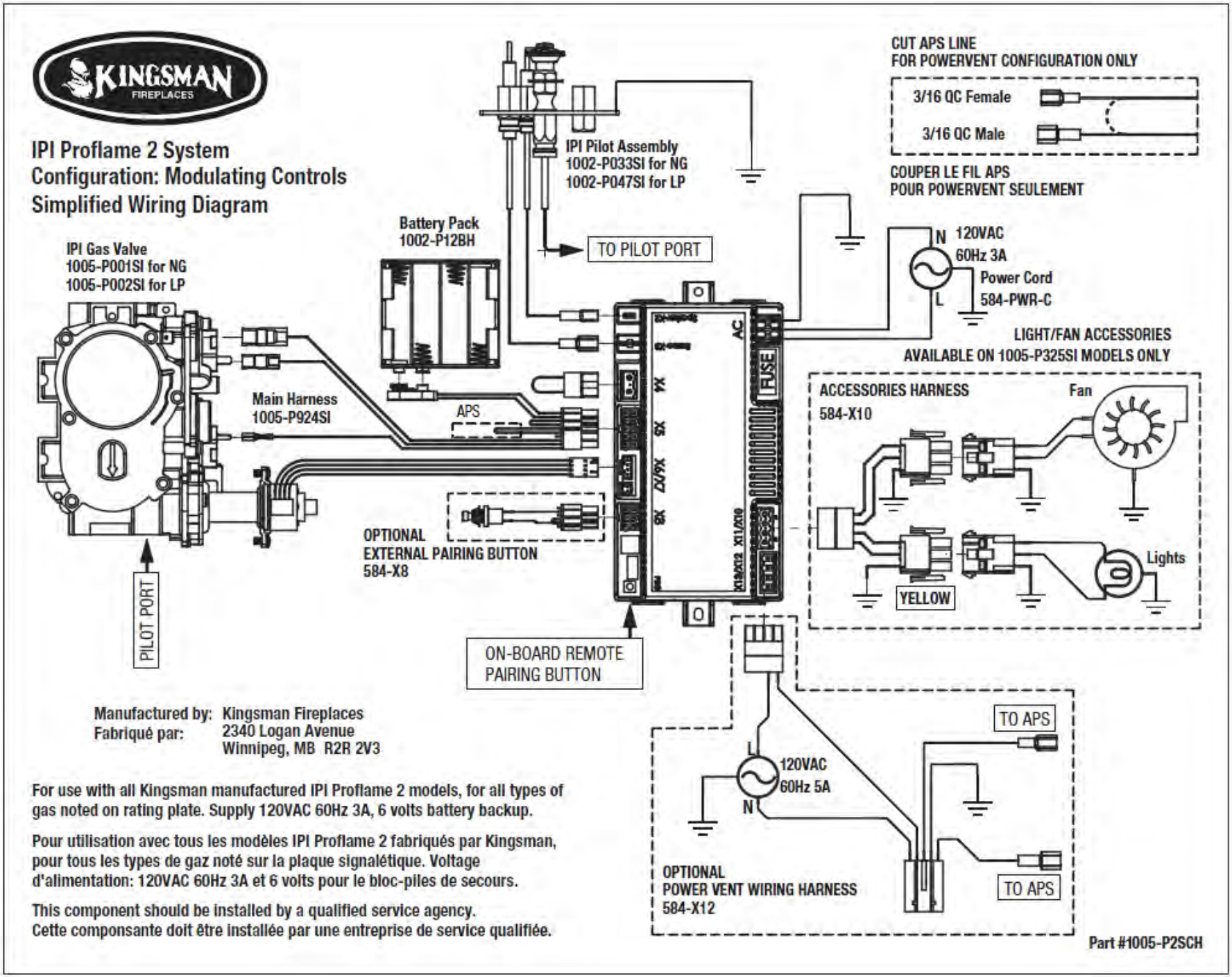


Fig. 16



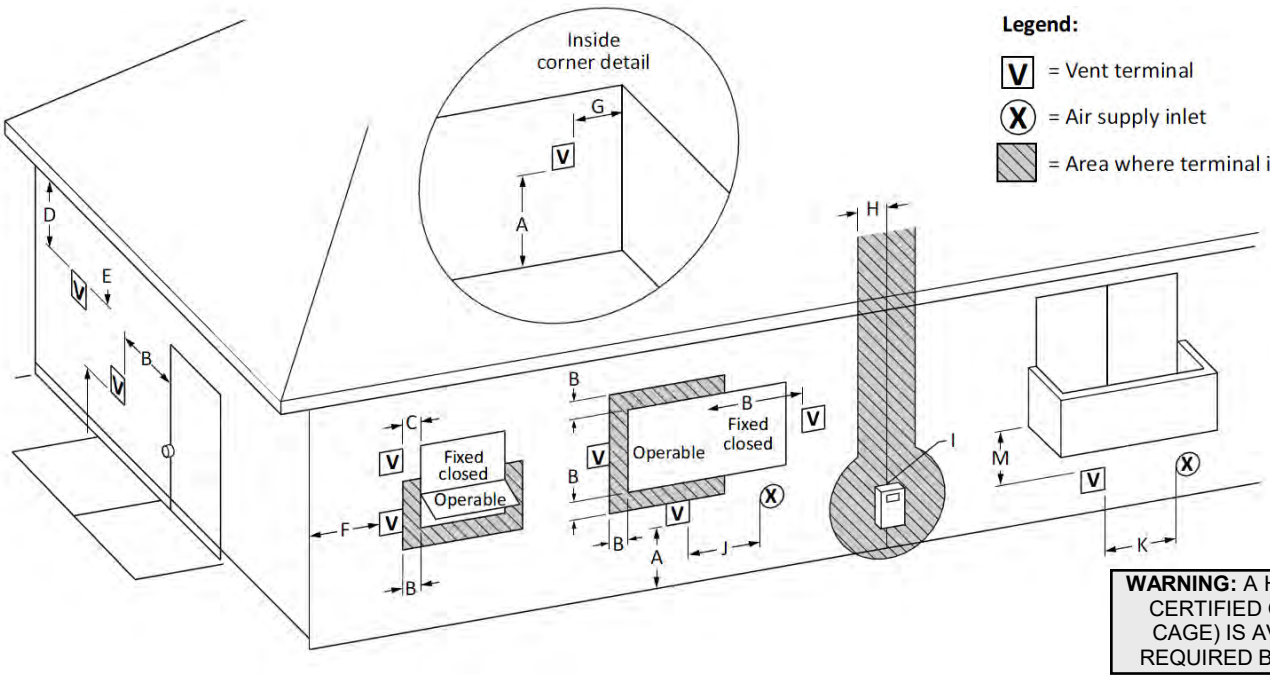
Manufactured by: Kingsman Fireplaces
Fabriqué par: 2340 Logan Avenue
Winnipeg, MB R2R 2V3

For use with all Kingsman manufactured IPI Proflame 2 models, for all types of gas noted on rating plate. Supply 120VAC 60Hz 3A, 6 volts battery backup.

Pour utilisation avec tous les modèles IPI Proflame 2 fabriqués par Kingsman, pour tous les types de gaz noté sur la plaque signalétique. Voltage d'alimentation: 120VAC 60Hz 3A et 6 volts pour le bloc-piles de secours.

This component should be installed by a qualified service agency.
Cette componsante doit être installée par une entreprise de service qualifiée.

Vent Terminal Clearances



Legend:

V = Vent terminal

X = Air supply inlet

= Area where terminal is not permitted

Clearances are to the edge of the terminal plate. Add 6-3/4" to clearances to arrive at centerline.

Local codes or regulations may require different clearances.

WARNING: A HORIZONTAL VENT CERTIFIED GUARD (SAFETY CAGE) IS AVAILABLE WHEN REQUIRED BY LOCAL CODES.

		Canadian installations[1]	US installations[2]
A	Clearance above grade, veranda, porch, deck, or balcony	12 in (30 cm)	12 in (30 cm)
B	Clearance to window or door that may be opened	6 in (15 cm) for appliances ≤ 10,000 Btu/h (3 kW), 12 in (30 cm) for appliances > 10,000 Btu/h (3 kW) and ≤ 100,000 Btu/h (30 kW), 36 in (91 cm) for appliances > 100,000 Btu/h (30 kW)	6 in (15 cm) for appliances ≤ 10,000 Btu/h (3 kW), 9 in (23 cm) for appliances > 10,000 Btu/h (3 kW) and ≤ 50,000 Btu/h (15 kW), 12 in (30 cm) for appliances > 50,000 Btu/h (15 kW)
C	Clearance to permanently closed window	12 inches (30cm) recommended to prevent condensation on window	12 inches (30cm). 9 inches (23cm) for appliances 50,000 Btu's and lower
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (61 cm) from the center line of the terminal	18 inches (46cm)	18 inches (46cm)
E	Clearance to unventilated soffit	12 inches (30cm)	12 inches (30cm)
F	Clearance to outside corner	3" *	3" *
G	Clearance to inside corner	3" *	3" *
H	Clearance to each side of center line extended above meter/regulator assembly	3 ft (91 cm) within a height 15 ft (4.5 m) above the meter/regulator assembly	3 ft (91 cm) within a height 15 ft (4.5 m) above the meter/regulator assembly
I	Clearance to service regulator vent outlet	3 ft (91 cm)	3 ft (91 cm)*
J	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance	6 in (15 cm) for appliances ≤ 10,000 Btu/h (3 kW), 12 in (30 cm) for appliances > 10,000 Btu/h (3 kW) and ≤ 100,000 Btu/h (30 kW), 36 in (91 cm) for appliances > 100,000 Btu/h (30 kW)	6 in (15 cm) for appliances ≤ 10,000 Btu/h (3 kW), 9 in (23 cm) for appliances > 10,000 Btu/h (3 kW) and ≤ 50,000 Btu/h (15 kW), 12 in (30 cm) for appliances > 50,000 Btu/h (15 kW)
K	Clearance to a mechanical air supply inlet	6 ft (1.83 m)	3 ft (91 cm) above if within 10 ft (3 m) horizontally
L	Clearance above paved sidewalk or paved driveway located on public property	7 ft (2.13 m)†	7 ft (2.13 m)*
M	Clearance under veranda, porch deck, or balcony	12 in (30 cm)‡	12 in (30 cm) *

Notes:

1) In accordance with the current CSA B149.1, Natural Gas and Propane Installation Code.

2) In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code.

* Clearance in accordance with local installation codes and the requirements of the gas supplier.

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

‡ Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

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.

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.

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 (Model DV-GS Series), 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 # ZDVDFA for fireplaces and part # ZDVDKA 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.

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.

FRAMING DIMENSION

Combustible Wall

Cut a 11" hole through exterior wall and frame as shown below.

Non combustible Wall

Cut or drill 8" or 204mm diameter hole.

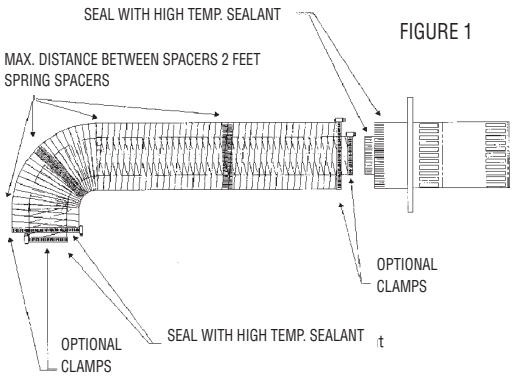


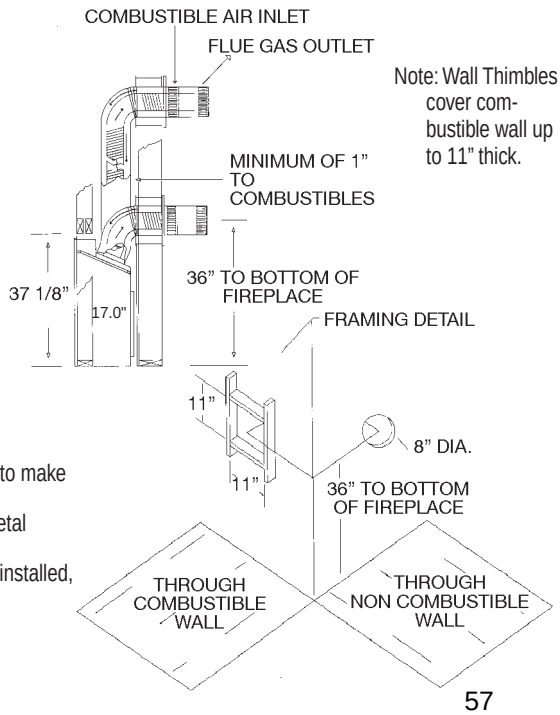
FIGURE 1

NOTE: It is critical to the proper and safe operation of this fireplace that on all connections the inner liner and the outer casing are both caulked with liberal amounts of sealant. Do not use any kind of tape or silicone other than that recommended in this manual, Mill Pac Sealant

Installation Of Side Wall Venting

1. The minimum distance from the bottom of fireplace to centre of vent is 36 inch (85 cm) (See Figure 1). Cut a hole through the wall allowing for a 11" x 11" (inside diameter) in combustible walls for wall thimble or an 8" diameter hole in a non-combustible wall (See Figure 2).
2. Note clearance to combustibles are as stated on pages 7, 8, &9.
3. Select the approximate vent length, precise measurements are not needed as your flex pipe can be expanded to twice its shipped length for ease of installation.
4. To install wall thimble centre over 11" x 11" (inch) framing from both sides of wall and secure. Route flex vent pipe through wall thimble (See Figure 1).
5. Before joining pipes, apply a bead of high temperature sealant (Mill Pac) to end of pipe. First attach the four inch (4") flue pipe to the vent termination with sealant, and secure with the four screws provided. At this time make sure the spacer springs are attached to the (4") flex pipe as required. Then attach the seven inch (7") pipe by the same method.
6. Mount vent termination and seal to wall using caulking around the wall thimble to weather proof. After installing the vent termination, double check to make sure the pipe extends properly through wall thimble and into vent termination.
7. Before joining pipes to fireplace flue, apply a bead of high temperature sealant (Mill Pac) to end of pipe. First attach the four inch (4") flue pipe to fireplace with sealant, and secure with the four screws provided. At this time verify that the spacer springs are attached properly to the (4") flex pipe as required. Then attach the seven inch (7") pipe by the same method.
8. Support horizontal pipes every two (2) feet (61 cm) with metal strap bands. Re-check fireplace to make sure it is levelled and properly positioned and secured.
9. Support vertical pipes to maintain a minimum of 1" or greater clearance to combustibles with metal strapping bands.
10. If finishing the outside wall with vinyl or wood siding it is recommended that a Siding Shield be installed, Part Number ZDVSSLR.

Note: Vent Termination must not be recessed into wall or siding.



Venting Routes And Components

Since it is very important that the vent system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The table showing the relationship between vertical and horizontal side wall venting will help to determine the various vent lengths.

The maximum horizontal run with the 90 degree bend at the fireplace flue outlet is 4 ft/122cm (Figure #1). The maximum horizontal run is 20 ft/6.1 m when the vertical run is 7 ft/2.1m (Figure #2). Note: 1/4" vertical rise is required for every 12" of horizontal run.

The maximum number of 45 degree bends per side wall installation is two (2) in the horizontal run and then you must reduce the length of the horizontal by 18 inches for each 45 degree bend.

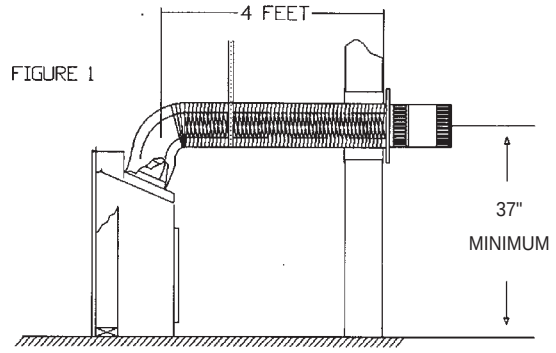
The maximum vertical run is 40 ft/12.2 meters.

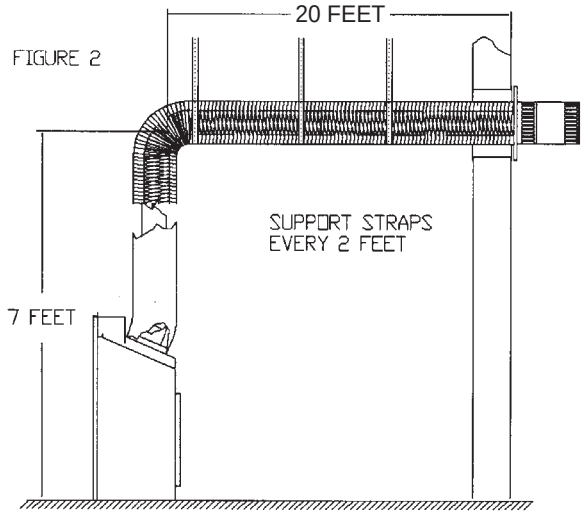
Special Note: For each 45 degree bend installed in the horizontal run, the length of the horizontal run must be reduced by 18" (45cm). This does not apply if the 45 degree bends are installed on the vertical part of the vent system.

Example: If according to the table, the length of the horizontal run is 10 feet, and two 45 degree bends are required, the horizontal run length must be reduced to 7 feet.

2 additional 90° bends or equals are allowed. The horizontal run must be reduced by 36" per each 90° bend, or 18" per each 45° bend.

Important: Always locate the fireplace in such a way that a minimum of offsets and/or horizontal runs are required. 1/4" vertical rise is required for every 12" horizontal run.





How To Use The Horizontal Vent Table

1. Determine the height of the system and the number of bends required.
2. Having determined the vertical distance determine the maximum horizontal section allowed.
3. Vent table has been established for 90˚ horizontal/vertical runs. With use of flex pipe distance not having 90˚ bends will not fall into vent table standards. See Fig. B.

Horizontal Venting Table From Bottom of Fireplace

for venting to a maximum of 40 ft. (12.2 meters)

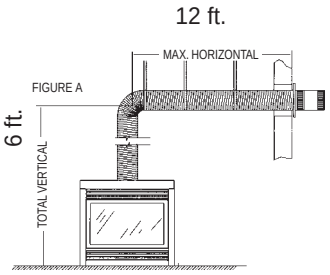
Total Vertical		Max Total Horizontal	
Feet	Meters	Feet	Meters
4	1.2	5	1.5
5	1.5	8	1.2
6	1.8	12	3.7
7	2.1	20	6.1
8	2.4	20	6.1
9	2.7	20	6.1
10	3.0	20	6.1
11	3.4	20	6.1
12	3.7	20	6.1
13	4.0	20	6.1
14	4.3	20	6.1
15	4.6	20	6.1
16	4.9	20	6.1
17	5.2	20	6.1
18	5.5	20	6.1
19	5.8	20	6.1
20	6.1	20	6.1
25	7.5	15	4.6
30	9	10	3.0
40	12.2	0	0

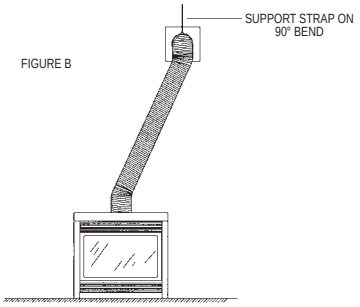
Example A:

If the vertical dimension from the floor of the fireplace is 6ft, the horizontal run to the wall flange of the vent termination must not exceed 12ft.

NOTE: The final location of the fireplace must be such that the horizontal vent dimensions fall within those stated on the graph. The Maximum Vertical vent run is 40ft. (12.2 meters).

Important: Minimum clearance between vent pipes and combustible materials is 1 inch (25mm).

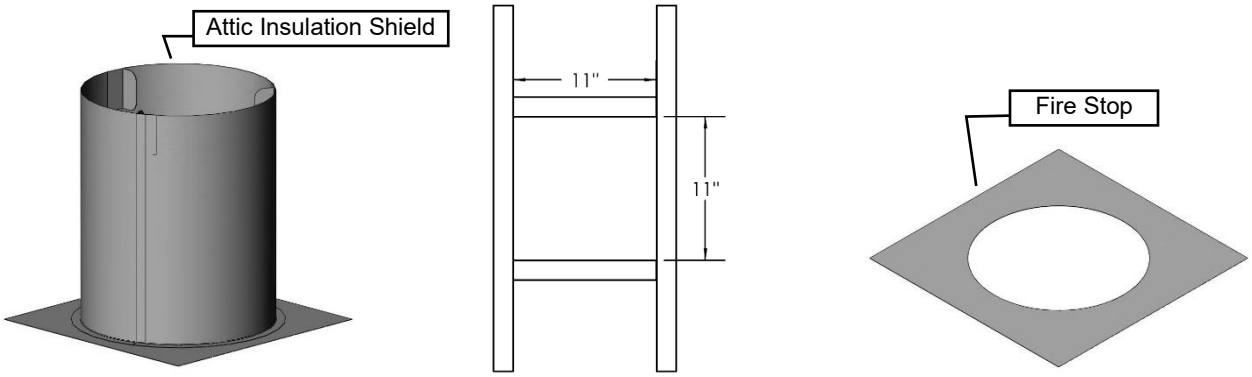




It is recommended for **Propane Horizontal Installations** that the venting should be a minimum of one foot vertical off the flue before the elbow on any horizontal runs of one foot or greater. This allows for cleaner combustion and greatly reduces carboning and cleaning of glass. (Does not apply to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

Venting Straight Up Through Roof

An Attic Insulation Shield must be installed where the vent passes from a lower living space into an attic space where the chimney is not enclosed. It is designed to keep insulation materials away from the chimney.
When installing the Attic Insulation Shield where the chimney passes from a living space to an attic space, install the shield from below and nail in place using 1" spiral nails.
A fire stop must be installed on the bottom side of the joists when passing through a ceiling or floor. If an attic insulation shield is to be used, a fire stop is not required.



Using Flex Bends

Avoid cutting joists by offsetting the flex pipe.
When using 45° bends a bend support is required directly above the highest bend.
When installing a bend in a joist area a minimum of 4" clearance to combustible to the top of bend must be maintained, sides and bottom of pipe, a 1" clearance to combustibles must be maintained. If running horizontal through an area a 1-1/2" minimum clearance to the top of the horizontal pipe must be maintained.
Maximum vertical height of system should not exceed 43 feet.
Use roof support and rigid pipe at roof level. Flex pipe is not permitted within roof support.
When penetrating the roof a rigid galvanized pipe must be used. Attach flex pipe to the rigid pipe with high temperature sealant, secure with four screws assuring the flex pipe and rigid pipe are secured. Attach rigid pipe to termination with sealant and screw with 4 sheet metal screws. The Inner flex pipe must be secured with 4 screws which must penetrate both the flex pipe and inner section of termination. Attach 7” rigid pipe to 7” termination with sealant and screw with 4 sheet metal screws.
Vertical termination clearance is 18" [45.7cm] above the roof, measured from highest point of exit on the roof line.
Support vertical pipes to maintain minimum of one inch or greater clearances to combustibles.

Roof Flashing

Ensure that you have the proper roof flashing by checking your roof pitch using a level and two rulers, or by using a roof pitch card. Slide a Roof Flashing suitable to your roof slope over the vent. Place the edge of the flashing plate that will be on the higher part of the roof slope under the shingles. Both the sides and the lower edge lay on top of the shingles.

NOTE: At the top edge of the flashing plate, lift the shingles and nail the plate to the roof deck, then cement the shingles to the plate with a suitable waterproof mastic.

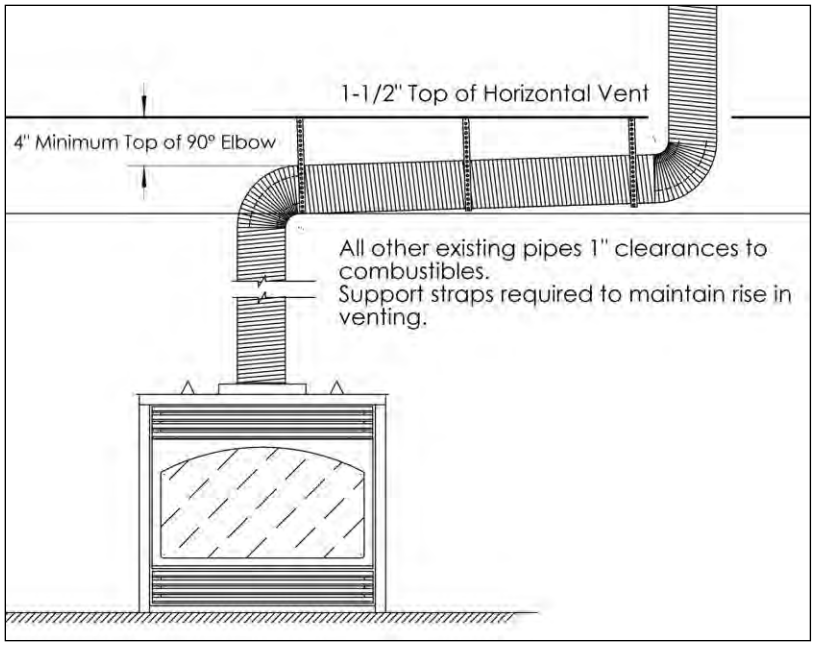
Ensure that the chimney is plumb. Square up the flashing plate and nail in place to the roof deck. Use 12 nails with neoprene washers or cover the heads with a suitable waterproof mastic. Wrap the storm collar around the vent above the flashing. Secure the ends together loosely with nut and bolt supplied. Slide the collar down the vent until it comes in contact with the flashing. Tighten the bolt and seal the Storm Collar to the vent with a suitable waterproof non-combustible mastic.
The flashing and storm collar should be painted to match the roof shingles. This will extend its life and improve the appearance. Clean, prime and paint with suitable painting products.

Vertical Venting in Cold Climates

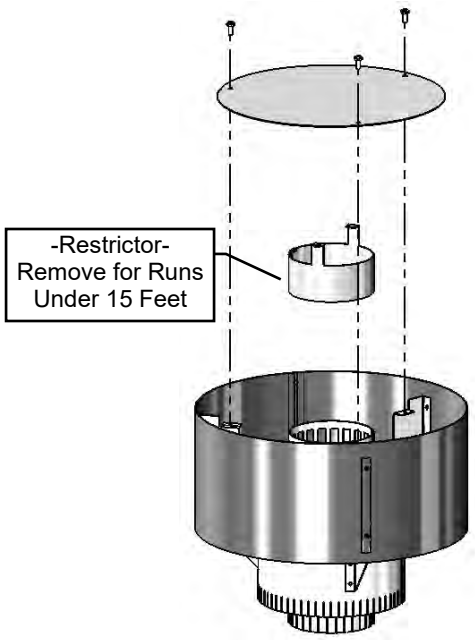
In cold climate conditions where temperatures go below -10 degrees Celsius or 14 degrees Fahrenheit, we recommend that the chase be insulated and where the vent pipe enters into the attic space that the pipe be wrapped with an insulated Mylar sleeve. This will increase the temperature of the vent and help the appliance to vent properly in cold weather conditions.
It is also important in vertical vented direct vent appliances that the appliance be operated daily during the winter months as this will help stop the termination from freezing up.

We recommend using a thermostat set at room temperature to allow the unit to cycle.
For IPI models it may be necessary to set the appliance to Standing Pilot mode to maintain heat in the cavity. The purpose of this procedure is to prevent cold air from penetrating the chimney and then onto the living space. Therefore, when the internal temperature is slightly elevated the fireplace is able to freely exhaust its combustion and hence making it easier to start up.

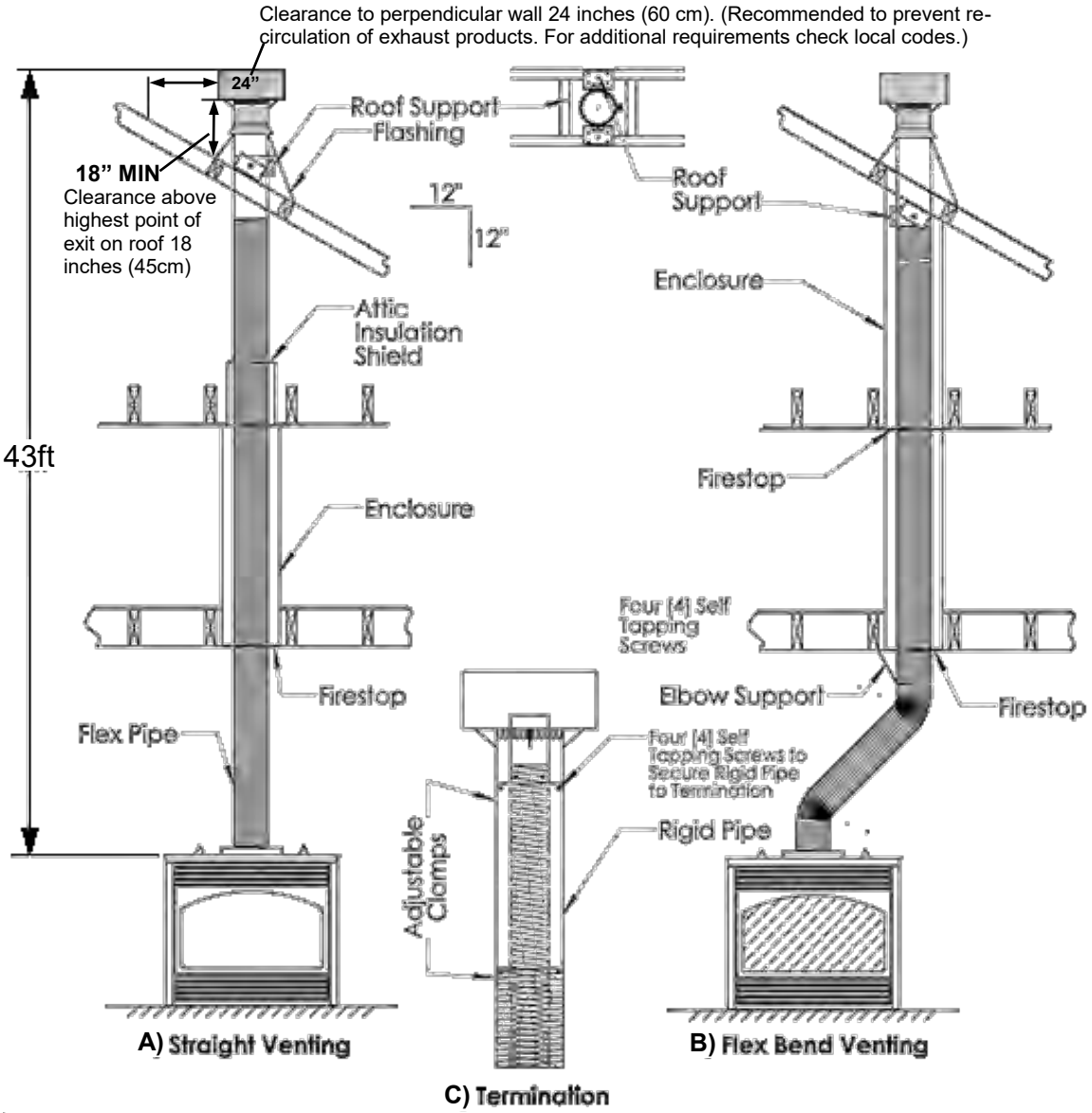
-ALSO SEE DIAGRAMS ON FOLLOWING PAGE-



Clearances in horizontal venting.



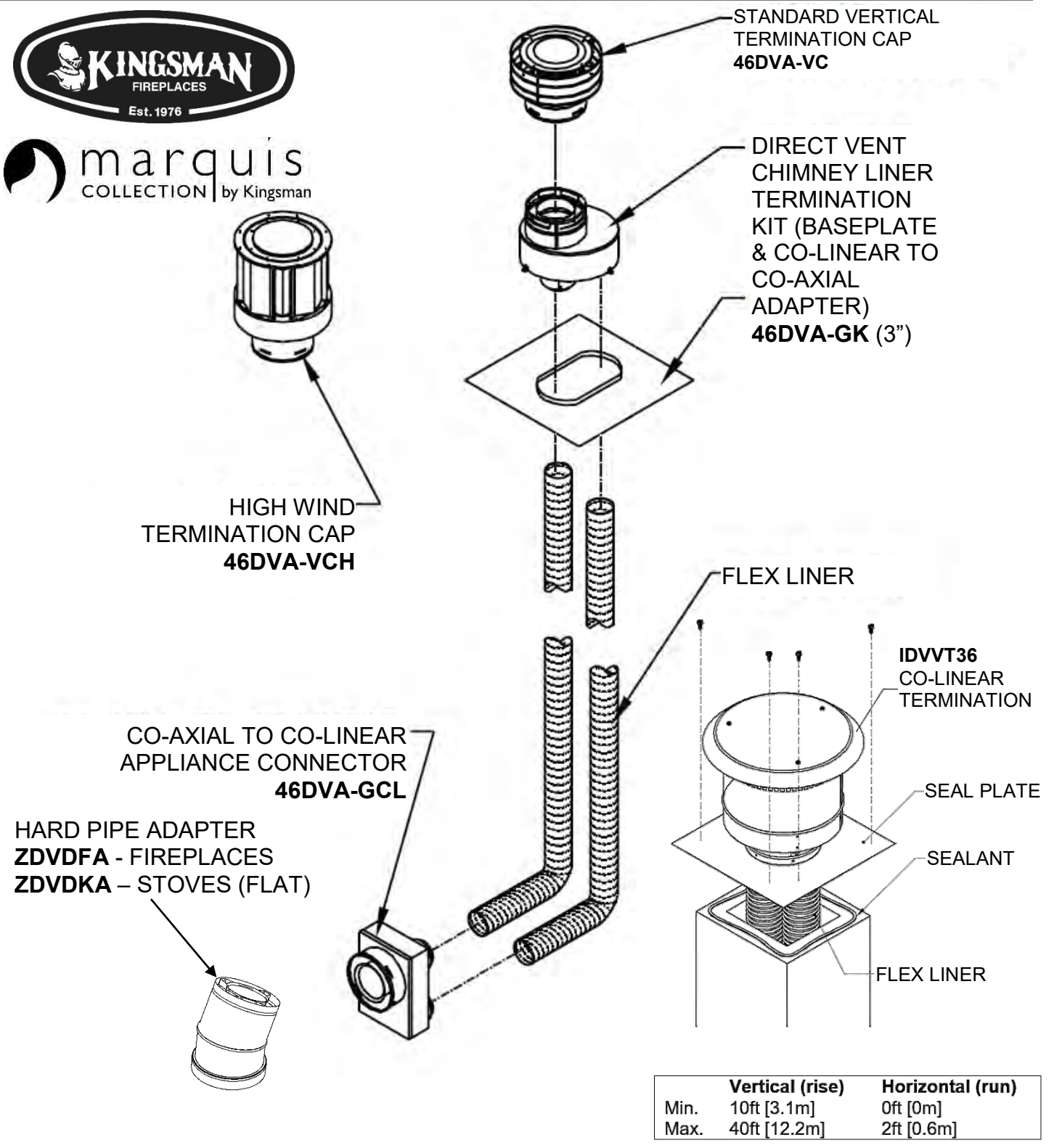
FDVVT40



A) Straight-through roof support configuration; **B)** Flex bend configuration; **C)** Termination mounting

Fireplace Installations Using Co Linear Flex Kits

CAUTION – The following installation procedure is not covered under the appliance safety standard (ANSI Z21.88 – CSA 2.22 or ANSI Z21.50 – CSA 2.33) used in the safety certification of this appliance. The Intertek safety certification does not apply to this installation. Before installing the appliance using this method, contact the Authority Having Jurisdiction to determine if this installation is acceptable in your area.



	Vertical (rise)	Horizontal (run)
Min.	10ft [3.1m]	0ft [0m]
Max.	40ft [12.2m]	2ft [0.6m]

These kits may be used when installing a fireplace using a masonry chimney.

-Glass Safety- All Units

IT IS THE RESPONSIBILITY OF THE HOME OWNER TO ENSURE THAT NO ONE TOUCHES A HOT APPLIANCE.

If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.

Any safety screen, guard, or barrier removed for servicing the appliance, must be replaced prior to operating the appliance.

- 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.
- Do not clean when the glass is hot.
- 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.
- Do not leave the fireplace remote control where it is accessible to children.

-Termination Cap Safety- All Units

WARNING:

A HORIZONTAL VENT CERTIFIED GUARD (SAFETY CAGE) IS AVAILABLE WHEN REQUIRED BY LOCAL CODES.

SAFETY CAGES ARE AVAILABLE FOR ALL HORIZONTAL VENT TERMINATIONS. CHECK WITH YOUR DEALER.

- **TERMINATION CAP IS HOT!** Do not place flammable materials on or within 24 inches of termination caps.
- It is imperative that the vent termination be located observing the minimum clearances as shown in manual.
- 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.
- Venting terminal shall not be recessed into a wall or siding.

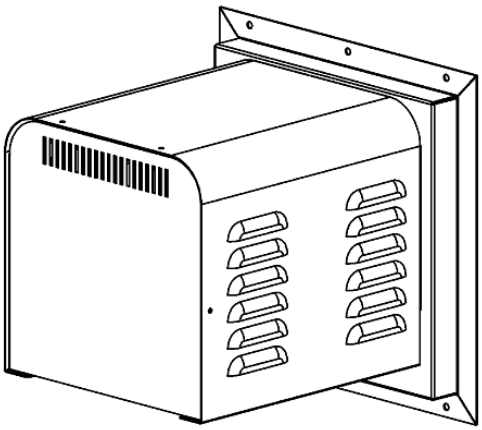
Approved for Power Vent PVH58 / PVH58FM

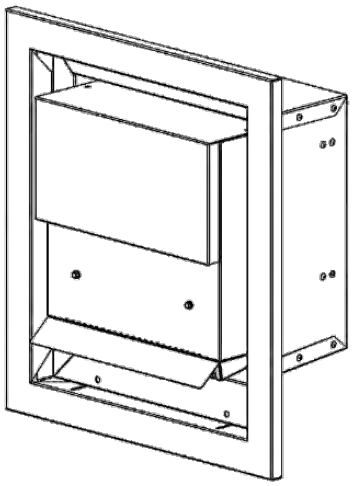
- This appliance is approved for use with a Kingsman PVH58 Horizontal Power Vent -

A Horizontal Power Vent Termination is intended for use where standard venting configurations are not possible.

NOTE: MODELS EQUIPPPED WITH MILLIVOLT/ STANDING PILOT IGNITION: Downward vertical vent runs are **NOT** permitted.

NOTE: MODELS EQUIPPPED WITH INTERMITTENT PILOT IGNITION (Proflame 1 or Proflame 2):
Downward vertical vent runs are permitted, however, Cold Climate Switch (Standing Pilot Mode) must **NOT** be used.





Maximum / Minimum Vent Lengths:

Maximum Vent Length is 125 ft plus six 90° elbows with Air Intake Shutter fully closed. Termination must not be below unit.

This power vent can be installed up to **8ft** below the installed fireplace on runs less than 100ft and not more than four 90° elbows.

Minimum Vent Length is 1 FT vertical x 3 FT horizontal x 3 FT vertical x 3 FT horizontal (See PVH58 manual).

Seven 90° elbows are possible if the total horizontal is not more than 25ft and the vertical does not exceed 15ft.

Refer to Power Vent Manual for proper installation and use.

marquis COLLECTION by Kingsman

KINGSMAN FIREPLACES Est. 1976

Power Vent Parts List – 4/7 Venting

NUMBER	DESCRIPTION
PVH58	Horizontal Power Vent Starter Kit - Exterior Mount
PVH58FM	Horizontal Power Vent Kit - Flush Mount

Note: Must use a one foot section of 5/8 DV hard pipe to connect to the Power Vent Termination (not supplied)

CHOOSE CONTROL MODULE OR HARNESS DEPENDENT ON VALVE SYSTEM

PVC58MV	Power Vent Control Module - for Millivolt Models
PVC58IPI	Power Vent Control Module - for Proflame 1 - IPI Models
584-X12	Harness for Proflame 2 IPI - Deluxe Models
PVH20H	Main Wiring Harness Assembly – Extension Harness (20ft)

CHOOSE VENTING TO BE USED: SECTION 1 - HARD PIPE, SECTION 2 FLEX VENT

SECTION 1 DIRECT VENT HARD PIPE 4x6-5/8" – for entire installation

(Two Adapters needed: one at Flue and one at Termination)

	Flue of Fireplace
ZDVDKA	Duravent Adapter – for Flat Flue
ZDVDFA	Duravent Adapter – for Sloped Flue
	Termination End
ZDVDIA	Duravent Hard Pipe Adapter- (used to connect 4x6-/8" to 5/8 Hard Pipe)

Note: Must use a one-foot section of 5/8 DV hard pipe (not supplied) to connect to the Power Vent Termination.

SECTION 2 FLEX VENT - Used for entire installation – order Z47PVA

Note: Must use a one-foot section of 5/8 DV hard pipe connected to the power vent on all installations.

	Termination End
Z47PVA	Flex Pipe Adapter Kit - (to adapt flex pipe to power vent to hard pipe)

Note: Must use a one-foot section of 5/8 DV hard pipe (not supplied) to connect to the Power Vent Termination.

FLEX VENTING KITS

ZDVFK5	Flex Kit (4” & 7” Dia.) x 2.5’ (Unexpanded) 5’ Expanded
ZDVFK8	Flex Kit (4" & 7" Dia.) x 8' (c/w Springs, Screws, Mill Pac)
ZDVFK20	Flex Kit (4" & 7" Dia.) x 20' (c/w Springs, Screws, Mill Pac)

POWER VENT ACCESSORIES

ZDV4FC	Flex Connector 4” Diameter
ZDV7FC	Flex Connector 7” Diameter
ZDV4FCL	Flex Clamp 4"
ZDV7FCL	Flex Clamp 7"
ZDV4SS	Spring 4" Standoff Spacer
PVH58WT	Wall Thimble for Power Vent

42HB Parts List

Catalog Number	Description
HBZDV4224N (Millivolt) HBZDV4224NE (IPI) HBZDV4224NE2 (IPI)	Fireplace Heater rated NG, Tempered Glass, 24,000 BTU with Glowing Ember Bed, bedroom approved
HBZDV4224LP (Millivolt) HBZDV4224LPE (IPI) HBZDV4224LPE2 (IPI)	Fireplace Heater rated LP, Tempered Glass, 22,000 BTU with Glowing Ember Bed, bedroom approved
HBZDV4228N (Millivolt) HBZDV4228NE (IPI) HBZDV4228NE2 (IPI)	Fireplace Heater Rated NG, Ceramic Glass, 28,000 BTU with Glowing Ember Bed BRA-MHA
HBZDV4228LP (Millivolt) HBZDV4228LPE (IPI) HBZDV4228LPE2 (IPI)	Fireplace Heater Rated LP, Ceramic Glass, 26,000 BTU with Glowing Ember Bed BRA-MHA

FIREPLACE REQUIREMENTS	
Grills or CVCK (clean view circulating kit)(Required for each unit)	
HB42CVCK	CVCK(clean view circulating kit) no grill required
Grills	
HB36GBL	Grill Kit - Black
LOG SETS or ROCK KIT (Required for each unit)	
LOGC42	Log Set - 4 pce. - Classic Oak (ZDV3320, HB3624/28, HB4224/28 Series)
LOGC43	Log Set - 8 pce. - Burnt Oak (ZDV3320, HB3624/28, HB4224/28 Series)
LOGC44	Log Set - 8 pce. - Burnt Oak (ZDV3320,
MQLOGC45	Oak Log Set 7 Pc. (HBZDV3624 / 3628 / 4224 / 4228)
MQROCK1	Rock Set Tan(HBZDV 3624, 3628, 4224, 4228)
MQROCK2	Rock Set Natural (HBZDV 3624, 3628, 4224, 4228)
MQROCK3	Rock Set Multi Color (HBZDV 3624, 3628, 4224, 4228)
MQRSP3	Rock Platform and screws (HBZDV 3624, 3628, 4224, 4228)
Fireplace Surrounds	
HB42SBL	Surround – Black (Coverage 37-5/8” H x 45-1/8” W)
Accessories	
Z36FK	Fan Kit w/Variable Speed Wall Mount Control (Temperature Sensing)
Z2MT	Thermostat Millivolt Wall Mount
Z80PT	Thermostat Programmable Digital Millivolt Wall Mount (1F80-40)
DCHS	Remote Control Heatshield
HB42RLT	Refractory Liner Traditional
HB42RLH	Refractory Liner Herringbone
HB42CSS	Replacement Safety Screen
HB42PSK	Pull Screen Kit for CVCK

Replacement Burner Assembly	
4224HB-BNGSI	Burner Assembly - Natural Gas c/w Valve System (HBZDV4224N)
4224HB-BLPSI	Burner Assembly - Liquid Propane c/w Valve System (HBZDV4224LP)
4228HB-BNGSI	Burner Assembly - Natural Gas c/w Valve System (HBZDV4228N)
4228HB-BLPSI	Burner Assembly - Liquid Propane c/w Valve System (HBZDV4228LP)
Valve System Parts - New Top convertible SIT (Millivolt)	
1000-P136WR	Thermopile GOAI-524
1001-P069SI	Electrode Sparker 915.069 TC SIT
1001-P216SI	Thermocouple 290.216 TC SIT
1001-P165SI	Orifice Pilot NG 977.165 TC SIT
1001-P167SI	Orifice Pilot LP 977.167 TC SIT
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
Remote Control / Millivolt	
GFRC	Remote Control Millivolt / IPI – On/Off
GTRC	Remote Control Millivolt - Thermostat
GTMRCN	Remote Control Millivolt – Thermostat/Modulating - NG
GTMRCP	Remote Control Millivolt – Thermostat/Modulating - LP
GTFRCN	Remote Control Millivolt – Thermostat/Modulating/Fan - NG
GTFRCP	Remote Control Millivolt – Thermostat/Modulating/Fan - LP
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	
1006-P002si	Valve IPI (NG; Hi/Lo)
1006-P603si	Valve IPI (LP; Hi/Lo)
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 (18MMXI.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
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
42HB-310	Ceramic Glass - For All HBZDV4200
42HB-311	Tempered Glass - For HBZDV3624 Model
36HB-123	Upper Door Spring

Conversion Kit (Sit Valve Only) (Millivolt)	
4224HB-CKLP	LP Conversion Kit for HBZDV4224 (Millivolt)
4224HB-CKNG	NG Conversion Kit for HBZDV4224 (Millivolt)
4228HB-CKLP	LP Conversion Kit for HBZDV4228 (Millivolt)
4228HB-CKNG	NG Conversion Kit for HBZDV4228 (Millivolt)

Conversion Kit (Sit Valve Only) (IPI)	
4224HB-CKLPI	LP Conversion Kit for HBZDV4224 (IPI)
4224HB-CKNGI	NG Conversion Kit for HBZDV4224 (IPI)
4228HB-CKLPI	LP Conversion Kit for HBZDV4228 (IPI)
4228HB-CKNGI	NG Conversion Kit for HBZDV4228 (IPI)

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.
FDVVT40	Vertical Vent Termination converts from 15’-40’ to under 15’
FDVHT	Horizontal Vent Termination
FDVHSQ	Horizontal Square Termination
Z47ST24	Horizontal Snorkel Termination – 24”
Z47ST36	Horizontal Snorkel Termination – 36”
FDVHSCU	Safety Cage for Horizontal Termination
ZDVAIS	Attic Insulation Shield
ZDVVOS	Offset Support
ZDVFS	Firestop Spacer
ZDVRS	Roof Support
ZDVWT	Wall Thimble (Horizontal Venting)
ZDVSSLR	Siding Shield - Large Return
Z47GP36	Galvanized Pipe 7” Dia. x 36” (Vertical Installations)
ZDVAAF	Flashing 7” c/w Storm Collar (1/12 to 7/12)
ZDVAF2	Flashing 7” c/w Storm Collar (8/12 to 12/12)
ZDVAF3	Flashing 7” c/w Storm Collar Flat
ZDV7SC	Storm Collar 7”
ZDVFK5	Flex Kit (4” & 7” Dia.) x 2.5’ (Unexpanded) 5’ Expanded
ZDVFK8	Flex Kit (4” & 7” Dia.) x 4’ (Unexpanded) 8’ Expanded
ZDVFK20	Flex Kit (4” & 7” Dia.) x 10’ (Unexpanded) 20’ Expanded *Kits are complete with spring stand-offs, silicone.
ZDV4FC	Flex Connector 4” Diameter
ZDV7FC	Flex Connector 7” Diameter
ZDV4SS	Spring 4” Standoff Spacer
ZDVDFA	Simpson Dura-Vent Fireplace Adapter (for ZDV33/36/42/47, ZDV6000, MDV31 & HB models)
ZDVHSKSQ	**Horizontal Square Termination Vent Starter Kit - 3 FT Length** Horizontal Vent Termination, Wall Thimble, Wall Thimble, 36” Flex Pipe, Mill Pac
ZDVHSKSQ5	**Horizontal Square Termination Vent Starter Kit - 5 FT Length** Horizontal Vent Termination, Wall Thimble, Wall Thimble, 60” Flex Pipe, Mill Pac
FDVHSQ	Horizontal Square Vent Termination

Troubleshooting 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”, and 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. *See NOTE below – Seven Day Timer
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.

***NOTE:** The pilot system for this appliance may be equipped with a **Seven Day Timer**, in which case the pilot flame will be extinguished if the main burner has not been turned ON for seven days.

This Seven Day Cycle is reset every time the main burner is cycled ON / OFF and the pilot remains lit.

If more than seven days has passed since the main burner has been cycled ON / OFF and the pilot is also out, follow the procedures described in this manual to light the pilot.

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 of the appliance, 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.
(Excluded Components: Accent Light Bulbs, Gasketing and Paint)

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 distributor's 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.

The Ultimate in Design, Engineering & Quality