

INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

SINCE 1932

INSTALLER:

Leave this manual with the appliance.

CONSUMER:

Retain this manual for future reference.

A 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.

DIRECT VENT ZERO CLEARANCE GAS FIREPLACE HEATER SERIES:

MILLIVOLT (MV)

DVCD(32,36,42)FP3(0,1)(N,P)-2

INTERMITTENT PILOT (IP)

DVCD(32,36,42)FP7(0,1)(N,P)-2



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.

A 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.



www.nficertified.org

We suggest that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.



UL FILE NO. MH30033

This fireplace is design certified in accordance with American National Standard/CSA Standard ANSI Z21.88/CSA 2.33 and by Underwriters Laboratories as a Direct Vent Gas Fireplace Heater and shall be installed according to these instructions.

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BEFORE YOU START

Samples and Definitions:

A DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

A CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE: Addresses practices not related to personal injury.

Read all instructions before starting installation and follow them carefully to insure safety. Failure to follow the instructions will void the warranty and may cause a fire hazard.

The warranty will be voided by, and the warranter disclaims any responsibility for the following actions:

- Installation of any damaged fireplace or vent system component.
- Modification for the fireplace or direct vent system.
- Installation other than as instructed by Empire Comfort Systems.
- Improper positioning of logs, glass door, or decorative accessories.
- Installation and/or use of any component part not manufactured or approved by Empire Comfort Systems.

All correspondence should refer to complete Model Number, Serial Number and type of gas. Fill out the Homeowner Reference Section on page 5.

Television Considerations

Installing a television above a fireplace has become increasingly popular; however, the area above any fireplace gets hot and most TV manufacturers recommend against placing their products near a heat source.

If you install a television above this fireplace, Empire Comfort Systems accepts no responsibility for damage or injuries. Follow the television manufacturer's installation instructions, including any recommendations regarding proximity to heat sources. If you have a TV above your fireplace, turn off the fireplace and let it cool completely before servicing or touching any buttons on the TV.

- 1. Determine where to install the fireplace. See page 11.
- 2. Frame the opening. See pages 14 15.
- 3. Install the fireplace. See page 15.
- 4. Install the venting. See pages 17 27.
- 5. Install and connect the gas lines. See pages 12 13.
- 6. Install the wiring. See pages 14, 70 and 74.
- 7. Light the fireplace. See pages 71 and 75.
- 8. Troubleshoot issues. See pages 72 and 76 78.
- Place the serial number sticker located in the instruction envelope onto the "Homeowner Reference Information" page.

- 10. Show the homeowner where the rating plate and lighting instruction plate are located. **See Figure 1.**
- 11. Show the homeowner how to operate the fireplace.
- 12. Show the homeowner how to do the basic maintenance.
- 13. Read the safety information pages 92 94.
- 14. If located in the Commonwealth of Massachusetts, note the special requirements on page 95.

Unpacking the fireplace

- 1. Cut binding straps and shrink wrap.
- 2. Remove the top of the carton.
- 3. Carefully remove the carton contents.
- Use the Carton Contents and Hardware Pack lists on page 4 to verify all components are present.
- Verify that the fireplace and components have not been damaged during shipping.
- 6. Set fireplace in a location near to its final installation location.

Preparation

This fireplace and its components are safe when installed in accordance with this Installation Manual. Report any parts damaged in shipment to your dealer. Do not install the fireplace with damaged, incomplete or substitute parts.

Installation Considerations

- Gas supply piping right or left side entrance
- Electrical supply and connections for optional fan kit
 - 120V, 60Hz, 1 Amp
 - Right side entrance
- Allowable fireplace mounting surfaces:
 - · A flat, hard, combustible or non-combustible surface
 - A raised platform of combustible or non-combustible material
 - The four corners of the fireplace onto non-combustible material so that contact is made on all four perimeter edges on the bottom of the fireplace – such as on cylinder blocks (where allowed by local codes).
- If the fireplace is installed directly on carpeting, tile or other combustible material other than wood flooring, it should be installed on a metal or wood panel extending the full width and depth of the fireplace.
- This fireplace is designed to be installed in a zero-clearance enclosure. Combustible material can come in contact with the top and side standoff spacers, and the fireplace can be secured to combustible framing with the framing brackets provided with the fireplace.

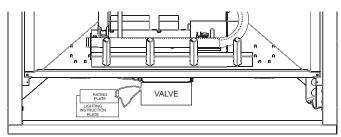
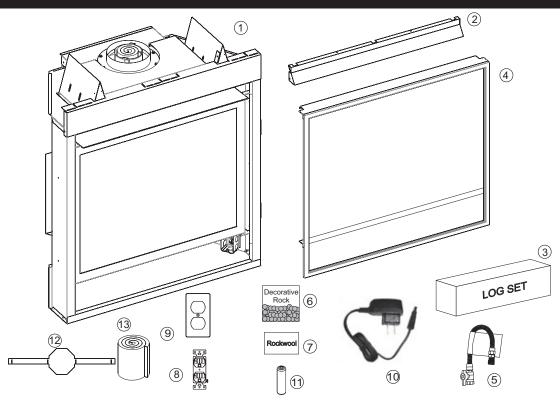


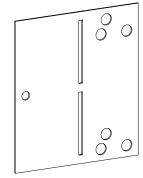
Figure 1

CARTON CONTENTS & HARDWARE PACK



Inday Number	Description	Quantity Supplied		Location
Index Number	Description	MV	IP	Location
1	Fireplace	1	1	Between carton caps
2	Canopy	1	1	Above window door
3	Log Set	1	1	Inside firebox
4	Barrier Screen	1	1	Mounted on fireplace
5	Flex Line w/Shut-off Valve	1	1	In envelope
6	Decorative Rock	1	1	Under log set
7	Rockwool	2	2	In envelope
8	3-prong Receptacle	1	1	In envelope
9	Receptacle Cover	1	1	In envelope
10	AC Power Adapter	0	1	In envelope
11	AA Battery	0	4	In envelope
12	Insulation Retainer Bracket	1	1	In envelope
13	Flue Insulation	1	1	Inside firebox

Note: Items 12 and 13 are used only if venting from the rear of the fireplace. Discard if venting from the top.









HOMEOWNER REFERENCE INFORMATION We recommend that you record the following information about your fireplace. Model Number: ______ Date purchased: _______ Serial Number: ______ Location of fireplace: _______ Dealer Name: _____ Dealer Phone: _______ Notes: ______

INTRODUCTION

The information in this manual pertains to all models and gas control systems unless otherwise noted.

Instructions to Installer

- 1. Leave this manual with Homeowner.
- Have the homeowner complete the Product Registration Card supplied with the fireplace; or register online at www.empirecomfort.com
- 3. Show the homeowner how to start and operate the fireplace.

Notes to Installer

- This fireplace is designed to:
 - Operate with combustion air siphoned from outside of the building.
 - Expel all exhaust gases to the outside of the building.
- The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1/NFPA 54* Natural Gas and Propane Installation Code, or CSA B149.1 in Canada. * Available from the American National Standards Institute, Inc. 11 West 42nd St., New York, N.Y. 10036
- Any alteration of the original design, installation other than as shown in these instructions, or use with a type of gas not shown on the rating plate is the responsibility of the person and company making the change.
- This fireplace is not for use with solid fuels.
- These fireplace models may be installed in a bedroom or bed-sitting room in the U.S.A. and Canada.

MARNING

Any change to this fireplace can be dangerous. Improper installation or use of the firebox can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.

Fireplace Certification

inspections.

This fireplace is design certified in accordance with American National Standard/CSA Standard ANSI Z21.88/CSA 2.33 and by Underwriters Laboratories as a Direct Vent Gas Fireplace Heater and shall be installed according to these instructions. Consult your local building code agency, prior to installation, to ensure compliance with local codes-including permits and

The fireplace, when installed, must be electrically grounded in accordance with local codes or, in absence of local codes, with the National Electric Code ANSI/NFPA 70 or Canadian Electric code, CSA C22.1, if an external electrical source is utilized.

Qualified Installing Agency

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency. The term "qualified agency" means any individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for (a) the installation or replacement of gas piping or (b) the connection, installation, repair or servicing of equipment, who is experienced in such work, familiar with all precautions required and has complied with all the requirements of the authority having jurisdiction.

Commonwealth of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

High Altitude

When installing this fireplace at an elevation above 2000 feet (in the United States) it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Generally, input should be reduced 4 percent for each 1000 feet above sea level. However, if the heating value of the gas has been reduced, this general rule may not apply. Check with local gas utility for proper orifice size identification.

Canadian High Altitude

Altitude: 0-4500 feet (0-1370 m)

When installing this fireplace at an elevation above 4500 feet (in Canada), check with local authorities.

Consult your local gas utility for assistance in determining the proper orifice for location.

SPECIFICATIONS

	DVCD32 NAT	DVCD32 LP	DVCD36 NAT	DVCD36 LP	DVCD42 NAT	DVCD42 LP
Input BTU/Hr Maximum	18,000	18,000	20,000	20,000	25,000	25,000
Input BTU/Hr Minimum	14,000	14,000	14,000	16,500	18,000	19,500
KWH Maximum	5.3	5.3	5.9	5.9	7.3	7.3
KWH Minimum	4.1	4.1	4.1	4.1	5.3	5.3
Orifice	#46 (0.081 inch)	#56 (0.0465 inch)	2.10mm	#55 (0.052 inch)	#42 (0.0935 inch)	1.45mm
Air Shutter Opening (inches)	1/16	1/4	1/16	5/16	3/16	5/16
Gas Inlet Shutoff Valve (pipe)	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT

NOTICE: Air shutter settings are factory minimum settings. Some venting configurations may require minor air shutter adjustments for optimum performance.

GAS SUPPLY PRESSURES (inches water column)						
GAS TYPE MAXIMUM MINIMUM MANIFOLD						
NAT	14.0	4.5	3.5			
LP	LP 14.0 10.5 10.0					

ACCESSORIES

The following accessories are available from your Empire Dealer.

The following acceptance are available from your Empire Bealer.			
Accessories			
Description	Model		
Ember Bed Kit	EK1		
Platinum Glowing Embers	PE20		
Variable Speed Blower	FBB4		
Flex Gas Line, 24-in Stainless Steel	GF24		

NOTICE: Empire Comfort Systems does not offer a mantel for this series of fireplaces.

Control Options				
Description	Model			
Battery Remote, On/OFF	FRBC			
Battery Remote, Thermostat	FRBTC			
Remote, Electric	FREC			
Remote, Programmable	FRBTP			
Wall Switch, On/Off	FWS1			
Wall Thermostat – Reed Switch	TMV			
Wall Thermostat – Wireless	TRW			

	Vent Kits			
Part No.	Description			
DVVK4TSP	Top Vent Kit (horizontal) – 4-1/2 to 6-inch wall thickness			
DVVK4TP	Top Vent Kit (horizontal) – 8 to 12-inch wall thickness			
DVVK4RP	Rear Vent Kit (horizontal – 5 to 7-inch wall thickness			
DVVK4VP	Vertical Vent Kit			
DVVK4F	Horizontal Flex Vent Kit (4-foot flex)			
DVVK4RE	Horizontal round termination (wall thickness up to 11-7/16 inches)			
DV822	Vinyl Siding Kit for DVVK-4RE			

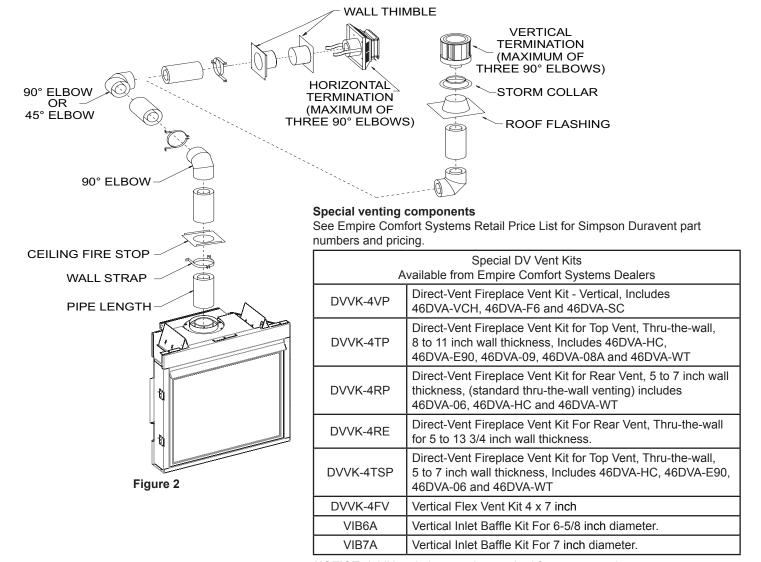
Conversion Kits				
Kit#	Conversion Type	Used On		
18816	LP to NAT	DVCD32FP3		
18456	NAT to LP	DVCD32FP3		
18817	LP to NAT	DVCD36FP3		
18442	NAT to LP	DVCD36FP3		
18818	LP to NAT	DVCD42FP3		
18814	NAT to LP	DVCD42FP3		
32881	LP to NAT	DVCD32FP7		
32880	NAT to LP	DVCD32FP7		
31759	LP to NAT	DVCD36FP7		
32882	NAT to LP	DVCD36FP7		
31761	LP to NAT	DVCD42FP7		
31760	NAT to LP	DVCD42FP7		

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VENT SYSTEM IDENTIFICATION

Begin the vent system installation by selecting the type of venting to be installed and the path that it will take. Verify that clearances are met throughout the path of the venting system. Determine if the fireplace is to be vented out the top.

Determine how the vent system will be terminated out the side of the house or through the roof. Verify the clearances for the termination.



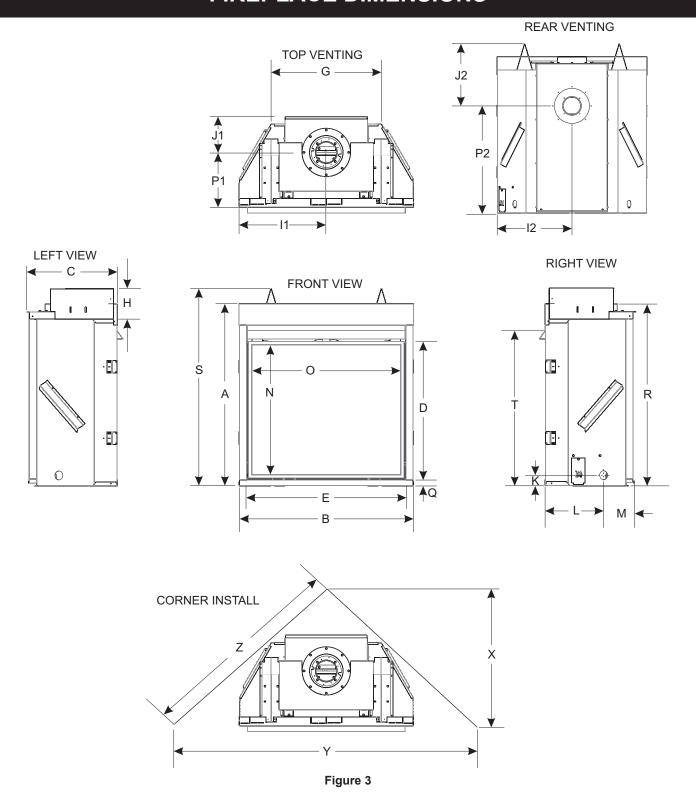
NOTICE: Additional pipe may be required for proper venting.

SPECIAL VENT SYSTEMS

The following 4 x 6-5/8 inch vent systems are acceptable for use ith the DVCD(32,36,42)FP series fireplaces:

Simpson Duravent® GS American Metal Products Selkirk Direct-Temp® Security Secure Vent® Excel DV Venting Metal Fab BDM Empire Horizontal Round Termination Kit DVVK-4RE Empire Flexvent Kit DVVK-4F Empire Flexvent Kit DVVK-4FV Vertical Flex Vent Kit

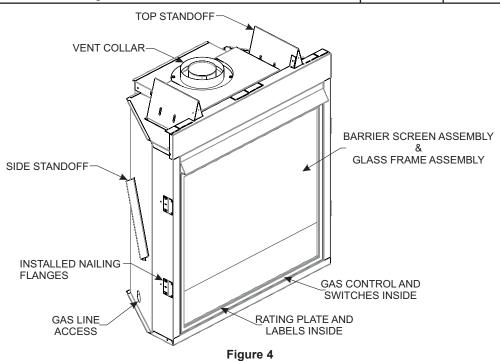
FIREPLACE DIMENSIONS



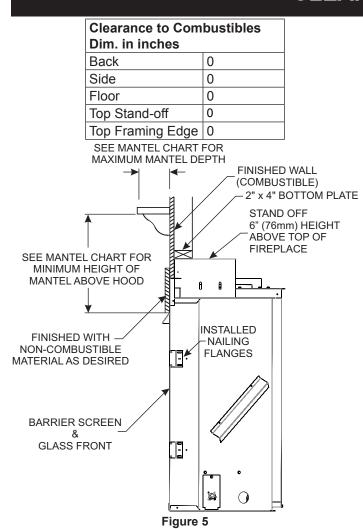
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FIREPLACE DIMENSIONS

INDEX	! DIMENSION DESCRIPTION -		DVCD36	DVCD42
LETTER			Dimensions in Inches	
Α	The maximum height of firebox face (excluding standoffs)	35-5/8	35-5/8	37-5/8
В	The maximum width of the firebox face (excluding nailing flanges)	34-1/8	37-1/16	43-1/16
С	The maximum depth of the firebox	17-3/4	17-3/4	17-3/4
D	The height of the firebox opening	27-1/2	27-1/2	29-1/2
Е	The width of the firebox opening	31	34	40
F	The interior depth of the firebox	11-7/16	11-1/2	11-9/16
G	The rear exterior width of the firebox (not shown)	21-9/16	24-9/16	30-9/16
Н	The height of the firebox standoffs	6	6	6
I1	Width from the left side of the box to the centerline of top vent	17-1/16	18-9/16	21-9/16
12	Width from the right side of the box to the centerline of rear vent	17	18-9/16	21-9/16
J1	Depth from back of box to centerline of top vent	7	7	7
J2	Distance from top of standoff to centerline of rear vent	14-3/16	14-3/16	14-3/16
K	Height from the bottom of the box to the gas line opening	2-1/16	2-1/16	2-1/16
L	Depth from the front of the box to gas line opening	11-7/16	11-7/16	11-7/16
М	Depth from rear of box to gas line opening	6	6	6
N	Glass height	20	20	22
0	Glass width	27-1/2	30-1/2	36-1/2
P1	Depth from front of box to centerline of top vent	10-3/4	10-3/4	10-3/4
P2	Distance from bottom of fireplace to centerline of rear vent	24-7/16	24-3/8	26-3/8
Q	Distance from floor to fireplace opening	1-1/4	1-3/16	1-3/16
R	Height from floor to vent collar	35-5/8	35-9/16	37-5/8
S	Overall height to header	38-9/16	38-9/16	40-5/8
Т	Top of Canopy		30-3/8	32-3/8
Х	Corner installation depth	28-1/8	28-5/8	32-5/8
Υ	Corner installation width	56-1/4	59-1/4	65-1/4
Z	Corner installation wall length	39-3/4	41-7/8	46-1/8



CLEARANCES



NOTICE: If applicable, use only non-combustible materials to finish the face of the fireplace.

Combustible Material

No greeting cards, stockings or ornamentation of any type should be placed on or attached to the fireplace or its mantel. The flow of heat can ignite combustibles.

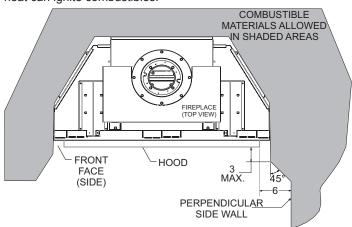
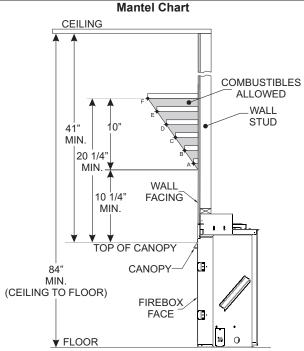


Figure 6

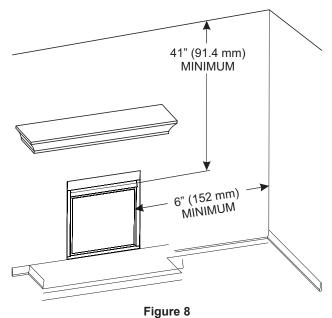


Index Letter	DistanceFrom Wall Facing	Distance From Top of Canopy	
Letter	Dimensions in inches		
Α	2	10-1/4	
В	4	12-1/4	
С	6	14-1/4	
D	8	16-1/4	
Е	10	18-1/4	
F	12	20-1/4	

Figure 7

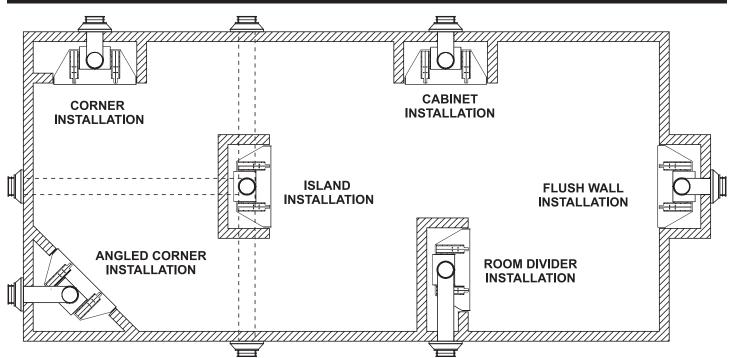
Clearances

Clearance from top of canopy of fireplace to ceiling is 41 inches. Clearance from side of fireplace to adjacent sidewall is 6 inches.



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LOCATING FIREPLACE



NOTICE: Island and room divider installation are possible as long as the horizontal portion of the vent system does not exceed 20 feet with a minimum vertical run of 8 feet. Refer to Venting Section (pages 16 - 27).

Maintain a minimum 6-inch clearance to the perpendicular wall from the front edge of the fireplace.

Figure 9

GAS SUPPLY

The gas pipeline can be brought in through left or right side of the fireplace. Consult the current National Fuel Gas Code, ANSI Z223.1 CAN/CGA-B149 (.1 or .2) installation code.

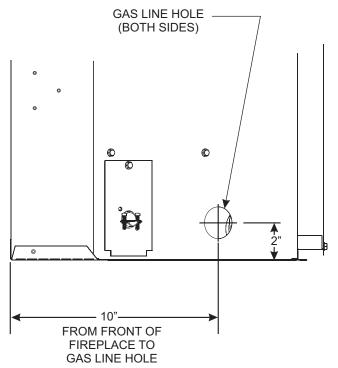


Figure 10

Recommended Gas Pipe Diameter						
	Schedule 40 Pipe Inside Diameter Nat. LP			Type L Diameter		
Pipe Length			Nat.	LP		
		(Dimension	ns in inches)			
0-10 feet	1/2 3/8 1/2 3/8					
10-40 feet	1/2 1/2 5/8 1/2					
40-100 feet	1/2 1/2 3/4 1/2					
100-150 feet	3/4	3/4 1/2 7/8 3/4				

NOTICE: Check to confirm whether your local codes allow copper tubing or galvanized.

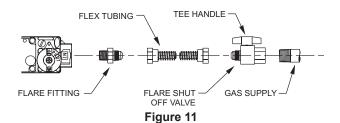
NOTICE: Because some municipalities have additional local codes, consult your local authority and installation code.

The use of the following gas connectors is recommended:

- ANSI Z21.24 Appliance Connectors of Corrugated Metal Tubing and Fittings.
- ANSI Z21.45 Assembled Flexible Appliance Connectors of Other Than All-Metal Construction

The above connectors may be used if acceptable by the authority having jurisdiction. The state of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

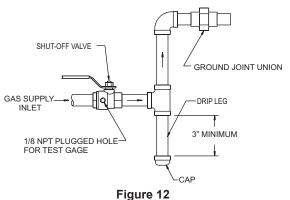
FLEXIBLE GAS LINE CONNECTION



Install a gas valve and ground joint union in the gas line upstream of the gas control to aid in servicing. The National Fuel Gas Code requires installing a drip leg near the gas inlet. The drip leg consists of a vertical length of capped pipe installed before the gas inlet to collect condensation and foreign particles. **See**

Figure 12.

GAS SUPPLY PIPING



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GAS SUPPLY

Installing a New Main Gas Supply Shut-off Valve (Check Local Code)

Each appliance must have its own manual gas shut-off valve located in the vicinity of the fireplace. Where none exists, or where its size or location is not adequate, contact your local authorized installer for replacement or relocation.

Test for leaks. Turn fireplace off. Compounds used on threaded joints of gas piping must be resistant to the action of liquefied petroleum gases. The installer must check all gas connections for leaks. Perform all leak tests with a leak test solution or soap solution. Rinse off all solution once testing is complete. Perform a pressure test on all unexposed connections.

Never use an exposed flame to check for leaks. Never pressure test with fireplace connected; control valve will sustain damage. Disconnect the fireplace from piping at the control valve inlet and cap the pipe before pressure testing.

NOTICE: The millivolt gas controls are equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8 inch test point up stream of the control.

Use only approved fittings with copper or flex connectors.

Disconnect the fireplace and its individual shut off valve from the supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

Close the fireplace manual shut off valve to isolate it from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

A WARNING

If one of the test procedures results in pressures in excess of 1/2 psig (14 inches w.c.) (3.5 kPa) on the fireplace gas valve, it will result in a hazardous condition.

Checking Manifold Pressures

Both Propane and Natural gas valves have a built-in pressure regulator in the gas valve. Natural gas models will have a manifold pressure of approximately 3.5 inches w.c. (.871 kPa) at the valve outlet with the inlet pressure to the valve from a minimum of 4.5 inches w.c. (1.120 kPa) for the purpose of input adjustment to a maximum of 14.0 inches w.c. (3.484 kPa). Propane gas models will have a manifold pressure approximately 10.0 inches w.c. (2.49 kPa) at the valve outlet with the inlet pressure to the valve from a minimum of 10.8 inches w.c. (2.68 kPa) for the purpose of input adjustment to a maximum of 14.0 inches w.c. (3.484 kPa).

	Gas Supply Pressure (inches w.c.)			
	Minimum	Normal	Maximum	
Natural Gas	4.5	7.0	14.0	
LP (Propane)	10.8	11.0	14.0	
	Manifold Pressure (inches w.c.)			
	Normal (HI)			
Natural Gas	3.5			
LP (Propane)	10.0			

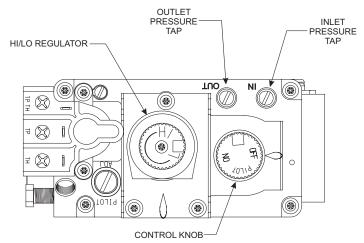


Figure 13 - Millivolt Valve

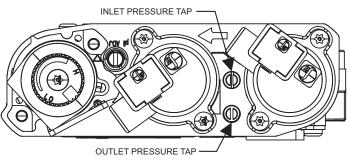


Figure 14 - IP Valve

JUNCTION BOX WIRING (for Optional Blower)

STANDARD MILLIVOLT VALVE MODELS

A CAUTION

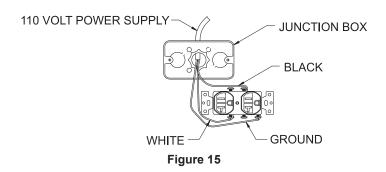
All wiring should be done by a qualified electrician and shall be in compliance with all local, city and state building codes. Before making the electrical connection, make sure that the main power supply is disconnected. The fireplace, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code ANSI/NFPA 70 (latest edition).

A factory installed junction box is located on the lower right side of the fireplace. Wiring must be fed to the junction box and attached to the receptacle that is provided. Leave approximately six inches of wire in the junction box for connection.

Attach black wire to one side of the receptacle and white wire to opposite side of receptacle. The ground wire should be attached to the green (ground) screw.

Install the receptacle into the junction box. Attach cover plate.

JUNCTION BOX CONNECTIONS



INSTALLATION

The fireplace can be mounted on any of the following surfaces:

- 1. A flat, hard combustible (burnable) surface.
- 2. A raised wooden platform.
- Four corner supports. (Example: Four concrete masonry blocks.) These supports must be positioned so they contact all four perimeter edges on the bottom of the fireplace, if allowed by local codes.

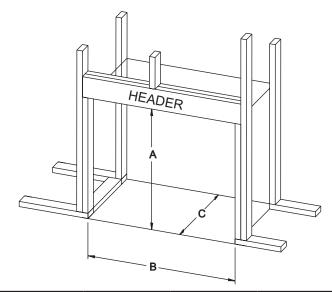
NOTICE: Verify the gas supply and electrical considerations before beginning the framing.

Framing Information

Fireplace framing can be built before or after the fireplace is set in place. Posistion framing to accommodate wall covering and fireplace facing material. Construct the fireplace framing with 2 x 4 lumber or heavier. The framing headers or top plate may rest on the fireplace standoffs. Refer to **Figure 16** for minimum framing dimensions.

A CAUTION

Before construction begins, measure fireplace dimensions and verify framing methods and wall covering details.



Dimensions (in inches)				
DVCD32 DVCD36 DVCD42				
А	38-7/8	38-7/8	40-7/8	
В	34-5/8	37-9/16	43-5/16	
С	18	18	18	

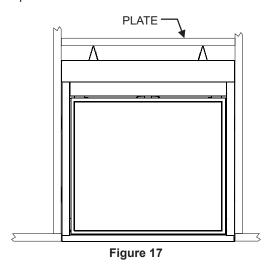
Figure 16

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INSTALLATION

Frame the Fireplace Opening

- 1. Choose fireplace location.
- 2. Frame in fireplace opening with a plate across the top. It is important to allow for the finished fireplace face when setting the depth of the frame.



3. Bend the nailing flanges 90 degrees.

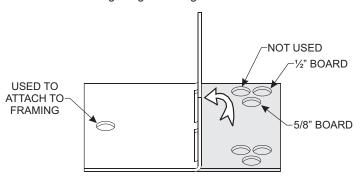


Figure 18

4. Attach fireplace to frame using adjustable nailing flanges. Set the nailing flange depth to suit the wall material (adjustable to 1/2 or 5/8 inch).

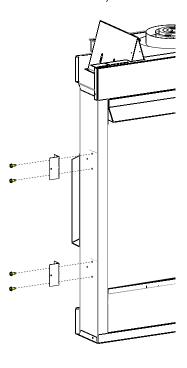
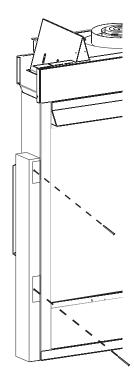


Figure 19

- 5. Secure the nailing flanges to the fireplace with #10 x ½ inch screws (provided).
- 6. Secure the nailing flanges to the framing with nails or other suitable fasteners (not provided). **See Figure 20.**



NAIL OR OTHER SUITABLE FASTENER

Figure 20

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INSTALLATION

Install the Canopy

- 1. Retrieve canopy from the opening above the glass door.
- 2. Place the canopy above the firebox as shown in **Figure 21**. **NOTICE**: Fireplace heat shield will rest on top of the combustion chamber inside of the open area between the top flue and canopy.
- Secure the canopy with two #8-18 x 1/2 inch pan head screws provided in the hardware pack. See Figure 21.

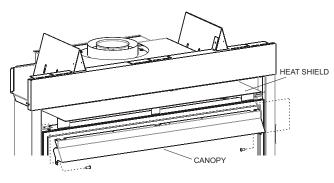


Figure 21

Finishing

Figure 7 on page 10 shows the minimum vertical and corresponding maximum horizontal dimensions of mantels or other combustible projections above the top front edge of the fireplace.

Only non-combustible materials may be used to cover the black fireplace face.

A WARNING

Never obstruct or modify face of the fireplace. Improper installation may cause a hazardous situation.

A CAUTION

A 300°F minimum sealant material must be used if the joints between the finished wall and the fireplace surround (top and sides) are sealed. These joints are not required to be sealed. Only non-combustible material (use if needed), can be applied to the fireplace surround. Consequences: Failure to use the 300°F minimum adhesive may allow the finishing material to fall.

NOTICE: For finishing to top of fireplace, refer to Figure 5, page 10.

VENT PIPE CLEARANCE

NOTICE: Maintain one inch of clearance to combustibles around vertical vent pipe. **See Figure 22.** For horizontal vent systems, maintain a minimum 1-inch clearance from the bottom and sides of the vent to combustibles and a 3-inch clearance above the vent pipe above the vent pipe to combustibles. **See Figures 23 and 24.**

Cold Climate Installation Recommendation: Insulate the outer walls to conform with applicable insulation codes if installing this fireplace against a non-insulated exterior wall.

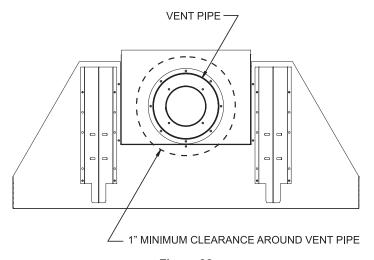


Figure 22

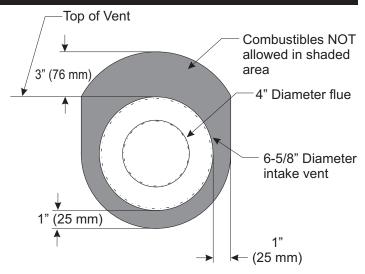
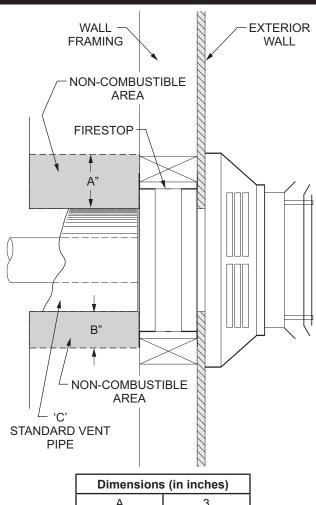


Figure 23 - Hard Pipe Vent Clearance

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VENT PIPE CLEARANCE



Dimensions (in inches)				
A 3				
B 1				
Figure 24				

Vertical, 90° Elbow with Horizontal Termination

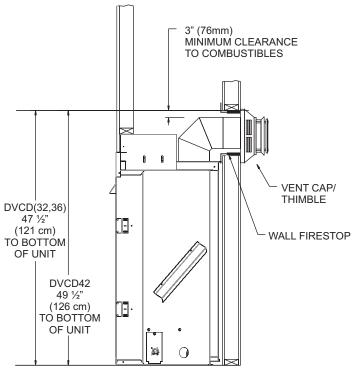
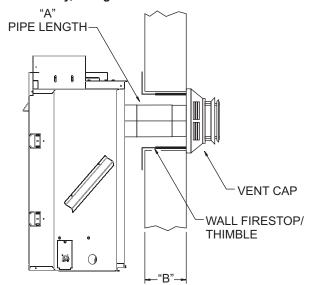


Figure 25

Horizontal Only, Straight Out the Back

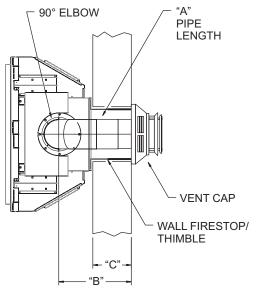


Dimensions (inches)		Models
Α	В	
6	5-1/8 to 6-1/2	DVCD(32,36,42)
9	8-1/8 to 9-1/2	DVCD(32,36,42)
12	11-1/8 to 12-1/2	DVCD(32,36,42)

Figure 26

VENT PIPE CLEARANCE

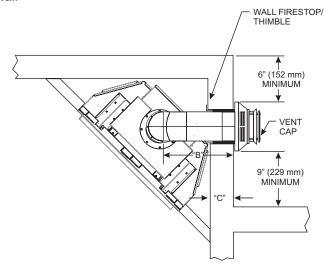
Vertical, 90° Elbow to Horizontal Out the Wall



Dimensions (inches)			
A B C			
6	11-1/4 to 12-3/4	4-3/4 to 6-1/4	
9	14-1/4 to 15-3/4	7-3/4 to 9-1/4	
12	17-1/4 to 18-3/4	10-3/4 to 12-1/4	

Figure 27

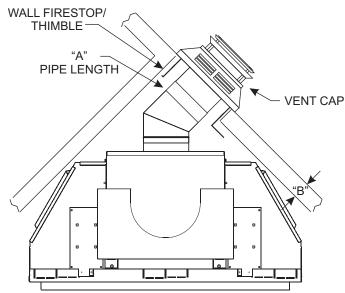
Corner Installation Vertical, 90° Elbow to Horizontal Out the Wall



Dimensions (inches)			
В			С
DVCD32	DVCD36	DVCD42	DVCD(32,36,42)
17-1/16 to	18-1/16 to	20-3/16 to	4-3/4 to 6-1/4
18-9/16	19-9/16	21-11/16	
20-1/16 to	21-1/16 to	23-3/16 to	7-3/4 to 9-1/4
21-9/16	22-9/16	24-11/16	
23-1/16 to	24-1/16 to	26-3/16 to	10-3/4 to 12-1/4
24-9/16	25-9/16	27-11/16	

Figure 28

Corner Installation Horizontal, 45° Elbow to Horizontal Out the Wall



Reference	DVCD32	DVCD36	DVCD42
Letter	Dimension (inches)		
А	В	В	В
6	4 to 5-1/2	4 to 5	N/A
9	6 to 7-1/2	6 to 7-1/2	4 to 5-1/2
12	9 to 10-1/2	9 to 10-1/2	9 to 10-1/2

Figure 29

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To Use the Vent Graph

- Determine the height of the center of the horizontal vent pipe.
 Using this dimension on the Sidewall Vent Graph, locate the
 point it intersects with the slanted graph line.
- From the point of this intersection, draw a vertical line to the bottom of the graph.
- Select the indicated dimension, and position the unit in accordance with same.

EXAMPLE A:

If the vertical dimension from the floor of the unit is 35 feet, the horizontal run to the outer wall flange must not exceed 6.5 feet.

EXAMPLE B:

If the vertical dimension from the floor of the unit is 6.5 feet, the horizontal run to the outer wall flange must not exceed 14.5 feet.

SPECIAL NOTE: For each 45 degree elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18" (457 mm). This does not apply if the 45 degree elbows are installed on the vertical part of the vent system. Reduce 3' for every 90° elbow.

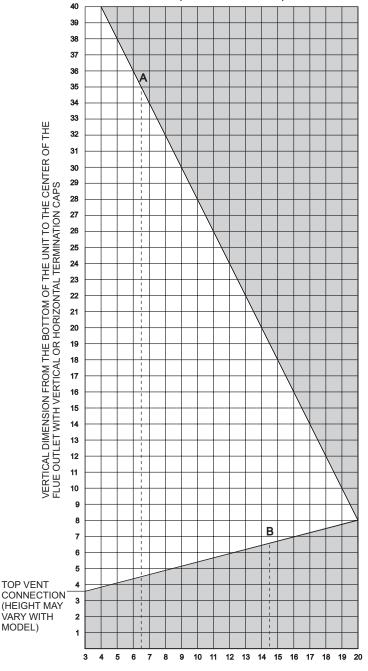
Example: According to the chart the maximum horizontal vent length is 20' and if two 45 degree elbows are required in the horizontal vent it must be reduced to 17'.

The maximum number of 45 degree elbows permitted per side wall installation is two (2). These elbows can be installed in either the vertical or horizontal run.

NOTICE: The first elbow off the top of the fireplace is figured into the chart.

Venting Graph (Dimensions in Feet)

TOP EXIT - VERTICAL AND HORIZONTAL TERMINATION (DIMENSIONS IN FEET)



Acceptable vertical and horizontal vent run.
(40' maximum vertical and 20' maximum horizontal)

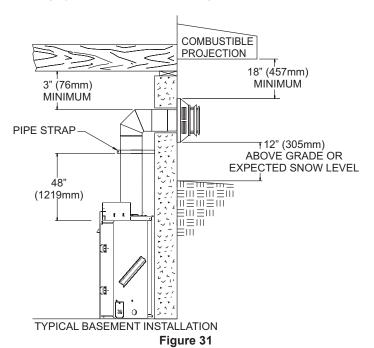
Unacceptable vertical and horizontal vent run.

Figure 30

Below Grade Installation

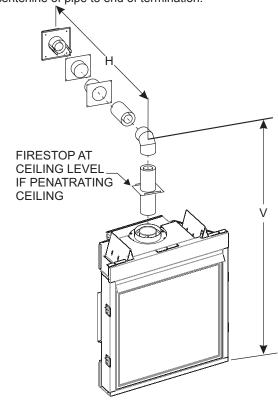
Empire recommends installing a snorkel kit when it is not possible to meet the required vent terminal clearances of 12 inches (305 mm) above grade level. A snorkel kit allows an installation depth down to 7 inches (178 mm) below grade level. The 7 inches (178 mm) is measured from the center of the horizontal vent pipe as it penetrates through the wall.

Ensure the sidewall venting clearances are observed. Empire recommends installing a window well with adequate and proper drainage around the termination area if the venting system is installed below ground.



Example of possible venting systems using one 90° elbow. Eight feet is listed as minimum vertical vent run with 20 feet of maximum horizontal vent run. Vertical dimensions are based on centerline to centerline of pipe. Horizontal dimensions are based

on centerline of pipe to end of termination.



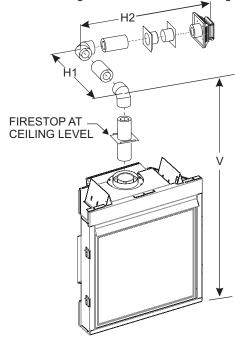
SEE GRAPH FOR PERMISSIBLE "H" AND "V" DIMENSIONS Figure 32

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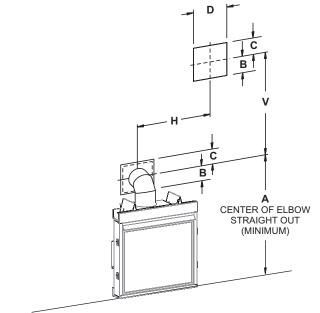
Example of possible venting systems using two 90° elbows.

V is listed as minimum vertical dimensions and H1 + H2 is listed as total of maximum horizontal dimensions. The maximum vertical and horizontal distances for two 90° elbows as shown in Figure 33 is 20 feet (6.1 m).

Attention: Refer to Figure 30 for additional venting requirements.



SEE GRAPH FOR PERMISSIBLE "H" AND "V" DIMENSIONS NOTE: H1 AND H2 MUST BE ADDED TOGETHER TO USE CHART Figure 33



FIREPLACE	HARD ELBOW Dimensions (inches)			
SERIES	A B C D			D
DVCD32FP	41-1/2	4	6	9-1/8
DVCD36FP	41-1/2	4	6	9 1/8
DVCD42FP	43-1/2	4-1/2	6-1/2	9 1/8

FIREPLACE SERIES	FLEX PIPE 90 DEGREE BEND Dimensions (inches)			
SERIES	A B C D			
DVCD32FP	43	4-1/2	6-1/2	9-1/8
DVCD36FP	43	4-1/2	6-1/2	9-1/8
DVCD42FP	45	4-1/2	6-1/2	9-1/8

Minimum hole location dimensions for through the wall horizontal installations with 90 degree elbow off top of fireplace.

See Figure 30 on page 19 for permissible "H" and "V" dimensions.

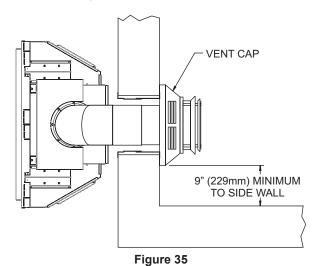
Figure 34

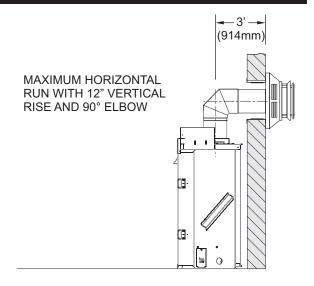
Position the Fireplace

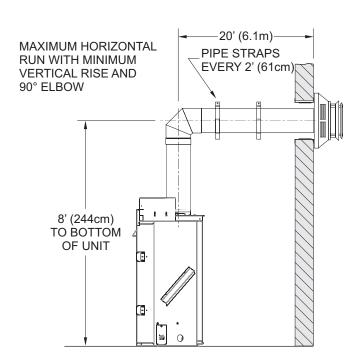
If possible, position the fireplace so the direct vent termination will be centered between two studs. This will avoid any extra framing. All vent kit pipes should be assembled on the fireplace after the fireplace is moved into the final position.

Cut the Hole

The hole through the exterior wall of the house can be cut after the fireplace has been positioned in its permanent location. This hole must be 10 inches high x 10 inches wide with its center line determined by the amount of vertical rise and horizontal run of the termination. **See Figure 34 on page 21.** The bottom of the cap must be 12 inches above the ground level, and top of the cap must be no less than 18 inches below a combustible projection, and no closer than 9 inches to any wall running parallel to vent termination. See Figure 35.







(NOTE: STANDOFFS REMOVED FOR CLARITY)
Figure 36

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VENTING FIREPLACE - TOP (EXAMPLES)

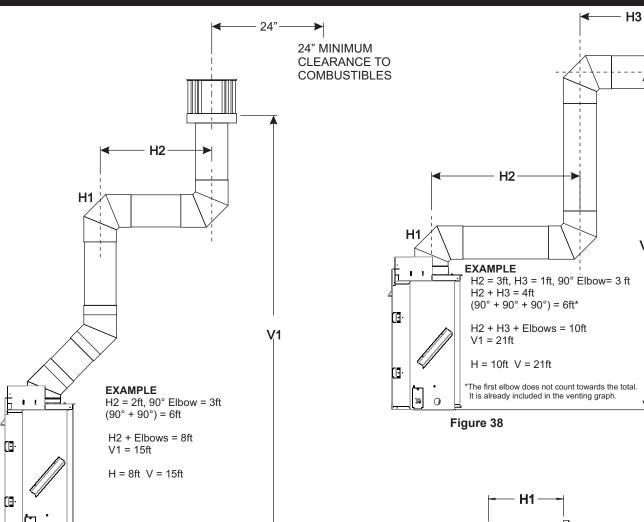


Figure 37

EXAMPLE
H1 = 2ft
V1 = 20ft
H=2ft V = 20ft
Figure 39

VENTING FIREPLACE - REAR

To Use the Vent Graph

- Determine the height of the center of the horizontal vent pipe. Using this dimension on the Sidewall Vent Graph, locate the point it intersects with the slanted graph line.
- 2. From the point of this intersection, draw a vertical line to the bottom of the graph.
- Select the indicated dimension, and position the unit in accordance with same.

EXAMPLE A:

If the vertical dimension from the floor of the unit is 12 feet, 4 inches the horizontal run to the outer wall flange must not exceed 12 feet, 3 inches.

EXAMPLE B:

If the vertical dimension from the floor of the unit is 6 feet, 9 inches, the horizontal run to the outer wall flange must not exceed 6 feet, 6 inches.

SPECIAL NOTE: For each 45 degree elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18 inches (457 mm). This does not apply if the 45 degree elbows are installed on the vertical part of the vent system. Reduce three feet for every 90° elbow.

Example: According to the chart the maximum horizontal vent length is 20 feet and if two 45 degree elbows are required in the horizontal vent it must be reduced to 17 feet.

The maximum number of 45 degree elbows permitted per side wall installation is two. These elbows can be installed in either the vertical or horizontal run.

NOTICE: When rear venting unit, adjust air shutter according to the table below.

Acceptable vertical and horizontal vent run.

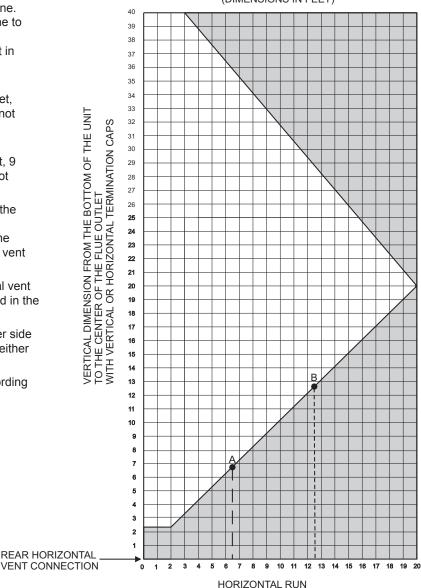
Unacceptable vertical and horizontal vent run.

Air Shutter Openings (dimensions in inches)				
Model	Gas Type			
DVCD32	1/16	1/8 to 3/16	Natural	
DVCD36	1/16	1/8 to 3/16	Natural	
DVCD42	3/16	1/4 to 5/16	Natural	
DVCD32	1/4	5/16 to 3/8	LP	
DVCD36	5/16	3/8 to 7/16	LP	
DVCD42	5/16	3/8 to 7/16	LP	

Table 1

Venting Graph (Dimensions in Feet)

TOP EXIT- VERTICAL AND HORIZONTAL TERMINATION (DIMENSIONS IN FEET)



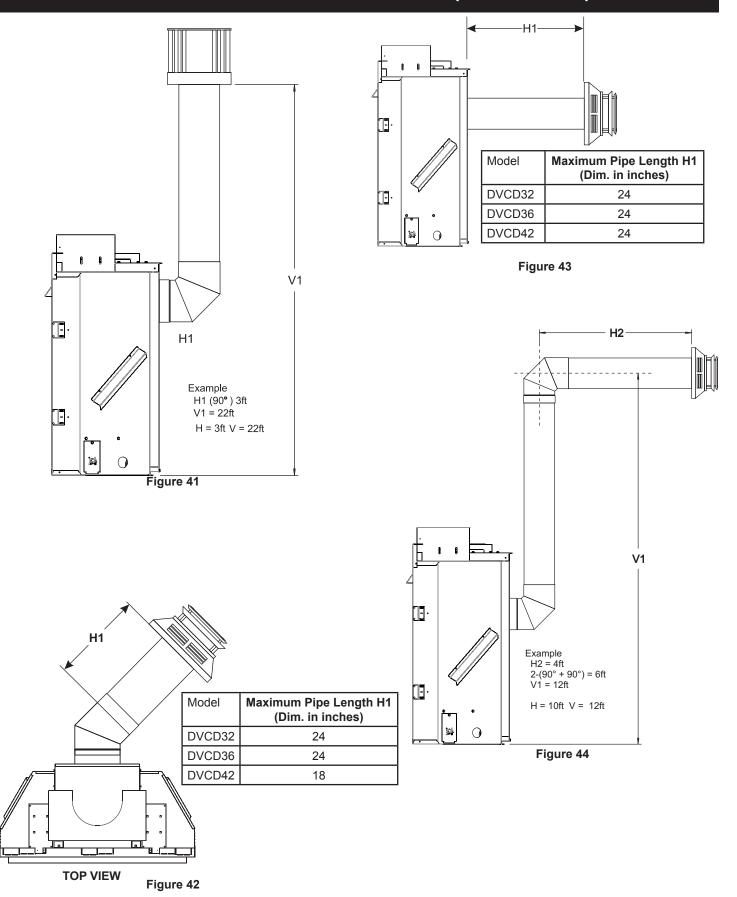
Note: When rear venting unit, adjust air shutter according to the requirements in **Table 1**.

Adjust air shutter from 1/4" open to between 5/16" and 3/8" for LP gas.

Figure 40

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VENTING FIREPLACE - REAR (EXAMPLES)



REAR VENT CONVERSION

Convert flue take-off to rear venting

When switching out the flue and inlet vent collars to run horizontally off the rear vent, the following steps must be taken.

- Remove the inlet vent collar (eight #10 hex head screws) and flue collar (four #10 hex head screws) from the top of the fireplace. Retain vent and flue collars and hardware for re-installation.
- 2. Remove the inlet vent cover plate and flue cover plate from the rear of the fireplace.
- Insert the insulation retainer bracket and flue insulation into the top flue pipe before reinstalling the flue cover plate over the top flue with four#10 hex head screws.
- 4. Re-install the inlet vent cover plate over the top inlet opening with eight #10 hex head screws. **See Figure 45.**
- Install the flue collar assembly to the rear flue with four #10 hex head screws removed in Step 1.
- 6. Install the inlet vent collar to the rear of the fireplace with the eight #10 hex head screws removed in Step 1.
- 7. This completes the conversion for a rear vent application.

ATTENTION

- Discard insulation and retainer when venting off top of fireplace.
- Pull the flue cover plate tab outward prior to removal.
 This will ensure the plate does not drop inside the rear air chamber.

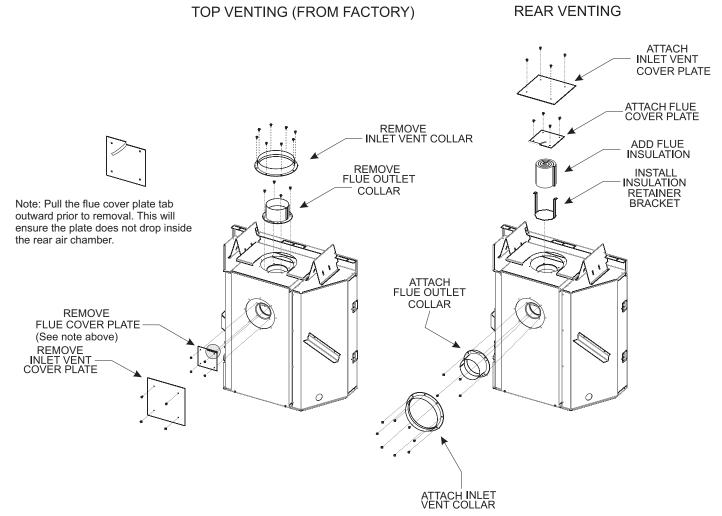
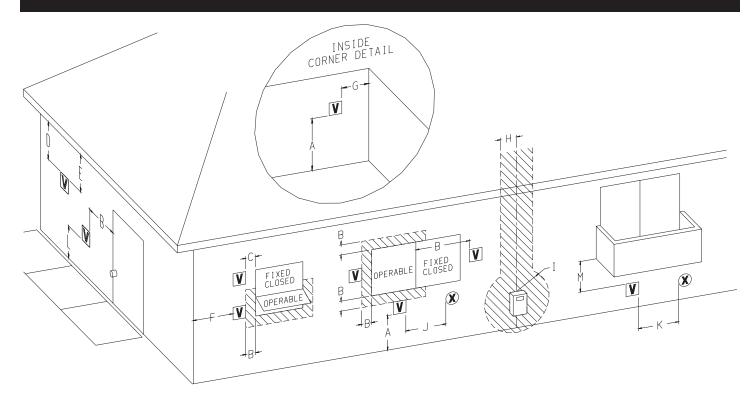


Figure 45

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VENT CLEARANCES





VENT TERMINAL



X AIR SUPPLY INLET



AREA WHERE TERMINAL IS NOT PERMITTED

$\overline{}$	
Canadian Installations1	US Installations2
12 in (30 cm)	12 in (30cm)
12 in (30 cm) for appli- ances > 10,000 Btuh (3 kW) and ≤ 100,000 Btuh (30 kW)	9 in (23 cm) for appli- ances > 10,000 Btuh (3 kW) and ≤ 50,000 Btuh (15 kW)
12 in (30 cm)	12 in (30 cm)
18 in (45 cm)	18 in (45 cm)
12 (30 cm)	12 (30 cm)
See page 30	See page 30
See page 30	See page 30
3 ft (91 cm) within a height 15 ft (4.5 m) above the meter/regula- tor assembly	3 ft (91 cm)
	12 in (30 cm) 12 in (30 cm) for appliances > 10,000 Btuh (3 kW) and ≤ 100,000 Btuh (30 kW) 12 in (30 cm) 18 in (45 cm) 12 (30 cm) See page 30 See page 30 3 ft (91 cm) within a height 15 ft (4.5 m) above the meter/regula-

ATTENTION: Vinyl Soffit, Vinyl Ceiling, Vinyl Overhang Disclaimer

Clearances are to heat resistant material (i.e. wood, metal). This does not include vinyl. Empire Comfort Systems will not be held responsible for heat damage caused from terminating under vinyl overhangs, vinyl ceilings or vinyl ventilated/ unventilated soffits.

	Canadian Installations1	US Installations2	
I= Clearance to service regulator vent outlet	3 ft (91 cm)	3 ft (91 cm)	
J= Clearance to nonme- chanical air supply inlet to building or the combustion air inlet to any other appliance	12 in (30 cm) for appli- ances > 10,000 Btuh (3 kW) and ≤ 100,000 Btuh (30 kW)	9 in (23 cm) for appli- ances > 10,000 Btuh (3 kW) and ≤ 50,000 Btuh (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) hori- zontally	
L= Clearance above paved sidewalk or paved drive- way 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)	
1 In accordance with the lation Code	1 In accordance with the current CSA B149.1, Natural Gas and Propane Installation Code		
2 In Accordance with the Code	2 In Accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code		
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.

For clearances not specified in ANSI Z223.1/NFPA 54 or CSA B149.1: Clearance must be in accordance with local installation codes and the requirements of the gas

FRAMING AND FINISHING

Install Support Brackets

A horizontal pipe support MUST BE used for each 3 feet of horizontal run. Place the pipe supports around the pipe and nail in place to framing members. There MUST BE a 3-inch clearance to combustibles above 6-5/8 inch diameter pipe and elbows and 1-inch clearance on both sides and bottom of 6-5/8 inch pipe to combustibles on all horizontal pipe sections and elbows. Support vertical runs of this vent system every 4 feet above the fireplace flue outlet with wall brackets attached to the 6-5/8 inch vent pipe and secure with nails or screws to structural framing members.

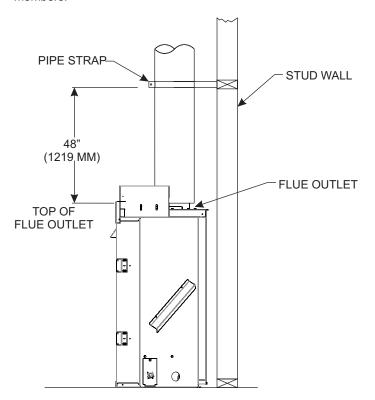


Figure 46

Install Firestops

Firestops are required for safety whenever the vent system passes through an interior wall, an exterior wall, or a ceiling. These firestops act as a firebreak heat shield and as a means to insure that minimum clearances are maintained to the vent system.

Horizontal Firestops

Firestops are required on both sides of any interior or exterior wall the horizontal runs of the vent system pass through. Position the firestops on both sides of the framed hole, previously cut. Secure firestop with nails or screws. The heat shields of the firestops MUST BE placed towards the top of the hole. Continue the vent run through the firestops.

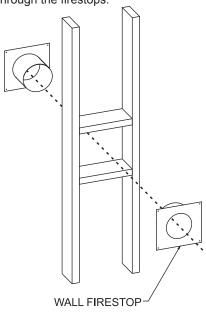


Figure 47

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FRAMING AND FINISHING

Vertical Firestops

Vertical runs require the use of one ceiling firestop at each ceiling hole through which the venting passes.

Position a plumb bob directly over the center of the vertical vent component and mark the ceiling to establish the center point of the vent. Drill a hole or drive a nail through this center point and check the floor above for any obstructions such as wiring or plumbing runs. Reposition the fireplace and vent system if necessary to accommodate ceiling joists and/or obstructions. Cut a 10 inch x 10 inch hole through the ceiling, using the center point previously marked. Frame the hole with framing lumber the same size as the ceiling joists. **See Figure 48.** If the area above the ceiling is NOT an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole. **See Figure 49.** If the area above the ceiling is an attic, position and secure the firestop on top of the previously framed hole. **See Figure 50.**

NOTICE: Remove insulation from the framed area in the attic before installing the firestop and/or vent pipes.

See Horizontal Termination Page 31 and Vertical Termination Pages 32 - 33.

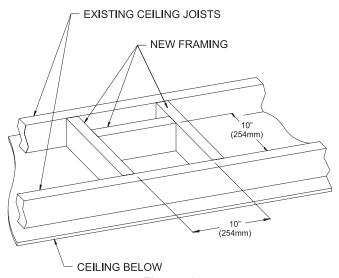


Figure 48

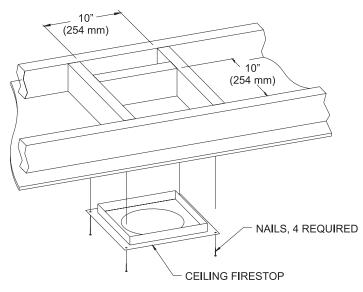


Figure 49

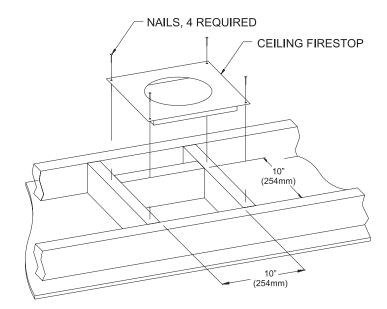


Figure 50
See Horizontal Termination Page 31 and Vertical Termination Pages 32 - 33.

TERMINATION CLEARANCES

Termination clearance for buildings with combustible and noncombustible exteriors.

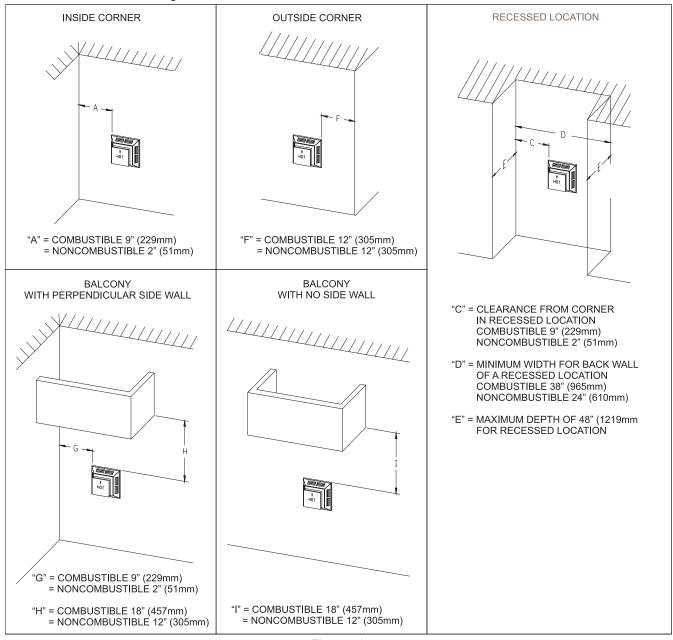


Figure 51

Vertical Sidewall Installations

Important! Minimum clearance between vent pipes and combustible materials is 3 inches on top, and 1 inch on bottom and sides.

Important! When vent termination exits through foundation less than 20 inches below siding outcrop, the vent pipe must extend outward so that the horizontal vent terminal is located flush to, or beyond the outcrop siding.

Information on Various Venting Routes and Components

Important: It is always best to locate the fireplace in such a way that minimizes the number of offsets and horizontal vent length.

Since it is very important that the venting 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 graph showing the relationship between vertical and horizontal side wall venting will help to determine the various vent lengths allowable.

The horizontal vent run refers to the total length of vent pipe from the flue collar of the fireplace to the face of the outer wall.

The maximum horizontal vent run is 20 feet (6.10 m) when the vertical vent rise is 8 feet (2.44 m). See Figure 32 on page 20.

Venting terminals shall not be recessed into wall or siding.

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HORIZONTAL TERMINATION

NOTICE: The termination cap must pass through the wall firestop from the exterior of the building. Adjust the termination cap to its final exterior position on the building.

A CAUTION

The termination cap must be positioned so that the arrow is pointing up. Failure to properly position the parts may result in a hazardous situation.

Attach the termination cap with the four wood screws provided. Before attachment of the termination, run a bead of silicone sealant rated above 250°F on its outside edge to make a seal to the exterior wall.

A CAUTION

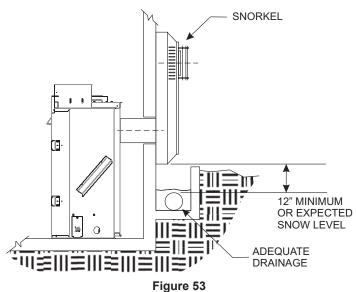
Replace the wood screws with the appropriate fasteners for use on stucco, brick, concrete or other types of siding. Failure to use the proper fasteners may result in a hazardous situation.

A CAUTION

Install a vinyl siding standoff if the exterior walls are finished with vinyl siding or materials that could become discolored or warp.

Install the vinyl siding standoff between the vent termination and the exterior wall. **See Figure 52.** This horizontal vent termination bolts onto the flat portion of the vinyl siding standoff, so an air space will exist between the wall and the termination cap.

Snorkel terminations are available for installations requiring a vertical rise of the building. See Figure 53. Provide proper drainage to prevent water from entering the snorkel termination if it will be installed below grade (i.e. in a basement). Refer to Figure 54. Do not attempt to enclose the Snorkel within the wall or any other type of enclosure.



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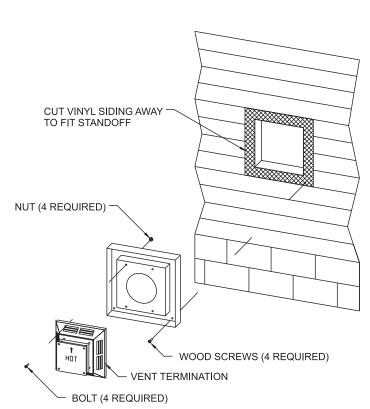
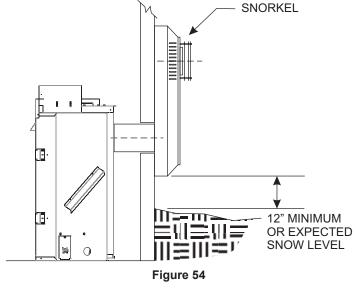


Figure 52



VERTICAL TERMINATION

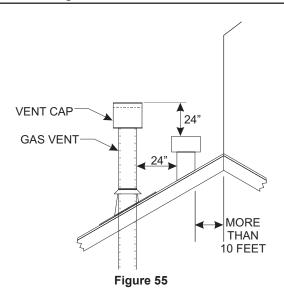
Determine Minimum Vent Height Above the Roof.

Locate and mark the center point of the vent pipe using a nail on the underside of the roof. Drive the nail through the center point. Mark the outline of the roof hole around this center point.

NOTICE: Size of the roof hole dimensions depend on the pitch of the roof. There must be a 1 inch clearance (25 mm) to the vertical pipe sections. This clearance is to all combustible material. Cover the opening of the vent pipe and cut and frame the roof hole. Use framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to frame must withstand high winds. The storm collar is placed over this joint to make a water-tight seal. Non-hardening sealant should be used to completely seal this flashing installation.

MARNING

Major U.S. building codes specify minimum chimney and/or vent height above the roof top. These minimum heights are necessary in the interest of safety. These specifications are summarized in **Figure 55**.



Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining roof lines, steep pitched roofs, and other similar factors can result in poor draft, or down-drafting. In these cases, increasing the vent height may solve this problem.

General Maintenance

Conduct an inspection of the venting system semi-annually.

- Check any areas of the venting system exposed to the elements for corrosion. Corrosion will appear as rust spots or streaks and, in extreme cases, holes .Immediately Replace any components that show signs of corrosion.
- Remove the cap and shine a flashlight down the vent. Remove any foreign material.
- 3. Check for evidence of excessive condensate, such as water droplets forming in the inner liner and subsequently dripping out at joints. Condensate can cause corrosion of caps, pipe and fittings. Excessive condensate may be caused by having excessive lateral runs, too many elbows and exterior portions of the system being exposed to cold weather.
- Inspect joints to verify that no pipe sections or fittings have been disturbed or loosened. Check mechanical supports, such as wall straps or plumbers' tape for rigidity.

Do not recess venting terminations in a wall or siding. Provide a removable panel or other inspection means in the enclosure for visual inspection of the flue connection.

NOTICE: This also pertains to vertical vent systems installed on the outside of the building.

Slide the vertical vent cap over the ends of the vent pipe and secure. **See Figure 57 on page 33.**

Install the Vent System in a Chase

A chase is a vertical box-like structure built to enclose the gas fireplace and/or its vent system. Vertical vent runs on the outside of a building may be, but are not required to be installed inside a chase.

A CAUTION

Treatment of firestop spacers and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, your local building codes must be checked to determine the requirements for these steps.

NOTICE: It is always good building practice to insulate the chase as you would the outside walls of the home. This is especially important for cold climate installations. Install the vent system by following the instructions in this manual after completion of the chase framing. Build the chase large enough so the minimum clearance of combustible materials (including insulation) to the vent system are maintained.

Installation of Vertical Inlet Baffle

Use the vertical inlet baffle only in a completely vertical vent installation. The vertical inlet baffle can be used when the vertical vent rise is between 10 feet and 40 feet. **For Simpson Duravent installations only**: To maintain the yellow flame in the main burner, purchase Vertical Inlet baffle from your Empire Comfort Systems dealer.

In a vertical vent rise, the rear (yellow) flame on the main burner can be reduced due to the drawing action from the flue exhaust pipe and the air inlet pipe. A decrease in the height or the appearance of the yellow flame may occur when the vertical vent rise is between 10 feet and 40 feet. To enhance the yellow flame on the main burner, the vertical inlet baffle can be attached to the direct vent high wind vertical cap.

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VERTICAL TERMINATION

Install the vertical inlet baffle

- Place the vertical inlet baffle over the exterior of the air inlet openings on the direct vent high wind vertical cap.
- There are three sections of air openings on the exterior of the air inlet pipe.
 - To achieve the maximum amount of yellow flame the vertical inlet baffle will cover-up three sections of air openings. To achieve the minimum amount of yellow flame the vertical inlet baffle will cover-up one section of air openings.
- Attach vertical inlet baffle to the direct vent high wind vertical cap with two 3/8-inch hex-head screws provided with vertical inlet baffle.
- Installation of vertical inlet baffle is completed.

Parts List

Description	Part Number	Quantity Supplied
Vertical Inlet Baffle	DVF-139	1
3/8-inch Hex-Head Screw	R-2656	2

Reassemble and Reseal Vent Pipe System

Attach the vent pipe to the inlet and outlet vent adaptor on the fireplace in either the vertical or horizontal position. Replace horizontal and vertical pipe lengths, elbows and horizontal or vertical termination kit.

Each vent section has four equally spaced interior ridges on one end and four equally spaced recesses on the other. Align the interior ridges on one section with the recesses on the fireplace collar or previously installed vent section and slide the unattached vent section over the other vent section. Rotate the newly attached vent section clockwise approximately 45 degrees to lock the vent section into place. Continue replacing components per the vent system configuration. Be certain that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.

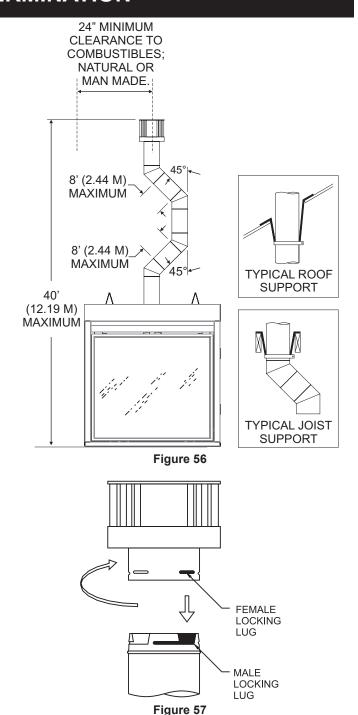
Reassemble and Reseal Gas Accumulation Relief System Glass Frame Assembly and Combustion Chamber

The glass frame assembly gaskets and combustion chamber must be examined by a qualified service person for damage when the glass frame assembly is pivoted open by a delayed ignition in the main burner. All damaged gaskets on the glass frame assembly and combustion chamber must be replaced by a qualified service person. If damage occurs to the combustion chamber, it must be replaced by a qualified service person. Contact your Empire Dealer for replacement parts.

Vertical Through the Roof Applications

Your Gas Fireplace has been approved for:

- a) Vertical installations up to 40 feet in height.
- b) Two sets of 45 degree elbow offsets within these vertical installations. From 0 to a maximum of 8 ft. a vent pipe can be used between elbows.
- c) Wall straps must be used to support offset pipe every 4 feet. This application will require that you first determine the roof pitch and use the appropriate venting components.



DVVK-4F FLEX VENT INSTRUCTIONS

A CAUTION

Sharp edges. To avoid injuries, wear safety gloves when handling the flex vent components.

The **DVVK-4F FLEX VENT KIT** includes the following components:

- (1) Horizontal Termination Cap
- (1) 4-foot section of Flex vent with spacers (4" flue/7" outer pipe)
- (1) 4-inch diameter Flue adapter collar
- (1) 7-inch diameter Outer Vent adapter collar
- (1) Wall Firestop/Thimble Assembly
- Hardware pack that includes band clamps and screws

Flex venting can be installed either vertically or horizontally off of the DVCD Series fireplaces. When installing a horizontal vent run from top connections, maintain at least ½ inch rise for every 12 inches of vent run. When venting horizontal off the rear vent connections, allow a minimum rise of 2 inches. Refer to Figure 52 when mounting termination near vinyl siding.

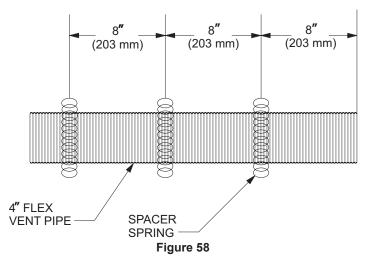
Attention: Always stretch and secure venting with wire or metal strapping to ensure that the horizontal runs do not sag. If space permits, it is generally easier to attach venting in the top vent configuration.

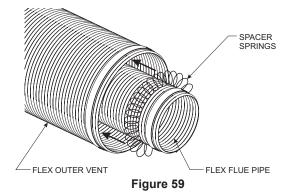
Vent connections should overlap a minimum of 1 inch for proper sealing.

Always follow the general venting requirements for vent terminal location, vent lengths, and clearance to combustible materials.

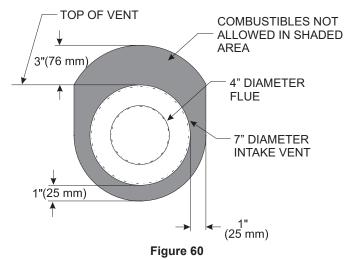
INSTALLATION

- Unpack vent components and check that all items are included.
- 2. Verify the spacer springs are located around the flue vent at 8-inch intervals along its length. See Figures 58 and 59. If the spacer springs are not installed, stretch the spacer springs to about 15 inches long and wrap them around the flue, then interlock the ends of each spring at 2 inches. Maintain equal distance between spring spacers.





- Remove the 6-% inch diameter Vent collar from the fireplace.
 Replace this collar with the 7 inch diameter Flex Vent adapter collar provided with the vent kit.
- 4. Slide the Flex Vent flue pipe into the Outer Flex Vent pipe.
- 5. Install the Wall Firestop/Thimble assembly as required through the wall. Refer to the venting charts in the fireplace manual to determine the proper height and size of the vent opening. The minimum opening should be 9 inches wide by 11 inches high. The minimum combustible clearance from the horizontal vent is 1 inch from sides and bottom, and 3 inches above the vent pipe. See Figure 60.



- In most cases, after determining the length of the vent that is needed, it may be easier to install the flue and outer vent pipes to the Termination Cap first, then from the outside, feed the venting through the wall to the fireplace.
- 7. If the venting is to long, trim off any excess vent before attaching the vent end connectors.

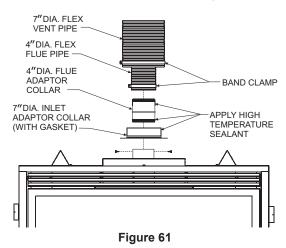
A CAUTION

Do not use force when installing the Horizontal Vent Termination into the flex venting. Always stretch venting out first, then cut off excessive vent material prior to sliding the vent termination into the flue and inlet venting. Forcing the termination cap into the flex venting will deform the flue venting, which will restrict the exhaust gases, and cause improper operation of the fireplace.

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DVVK-4F FLEX VENT INSTRUCTIONS

- 8. Attach the Termination Cap to the outside of the house.
- Prior to making the vent connections, apply high temperature sealant (1000 degree F min.) to the vent connections before securing with the band clamps provided. Note: the flue pipe end without the adapter is to be installed to the Termination Cap.
- 10. Apply sealant to the outside of the flue pipe adapter and connect to the flex flue pipe. Then insert the adapter into the fireplace flue. Secure flue adapter to the fireplace flue with a minimum of two screws provided. See Figure 61.



- 11. Attach the Outer Vent pipe to the 7-inch diameter Collar on the fireplace with a large band clamp provided. Sealant may also be used on the outer vent connections.
- Check all vent connections for tightness. Make sure horizontal venting has the proper rise and combustible clearances required. Refer to venting charts in fireplace instruction manual.

DVVK-4RE VENT KIT INSTALLATION INSTRUCTIONS

A CAUTION

Sharp edges. To avoid injuries, wear safety gloves when handling the vent components.

Tools Needed for Installation: Sheet metal snips 5/16" nut driver

Phillips head screwdriver - #2

High temperature sealant or furnace cement rated for continuous use at 1,000°F minimum

Measuring tape

Parts Verification

See parts list on page 38 to verify components included in this vent kit prior to installation.

NOTE: Use Vinyl Siding Vent Kit DV-822 if installing the vent kit onto wood, lap, or vinyl siding. DV-822 is available from Empire Comfort Systems, Inc. The depth is 3 inches, which enables the vent cap to be extended away from vinyl siding or projections. The wall depth plus the additional 3 inches depth of the vinyl siding vent cap extension should not exceed a total depth of 13-3/4 inches.

If wall depth exceeds 13-3/4 inches, extend system using 6-5/8 x 4-inch rigid venting (See Fireplace Instructions for approved lengths). **See Figure 63.**

Installing Wall Thimble/Firestop Assembly

- Fix fireplace to permanent location. If using rigid venting system, install up to the location where it will exit the building.
- 2. Cut hole in wall for wall thimble/firestop assembly (**Figure 62**) into your combustible wall. Note: On brick or block exterior wall a 7-inch diameter hole needs to be cut.

 Measure the total wall thickness to determine whether or not the extension thimble is to be used. If the combustible wall depth is over 5-3/8 inches, then the extension thimble should be used (**Figure 62**).
- Install the wall thimble assembly through the framed opening so the firestop plate is on the interior wall (Figure 62).
 Telescope section should extend all the way through the exterior wall. Attach with four 10 x 1 inch screws.
- When placing the vent cap on an exterior wall covered with combustibles such as wood, lap, or vinyl siding, install the vinyl siding kit to the exterior wall sheathing.

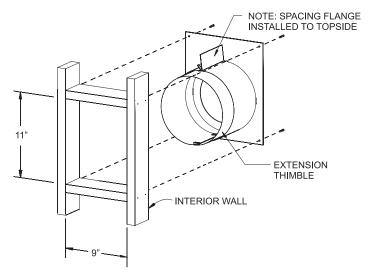


Figure 62

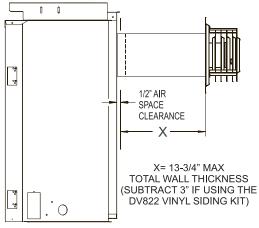


Figure 63

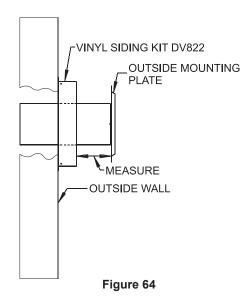
Cutting Vent Tubes

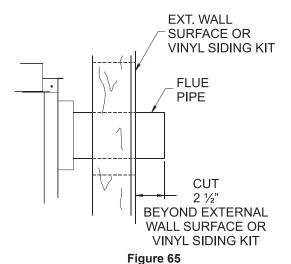
This is the most important part of the installation. With the fireplace (and the rigid venting system if used) fixed to its permanent location, the 6-5/8 inch diameter air inlet tube and the 4-inch diameter flue outlet tube are to be marked and cut using the following procedure.

- Attach the inlet tube to the outside mounting plate. Align tinnerman clips on the tabs of the air inlet tube to the holes on outside mounting plate, and fix with two #10 x 1/2 inch screws.
- 6. With the vinyl siding kit installed to wall (if necessary), insert the 6-5/8 inch diameter tube with outside mounting plate attached through hole in wall. Connect to collar on fireplace or rigid vent system. Measure between wall or vent cap extension and outside mounting plate (Figures 64 and 65).

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DVVK-4RE VENT KIT INSTALLATION INSTRUCTIONS (continued)





7. Remove outside mounting plate with tube attached from wall. Mark and cut the extra length of the 6-5/8 inch diameter tube from the opposite end. Do not crimp or enlarge tube.

- 8. Attach the 4-inch diameter flue outlet tube onto the rigid venting system or directly to fireplace. Ensure the 4-inch diameter flue outlet tube is placed as far as possible onto the rigid venting system. Mark the 4-inch diameter flue outlet tube 2-1/2 inches beyond the vinyl siding kit or wall. See Figure 65. Remove the 4-inch diameter flue outlet tube from rigid venting system. When installing directly to fireplace, tape gasket needs to be used.
- Mark or wrap tape completely around the tubes at the marked points to help in making a true cut. Do not crimp or enlarge tubes.
- 10. From outside: Push the 6-5/8 inch diameter inlet tube/ mounting plate onto end of rigid venting system to correct position. Fasten the outside mounting plate to the vinyl siding kit or wall with four 10 x 1 1/2" screws. (Ensure upward slope).
- From inside: Attach the inlet tube to the collar on the back of the fireplace (or the rigid venting system) using three self tapping screws.
- Seal the 4-inch diameter flue outlet tube. Follow instructions and diagram (Figure 66).
- 13. Fasten 4-inch diameter flue outlet tube in place. Do not "twist" the flue outlet tube into the fireplace collar (or rigid venting system). Hold the tube by the seam and push in using a perpendicular "rocking" motion. This ensures the seam on the tube stay intact.
- 14. Fasten vent cap end using three 10 x 1/2-inch screws to mounting plate.

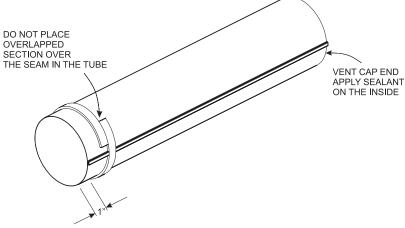


Figure 66

Note: Tape gasket to be applied prior to installing to fireplace flue outlet tube only. Tape gasket should not be used when mating the flue outlet tube to a rigid venting system.

DVVK-4RE VENT KIT INSTALLATION INSTRUCTIONS (continued)

Sealing 4-inch Diameter Flue Outlet Tube

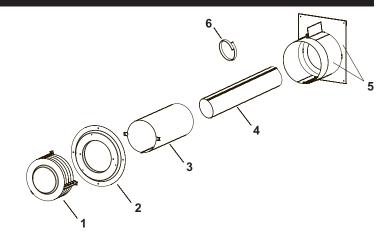
Follow correct option according to venting method.

Connecting Directly to Fireplace

If the air inlet and flue outlet tubes are to be connected directly to the unit (no rigid venting system is being used), then the gasket provided must be used to seal the 4-inch flue outlet tube. Peel the paper off the self-adhesive gasket and then wrap it around the end of the tube (if tube was cut, it is recommended to use cut end) as shown in **Figure 66**. Pull the gasket tight at all times while wrapping it around tube. The gasket ends should align, to form a complete seal. The overlapped section should NOT come in contact with the seam in the tube. Apply high temperature sealant to the opposite end of the tube (on the inside of the tube). The end with the gasket will attach to the back of the unit. Continue with Step 13.

Connecting to Rigid Vent System

If the air inlet and flue outlet tubes are to be connected to a rigid venting system (and not directly to the back of the unit), then **do not** use the gasket provided. High temperature sealant should be applied to the outside of the 4-inch diameter flue outlet tube (if tube was cut, it is recommended to use cut end) and to the inside of the tube on the end that connects to the vent cap. Continue with step 13.



PARTS LIST

INDEX NUMBER	PART NUMBER	DESCRIPTION
1	DV769	Vent Cap Assembly
2	19193	Outside Mounting Plate
3	19194	Air Inlet Tube
4	DV524	Flue Outlet Tube
5	19196	Firestop/Thimble Assembly
6	20527	Gasket

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LOG IDENTIFICATION FOR DVCD32 FIREPLACES

Log Description	Part Number	Front View	Top View
Log A	28371	A SOLVER TO STATE OF THE STATE	
Log B	28372		
Log C	28368		
Log D	28367		
Log E	28369		
Log F	28370		
Log G	28524		

This fireplace is supplied with a set of seven ceramic fiber logs. Do not handle these logs with your bare hands! Always wear gloves to prevent skin irritation from ceramic fibers. After handling the logs, wash your hands gently with soap and water to remove any trace of fibers.

Accessing the Interior of the Fireplace

 Remove the barrier screen and glass door. See Barrier Screen and Glass Door Removal, page 80.

The positioning of the logs is critical to the safe and clean operation of this fireplace. Sooting and other problems may result if the logs are not properly and firmly positioned in the fireplace. Please refer to **Figure 67** and the following WARNING when completing log placement instructions. For step by step log placement instructions, see pages 41 - 48.

MARNING

Failure to position the parts in accordance with this diagram or failure to use only parts specifically approved with this fireplace may result in property damage or personal injury.

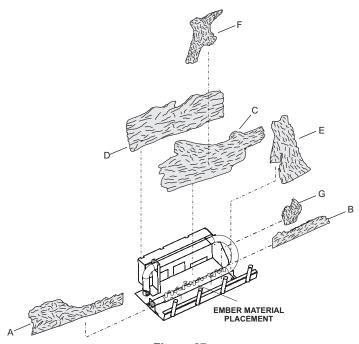


Figure 67

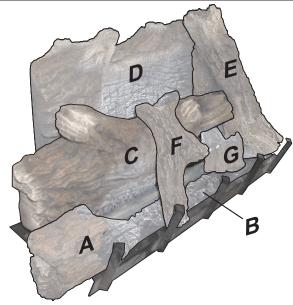
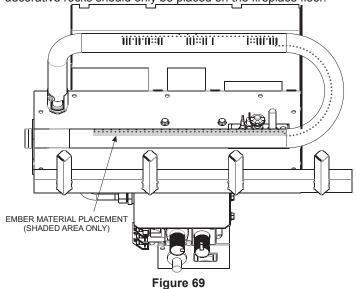


Figure 68

Decorative Material Placement

- Position all of the logs before placing the decorative materials
- 2. Place the decorative rocks in front of the grates and at the sides of the main burner pan.
- 3. Carefully separate the ember material into small amounts (no larger than "dime-size" pieces).
- Place the ember material pieces on the front burner port area. See Figure 69.
 - a. Fluffed up pieces of ember material one layer thick will produce the best ember glow. Do not place more than one layer of ember material onto the burner ports. Excess ember material will decrease the ember glow effect.
 - Save any remaining ember material for future applications (as needed).

Attention: Do not place decorative rocks on logs or burner. The decorative rocks should only be placed on the fireplace floor.

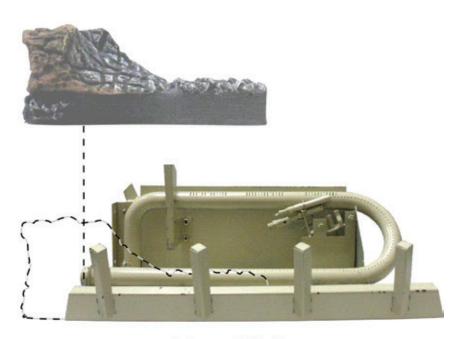


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1. Place Log A on the left front pin of the burner.



Top View

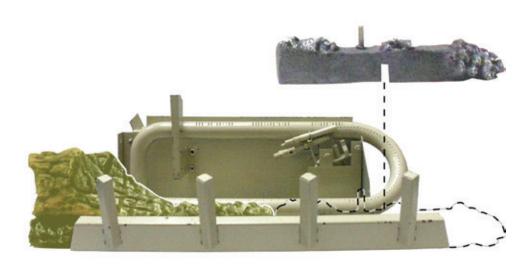


Front View

2. Place Log B on the right front pin of the burner.



Top View



Front View

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3. Place Log C between the front and rear legs of the burner tube.

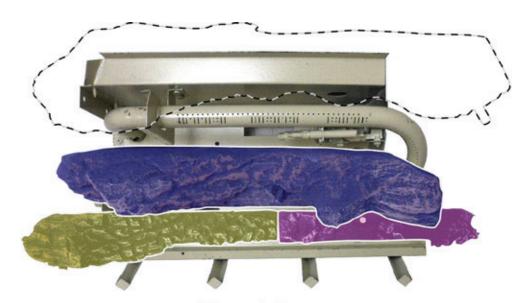


Top View

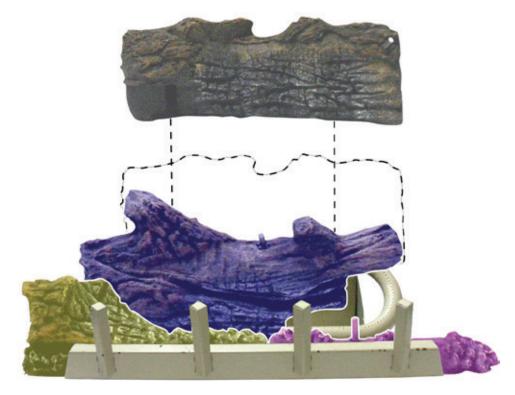


Front View

4. Place Log D onto the rear log support.



Top View



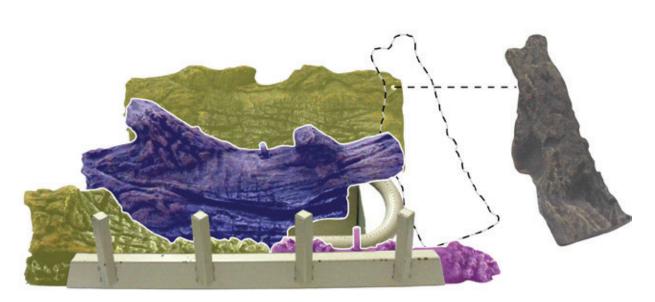
Front View

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5. Place Log E onto the pin on Log D and angle it down to rest on Log B.



Top View



Front View

6. Place Log F onto the pin on Log C and angle down toward the front of the burner as shown in the image below.



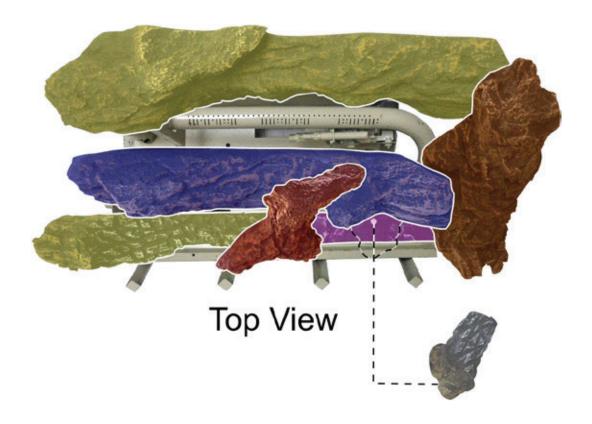
Top View

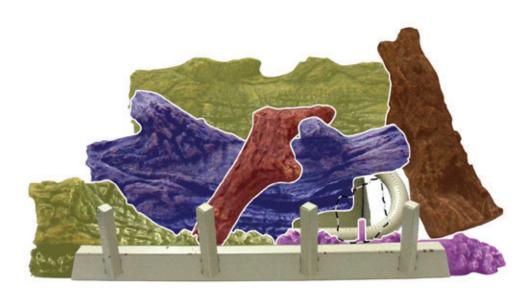


Front View

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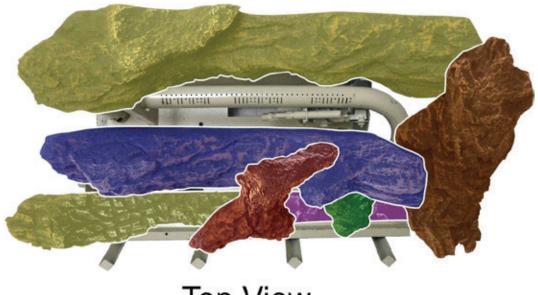
7. Place Log G onto the pin on Log B as shown in the image below.





Front View

Log placement is complete.



Top View



Front View

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LOG IDENTIFICATION FOR DVCD36 FIREPLACES

Log Description	Part Number	Front View	Top View
Log A	28378		
Log B	28379	The state of the s	asp. San A
Log C	28375		
Log D	28374		
Log E	28376		
Log F	28377		

This fireplace is supplied with a set of six ceramic fiber logs. Do not handle these logs with your bare hands! Always wear gloves to prevent skin irritation from ceramic fibers. After handling the logs, wash your hands gently with soap and water to remove any trace of fibers.

Accessing the Interior of the Fireplace

 Remove the barrier screen and glass door. See Barrier Screen and Glass Door Removal, page 80.

The positioning of the logs is critical to the safe and clean operation of this fireplace. Sooting and other problems may result if the logs are not properly and firmly positioned in the fireplace. Please refer to **Figure 70** and the following WARNING when completing log placement instructions. For step by step log placement instructions, see pages 51 - 57.

A WARNING

Failure to position the parts in accordance with this diagram or failure to use only parts specifically approved with this fireplace may result in property damage or personal injury.

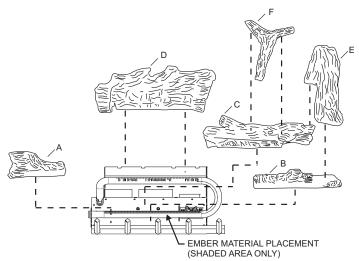


Figure 70

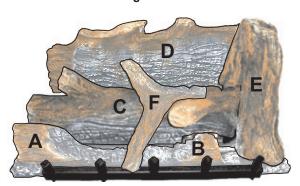


Figure 71

Decorative Material Placement

- Position all of the logs before placing the decorative materials.
- 2. Place the decorative rocks in front of the grates and at the sides of the main burner pan.
- 3. Carefully separate the ember material into small amounts (no larger than "dime-size" pieces).
- Place the ember material pieces on the front burner port area. See Figure 72.
 - a. Fluffed up pieces of ember material one layer thick will produce the best ember glow. Do not place more than one layer of ember material onto the burner ports. Excess ember material will decrease the ember glow effect.
 - Save any remaining ember material for future applications (as needed).

Attention: Do not place decorative rocks on logs or burner. The decorative rocks should only be placed on the fireplace floor.

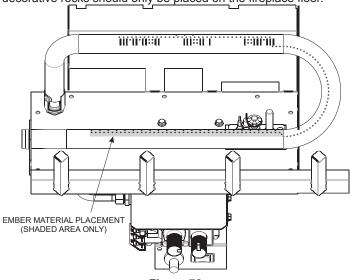


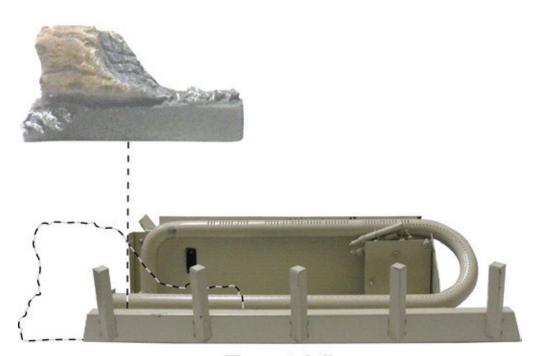
Figure 72

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1. Place Log A on the left front pin of the burner.

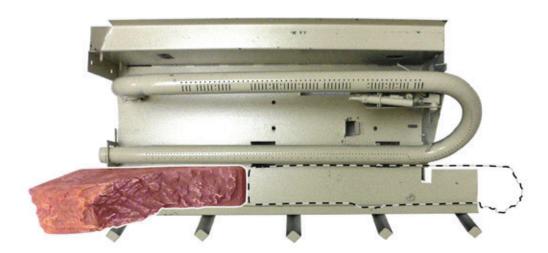


Top View

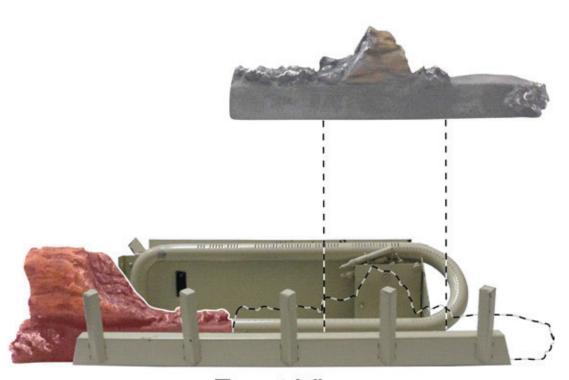


Front View

2. Place Log B on the right front pin of the burner.



Top View



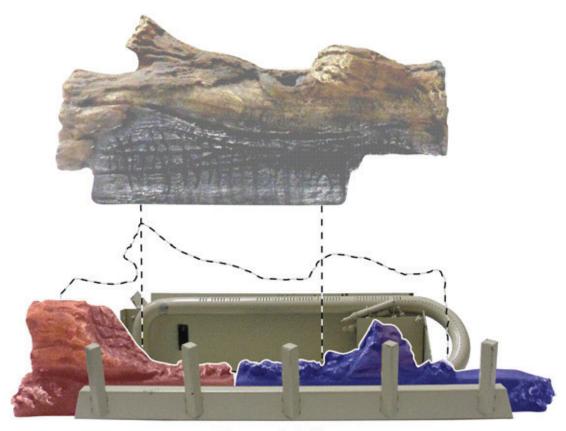
Front View

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3. Place Log C between the front and rear legs of the burner tube.

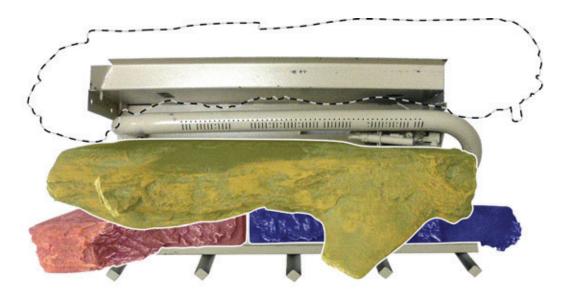


Top View

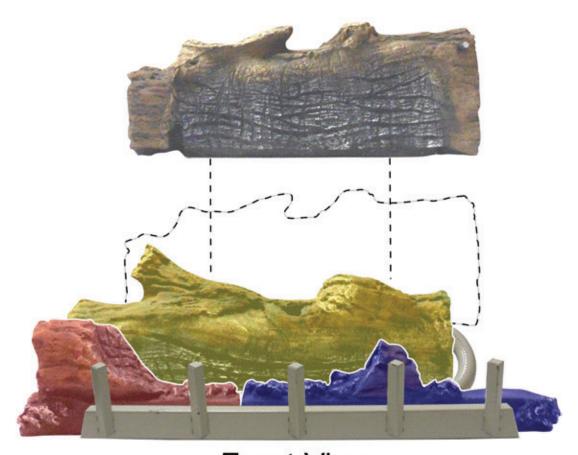


Front View

4. Place Log D onto the rear log support.



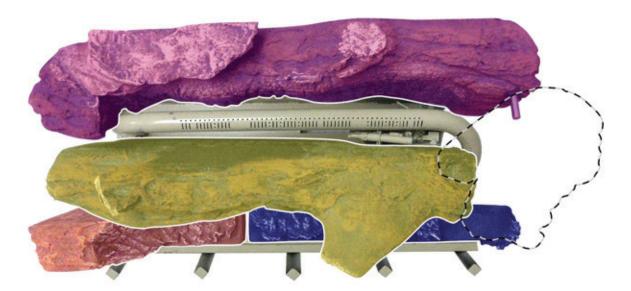
Top View



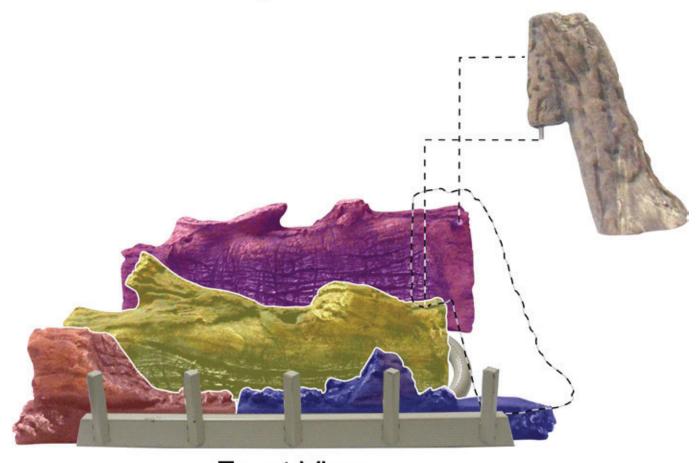
Front View

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5. Place Log E onto the pin on Log D and angle it down to rest on Log B.

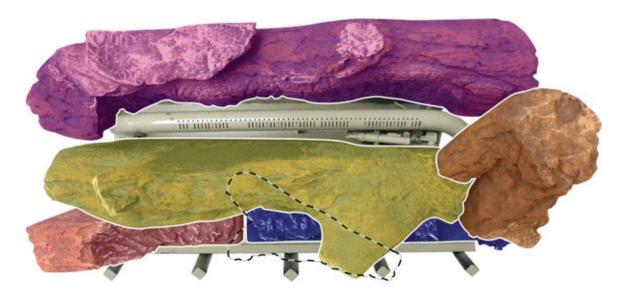


Top View

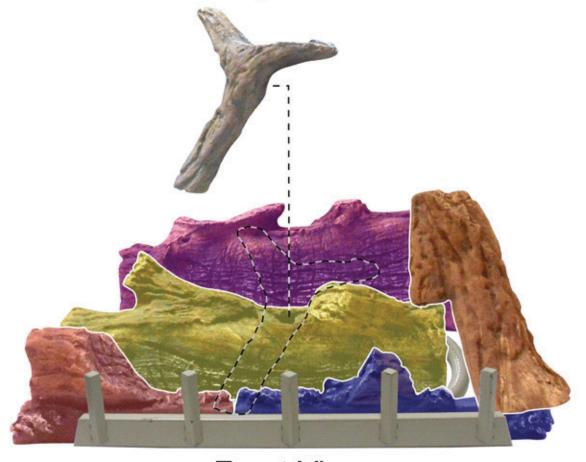


Front View

6. Place Log F onto Log C and angle down toward the front of the burner as shown in the image below.



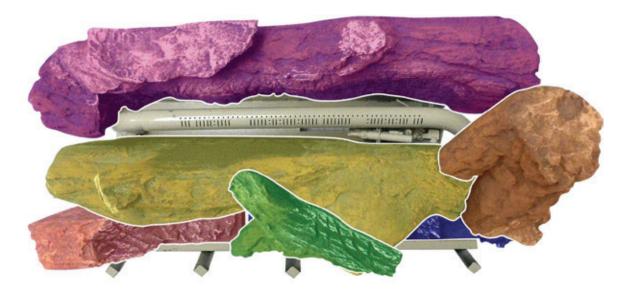
Top View



Front View

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Log placement is complete.



Top View



Front View

LOG IDENTIFICATION FOR DVCD42 FIREPLACES

Log Description	Part Number	Front View	Top View
Log A	28386		
Log B	28387		
Log C	28382		
Log D	28381		
Log E	28383		
Log F	28384		
Log H	28385		

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This fireplace is supplied with a set of seven ceramic fiber logs. Do not handle these logs with your bare hands! Always wear gloves to prevent skin irritation from ceramic fibers. After handling the logs, wash your hands gently with soap and water to remove any trace of fibers.

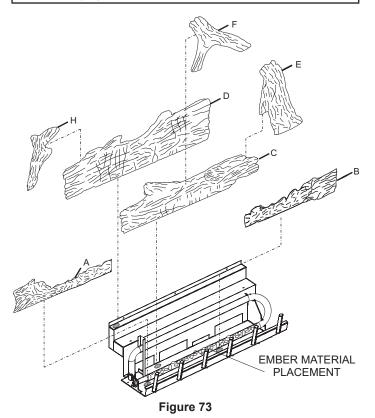
Accessing the Interior of the Fireplace

 Remove the barrier screen and glass door. See Barrier Screen and Glass Door Removal, page 80.

The positioning of the logs is critical to the safe and clean operation of this fireplace. Sooting and other problems may result if the logs are not properly and firmly positioned in the fireplace. Please refer to **Figure 73** and the following WARNING when completing log placement instructions. For step by step log placement instructions, see pages 60 - 67.

MARNING

Failure to position the parts in accordance with this diagram or failure to use only parts specifically approved with this fireplace may result in property damage or personal injury.



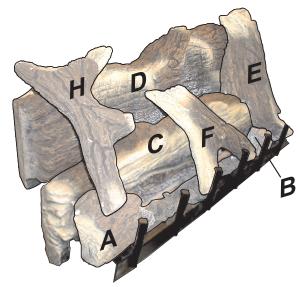


Figure 74

Decorative Material Placement

- Position all of the logs before placing the decorative materials.
- 2. Place the decorative rocks in front of the grates and at the sides of the main burner pan.
- 3. Carefully separate the ember material into small amounts (no larger than "dime-size" pieces).
- 4. Place the ember material pieces on the front burner port area. **See Figure 75.**
 - a. Fluffed up pieces of ember material one layer thick will produce the best ember glow. Do not place more than one layer of ember material onto the burner ports. Excess ember material will decrease the ember glow effect
 - b. Save any remaining ember material for future applications (as needed).

Attention: Do not place decorative rocks on logs or burner. The decorative rocks should only be placed on the fireplace floor.

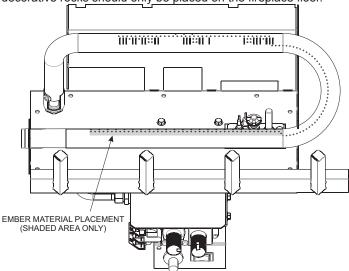
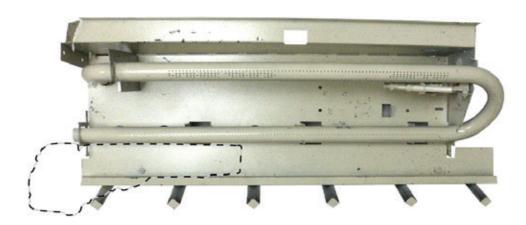
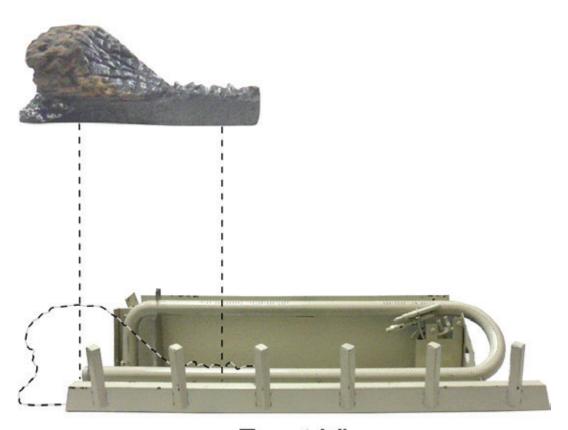


Figure 75

1. Place Log A on the left front pin of the burner.



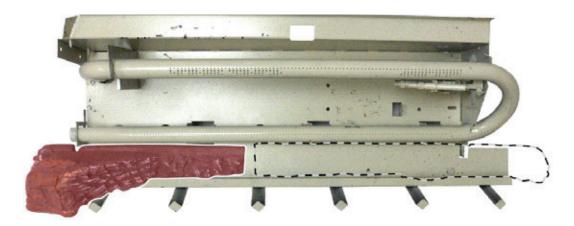
Top View



Front View

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2. Place Log B on the right front pin of the burner.

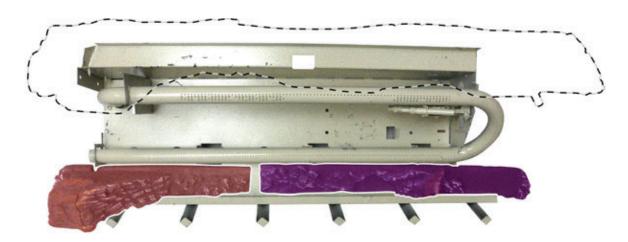


Top View

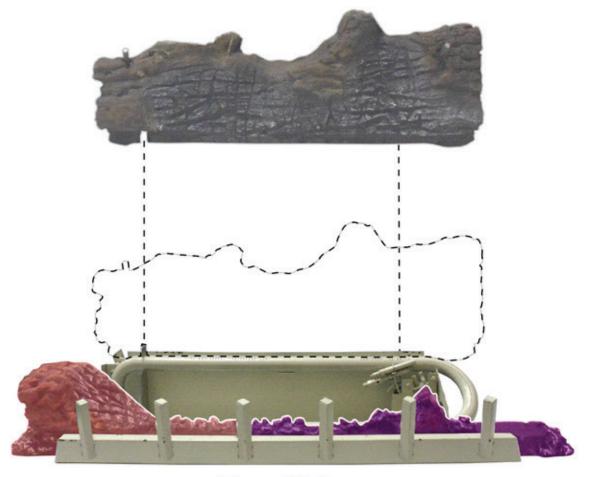


Front View

3. Place Log D onto the rear log support.



Top View



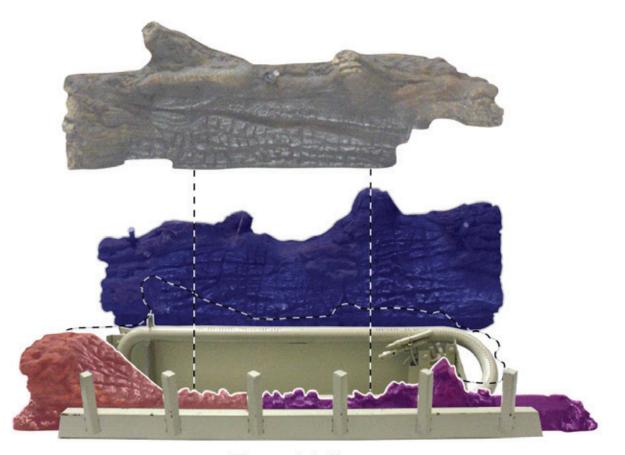
Front View

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4. Place Log C between the front and rear legs of the burner tube.



Top View

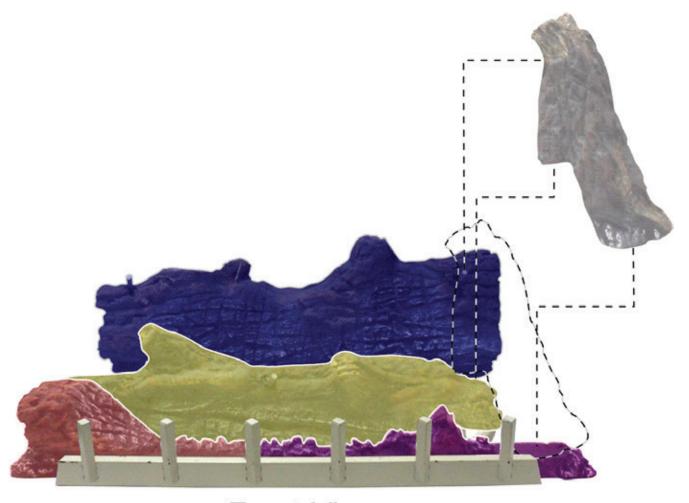


Front View

5. Place Log E onto the pin on Log D and angle it down to rest on Log B.



Top View



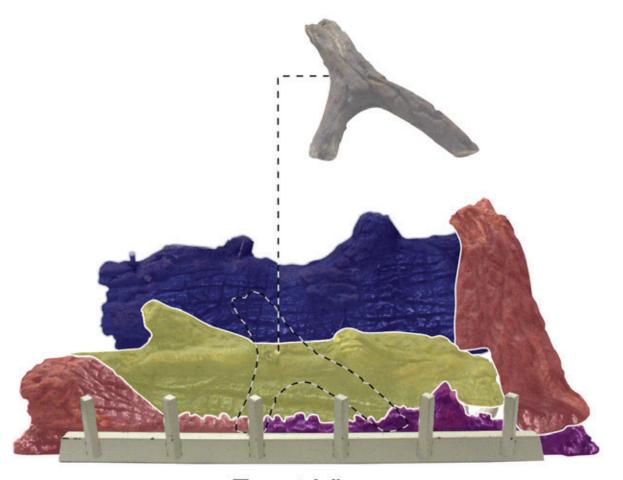
Front View

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6. Place Log F onto the pin on Log C and angle down toward the front of the burner as shown in the image below.



Top View



Front View

7. Place Log H onto the pin on Logs D and A as shown in the image below.



Top View



Front View

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Log placement is complete.



Top View



Front View

MILLIVOLT OPERATING INSTRUCTIONS

750 Millivolt System

The standing pilot (750 millivolt system) is a continuous burning pilot. The pilot remains ON even when the main burner is OFF.

When you ignite the pilot ,the thermopile produces millivolts (electrical current) which will energize the magnet in the gas valve. After 30 seconds to 1 minute time period you can release the gas control knob and the pilot will stay ON. Allow your pilot flame to operate an additional one to two minutes before you turn the gas control knob from the PILOT position to the ON position. This time period allows the millivolts to build-up to a sufficient level allowing the gas control to operate properly.

 Follow the SAFETY and LIGHTING INSTRUCTIONS for standing pilot controls found in this manual and on labels found in the control compartment behind the door assembly.

A CAUTION

During the initial purging and subsequent lightings, never allow the gas valve control knob to remain depressed in the "pilot" position without pushing the piezo ignitor button at least once every second.

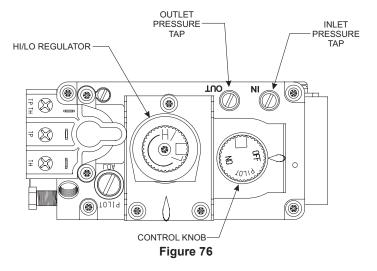
 During the operating season, leave the control valve knob in the "ON" position. This will allow the pilot flame to remain lit. Turn the burner flame on or off with the fireplace REMOTE/ OFF/ON switch, wall switch or remote controls.

NOTICE: The gas control valve allows you to increase or decrease the height of the main burner flame. The control valve has a pressure regulator with a knob as shown in **Figure 76**. Rotate the knob clockwise to "HI" to increase the flame height and counterclockwise to "LO" to decrease the flame height.

 Turn the REMOTE/OFF/ON switch to "OFF" and the control valve to "OFF" when the operating season is over. The system, including the pilot light, will shut down.

The OWNER should carefully read and follow these operating instructions at all times.

Lower the door assembly to view the gas controls for the fireplace.



Initial Lighting

Upon completing the gas line or turning the gas valve on after it has been in the "OFF" position, a small amount of air will be in the lines. When first lighting the fireplace, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the fireplace will light and operate satisfactorily.

Subsequent lightings of the fireplace will not require such purging if the gas valve is not turned to "OFF."

Pilot Flame

The thermopile/thermocouple (standing pilot) tips should be covered with flame.

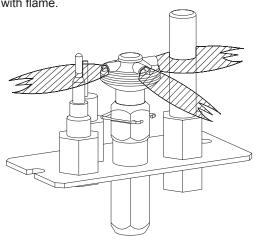


Figure 77

Electric (120 volt) Operated Remote Control, FREC (Optional)

Connect the green and red, stripped and bare, wires on the REMOTE/OFF/ON switch wire harness to the wires on remote receiver that is a component in the FREC. Turn the REMOTE/OFF/ON switch to the REMOTE position. Follow instructions in the FREC to complete installation.

NOTICE: If the electric (120 volt) fails to the FREC, and immediate heat is desired, turn the REMOTE/OFF/ON switch from the REMOTE position to the ON position.

Installation of Remote Receiver

Place remote receiver on the floor of fireplace behind the louver as far forward as possible.

Attention: The Velcro loop and hook are not necessary in this installation but can be used to secure remote receiver. Refer to remote control installation and operating instructions for more details on remote control.

Millivolt Control

The valve regulator controls the burner pressure which should be checked at the pressure test point. Turn captured screw counter clockwise 2 or 3 turns and then place tubing to pressure gauge over test point (Use test point "A" closest to control knob). After taking pressure reading, be sure and turn captured screw clockwise firmly to re-seal. Do not over torque. Check for gas leaks.

Millivolt thermopile is self-generating. Gas valve does not require 24 volts or 110 volts.

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MILLIVOLT OPERATING INSTRUCTIONS

Check System Operation

The millivolt system and all individual components may be checked with a millivolt meter, 0-1000 MV range. It is important to use wire of a gauge proper for the length of the wire:

Recommended Wire Gauges			
Maximum Length (dimensions in feet)	Wire Gauge		
1 to 10	18		
10 to 25	16		
25 to 35	14		

STANDING PILOT OPERATING INSTRUCTIONS REMOTE/OFF/ON Switch

The fireplace is equipped with a REMOTE/OFF/ON switch. A wire harness is attached to the REMOTE/OFF/ON switch. The red, black and green (wires) female push-ons attach to the REMOTE/OFF/ON switch. The black and green (wires) female push-ons attach to the gas valve at the opposite end of the wire harness. An additional green wire and the red wire, which are stripped and bare, will attach to one of the accessories that can be purchased for use with your fireplace.

Operation of REMOTE/OFF/ON Switch with no Accessories

To ignite main burner, turn the control knob on the gas valve from the PILOT position to the ON position. Turn the REMOTE/ OFF/ON switch from the OFF position to the ON position. The additional green wire and red wire, which are stripped and bare are not used.

Wall Switch, FWS-1 (Optional)

Connect the green and red, stripped and bare, wires on the REMOTE/OFF/ON switch wire harness to the wall switch. Turn the REMOTE/OFF/ON switch to the REMOTE position. Pivot the rocker switch on the FWS-1 to the ON position.

Wall Thermostats (optional)

TRW - Wireless for Millivolt models

TMV - Reed switch for Millivolt models

Battery Operated Remote Controls, FRBC, FBRTC, and TRW (Optional)

Connect the green and red, stripped and bare, wires on the REMOTE/OFF/ON switch wire harness to the remote receiver that is a component in the remote kit. Turn the REMOTE/OFF/ON switch to the REMOTE position. Follow instructions included with the remote to complete installation.

 $\it NOTICE$: If batteries fail in the remote, and immediate heat is desired, turn the REMOTE/OFF/ON switch from the REMOTE position to the ON position.

MILLIVOLT STANDING PILOT WIRING DIAGRAM

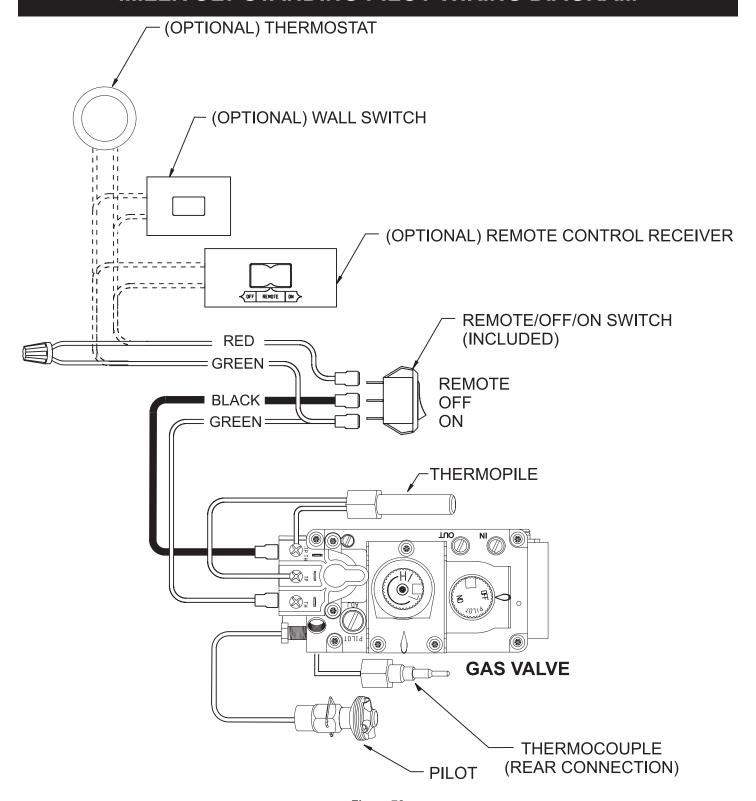


Figure 78

If any of the original wire supplied with this fireplace must be replaced, it must be replaced with equivalent gauge and temperature rated wire.

A CAUTION

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

Verify proper operation after servicing.

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MILLIVOLT STANDING PILOT LIGHTING INSTRUCTIONS

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.

- This fireplace has a pilot which must be lighted by hand.
 When lighting the pilot, follow these instructions exactly.
- B. Before lighting smell all around the fireplace 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 electrical 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. Use only your hand to push in 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 service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

- 1. Stop! Read the safety information above.
- 2. Set REMOTE/OFF/ON switch to OFF.
- 3. Turn off all electric power to the fireplace (if applicable).
- 4. Lower bottom louver assembly.
- Push in gas control knob slightly and turn clockwise to "OFF."





NOTICE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

- 6. Wait ten minutes to clear out any gas. Then smell for gas, including near the floor. If you then smell gas, STOP!
 Follow "B" in the safety information above. If you do not smell gas, go to the next step.
- Find pilot Follow metal tube from gas control. The pilot is behind the burner on the right side.
- 8. Turn gas control knob counterclockwise to "PILOT."

- 9. Push in control knob all the way and hold in. Repeatedly push the piezo ignitor button until the pilot is lit. Continue to hold the control knob in for about one minute after the pilot is lit. Release knob, and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 9.
 - If the control knob does not pop up when released, STOP and IMMEDIATELY call a qualified service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
- Turn gas control knob counterclockwise to "ON."
- 11. Close bottom louver assembly.
- 12. Turn on all electric power to the fireplace (if applicable).
- 13. Set REMOTE/OFF/ON switch to desired setting.

TO TURN OFF GAS TO FIREPLACE

PILOT THERMOPILE

- 1. Set REMOTE/OFF/ON switch to OFF.
- Turn off all electric power to the fireplace if service is to be performed (if applicable).
- 3. Lower bottom louver assembly.

- 4. Push in gas control knob slightly and turn clockwise to "OFF." Do not force.
- 5. Close bottom louver assembly.

MILLIVOLT STANDING PILOT TROUBLESHOOTING

With proper installation and maintenance, your new Direct Vent Gas Fireplace will provide years of trouble-free service. If you do experience a problem, refer to the Trouble Shooting Guide below. This guide will assist a qualified service person in the diagnosis of problems and the corrective action to be taken.

Spark ignitor will not light pilot after repeated triggering of piezo ignitor button.

- a. Defective ignitor (no spark electrode)
 - —Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
- b. No gas or low gas pressure.
 - —Check remote shut off valves from fireplace. Usually there is a valve near the main. There can be more than one valve between the fireplace and main.
 - —Low pressure can be caused by a variety of situations such as a bent line, too narrow diameter of pipe, or low line pressure. Consult with plumber or gas supplier.
- c. No LP in tank.
 - -Check LP (propane) tank. Refill tank.

2. Pilot will not stay lit after carefully following lighting instructions.

- a. Defective thermocouple.
 - —Check that pilot flame impinges on thermocouple. Clean and/or adjust pilot for maximum flame impingement.
 - —Ensure the thermocouple connection at the gas valve is fully inserted and tight (hand tight plus 1/4 turn). Faulty thermocouple if reading is below specified minimum of 15 millivolts.
 - —Disconnect the thermocouple from the valve, place one millivolt meter lead wire on the end of the thermocouple and the other millivolt meter lead wire on the thermocouple copper wire. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15 millivolt, replace the thermocouple.
- b. Defective valve.
 - —If thermocouple is producing more than 15 millivolts, replace faulty valve.

3. Pilot burning, no gas to burner, valve knob "ON", REMOTE/OFF/ON switch "ON."

- REMOTE/OFF/ON switch, wall switch, remote control or wires defective.
 - —Check REMOTE/OFF/ON switch and wires for proper connections. Place jumper wires across terminal at switch. If burner comes on, replace defective switch. If OK, place jumper wires across switch wires at gas valve-if burner comes on, wires are faulty or connections are bad.
- Thermopile may not be generating sufficient millivolts.
 —If the pilot flame is not close enough physically to the thermopile, adjust the pilot flame.
 - —Be sure the wire connections from the thermopile at the gas valve terminals are tight and the thermopile is fully inserted into the pilot bracket.
 - —Check the thermopile with a millivolt meter. Take the reading at TH-TP & TP terminals of the gas valve. The meter should read 350 millivolts minimum, while holding the valve knob depressed in the PILOT position, with the pilot lit, and the REMOTE/OFF/ON switch in the OFF position. Replace the faulty thermopile if the reading is below the specified minimum.
 - —With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 350 millivolts

- minimum. Replace the thermopile if the reading is below the minimum.
- c. Defective valve.
 - —Turn valve knob to ON. Place REMOTE/OFF/ON switch to ON. Check with millivolt meter at thermopile terminals. Millivolt meter should read greater than 200 millivolts. If the reading is okay and the main burner does not ignite, replace the gas valve.
- d. Plugged main burner orifice.
 - —Check main burner orifice for blockage and remove.

4. Frequent pilot outage problem.

- a. Pilot flame may be too high or too low, or blowing (high), causing pilot safety to drop out.
 - —Clean and adjust flame for maximum flame impingement on the thermocouple. Follow lighting instructions carefully.

5. The pilot and main burner extinguish while in operation.

a. No LP (Propane) in tank.

Check LP (Propane) tank. Refill fuel tank.

- Inner vent pipe leaking exhaust gases back into system
 Check for leaks.
- c. Glass too loose, gasket leaks in corners after usage.
 - —Be certain glass assembly is installed correctly.
- d. Horizontal vent improperly pitched.
 - —The horizontal vent cap should slope down only enough to prevent any water from entering the fireplace. The maximum downwards slope is 1/4 inch.
- e. Bad thermopile or thermocouple.
 - —Replace if necessary.
- f. Improper vent cap installation.
 - —Check for proper installation and freedom from debris or blockage.

6. Glass soots.

- a. Flame impingement on logs.
 - —Check and adjust log position. Contact Empire Comfort Systems.
- b. Debris around throat of main burner.
 - —Inspect the opening at the base of the main burner. It is imperative that <u>NO</u> material be placed in this opening.

7. Flame burns blue and lifts off main burner.

- a. Insufficient oxygen being supplied.
 - —Check to make sure vent cap is installed properly and free of debris. Make sure that vent system joints are tight and have no leaks.
 - —Check to make sure that no material has been placed at the main burner base.

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IPI ELECTRONIC SYSTEM OPERATING INSTRUCTIONS

5.25 VDC ELECTRONIC CONTROL VALVE

The electronic control valve system includes the ability to switch the pilot from a standing pilot mode to an intermittent pilot mode.

- IPI Mode In the Intermittent Pilot mode, when the fireplace is turned ON, it will cause spark to the pilot, light the pilot, then allow the burner to light. When the fireplace is turned to OFF, both the burner and pilot will be OFF.
- CPI Mode In the Continuous Pilot mode, the pilot remains ON continuously even when the burner is turned OFF.

NOTICE: A small toggle switch is located on the front of the module tray that is used to switch from IPI (left) to the CPI (right). **See Figure 79.**

When the fireplace is turned to ON, the electrical current will energize a spark to the pilot igniter. Once the pilot sensor heats up (after a few seconds), the valve will be energized, allowing gas to flow to the burner.

- Follow the SAFETY and LIGHTING INSTRUCTIONS for Intermittent Pilot controls found in this manual, and on labels found in the control compartment located in the lower cavity of the fireplace.
- During the operating season (or in power outage periods), it is recommended that the pilot remain in the CPI (standing pilot mode) to reduce cold start issues, and/or conserve battery backup power during a power outage.
- The gas valve has inlet and outlet pressure taps as shown in Figure 79. Refer to page 13 for gas pressure requirements.

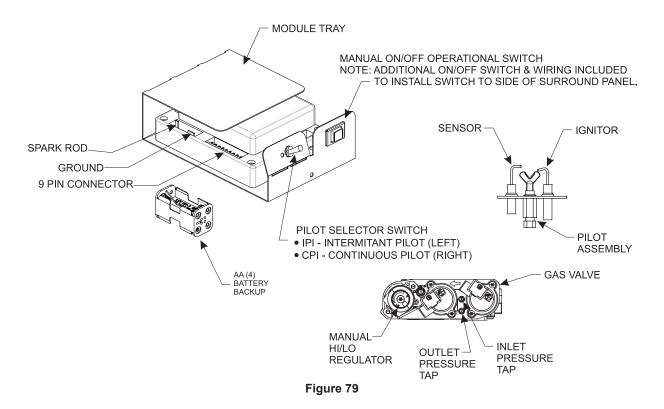
NOTICE: The gas control has a manual HI/LO flame adjustment knob (regulator) that allows you to increase or decrease the height of the burner flame. **See Figure 79.** Rotate the HI/LO knob counterclockwise to "HI" to increase the flame height, and clockwise to "LO" to decrease the flame height.

OPTIONAL REMOTE CONTROLS

Optional remote controls are available for use with this fireplace. It is recommended that the remote receiver be placed either in a wall outlet box with extended wiring, on the fireplace hearth, behind the left side surround panel, or in the control compartment area as far forward in the insert as possible.

The placement options for the remote receiver are given to allow flexibility, however battery life will be extended when the receiver is placed in cooler areas.

To connect the remote receiver to the fireplace, first disconnect the ON/OFF switch wires from the white and green wire connectors and connect the wires from the remote receiver to the green and white wire connectors. **See Figure 79.** Follow the instructions included with the remote control for programming and other operational information.



IPI ELECTRONIC SYSTEM WIRING DIAGRAM

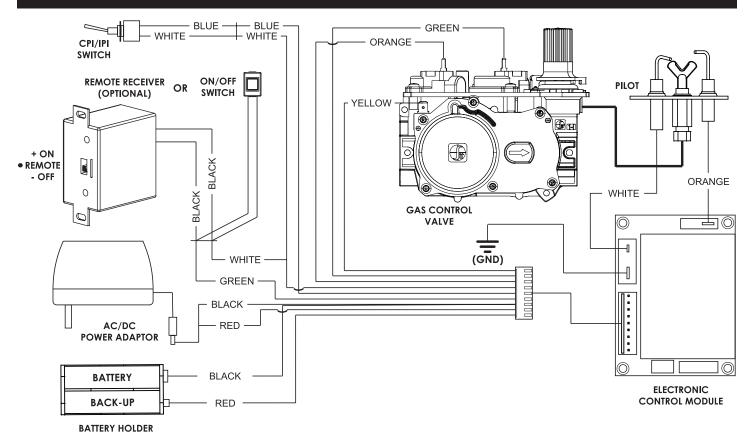


Figure 80

If any of the original wire supplied with this fireplace must be replaced, it must be replaced with equivalent gauge and temperature rated wire.

A CAUTION

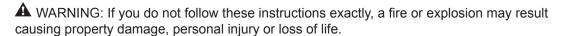
Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing.

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INTERMITTENT PILOT LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING



- This fireplace has a pilot which can be lighted with the manual on/off switch, a remote control, or by switching the receiver switch to the "ON" position. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the fireplace area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

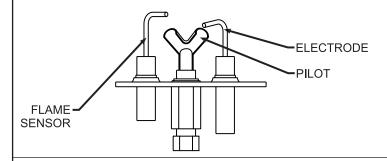
WHAT TO DO IF YOU SMELL GAS

Do not try to light any appliance. Do not touch any electrical 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 can not reach your gas supplier, call the fire department.

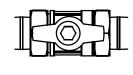
- C. Use only the remote control or manual remote receiver switch to operate the gas valve. Never use tools. If valve does not operate, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

- STOP! Read the safety information above.
- Turn OFF electric power to the fireplace.
- Remove front surround panel assembly or bottom louver if 3. included.
- Turn gas valve counterclockwise 🥆 to "On" position.
- Wait ten 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 on this page. If you do not smell gas, go to the next step.
- Turn ON electric power to the fireplace.
- Find pilot Follow metal tube from gas control. The pilot is behind the burner on the right side.
- Turn main flame to on. If the pilot does not light within 60 seconds, stop and go to Step 5.
- Refer to remote control instructions for detailed information. control features, and operation. NOTICE: There is a CPI/IPI switch that allows for a continuous standing pilot mode or an intermittent pilot mode. See fireplace manual for location of this switch. If the pilot or burner does not stay lit (in the standing pilot mode), stop and immediately call a qualified service technician or gas supplier.
- 10. If the burner or pilot does not operate properly after several tries, turn the gas valve clockwise -to "OFF" and call your service technician or gas supplier.
- 11. Replace the front surround assembly or close bottom louver assembly.
- 12. Operation of the gas valve is controlled by a manual on/ off switch or a hand held remote control. Refer to remote instructions for detailed operation information.







TO TURN OFF GAS TO FIREPLACE

- Turn off all electric power to the fireplace if service is to be performed (if applicable).
- Gain access to control compartment. Remove surround panel assembly if necessary.
- 3. Locate On/Off gas valve and turn clockwise to "OFF". Do not force.
- 4. Close bottom louver assembly, if included.

INTERMITTENT PILOT CONTROL SYSTEM TROUBLESHOOTING

Brief Description of the Components

The gas valve is fitted with a manual HI/LO knob to allow for manual modulation of the gas outlet pressure to the fireplace burner. The controls are designed to be used with either LPG or Natural Gas and can be converted by use of an OEM supplied conversion kit.

The Digital Fireplace Control (DFC) is an automatic gas ignition system based on a single micro-controller core. This control manages all functions related to ignition, flame sensing and supervision for atmospheric applications.

The DFC can be set to provide continuous or intermittent ignition control sequences and flame monitoring with safety shutdown in case of failure.

The DFC is set up as a stand alone (AC powered system with battery back up. See Lighting Instructions on page 75 and Wiring Diagram on page 74.

Troubleshooting

Before proceeding with the procedures in the following troubleshooting table, verify that the power supply (AC/DC adapter) is present and that the batteries inside the receiver and/or optional battery pack are fresh and installed with correct polarity.

Make sure all the connections between the wire harnesses and system components are proper and positive.

Verify that the static inlet pressure meets the manufacturer's recommended inlet pressure. If necessary adjust the line pressure regulator.

If the recommended actions for the following troubleshooting chart do not help to address the problem consider replacing wiring harnesses.

A WARNING

Any actions performed on the gas valve must be in accordance with this instruction manual. Likewise, any actions performed on the DFC or other system components must be done in accordance with the individual component instructions. Replacement of components must be performed in accordance with this instructions manual.

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INTERMITTENT PILOT CONTROL SYSTEM TROUBLESHOOTING

PROBLEM OBSERVED	POSSIBLE CAUSE	CORRECTIVE MEASURE
Gas odor during setup	Gas Leak	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.
Gas odor before first ignition	Gas Leak	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.
Fireplace is "on" but no flame and pilot is	Gas Line Valve turned "off"	Turn shutoff valve to "open" position
not trying to light	Control module in "lockout"	Turn fireplace "off" and then back "on"
	Not enough gas to pilot	Wait for pilot flame to strengthen
	Low Gas Pressure	Check pressures. See page 12.
Pilot continues to spark when pilot is lit.	Pilot igniter/sensor is dirty	Clean pilot. See maintenance page 79.
Filot continues to spark when pilot is lit.	Pilot not grounded well	Check ground connections
	Draft in firebox	Vent restrictor not installed
	Pilot sensor has been bent	Replace pilot
	Pilot igniter/sensor is dirty	Clean flame sensor and pilot igniter. See maintenance page 79.
	Pilot not grounded well	Check ground connections
	Sensor Wire loose	Check sensor wire terminals
Pilot will not ignite, or will not stay lit	Gas pressure incorrect	Adjust gas pressure
	Pilot Gas Line bent or kinked	Replace pilot tube
	Faulty pilot, Sensor bent	Replace Pilot
	Faulty valve	Replace Valve
	Low gas pressure	Check gas supply pressure
Burner takes too long to fully light	Clogged or dirty carryover/burner ports	Clean ports
burner takes too long to fully light	Blocked orifice	Check orifice opening
	Faulty valve	Replace valve
	Low gas pressure	Check gas supply pressure
	Clogged or dirty burner ports	Clean burner ports
Burner does not light but pilot remains on	Blocked orifice	Check orifice opening
Damer does not light but phot remains on	Loose wire connections	Check valve/control module connections
	Faulty pilot	Replace pilot
	Faulty valve	Replace valve
	Low gas pressure	Check gas supply pressure
	Loose sensor wire	Check wire connection
	Faulty valve	Replace valve
	Faulty pilot or thermocouple	Replace Safety pilot
Burner lights but does not stay lit while	Clogged or dirty burner ports	Clean burner ports
pilot remains on	(For fireplace equipped with optional thermostat or thermostat remote) Room tem-	Move (optional) remote away from fire- place Set higher temperature on (Optional)
	perature is higher than thermostat setting	remote/thermostat
	(Optional) Remote control batteries failing	Replace batteries in remote transmitter and receiver

INTERMITTENT PILOT CONTROL SYSTEM TROUBLESHOOTING

	Flame sensor dirty	Clean pilot sensor
	Low gas pressure	Check gas supply pressure
	Not enough fresh air for pilot	Open door or window - ventilate
	Clogged or dirty burner ports	Clean burner ports
Burner & pilot light but will not stay lit	(For fireplace equipped with optional thermostat or thermostat remote) Room tem-	Move (optional) remote away from fire- place
	perature is higher than thermostat setting	Set higher temperature on (Optional) remote/thermostat
	(Optional) Remote control batteries failing	Replace batteries in remote transmitter and receiver
	Faulty pilot or thermocouple	Replace pilot
	Incorrect gas supply or pressure	Check gas supply pressure
	Blocked orifice	Check orifice opening
Incorrect burner flame	Clogged or dirty burner ports	Clean burner ports
	Faulty valve	Replace valve
	High altitude	Adjust orifice size for altitude
	Blocked orifice	Check orifice opening
Backfire of burner	Clogged or dirty burner ports	Clean burner ports
	Low gas pressure	Check gas supply pressure
Fireplace produces unwanted odors	Vapors from paint, hairspray, glue, etc.	Ventilate room until odor stops. Do not use paint, hairspray, glue, etc around fireplace
	Initial burn-off of manufacturing chemicals	Ventilate room until odor stops
	Check gas pressure	Adjust gas pressure to recommended setting.
M/highla naiga from firantaga	Air in gas line	Bleed lines
Whistle noise from fireplace	Control knob not in fully open position	Open control knob to full position
	Spiral gas flex line pinched or too small diameter line	Straighten flex line where pinched or replace gas feed line with larger diameter

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MAINTENANCE & SERVICE - QUALIFIED SERVICE PERSON

PLEASE NOTE

It is normal for fireplaces fabricated of steel to give off some expansion and/or contraction noise during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine.

It is not unusual for your gas fireplace to give off some odor the first time it is burned. This is due to the curing of the paint and burning off of any undetected oil from the manufacturing process. Ensure that your room is well ventilated - open all windows.

Empire recommends that you burn the fireplace for at least six hours the first time you use it. If an optional fan kit has been installed, set the fan control in the "OFF" position during this initial burning.

IMPORTANT: Turn off gas before servicing this fireplace. A qualified service person should perform these check-ups at the beginning of each heating season.

Clean Burner and Control Compartment

Keep the control compartment, logs, and burner areas surrounding the logs clean by vacuuming or brushing at least twice a year.

Cleaning Procedure:

1. Turn off pilot light at gas valve.

NOTE: Do not handle barrier screen or door assembly with your bare hands! (Always Wear Gloves)

- 2. Remove the barrier screen and glass front. See Barrier Screen and Glass Removal on page 80.
- 3. Vacuum burner compartment. Use a soft bristle brush (a paint brush) to clear dust and debris from the log set and decorative media.
 - a. It may be necessary to remove the logs from the fireplace to clean it fully. Refer to the Log Placement section, pages 39 67.
- Reinstall the glass front and barrier screen. See page 81.
- Ignite the pilot. See Lighting Instructions, pages 71 and 75.
- Turn the fireplace to "ON." If the flame appears abnormal, or the fireplace does not operate properly, STOP and call a service person.

Check Vent System

The fireplace and venting system should be inspected before initial use and at least annually by a qualified service person. Inspect the external vent cap on a regular basis to make sure that no debris interferes with the air flow.

Clean the Logs

MARNING

Do not handle the logs with your bare hands! Always wear gloves to prevent skin irritation from ceramic fibers. After handling logs, wash your hands gently with soap and water to remove any trace of fibers. If you do get a "fiber splinter" from the logs or glowing embers, rub the sticky side of tape over where you suspect the splinter is until you no longer feel the irritation.

The logs included with the fireplace can be cleaned with a soft brush (i.e. a soft paint brush) or carefully with "canned air". When cleaning the logs, wear eye and respiratory protection as well as safety gloves.

Install the Logs

The position of the logs is critical to the safe and clean operation of this fireplace. Sooting and other problems may result if the logs are not properly and firmly positioned in the fireplace. Refer to the log placement section in this manual for proper log set installation.

Clean the Pilot

Use compressed air to clean the pilot.

Clean the Flame Sensor

Wipe the flame sensor with a damp paper towel.

Glass Cleaning

During start-up condensation may form on the inside of the glass and cause lint, dust and other airborne particles to cling to the glass surface. The initial paint curing process may deposit a slight film on the glass. It is recommended that the glass be cleaned two or three times with a cleaner specifically made for fireplace glass. After the initial cleaning, the glass should be cleaned two or three times during each heating season depending on the circumstances present.

General Glass Information

A WARNING

Do not operate fireplace with the glass front removed, or if it is cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

Only glass approved for use by the manufacturer in the fireplace may be used for replacement. The glass replacement should be done by a licensed or qualified service person.

WARNING

- 1. The use of substitute glass will void all product warranties.
- 2. Care must be taken to avoid breakage of the glass.
- Under no circumstances should this fireplace be operated without the glass front or with a broken glass front.
 Replacement of the glass (with gasket) as supplied by the manufacturer should be done by a qualified service person.
- 4. Do not abuse the glass by striking or hitting the glass.

A WARNING

Do not use abrasive cleaners on glass. Do not attempt to clean glass when glass is hot.

MAINTENANCE & SERVICE - QUALIFIED SERVICE PERSON

Barrier Screen and Glass Door Removal

NOTE: Do not handle barrier screen or door assembly with your bare hands! (Always Wear Gloves)

 Grasp the sides of the screen at the bottom and carefully lift it up and out. Place the screen in a safe location.

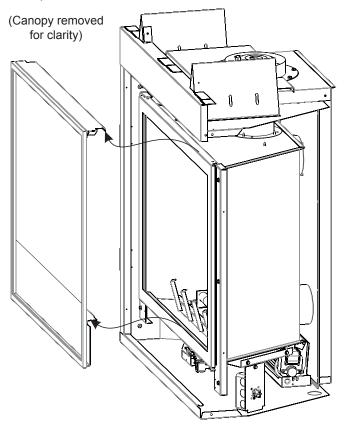


Figure 81

- Find the two glass frame clamps on the bottom of the fireplace.
- 3. Pull each clamp forward and down to release the glass frame.

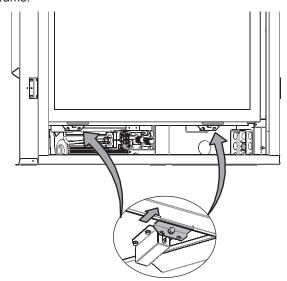


Figure 82

- Grasp the bottom edge of the glass frame and carefully pull the bottom of the glass away from the fireplace.
- 5. Move your hands to the sides of the glass frame and lift it up and away from the fireplace. **See Figure 83.**

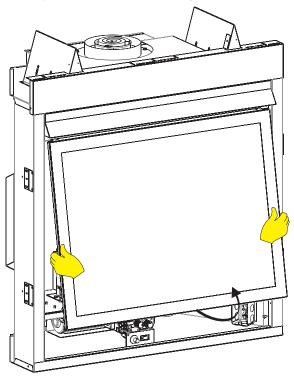


Figure 83

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MAINTENANCE & SERVICE - QUALIFIED SERVICE PERSON

Glass Door and Barrier Screen Installation

NOTE: Do not handle barrier screen or door assembly with your bare hands! (Always Wear Gloves)

- Place the top ledge of the glass frame over the frame ledge on the fireplace.
- Gently lower the glass frame into place. See Figure 84 for proper glass frame placement.

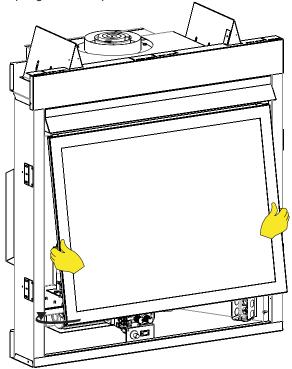


Figure 84

NOTICE: If improperly placed, the gasket will prevent the bottom of the glass frame from contacting the fireplace.

- 3. Find the two glass frame clamps on the bottom of the fireplace.
- 4. Pull each clamp down and then over the glass frame.

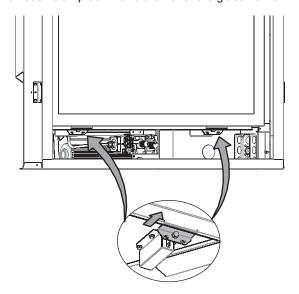


Figure 85

5. Place the top ledge of the barrier screen over the top edge of the glass frame and carefully lower it over the fireplace front.

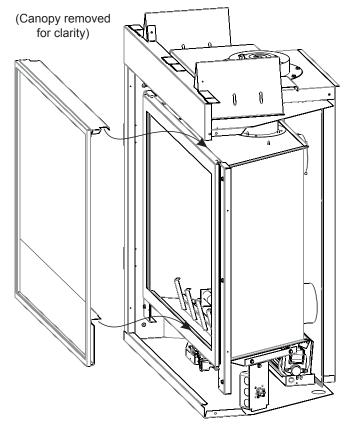


Figure 86

MAINTENANCE & SERVICE FOR THE HOMEOWNER

It is normal for fireplaces fabricated of steel to give off some expansion and/or contraction noise during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine.

It is not unusual for your gas fireplace to give off some odor the first time it is burned. This is due to the curing of the paint and burning off of any undetected oil from the manufacturing process. Ensure that your room is well ventilated - open all windows.

Empire recommends that you burn the fireplace for at least six hours the first time you use it. If an optional fan kit has been installed, set the fan control in the "OFF" position during this initial burning.

IMPORTANT: Turn off gas before cleaning the fireplace. Allow the fireplace to cool completely before attempting any maintenance or cleaning.

Cleaning the Burner and Control Compartment

Vacuum or brush the control compartment, logs and burner area at least twice a year.

- 1. Turn off pilot light at gas valve.
- 2. Remove glass front. (See Glass Removal)
- 3. Vacuum burner compartment.
- Reinstall glass front.
- 5. Ignite pilot. (See Lighting Instructions)
- Operate the pilot burner. If it appears abnormal call a service person.

Glass Door and Barrier Screen Maintenance

A WARNING

Do not operate fireplace with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

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

 Only glass approved for use by the manufacturer in the fireplace may be used for replacement. The use of glass not approved by the manufacturer will void all warranties. The glass replacement should be done by a licensed or qualified service person.

Cleaning the Glass Door

While the fireplace is in operation, condensation may form on the inside of the glass. This is normal. However, it can cause lint, dust and other airborne particles to cling to the glass surface. The initial paint curing (during the first use of the fireplace) may also deposit a slight film on the glass. Empire Comfort Systems recommends the use of glass cleaner specifically designed for use on gas fireplace glass. It may take several cleanings to completely remove any build-up after the first use of the fireplace. After the first cleaning, the glass should be cleaned two or three times during each heating season depending on the circumstances present.

Clean the Barrier Screen

The barrier screen can be cleaned using a damp cloth and a household cleaner. Remove the barrier screen from the glass door before cleaning.

Logs

If the logs require maintenance or repair contact a qualified service person.

Barrier Screen and Glass Door Removal

NOTE: Do not handle barrier screen or door assembly with your bare hands! (Always Wear Gloves)

 Grasp the sides of the screen at the bottom and carefully lift it up and out. Place the screen in a safe location.

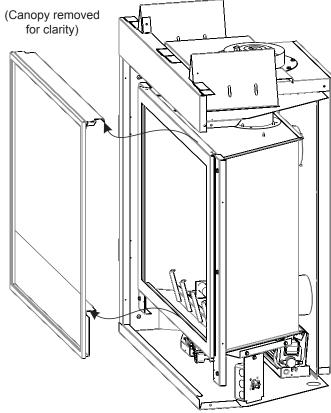


Figure 87

- 2. Find the two glass clamps on the bottom of the fireplace.
- 3. Pull each clamp forward and down to release the glass frame.

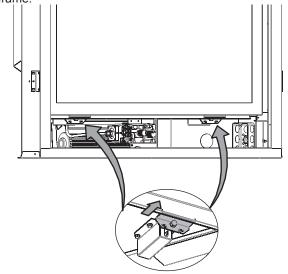


Figure 88

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MAINTENANCE & SERVICE FOR THE HOMEOWNER

- Grasp the bottom edge of the glass frame and carefully pull the bottom of the glass away from the fireplace.
- Move your hands to the sides of the glass frame and lift it up and away from the fireplace. See Figure 89.

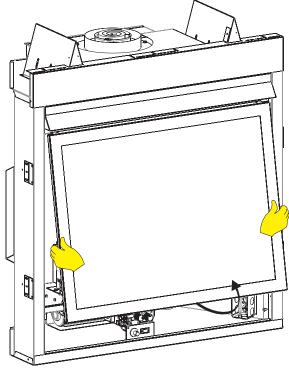


Figure 89

Glass Door and Barrier Screen Installation

NOTE: Do not handle barrier screen or door assembly with your bare hands! (Always Wear Gloves)

- Place the top ledge of the glass frame over the frame ledge on the fireplace.
- Gently lower the glass frame into place. See Figure 90 for proper glass frame placement.

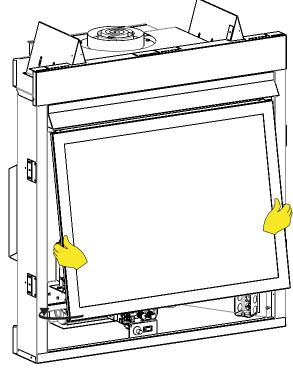


Figure 90

NOTICE: If improperly placed, the gasket will prevent the bottom of the glass frame from contacting the fireplace.

- 3. Find the two glass clips on the bottom of the fireplace.
- 4. Pull each clip down and then over the glass frame.

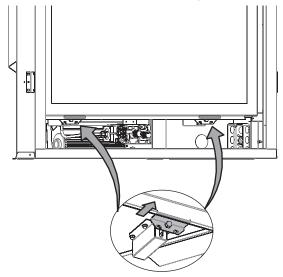


Figure 91

MAINTENANCE & SERVICE FOR THE HOMEOWNER

5. Place the top ledge of the barrier screen over the top edge of the glass frame and carefully lower it over the fireplace front.

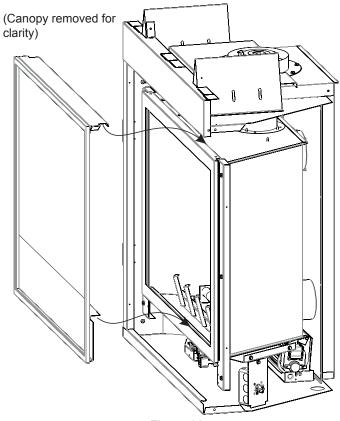


Figure 92

Television Considerations

Installing a television above a fireplace has become increasingly popular; however, the area above any fireplace gets hot and most TV manufacturers recommend against placing their products near a heat source.

If you install a television above this fireplace, Empire Comfort Systems accepts no responsibility for damage or injuries. Follow the television manufacturer's installation instructions, including any recommendations regarding proximity to heat sources. If you have a TV above your fireplace, turn off the fireplace and let it cool completely before servicing or touching any buttons on the TV.

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MASTER PARTS DISTRIBUTOR LIST

To Order Parts Under Warranty, please contact your local Empire dealer. See the dealer locator at www.empirecomfort. com. To provide warranty service, your dealer will need your name and address, purchase date and serial number, and the nature of the problem with the fireplace.

To Order Parts After the Warranty Period, please contact your dealer or one of the Master Parts Distributors listed below. This list changes from time to time. For the current list, please click on the Master Parts button at www.empirecomfort.

Please **NOTICE**: Master Parts Distributors are independent businesses that stock the most commonly ordered Original Equipment repair parts for Heaters, Grills, and Fireplaces manufactured by Empire Comfort Systems.

Dey Distributing

1401 Willow Lake Boulevard Vadnais Heights, MN 55101

Phone: 651-490-9191 **Toll Free:** 800-397-1339

Website: www.deydistributing.com Parts: Heater, Hearth and Grills

Victor Division of F. W. Webb Company

200 Locust Street Hartford, CT 06114

Phone: 860-722-2433 Toll Free: 800-243-9360 Fax: 860-293-0479

Toll Free Fax: 800-274-2004

Websites: www.fwwebb.com & www.victormfg.com

Parts: Heater, Hearth and Grills

East Coast Energy Products

10 East Route 36 West Long Branch, NJ 07764

Phone: 732-870-8809 Toll Free: 800-755-8809 Fax: 732-870-8811

Website: www.eastcoastenergy.com **Parts: Heater, Hearth and Grills**

HOW TO ORDER REPAIR PARTS

Parts Not Under Warranty

Parts can be ordered through your Service Person, Dealer, or a Master Parts Distributor. See this page for the Master Parts Distributors list. For best results, the **service person or dealer** should order parts through the distributor. Parts can be shipped directly to the **service person/dealer**.

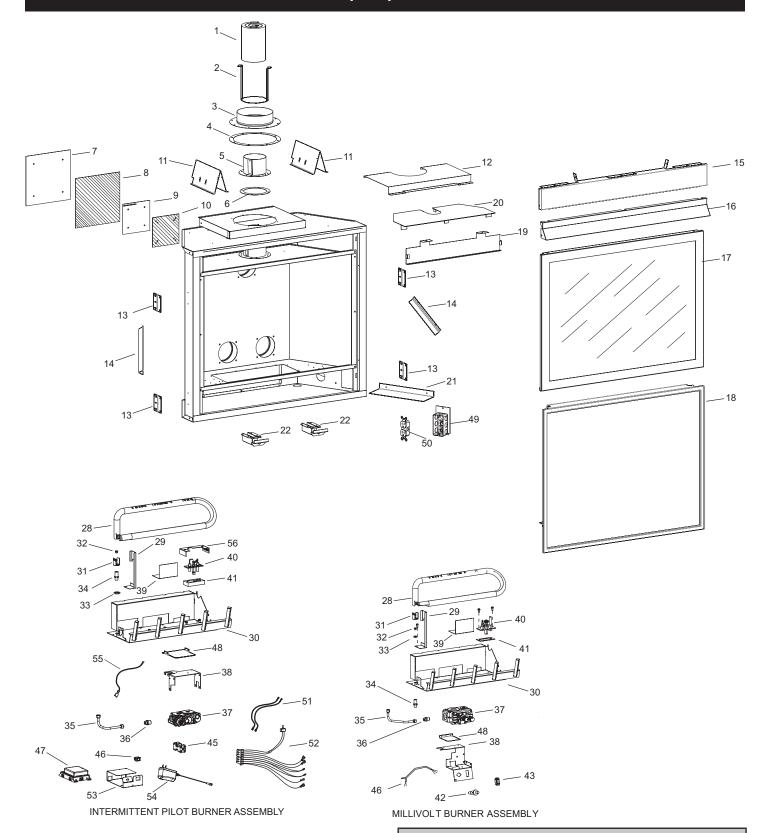
Warranty Parts

Warranty parts will need a proof of purchase and can be ordered by your Service Person or Dealer. Proof of purchase is **required** for warranty parts.

All parts listed in the Parts List have a Part Number. When ordering parts, first obtain the Model Number and Serial Number from the name plate on your equipment. Then determine the Part Number (**not** the Index Number) and the Description of each part from the following illustration and part list. Be sure to give all this information...

lowing industration and part list. Be sale to give all this information	•		
Fireplace Model Number	Part Description		
Fireplace Serial Number	Part Number		
Type of Gas (Propane or Natural)			
Do not order bolts, screws, washers or nuts. They are standard hard	lware items and can be purchased at any local hardware store.		
Shipments contingent upon strikes, fires and all causes beyond our control.			

DVCD32FP(3,7) PARTS VIEW



A WARNING

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

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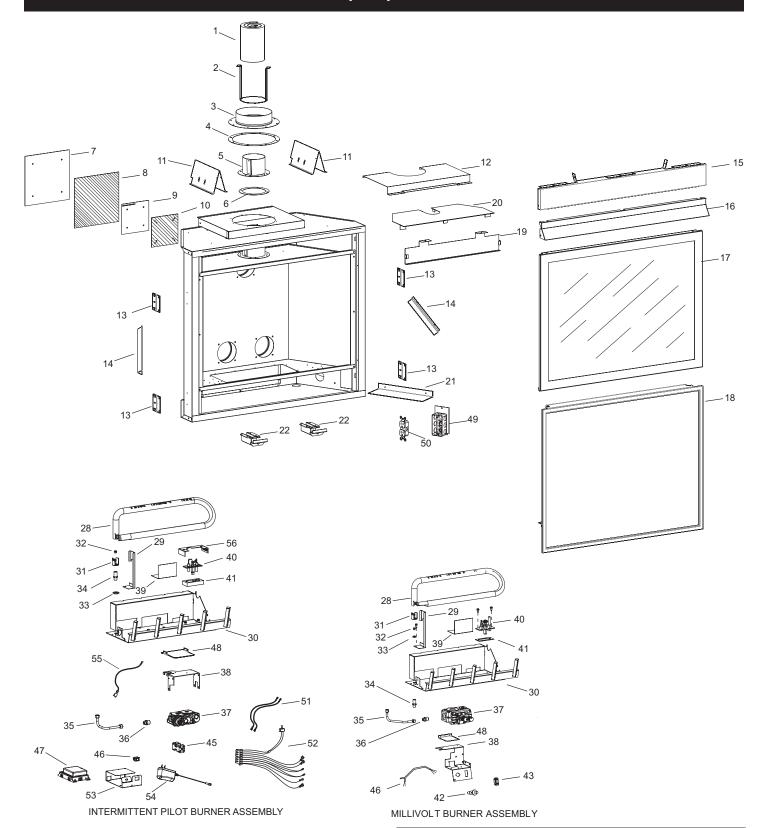
DVCD32FP(3,7) PARTS LIST

INDEX	PART NU	JMBER	
NO.	MV (FP3)	IP (FP7)	DESCRIPTION
1	R7654	R7654	Flue Insulation
2	17425	17425	Flue Insulation Retainer
3	R7566	R7566	Inlet Vent Adaptor
4	R7573	R7573	Inlet Vent Gasket
5	17155	17155	Flue Outlet Assembly
6	M163	M163	Flue Connector Gasket
7	17142	17142	Vent Cover Plate
8	R7575	R7575	Vent Cover Plate Gasket
9	17141	17141	Flue Cover Plate
10	R7574	R7574	Flue Outlet Gasket
11	23219	23219	Top Standoff (2 Required)
12	36179	36179	Top Shield
13	28688	28688	Nailing Flange (4 Required)
14	36190	36190	Side Standoff (2 Required)
15	36194	36194	Top Panel
16	28357	28357	Hood (Canopy)
17	17172	17172	Glass Door Frame Assembly
18	36171	36171	Barrier Screen Assembly
19	17174	17174	Baffle, Flue Vent
20	36197	36197	Heat Shield, Firebox
21	17357	17357	Junction Box Shield
22	16223	16223	Spring Latch Assembly
28	R7580	R7580	Burner Tube
29	17235	17235	Log Locator Bracket
30	33950	33950	Burner Base Plate Assembly
31	R7624	R7624	Air Shutter
32	P254	P254	Orifice (NAT)
32	P287	P287	Orifice (LPG)
33	R7572	R7572	Jamb Nut
34	P212	P212	Orifice Fitting
35	17258	31570	Tubing Assembly, Inlet
36	R2423	R2423	Male connector
37	R7577	R11125	Gas Valve (NAT)
37	R7578	R11126	Gas Valve (LPG)
38	17161	29400	Valve Bracket
39	17318	17318	Pilot Shield
40	R7612	R10423	Pilot Assembly (NAT)
40	R7611	R10424	Pilot Assembly (LPG)
41	R7617	R9189	Pilot Gasket
42	R9760	N/A	Piezo Ignitor
43	R3436	N/A	Remote OFF/ON Switch
44	R10947	N/A	Wire Assembly
45	N/A	R11122	Battery Holder

INDEX	PART NUMBER		DECODIDATION
NO.	MV (FP3)	IP (FP7)	DESCRIPTION
46	N/A	R2522	ON/OFF Switch
47	N/A	R11127	Control Module
48	36177	34109	Valve Heat Shield
49	17162	17162	Junction Box Assembly
50	R3492	R3492	Receptacle, 3-Prong
51	N/A	R2566	Wire 5-1/2 inch Black (Switch) (2 Required)
52	N/A	R11123	Wire Harness (Control Module)
53	N/A	29382	Tray, Control Module
54	N/A	R11128	AC Adaptor, 7.0 VDC
55	N/A	R11034	Wire Assembly (Sensor Adapter)
56	N/A	31300	Pilot Bracket
NS	28236	28236	Log Set
NS	R3491	R3491	Junction box Cover
NS	18704	18704	Decorative Rock
NS	15999	15999	Rock Wool (2 req)
NS	R7591	R7591	Flex Line

N/A - Not applicable for that model NS - Not shown on the parts view

DVCD36FP(3,7) PARTS VIEW



A WARNING

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

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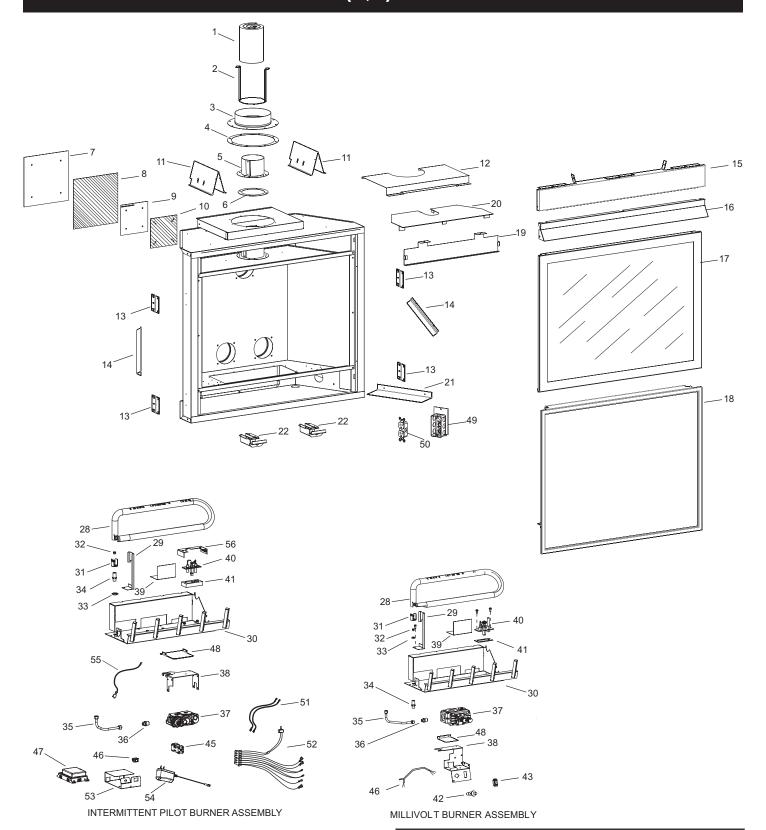
DVCD36FP(3,7) PARTS LIST

INDEX	PART NUMBER		
NO.	MV (FP3)	IP (FP7)	DESCRIPTION
1	R7654	R7654	Flue Insulation
2	17425	17425	Flue Insulation Retainer
3	R7566	R7566	Inlet Vent Adaptor
4	R7573	R7573	Inlet Vent Gasket
5	17155	17155	Flue Outlet Assembly
6	M163	M163	Flue Connector Gasket
7	17142	17142	Vent Cover Plate
8	R7575	R7575	Vent Cover Plate Gasket
9	17141	17141	Flue Cover Plate
10	R7574	R7574	Flue Outlet Gasket
11	23219	23219	Top Standoff (2 Required)
12	36179	36179	Top Shield
13	28688	28688	Nailing Flange (4 Required)
14	36190	36190	Side Standoff (2 Required)
15	36195	36195	Top Panel
16	28358	28358	Hood (Canopy)
17	17134	17134	Glass Door Frame Assembly
18	36172	36172	Barrier Screen Assembly
19	17143	17143	Baffle, Flue Vent
20	36198	36198	Heat Shield, Firebox
21	17357	17357	Junction Box Shield
22	16223	16223	Spring Latch Assembly
28	R7537	R7537	Burner Tube
29	17235	17235	Log Locator Bracket
30	33951	33951	Burner Base Plate Assembly
31	R7624	R7624	Air Shutter
32	P288	P288	Orifice (NAT)
32	P182	P182	Orifice (LPG)
33	R7572	R7572	Jamb Nut
34	P212	P212	Orifice Fitting
35	17258	31570	Tubing Assembly, Inlet
36	R2423	R2423	Male connector
37	R7577	R11125	Gas Valve (NAT)
37	R7578	R11126	Gas Valve (LPG)
38	17161	29400	Valve Bracket
39	17318	17318	Pilot Shield
40	R7612	R10423	Pilot Assembly (NAT)
40	R7611	R10424	Pilot Assembly (LPG)
41	R7617	R9189	Pilot Gasket
42	R9760	N/A	Piezo Ignitor
43	R3436	N/A	Remote OFF/ON Switch
44	R10947	N/A	Wire Assembly
45	N/A	R11122	Battery Holder

INDEX	PART N	UMBER	DECORIDATION
NO.	MV (FP3)	IP (FP7)	DESCRIPTION
46	N/A	R2522	ON/OFF Switch
47	N/A	R11127	Control Module
48	36177	34109	Valve Heat Shield
49	17162	17162	Junction Box Assembly
50	R3492	R3492	Receptacle, 3-Prong
51	N/A	R2566	Wire 5-1/2 inch Black (Switch) (2 Required)
52	N/A	R11123	Wire Harness (Control Module)
53	N/A	29382	Tray, Control Module
54	N/A	R11128	AC Adaptor, 7.0 VDC
55	N/A	R11034	Wire Assembly (Sensor Adapter)
56	N/A	31300	Pilot Bracket
NS	28373	28373	Log Set
NS	R3491	R3491	Junction box Cover
NS	18704	18704	Decorative Rock
NS	15999	15999	RockWool (2 req)
NS	R7591	R7591	Flex Line

N/A - Not applicable for that model NS - Not shown on the parts view

DVCD42FP(3,7) PARTS VIEW



A WARNING

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

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DVCD42FP(3,7) PARTS LIST

INDEX	PART NUMBER		
NO.	MV (FP3)	IP (FP7)	DESCRIPTION
1	R7654	R7654	Flue Insulation
2	17425	17425	Flue Insulation Retainer
3	R7566	R7566	Inlet Vent Adaptor
4	R7573	R7573	Inlet Vent Gasket
5	17155	17155	Flue Outlet Assembly
6	M163	M163	Flue Connector Gasket
7	17142	17142	Vent Cover Plate
8	R7575	R7575	Vent Cover Plate Gasket
9	17141	17141	Flue Cover Plate
10	R7574	R7574	Flue Outlet Gasket
11	23219	23219	Top Standoff (2 Required)
12	36179	36179	Top Shield
13	28688	28688	Nailing Flange (4 Required)
14	36190	36190	Side Standoff (2 Required)
15	36196	36196	Top Panel
16	28359	28359	Hood (Canopy)
17	17190	17190	Glass Door Frame Assembly
18	36173	36173	Barrier Screen Assembly
19	17197	17197	Baffle, Flue Vent
20	36199	36199	Heat Shield, Firebox
21	17357	17357	Junction Box Shield
22	16223	16223	Spring Latch Assembly
28	R7695	R7695	Burner Tube
29	21260	21260	Log Locator Bracket
30	33952	33952	Burner Base Plate Assembly
31	R7624	R7624	Air Shutter
32	P286	P286	Orifice (NAT)
32	P208	P208	Orifice (LPG)
33	R7572	R7572	Jamb Nut
34	P212	P212	Orifice Fitting
35	17337	31571	Tubing Assembly, Inlet
36	R2423	R2423	Male connector
37	R7577	R11125	Gas Valve (NAT)
37	R7578	R11126	Gas Valve (LPG)
38	17161	29400	Valve Bracket
39	17318	17318	Pilot Shield
40	R7612	R10423	Pilot Assembly (NAT)
40	R7611	R10424	Pilot Assembly (LPG)
41	R7617	R9189	Pilot Gasket
42	R9760	N/A	Piezo Ignitor
43	R3436	N/A	Remote OFF/ON Switch
44	R10947	N/A	Wire Assembly

INDEX	PART NUMBER		
NO.	MV (FP3)	IP (FP7)	DESCRIPTION
45	N/A	R11122	Battery Holder
46	N/A	R2522	ON/OFF Switch
47	N/A	R11127	Control Module
48	36177	34109	Valve Heat Shield
49	17162	17162	Junction Box Assembly
50	R3492	R3492	Receptacle, 3-Prong
51	N/A	R2566	Wire 5-1/2 inch Black (Switch) (2 Required)
52	N/A	R11123	Wire Harness (Control Module)
53	N/A	29382	Tray, Control Module
54	N/A	R11128	AC Adaptor, 7.0 VDC
55	N/A	R11034	Wire Assembly (Sensor Adapter)
56	N/A	31300	Pilot Bracket
NS	28380	28380	Log Set
NS	R3491	R3491	Junction box Cover
NS	18704	18704	Decorative Rock
NS	15999	15999	RockWool (2 required)
NS	R7591	R7591	Flex Line

N/A - Not applicable for that model NS - Not shown on the parts view

IMPORTANT SAFETY INFORMATION

Maintenance Precautions

Installation and repair should be done by a qualified service person. The fireplace should be inspected before use and at least annually by a qualified service person. More frequent cleaning might be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the fireplace be kept clean. Keep burner and control compartment clean.

Examine venting system periodically and replace damaged parts. Make a periodic visual check of pilot and burners. Clean and replace damaged parts.

Damaged Fireplace

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

In the event of a natural disaster (tornado, earthquake, fire, etc.) have a qualified technician inspect the fireplace for damage or potential gas leaks. Repair or replace any damaged components before operating this fireplace.

For the Installer

- · Leave these instructions with the homeowner.
- Replace any guard or protective device removed for servicing prior to operating the fireplace.
- During manufacture, this fireplace is treated with oils, films and bonding agents. These are not harmful but may produce smoke and odor as they burn off during initial operation. This is normal.
- Any modification to this fireplace or to controls can be dangerous. Improper installation or use of the fireplace can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.
- Follow all local codes regarding installation, combustion and ventilation air or in the absence of local codes follow the National Fuel Gas Code ANSI Z223.1 (US installation), or CAN/CGA-B149, Installation Code (Canada Installation)
- Due to high temperatures, the fireplace should be located out of traffic and away from furniture and draperies.
- This fireplace must not share or be connected to a flue serving a separate solid-fuel burning fireplace.
- A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this fireplace 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 fireplace.
- Any safety screen, guard, or barrier removed to service a fireplace must be replaced prior to operating the fireplace.
- If this fireplace is installed directly on carpeting, tile or other combustible material other than wood flooring the fireplace must be installed on a metal or wood panel extending the full width and depth of the fireplace.
 - The base referred to above does not mean the fireproof base as used on wood stoves. The protection is for rugs that are extremely thick and light colored tile.
- Use Non-Combustible Materials where indicated for the fireplace installation. Non-combustible materials do not ignite or burn as a result of using the fireplace. These include metal, brick, ceramic, concrete, slate, glass, and plaster. Adhesives must be rated for high temperatures (300°F +). Any mechanical fasteners used to install material must also be non-combustible, including wall anchors and tile spacers. Materials that pass the ASTM E 136 test (Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750C) are considered non-combustible.

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IMPORTANT SAFETY INFORMATION

For the Homeowner

- Installation and repair should be done by a qualified service person.
- A qualified service person must perform installation and repair. A qualified service person must inspect the fireplace before use and at least annually. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, hair from pets, etc. It is imperative that control compartments, burners and circulating air passageways of the fireplace be kept clean.
- A qualified service person must make a periodic visual check of pilot and burners to clean and replace damaged parts.
- During manufacture, this fireplace is treated with oils, films and bonding agents. These are not harmful but may produce smoke and odor as they burn off during initial operation. This is normal.
- Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Alert people – and especially children – to the hazards of high surface temperatures. This fireplace may become hot enough to burn skin and ignite clothing after prolonged contact. To prevent injury, caution people to stay clear and avoid touching the fireplace.
- Young children should be carefully supervised when they are
 in the same room as the fireplace. Toddlers, young children,
 and others may be susceptible to accidental contract 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.
- The vent cap, located on the outside of your home, will become very hot. Alert everyone, adults and children, to stay clear and avoid touching the vent cap. Keep the area around the vent cap clear of combustibles, including shrubs and trees.
- Keep the control compartments, burner and circulating air passageways of the fireplace clean.
- Clothing or other flammable material should not be placed on or near the fireplace. Keep the fireplace area clear and free from combustible material, gasoline and other flammable vapors and liquids.
- Do not use this fireplace if any part has been under water.
 Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.
- Under no circumstances should any solid fuels (wood, coal, paper or cardboard etc.) be used in this fireplace.
- This fireplace requires an unimpeded flow of air to circulate warm air. Do not place objects on or around the fireplace that may restrict air flow to or from the fireplace.
- Keep the area around the fireplace free of combustible materials – including drapery, upholstered furniture, paper, boxes, and clothing.
- The glass front or any part removed for servicing the fireplace must be replaced prior to operating the fireplace.
 Work should be done by a qualified service person.

SAFETY INFORMATION FOR USERS OF LP GAS

Propane (LP-Gas) is a flammable gas which can cause fires and explosions. In its natural state, propane is odorless and colorless. You may not know all the following safety precautions which can protect both you and your family from an accident. Read them carefully now, then review them point by point with the members of your household. Someday when there may not be a minute to lose, everyone's safety will depend on knowing exactly what to do. If, after reading the following information, you feel you still need more information, please contact your gas supplier.

LP-GAS WARNING ODOR

If a gas leak happens, you should be able to smell the gas because of the odorant put in the LP-Gas. That's your signal to go into immediate action!

- Do not operate electric switches, light matches, or use your phone. Do not do anything that could ignite the gas.
- Get everyone out of the building, vehicle, trailer, or area. Do that IMMEDIATELY.
- Close all gas tank or cylinder supply valves.
- LP-Gas is heavier than air and may settle in low areas such as basements. When you have reason to suspect a gas leak, keep out of basements and other low areas. Stay out until firefighters declare them to be safe.
- Use your neighbor's phone and call a trained LP-Gas service person and the fire department. Even though you may not continue to smell gas, do not turn on the gas again. Do not re-enter the building, vehicle, trailer, or area.
- Finally, let the service man and firefighters check for escaped gas. Have them air out the area before you return. Properly trained LP-Gas service people should repair the leak, then check and relight the gas fireplace for you.

NO ODOR DETECTED - ODOR FADE

Some people cannot smell well. Some people cannot smell the odor of the chemical put into the gas. You must find out if you can smell the odorant in propane. Smoking can decrease your ability to smell. Being around an odor for a time can affect your sensitivity or ability to detect that odor. Sometimes other odors in the area mask the gas odor. People may not smell the gas odor or their minds are on something else. Thinking about smelling a gas odor can make it easier to smell.

The odorant in LP-Gas is colorless, and it can fade under some circumstances. For example, if there is an underground leak, the movement of the gas through soil can filter the odorant. Odorants in LP-Gas also are subject to oxidation. This fading can occur if there is rust inside the storage tank or in iron gas pipes. The odorant in escaped gas can adsorb or absorb onto or into walls, masonry and other materials and fabrics in a room. That will take some of the odorant out of the gas, reducing its odor intensity.

LP-Gas may stratify in a closed area, and the odor intensity could vary at different levels. Since it is heavier than air, there may be more odor at lower levels. Always be sensitive to the slightest gas odor. If you detect any odor, treat it as a serious leak. Immediately go into action as instructed earlier.

SOME POINTS TO REMEMBER

- Learn to recognize the odor of LP-Gas. Your local LP-Gas
 Dealer can give you a "Scratch and Sniff" pamphlet. Use it
 to find out what the propane odor smells like. If you suspect
 that your LP-Gas has a weak or abnormal odor, call your LPGas Dealer.
- If you are not qualified, do not light pilot lights, perform service, or make adjustments to appliances on the LP-Gas system. If you are qualified, consciously think about the odor of LP-Gas prior to and while lighting pilot lights or performing service or making adjustments.
- Sometimes a basement or a closed-up house has a musty smell that can cover up the LP-Gas odor. Do not try to light pilot lights, perform service, or make adjustments in an area where the conditions are such that you may not detect the odor if there has been a leak of LP-Gas.
- Odor fade, due to oxidation by rust or adsorption on walls of new cylinders and tanks, is possible. Therefore, people should be particularly alert and careful when new tanks or cylinders are placed in service. Odor fade can occur in new tanks, or reinstalled old tanks, if they are filled and allowed to set too long before refilling. Cylinders and tanks which have been out of service for a time may develop internal rust which will cause odor fade. If such conditions are suspected to exist, a periodic sniff test of the gas is advisable. If you have any question about the gas odor, call your LP-Gas dealer. A periodic sniff test of the LP-Gas is a good safety measure under any condition.
- If, at any time, you do not smell the LP-Gas odorant and you think you should, assume you have a leak. Then take the same immediate action recommended above for the occasion when you do detect the odorized LP-Gas.
- If you experience a complete "gas out," (the container is under no vapor pressure), turn the tank valve off immediately. If the container valve is left on, the container may draw in some air through openings such as pilot light orifices. If this occurs, some new internal rusting could occur. If the valve is left open, then treat the container as a new tank. Always be sure your container is under vapor pressure by turning it off at the container before it goes completely empty or having it refilled before it is completely empty.

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REQUIREMENTS FOR MASSACHUSETTS

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

- INSTALLATION OF CARBON MONOXIDE DETECTORS. At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gasfitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors
 - a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
 - b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty days to comply with the above requirements; provided, however, that during said thirty day period, a battery operated carbon monoxide detector with an alarm shall be installed.
- APPROVED CARBON MONOXIDE DETECTORS. Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

- 3. SIGNAGE. A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating fireplace or equipment. The sign shall read, in print size no less than 1/2 inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".
- 4. INSPECTION. The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a) 1 through 4.
 - (b) EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:
 - The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
 - Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.
 - (d) MANUFACTURER REQUIREMENTS GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED. When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:
 - The referenced "special venting system" instructions shall be included with the fireplace or equipment installation instructions; and
 - 2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instruction.
 - (e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the fireplace or equipment at the completion of the installation.

WARRANTY

Empire Comfort Systems Inc. warranties this hearth product to be free from defects at the time of purchase and for the periods specified below. Hearth products must be installed by a qualified technician and must be maintained and operated safely, in accordance with the instructions in the owner's manual. This warranty applies to the original purchaser only and is not transferable. All warranty repairs must be accomplished by a qualified gas appliance technician.

Limited Lifetime Parts Warranty – Combustion Chamber, Heat Exchanger, and Factory-Installed Glass

- If the combustion chamber, heat exchanger (see parts list) or factory-installed glass fails because of defective workmanship or material, Empire will repair or replace at Empire's option.
- Limited Three-Year Parts Warranty All Other Components
- (Except Remote Controls, Thermostats, Accessories and Replacement Parts)
- Should any part fail because of defective workmanship or material within three years from the date of purchase, Empire will repair or replace at Empire's option.

Limited One-Year Parts Warranty – Remote Controls, Thermostats, Accessories, and Parts

 Should any remote control, thermostat, accessory, or other part fail because of defective workmanship within one year from the date of purchase, Empire will repair or replace at Empire's option.

Duties of the Owner

- The appliance must be installed by a qualified installer and operated in accordance with the instructions furnished with the appliance.
- A bill of sale, cancelled check, or payment record should be kept to verify purchase date and establish warranty period.
- Ready access to the appliance for service.

What Is Not Covered

- Damages that might result from the use, misuse, or improper installation of this appliance.
- Travel, diagnostic costs and freight charges on warranted parts to and from the factory.
- Claims that do not involve defective workmanship or materials.
- Unauthorized service or parts replacements.
- Removal and reinstallation cost.
- Inoperable due to improper or lack of maintenance.

How To Get Service

- To make a claim under this warranty, please have your receipt available and contact your installing dealer. Provide the dealer with the model number, serial number, type of gas, and purchase verification. The installing dealer is responsible for providing service and will contact the factory to initiate any warranted parts replacements. Empire will make replacement parts available at the factory. Shipping expenses are not covered.
- If, after contacting your Empire dealer, service received has not been satisfactory, contact: Consumer Relations Department, Empire Comfort Systems Inc., PO Box 529, Belleville, Illinois 62222, or send an e-mail to info@ empirecomfort.com with "Consumer Relations" in the subject line.

Your Rights Under State Law

 This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.



Empire Comfort Systems Inc. Belleville, IL 62220

If you have a general question about our products, please e-mail us at info@empirecomfort.com.

If you have a service or repair question, please contact your dealer.

www.empirecomfort.com

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