EMPIRE INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

INSTALLER:

Leave this manual with the appliance.

CONSUMER:

Retain this manual for future reference.

A WARNING

FIRE OR EXPLOSION HAZARD

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

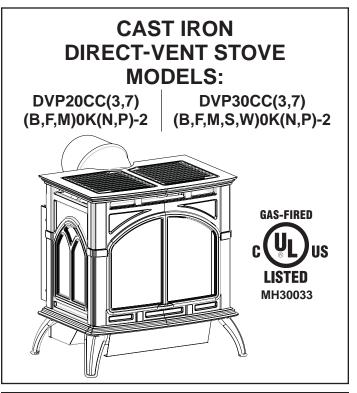
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Leave the building immediately.
 - 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.

AWARNING



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.



Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

This appliance may be installed in an aftermarket permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.



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.

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IMPORTANT SAFETY INFORMATION

Before enclosing the vent pipe assembly, operate the appliance to ensure it is venting properly.

DO NOT OPERATE THIS APPLIANCE WITHOUT GLASS FRONT PANEL INSTALLED

- 1. "Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies."
- "Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition."
- 3. "Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children, and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children, and other at-risk individuals out of the room and away from hot surfaces."
- 4. For appliances requiring a barrier, as determined under Clause 5.15.4: "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."
- 5. "If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance."

- 6. "Clothing or other flammable material should not be placed on or near the appliance."
- 7. "Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance" (see Clause 4.1.6).
- 8. "Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning might be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean."
- 9. The instructions for an appliance optionally for use with glass doors (or equivalent) shall state that, "Only doors certified with the appliance shall be used."
- 10. The instructions for an appliance not intended for use with glass doors (or equivalent) shall emphasize that the appliance is not for use with glass doors.
- 11. Where applicable, provide a means by which the consumer can identify the barrier, (such as graphic representation, clear description, or reference marking).

CARBON MONOXIDE POISONING HAZARD

Failure to follow the steps outlined below for each appliance connected to the venting system being placed into operation could result in carbon monoxide poisoning or death. The following steps shall be followed for each appliance connected to the venting system being placed into operation, while all other appliances connected to the venting system are not in operation:

- 1. Seal any unused openings in the venting system.
- Inspect the venting system for proper size and horizontal pitch, as required in the National Fuel Gas Code ANSI Z223.1/NFPA 54 or the National Gas and Propane Installation Code CSA B149.1 and these instructions. Determine that there is no blockage or restriction, leakage, corrosion and other deficiencies which could cause an unsafe condition.
- As far as practical, close all building doors and windows and all doors between the space in which the appliance(s) connected to the venting system are located and other spaces of the building.
- 4. Close fireplace dampers.

- 5. Turn on clothes dryers and any appliance not connected to the venting system. Turn on any exhaust fans, such as range hoods and bathroom exhausts, so they are operating at maximum speed. Do not operate a summer exhaust fan.
- 6. Follow the lighting instructions. Place the appliance being inspected into operation. Adjust the thermostat so appliance is operating continuously.
- 7. Test for spillage from draft hood equipped appliances at the draft hood relief opening after 5 minutes of main burner operation. Use the flame of a match or candle.
- If improper venting is observed during any of the above tests, the venting system must be corrected in accordance with *National Fuel Gas Code*, ANSI Z223.1/NFPA and/or *National Gas and Propane Installation Code*, CSA B149.1.
- After it has been determined that each appliance connected to the venting system properly vents when tested as outlined above, return doors, windows, exhaust fans, fireplace dampers and any other gas-fired burning appliance to their previous conditions of use.

SAFETY INFORMATION FOR USERS OF PROPANE GAS

Propane 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.

PROPANE GAS WARNING ODOR

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

- Do not operate electric switches, light matches, 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.
- Propane 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 Propane 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 Propane Gas service people should repair the leak, then check and relight the gas appliance 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 Propane 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 Propane 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.

Propane 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 Propane Gas. Your local Propane 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 Propane Gas has a weak or abnormal odor, call your Propane Gas Dealer.
- If you are not qualified, do not light pilot lights, perform service, or make adjustments to appliances on the Propane Gas system. If you are qualified, consciously think about the odor of Propane 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 Propane 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 Propane 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 Propane Gas Dealer. A periodic sniff test of the Propane Gas is a good safety measure under any condition.
- If, at any time, you do not smell the Propane 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 Propane 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.

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:

- 1. 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 appliance or equipment. The sign shall read, in print size no less than one-half 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:
 - 1. 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
 - 2. 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 EQUIP-MENT 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:
 - 1. The referenced "special venting system" instructions shall be included with the appliance 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) Acopy of all installation instructions for all ProductApproved 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 appliance or equipment at the completion of the installation.

INTRODUCTION

Instructions to Installer

- 1. Installer must leave instruction manual with owner after installation.
- 2. Installer must have owner fill out and mail warranty card supplied with the stove.

3. Installer should show owner how to start and operate the stove. This direct vent gas stove heater is designed to operate with all combustion air being siphoned from the outside of the building and all exhaust gases expelled to the outside of the building. The information contained in this manual pertains to all models and gas control systems unless otherwise noted.

This unit is not for use with solid fuels.

NOTICE: During initial firing of this unit, its paint will bake out and smoke will occur. To prevent triggering of smoke alarms, ventilate the room in which the unit is installed.

NOTICE: Remove screw in valve cover. Screw is required to prevent shipping damage.

Appliance must not be connected to a chimney flue that is servicing a separate solid-fuel burning appliance.

Installation in Residential Garages

Gas utilization equipment in residential garages shall be installed so that all burners and burner ignition devices are located not less than 18" (457 mm) above the floor.

Such equipment shall be located, or protected, so it is not subject to physical damage by a moving vehicle.

Appliance Certification

This stove is design certified in accordance with American National Standard/CSAStandardANSIZ.21-88/CSA2.33 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 inspections.

The stove, when installed with blower, 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.

These models may be installed in a bedroom or bed-sitting room in the U.S.A. and Canada.

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.

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.

A WARNING

ANY CHANGE TO THIS STOVE OR ITS CONTROLS CAN BE DANGEROUS.

Improper installation or use of the stove can cause serious injury or death from fire, burns, explosions, or carbon monoxide poisoning.

Any alteration of the original design, installed 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.

Important

All correspondence should refer to complete Model Number, Serial Number and type of gas.

High Altitude

When installing this unit 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 unit 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.

Preparation

This direct vent gas stove and its components are tested and safe when installed in accordance with this Installation Manual. Report to your dealer any parts damaged in shipment, specifically check glass condition. Do not install unit with damaged, incomplete, or substitute parts. Read all instructions before starting installation and follow these instructions carefully during installation to insure maximum benefit and safety. Failure to follow them will void your warranty and may present a fire hazard.

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

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

SPECIFICATIONS

MODEL	DVP20CC		DVP	30CC
Gas Type	Natural Gas	Propane Gas	Natural Gas	Propane Gas
Input BTU/HR (KW/H) Max	19,500		26,	500
Input BTU/HR (KW/H) Min	13,500		18,000	21,000
Gas Inlet (Pipe)	3/	8"	3/8"	
Orifice	2.15mm	55	39	1.55mm
Air Shutter Setting	1/8"	Full Open	3/16"	Full Open
Gas Supply Pressure Max	10.5" W.C. / 2.614 kPa	13.0" W.C. / 3.237 kPa	10.5" W.C. / 2.614 kPa	13.0" W.C. / 3.237 kPa
Gas Supply Pressure Min	4.5" W.C. / 1.121 kPa	11.0" W.C. / 2.739 kPa	4.5" W.C. / 1.121 kPa	11.0" W.C. / 2.739 kPa
Gas Supply Pressure Manifold	3.5" W.C. / .872 kPa	10.0" W.C. / 2.490 kPa	3.5" W.C. / .872 kPa	10.0" W.C. / 2.490 kPa
Height	24-	1/8"	27-	3/4"
Width	21-	1/2"	28-1	1/16"
Depth	16-	1/2"	1	8"
VENTING ACCESSORI	ES (SPECIAL VENT KITS - SIMPSO	N DURAVENT CAN BE PURCHAS	ED FROM EMPIRE COMFORT SY	STEMS INC.)
DVKHP (requires SD46DVAE45B)	Horizontal Vent Kit for DVP30CCLF	P Only (46DVA-24B, 46DVA-09B, 46D		6DVA-HC, 46DVA-E90B)
DVK45LP	Horizontal Direct-Vent 45-Deg kit 58DVAWT, SD58DVAHSCH)	for DVP20CC Propane Only (SD46	DVAE45B, SD09261TB (adaptor 4	x6 to 5x8), SD58DVADC, SD-
DVK45NAT	Horizontal Direct-Vent 45-Deg kit for	DVP20CC Natural Only (SD46DVAE4	15B, SD46DVA12B, SD46DVADC, SD	46DVAWT, SD46DVAHC)
DVKVP45	Vertical Direct-Vent 45-Deg kit for E A12B, SD46DVA17B, SD46DVADC	OVP20CC Propane and Natural and E C, SD46DVAWT, SD46DVAHC)	DVP30CC Natural Only (SD46DVAE4	5B, SD46DVAE90B, SD46DV-
NOTE: On horizontal applications, snorkel kits m	ay be used. DVP20CC(LP,NAT) and D	VP30CCNAT: SD-46DVASNK14 (14 i	nch pipe snorkel) DVP30CCLP: SD-4	6DVASNK36 (36 inch pipe snorkel)
		ACCESSORIES		
TMV		Millivolt Wall Therm	ostat - Reed Switch	
FRBC		Battery Operated	d Remote Control	
FRBTC		Battery Operated Remote	e Control with Thermostat	
FREC		Electric Rer	note Control	
FWS		Walls	Switch	
FRBTP		7-Day Progran	nmable Remote	
TRW		Remote Wa	II Thermostat	
CIB3	Automatic Blower (DVP30CC)			
CIB4		Automatic Blow	ver (DVP20CC)	
	STONE INLAY REPLACES ST	ANDARD GRILL TOP - DVP30C	C30 MODELS ONLY	
CSI-8V		Stone Inlay -	Venetian Gold	
CSI-9A	Stone Inlay - Adobe Frost			
CSI-10M	Stone Inlay - Patina Mocha			
CSI-11G		Stone Inlay -	Temple Gray	
CSI-12A		Stone Inlay - A	merican Beauty	
	CAST IRON STOVE SI	DE SHELF KIT (INCLUDES LEF	FT & RIGHT)	
CSK-B		Side Shelf Kit -	Porcelain Black	
CSK-F	Side Shelf Kit - Matte Black			
CSK-M		Side Shelf Kit -Po	orcelain Mahogany	
CSK-S		Side Shelf Kit - Porcelai	n Sand (DVP30CC Only)	
CSK-W	Side Shelf Kit - Matte Pewter (DVP30CC Only)			
CONVERSION KITS				
Part Number	Description	Use	d On	Valve Type
31051	Propane to Natural	DVP20	DCC30	MV
31052	Natural to Propane	DVP20	DCC30	MV
31053	Propane to Natural	DVP20	DCC70	IP
31054	Natural to Propane	DVP20	DCC70	IP
31057	Propane to Natural	DVP30	DCC30	MV
31058	Natural to Propane	DVP30	DCC30	MV
31059	Propane to Natural	DVP30	DCC70	IP
31060	Natural to Propane	DVP30	DCC70	IP

GAS SUPPLY

Consult the current National Fuel Gas Code, ANSI Z223.1 CAN/ CGA-B149 (.1 or .2) installation code.

RECOMMENDED GAS PIPE DIAMETER				
Pipe Schedule 40 Pipe Tubing, T Inside Diameter Outside Dia				
Length	Natural	Propane	Natural	Propane
0-10 feet	1/2"	3/8"	1/2"	3/8"
0-3 meters	12.7 mm	9.5 mm	12.7 mm	9.5 mm
10-40 feet	1/2"	1/2"	5/8"	1/2"
4-12 meters	12.7 mm	12.7 mm	15.9 mm	12.7 mm
40-100 feet	1/2"	1/2"	3/4"	1/2"
13-30 meters	12.7 mm	12.7 mm	19 mm	12.7 mm
100-150 feet	3/4"	1/2"	7/8"	3/4"
31-46 meters	19 mm	12.7 mm	22.2 mm	19 mm

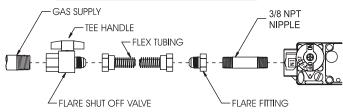
NOTE: Never use plastic pipe. Check to confirm whether your local codes allow copper tubing or galvanized.

NOTE: Since some municipalities have additional local codes, it is always best to consult your local authority and installation code.

- The use of the following gas connectors is recommended:
- ANS Z21.24 Appliance Connectors of Corrugated Metal Tubing and Fittings
- ANS 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 Commonwealth of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.





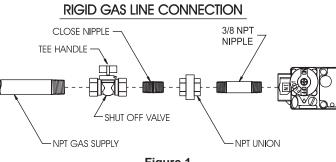


Figure 1

Installing a New Main Gas Shut-Off

Each appliance should have its own manual gas shut-off.

A manual main gas shut-off should be located in the vicinity of the unit. Where none exists, or where its size or location is not adequate, contact your local authorized installer for installation or relocation.

Compounds used on threaded joints of gas piping shall be resistant to the action of liquefied petroleum gases. The gas lines must be checked for leaks by the installer. This should be done with a soap solution watching for bubbles on all exposed connections, and if unexposed, a pressure test should be made.

Never use an exposed flame to check for leaks. Appliance must be disconnected from piping at inlet of control valve and pipe capped or plugged for pressure test. Never pressure test with appliance connected; control valve will sustain damage!

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

A gas valve and ground joint union should be installed in the gas line upstream of the gas control to aid in servicing. It is required by the National Fuel Gas Code that a drip line be installed near the gas inlet. This should consist of a vertical length of pipe tee connected into the gas line that is capped on the bottom in which condensation and foreign particles may collect.

When using copper or flex connector use only approved fittings. **Always provide a union** so that gas line can be easily disconnected for burner servicing.

The appliance and it's individual shut off valve must be disconnected from supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

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

Checking Manifold Pressure

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" w.c. (.871 kPa) for maximum input or 1.7" w.c. (.423 kPa) for minimum input at the valve outlet with the inlet pressure to the valve from a minimum of 5.0" w.c. (1.245 kPa) for the purpose of input adjustment to a maximum of 10.5" w.c. (2.615 kPa). Propane Gas models will have a manifold pressure approximately 10.0" w.c. (2.49 kPa) for maximum input or 5.9" w.c. (1.469 kPa) for minimum input at the valve outlet with the inlet pressure to the valve from a minimum of 1.0" w.c. (2.739 kPa) for the purpose of input adjustment to a maximum of 13.0" w.c. (3.237 kPa).

A 1/8" (3 mm) N.P.T. plugged tapping, accessible for test gauge connection, is located on the outlet side of the gas control.

CLEARANCES

In selecting a location for installation, it is necessary to provide adequate accessibility clearances for servicing and proper operation.

Locating and Venting the Direct Vent Stove

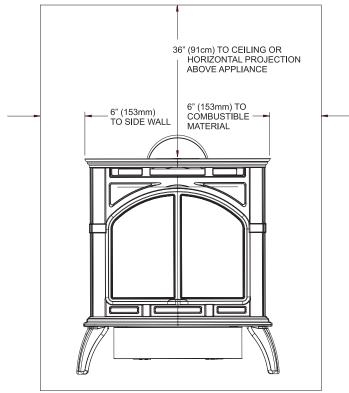
Clearances: When facing the front of the direct vent stove the minimum clearances to combustible construction (material) are the following:

- Top of appliance (ceiling)
 Rear Wall
 Side Wall
 Heater Corners (45° angle) to Wall
 4" (101.6 mm)
- Floor

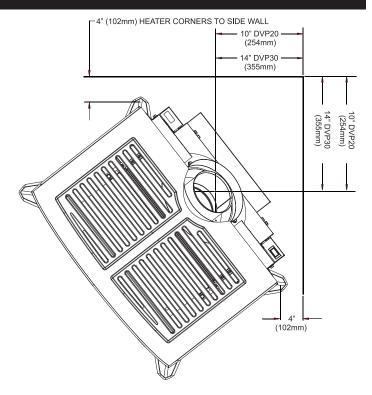
Installation on Rugs and Tile

This appliance must be installed on a flat, solid, continuous surface (e.g. wood, metal, concrete). This may be the floor, or it may be raised up on a platform to enhance its visual impact. The continuous surface may be covered with carpeting, vinyl, wood flooring or other combustible material.

0" (0 mm)







NOTE: HEATER INSTALLED AT 45° ANGLE IN CORNER

Figure 3

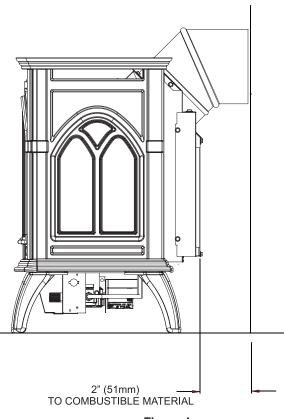


Figure 4

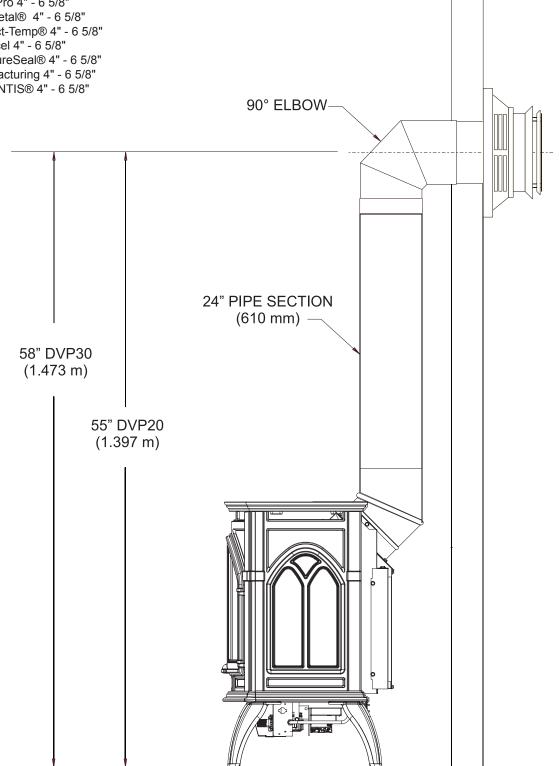
CLEARANCES (CONT'D)

Special Vent Systems

The following vent systems are acceptable for use with the DVP(20,30)CC stoves:

- Empire Horizontal Round Termination Kits DVVK-4RE, **DVVK-4REVS**
- Empire Horizontal Round Flex Termination Kits DVVK-4FRE, DVVK-4FREVS
- Duravent® Pro 4" 6 5/8" •
- American Metal® 4" 6 5/8" •
- Selkirk Direct-Temp® 4" - 6 5/8"
- ICC Inc. Excel 4" 6 5/8" •
- MetalFab SureSeal® 4" 6 5/8" •
- BDM Manufacturing 4" 6 5/8" •
- Olympia VENTIS® 4" 6 5/8" •

NOTE: American Metal®, Selkirk Direct-Temp®, MetalFab SureSeal®, BDM Manufacturing, and ICC Inc. Excel CAN NOT be used in side wall horizontal vent installations in the Commonwealth of Massachusetts.



VENTING STOVE

Special Venting Notes:

- DVP20CCNAT can be vented horizontally with kit DVK45NAT maximum 18".
- **DVP20CCLP** can be vented horizontally with kit DVK45LP maximum 18".
- DVP20CC(LP,NAT) can use a 14" short snorkel or 36" tall snorkel.
- DVP30CC (NATURAL) Can be vented horizontally straight out the back of stove if a minimum 14" snorkel is used. Or, if venting horizontally, a 12" vertical vent is required off the back of the stove before turning with an elbow horizontally out the wall. See page 12.
- DVP30CC (PROPANE) Can be vented horizontally straight out the back of the stove if a 36" snorkel is used. Or, if venting horizontally, a 24" vertical vent is required off the back of the stove before turning with an elbow horizontally out the wall. See page 12.

Total vertical run MUST BE completed before starting horizontal run. Horizontal chimney run must slope upward (away from stove) 1/4" per foot and vent termination must be level.

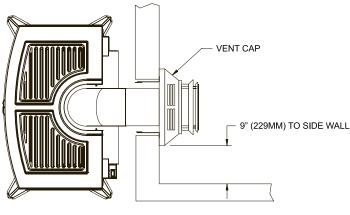
Sidewall Venting

The maximum vertical and horizontal distances are 25 feet and 12 feet, respectively. Vertical dimensions are based on top of stove to centerline of pipe. Horizontal dimensions are based on centerline of pipe to termination.

Under no circumstances should combustible materials (including siding) be closer than 3" from the top of the 6 5/8" pipe or closer than 1" on the sides and bottom.

Cutting the Hole

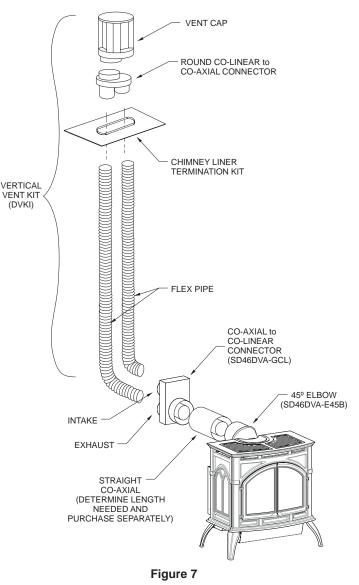
After the appliance has been positioned in its permanent location, the hole through the exterior wall of the house can be cut. This hole needs to be 10" high x 9" wide for 4 x 6 pipe and 12-1/2 high x 10-1/2 wide for 5 x 8 pipe with its center line determined by the amount of vertical arise and horizontal run of the termination. When locating the hole it must be noted that the bottom of the cap must be 12" above the ground level, and top of the cap must be no less than 18" below a combustible projection, and no closer than 9" to any wall running parallel to vent termination.





Co-Linear to Co-Axial Connection

A Co-Axial to Co-Linear appliance connector is approved for installation in vertical venting applications. One can be purchased through Empire Comfort Systems or Simpson Dealer (part number 46DVA-GCL).



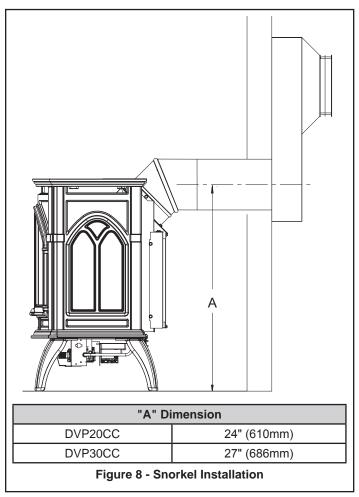
VENTING STOVE (CONT'D)

Venting Graph (Dimensions in Feet)

- 1. Determine the height of the center of the termination. Using this dimension on the Venting Graph, locate the point it intersects with the slanted graph line, or the right edge of the graph.
- 2. From the point of this intersection, draw a vertical line to the bottom of the graph.
- 3. Adjust the indicated maximum dimension for additional elbows if necessary.
- 4. Position the unit so that maximum horizontal run is not exceeded.

Venting Requirements

- Minimum vertical rise from appliance outlet before any elbows = 12 inches (305mm) for DVP20CC(LP,NAT) and DVP30CCNAT and 24 inches (610 mm) for DVP30CCLP.
- Maximum vertical rise from appliance outlet = 40 feet (12.19 m).
- Maximum vertical rise and horizontal run is a combined total of 25 feet (7.62 m).
- Maximum elbows = two 90°, for the second elbow subtract 5 feet from a horizontal run.



VENTING STOVE (CONT'D)

To Use the Vent Graph EXAMPLE A:

If the vertical rise from the appliance outlet is 21 feet, the horizontal run to the outer wall flange of the vent termination must not exceed 4 feet with one 90° elbow.

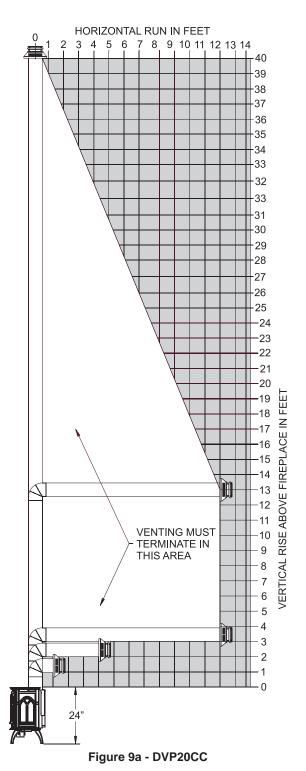
EXAMPLE B:

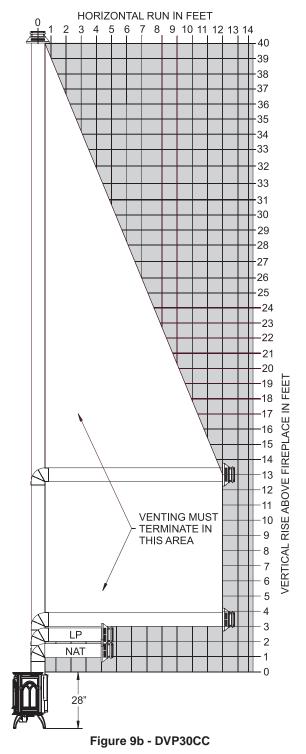
If the vertical rise from the appliance outlet is 14 feet, the horizontal run to the outer wall flange of the vent termination must not exceed 11 feet with one 90° elbow.

SPECIAL NOTE: For each 45 degree elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18 inches (457.2 mm). This does not apply if the 45 degree elbows are installed on the vertical rise of the vent system.

Example: According to the chart the maximum horizontal run is 12 feet and if two 45 degree elbows are required in the horizontal run it must be reduced to 9 feet.

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





TERMINATION CLEARANCES

Termination clearance for buildings with combustible and noncombustible exteriors.

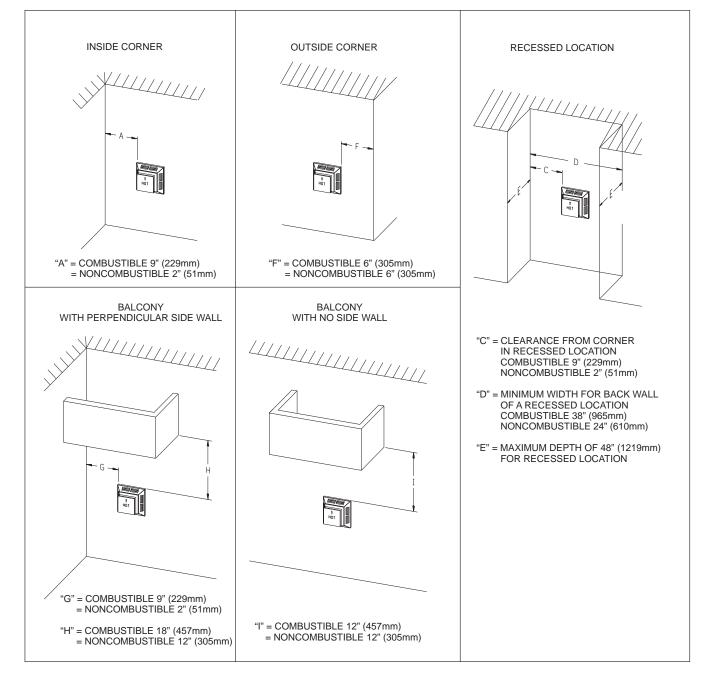


Figure 10

Vertical Sidewall Installations

Important! Minimum clearance between vent pipes and combustible materials is one inch (25 mm) on, bottom and sides and three inches (51 mm) on top.

Important! When vent termination exits through foundation less than 20" below siding outcrop, the vent pipe must flush up with the siding. 46-DVA-HC termination cap must also be used.

Information on Various Venting Routes and Components Important: It is always best to locate the appliance in such a way that minimizes the number of offsets and horizontal vent length.

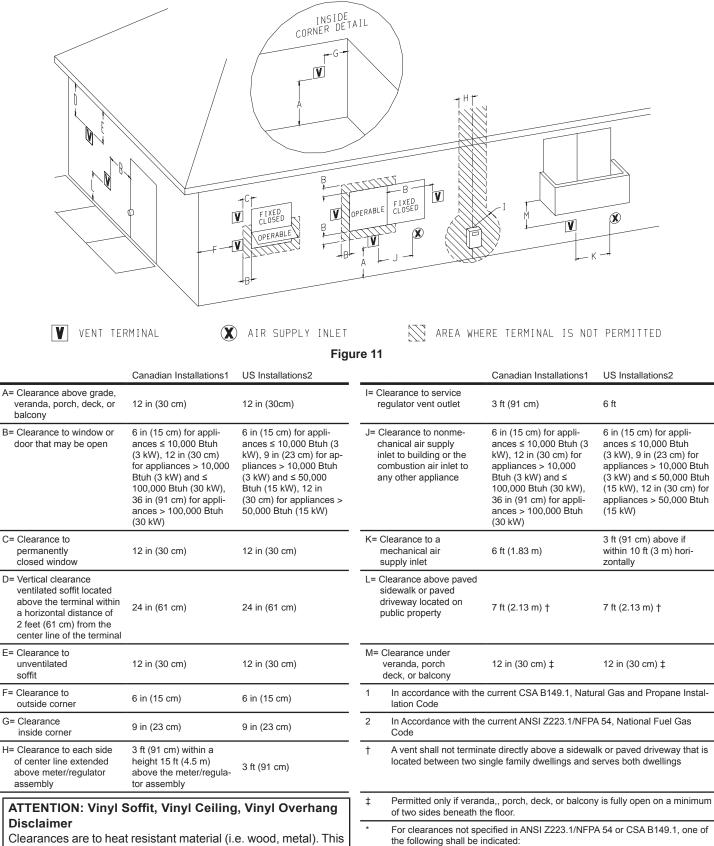
Since it is very important that the venting system maintain its balance

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 vent elbow of the appliance to the face of the outer wall.

VENT CLEARANCES



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

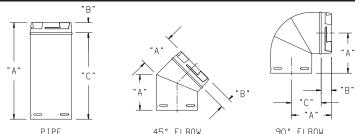
VENT SYSTEM IDENTIFICATION

Installing Vent Components

Begin the vent system installation by installing the first Simpson Duravent component on the top of the appliance with a 45° elbow and rotate the vent elbow to the desired position then add horizontal and vertical pipe lengths and then a horizontal or vertical termination kit. Elbows can be added where necessary. See Pages 11 through 15 for venting requirements.

Simpson Duravent vent system components lock into place by sliding the concentric pipe section with four equally spaced interior beads onto the appliance collar or previously installed component end with four equally spaced indented sections. When the internal beads of each starting 6 5/8 inch outer pipe line up, rotate pipe section clockwise 90° (approximately 3 inches). The vent pipe is now locked together.

Continue adding components per the pre-planned vent system configuration. Be certain that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.



PIPE	42 ELBUM		90 ELBUW
PART NAME	"A"	"B"	"C"
6" PIPE	6" (152 mm)	1 1/2" (38 mm)	4 1/2" (114 mm)
9" PIPE	9" (229 mm)	1 1/2" (38 mm)	7 1/2" (191 mm)
12" PIPE	12" (305 mm)	1 1/2" (38 mm)	10 1/2" (267 mm)
24" PIPE	24" (610 mm)	1 1/2" (38 mm)	22 1/2" (572 mm)
36" PIPE	36" (914 mm)	1 1/2" (38 mm)	34 1/2" (876 mm)
48" PIPE	48" (1.220 m)	1 1/2" (38 mm)	46 1/2" (1.18 m)
45° ELBOW	5 1/2" (140 mm)	1 1/2" (38 mm)	
90° ELBOW	6 1/2" (165 mm)	1 1/2" (38 mm)	5" (127 mm)



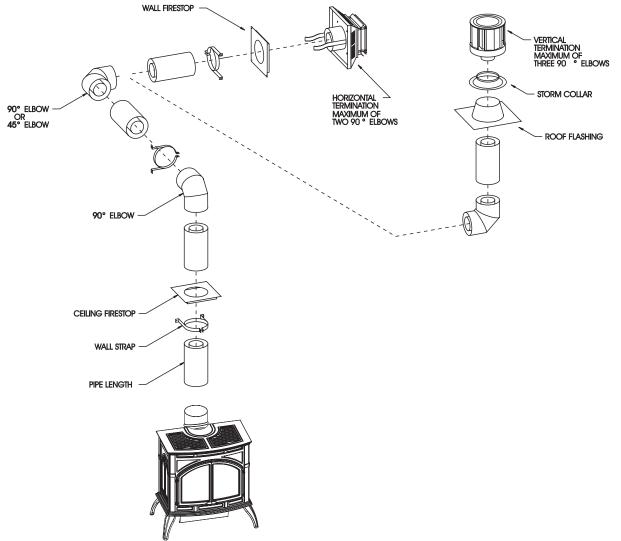


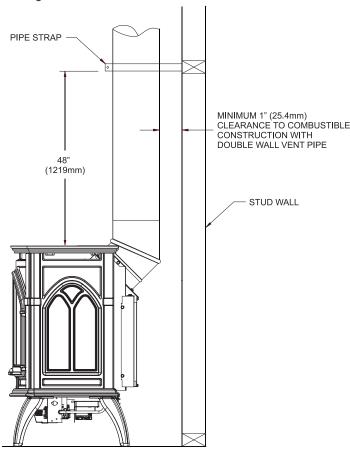
Figure 13

FRAMING AND FINISHING

Installing Support Brackets

A horizontal pipe support MUST BE used for each 3 feet of horizontal run. The pipe supports should be placed around 6 5/8 inch diameter pipe and nailed in place to framing members. There MUST BE a 2 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 to combustibles on all horizontal pipe sections and elbows.

Vertical runs of this vent systems must be supported every 4 feet above the appliance flue outlet by wall brackets attached to the 6 5/8 inch vent pipe and secured with nails or screws to structural framing members.





Installing 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 runs in the vent system which pass through either interior or exterior walls, require the use of wall firestops on both sides of the wall through which the vent passes.

Position the firestops on both sides of the 9-1/8 inch x 11 inch hole for 4 x 6 inch pipe and $10-1/2 \times 10-1/2$ inch hole for 5 x 8 inch pipe, previously cut. Secure with nails or screws. Continue the vent run through the firestops. **See Figure 15.** 297 mm (297 mm) MIN MIN MIN 0 9 1/8" (232 mm) MIN 0 9 1/8" (232 mm) MIN EXTERIOR SHEAVING

OUTSIDE THIMBLE ASSEMBLY

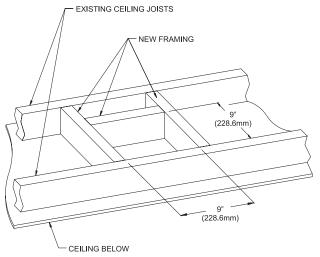
Figure 15

Vertical runs of this system which pass through ceilings require the use of one ceiling firestop at the hole in each ceiling through which the vent 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 appliance and vent system, if necessary, to accommodate ceiling joists and/or obstructions.

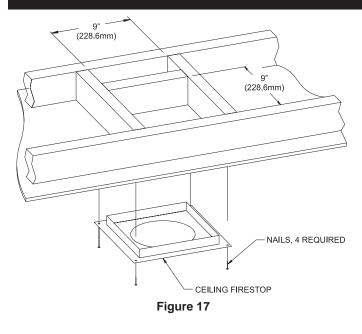
Cut a 9 inch x 9 inch hole through the ceiling, using the center point previously marked. Frame the hole with framing lumber the same size as the ceiling joists. **See Figure 16.** If the area above the ceiling is NOT an attic, position and secure the ceiling firestop (46DVA-FS) on the ceiling side of the previously cut and framed hole. **See Figure 17.** If the area above the ceiling IS an attic, position and secure the firestop on top of the previously framed hole. **See Figure 18.**

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





FRAMING AND FINISHING (CONT'D)



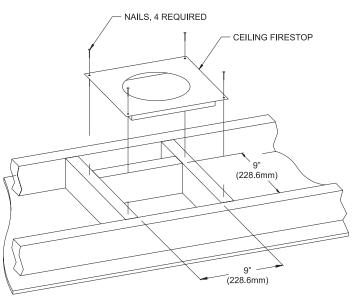


Figure 18

HORIZONTAL TERMINATION

Attach and secure the termination to the last section of horizontal venting by sliding cap over the last section of horizontal venting to ensure proper location.

NOTE: Termination cap should pass through the wall firestop from the exterior of the building. Adjust the termination cap to its final exterior position on the building.

A WARNING

Termination cap must be positioned so that the arrow is pointing up.

Using the termination cap in the center of the square hole, 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 too, so as to make a seal to that exterior wall.

NOTE: Wood screws can and should be replaced with appropriate fasteners for use on stucco, brick, concrete or other types of siding.

If exterior walls are finished with siding (vinyl, aluminum, etc.), it is necessary to install the vinyl siding shield (46DVA-VSS).

Vinyl siding shield (46DVA-VSS) will be installed between the vent termination and the exterior wall. **See Figure 19.** 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.

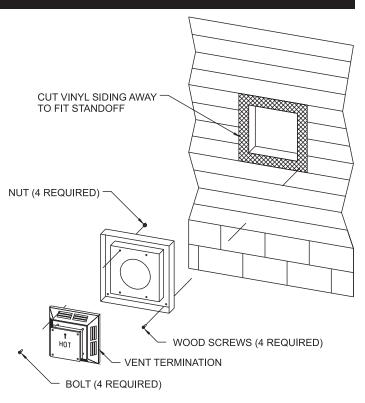


Figure 19

VERTICAL TERMINATION

Vertical Terminations

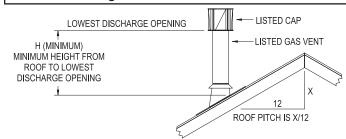
Locate and mark the center point of the venting pipe. Using a nail on the underside of the roof and drive this nail through this center point. Make the outline of the roof hole around this center point.

NOTE: 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 watertight seal. Non-hardening sealant should be used to completely seal this flashing installation.

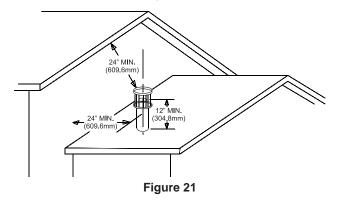
Determining Minimum Vent Height Above the Roof.

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 20.



	H (MIN	MUMI
ROOF PITCH	FEET	METER
FLAT TO 6/12	1.0	0.30
6/12 TO 7/12	1.25	0.36
OVER 7/12 TO 8/12	1.5	0.46
OVER 8/12 TO 9/12	2.0	0.61
OVER 9/12 TO 10/12	2.5	0.76
OVER 10/12 TO 11/12	3.25	0.99
OVER 11/12 TO 12/12	4.0	1.22
OVER 12/12 TO 14/12	5.0	1.52
OVER 14/12 TO 16/12	6.0	1.83
OVER 16/12 TO 18/12	7.0	2.13
OVER 18/12 TO 20/12	7.5	2.27
OVER 20/12 TO 21/12	8.0	2.44





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.

When terminating the vent cap near an exterior wall or overhang, maintain minimum clearances as shown in **Figure 20**.

General Maintenance

Conduct an inspection of the venting system semi-annually. Recommended areas to inspect are as follows:

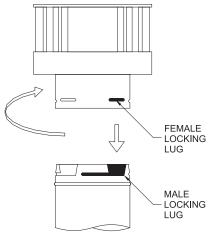
- 1. Check areas of the venting system which are exposed to the elements for corrosion. These will appear as rust spots or streaks and, in extreme cases, holes. These components should immediately be replaced.
- 2. Remove the cap and shine a flashlight down the vent. Remove any bird nests or other foreign material.
- 3. Check for evidence of excessive condensate, such as water droplets forming in the inner liner and subsequently dripping out at joints. Continue condensate can cause corrosion of caps, pipe and fittings. It may be caused by having excessive lateral runs, too many elbows and exterior portions of the system being exposed to cold weather.
- 4. Inspect joints to verify that no pipe sections or fittings have been disturbed and, consequently, loosened. Also, check mechanical supports, such as wall straps or plumbers' tape for rigidity.

Venting terminal shall not be recessed into a wall or siding.

A removable panel or other means must be provided in the enclosure for visual inspection of the flue connection.

Installing the Vent System in a Chase

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



SLIDE FEMALE LOCKING LUG DOWN INTO MALE LOCKING LUG AND TWIST CLOCKWISE TO LOCK

Figure 22

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.

VERTICAL TERMINATION (CONT'D)

Note: When installing this vent system in a chase, it is always good building practice to insulate the chase as you would the outside walls of your home. This is especially important for cold climate installations. Upon completion of building your chase framing, install the vent system by following the instructions in this manual. Remember to build the chase large enough so that minimum clearance of combustible materials (including insulation) to the vent system are maintained.

Vertical Through the Roof Applications

Your Gas Stove has been approved for

- a) Vertical installations up to 40 feet of vent run
- b) Two sets of 45 degree elbow offsets within these vertical installations. From 0 to a maximum of 8 feet a vent pipe can be used between elbows.
- c) Wall straps must be used to support offset pipe every 4 feet.

This applications will require that you first determine the roof pitch and use the appropriate venting components.

Reassembly and Resealing Vent-Air Intake System

Attach vent pipe to appliance air drop with four 1/2" hex-head screws in position, replace vertical and horizontal pipe lengths, elbows and horizontal or vertical termination kit.

All vent system components lock into place by sliding the concentric pipe section with four equally spaced interior beads onto the appliance collar or previously installed component end with four equally spaced indented sections. When the internal beads of each starting 6 5/8 inch outer pipe line up, rotate pipe section clockwise 90° (approximately 3 inches). The vent pipe is now locked together.

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.

Installing Support Brackets

A horizontal pipe support MUST BE used for each 3 feet of horizontal run. The pipe supports should be placed around 6 5/8 inch diameter pipe and nailed in place to framing members. There MUST BE a 2 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 to combustibles on all horizontal pipe sections and elbows.

Vertical runs of this vent systems must be supported every 4 feet above the appliance flue outlet by wall brackets attached to the 6 5/8 inch vent pipe and secured with nails or screws to structural framing members.

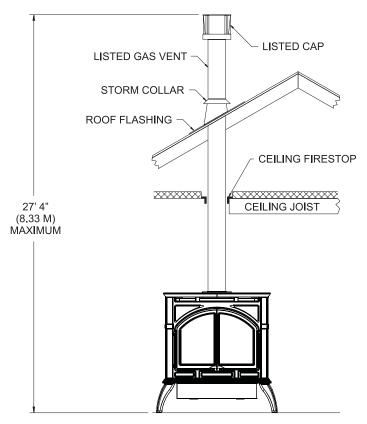


Figure 23

DVP20CC LOG IDENTIFICATION

Log Description	Part Number	Front View	Top View
Log A	29790		
Log B	29792		
Log C	29791		
Log D	29793		

- 1. Place Log A onto the pins on the Log Support Shelf.
- 2. Place Log B onto the two right pins on the burner.
- 3. Place Log C onto the two left pins on the burner.
- 4. Place Log D on the pin on Log A with the "fork" resting on Logs B and C.
- 5. Place ember material on front burner ports as shown in Figure 25.

NOTE: For step by step instructions with images, see pages 23-27.

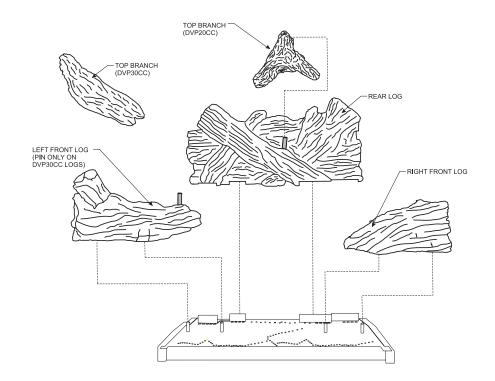


Figure 24

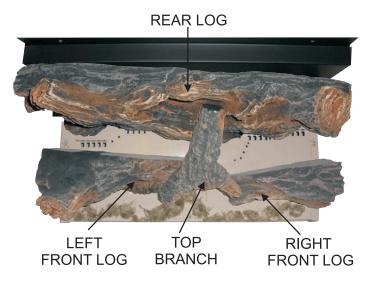


Figure 25 - Log Placement - Top View (DVP20CC Shown)

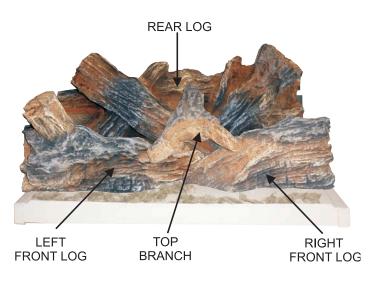
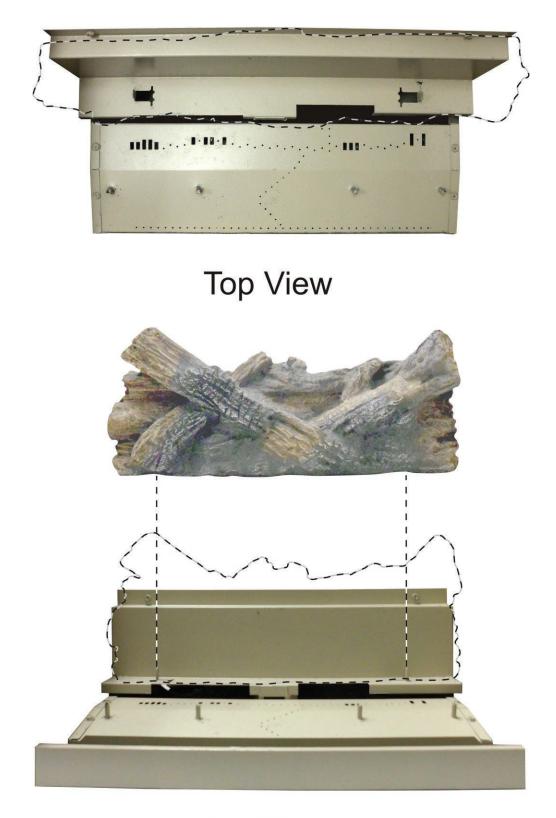
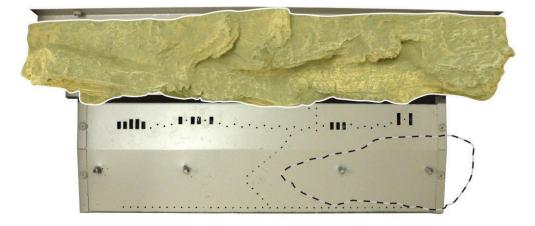


Figure 26 - Log Placement - Front View (DVP20CC Shown)

1. Place Log A onto the pins on the Log Support Shelf as shown below.



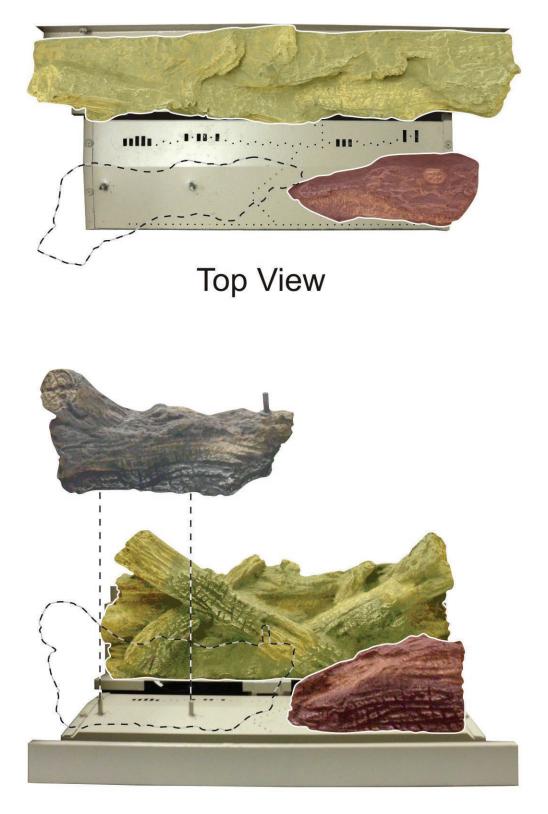
2. Place Log B onto the two right pins on the burner as shown below.



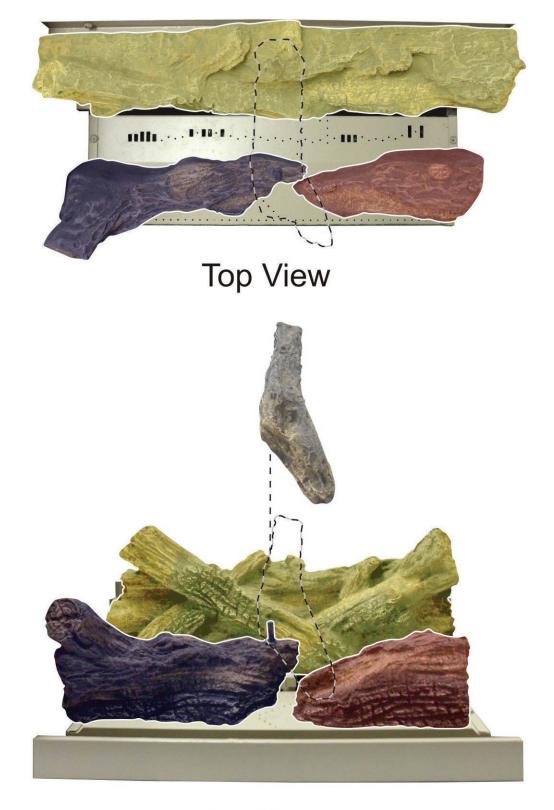
Top View



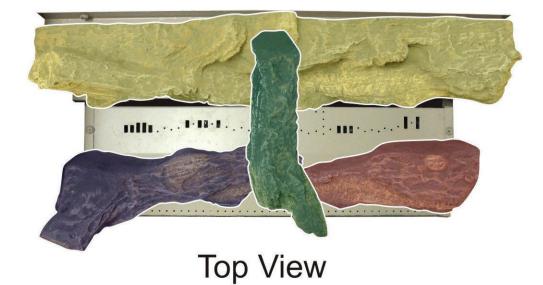
3. Place Log C onto the two left pins on the burner as shown below.



4. Place Log D on the pin on Log A with the "fork" resting on Logs B and C as shown below.



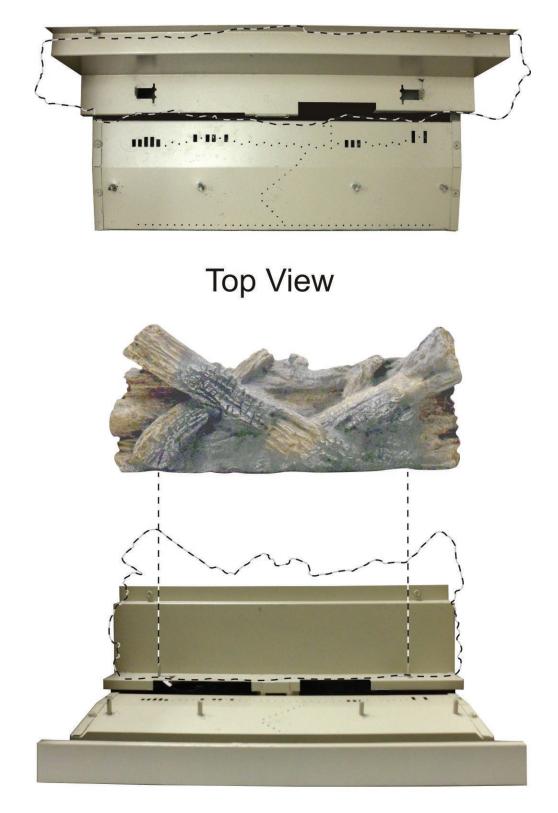
5. Assembly is completed.



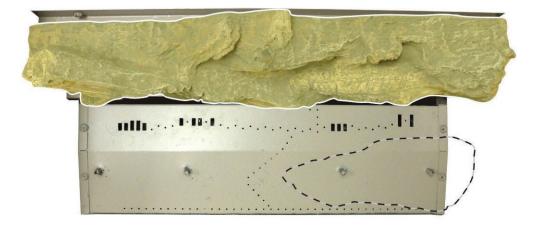
DVP30CC LOG IDENTIFICATION

Log Description	Part Number	Front View	Top View
Log A	29795		
Log B	29797		
Log C	29796		
Log D	29798		

1. Place Log A onto the pins on the Log Support Shelf as shown below.



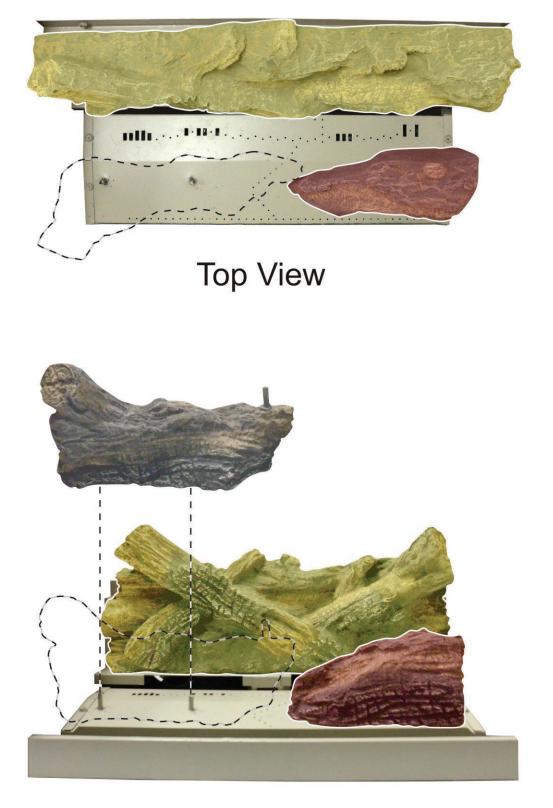
2. Place Log B onto the two right pins on the burner.



Top View

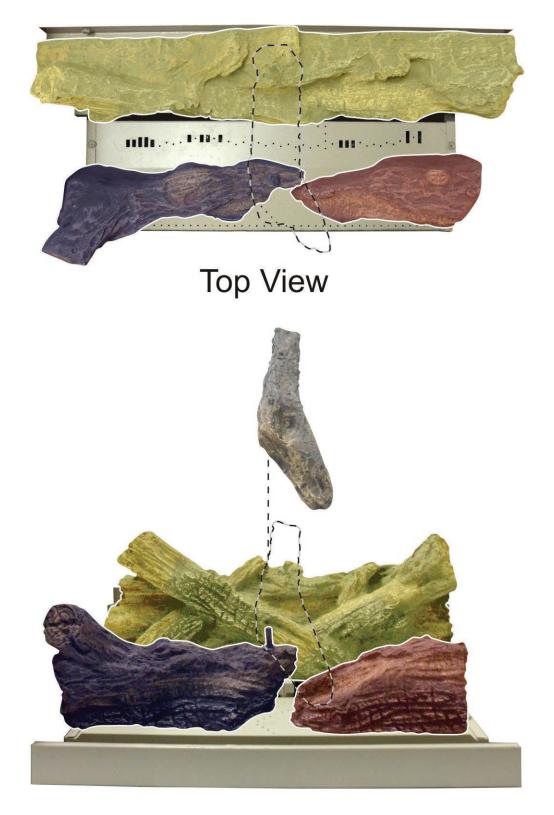


3. Place Log C onto the two left pins on the burner.

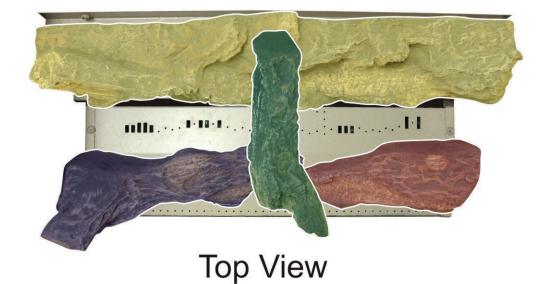


4. Place Log D on the pins on Logs A and C.

*Place ember material on front burner ports as shown in Figure 25.



5. Assembly is completed.





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 energizes 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 (electrical current) to build-up to a sufficient level allowing the gas control to operate properly.

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

WARNING

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.

2. 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 stove 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 27**. Rotate the knob clockwise to "HI" to increase the flame height and counterclockwise to "LO" to decrease the flame height.

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

HI/LO REGULATOR TUO NI . . ۲ R () (\mathbb{X}) Ŧ f X 6 1 6 6 CONTROL KNOB

Figure 27

The OWNER should carefully read and follow these operating instructions at all times. Lower the door assembly to view the gas controls for the stove.

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 stove, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the stove will light and operate satisfactorily.

Subsequent lightings of the appliance 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.

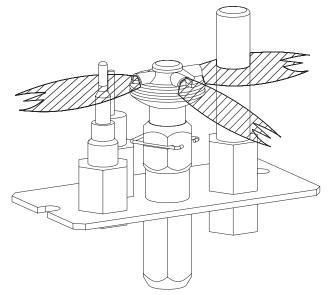


Figure 28

MAIN BURNER FLAME CHARACTERISTICS

Figure 29 shows a correct main burner flame pattern. Figure 30 shows an incorrect main burner flame pattern.

If main burner flame pattern is incorrect, as shown in Figure 28:

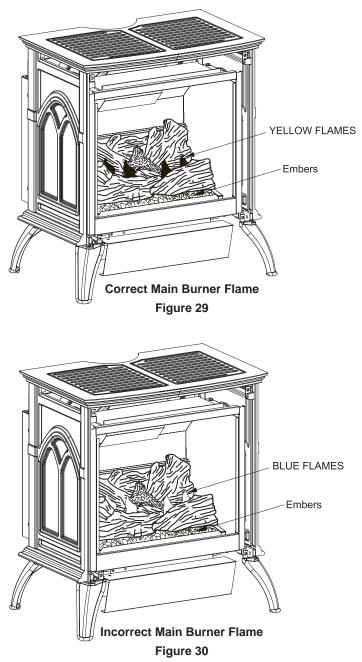
 See Troubleshooting, page 28 for Millivolt models and pages 32-34 for IP models.

Cleaning and Maintenance / Main Burner

A WARNING

Turn off heater and let cool before cleaning.

After use, cleaning of the main burner may be required for the proper flame. The main burner may be cleaned by applying pressurized air to the ports on the main burner.



Cleaning the Log Set and Firebox

Do NOT handle these logs with your bare hands. Always wear gloves to prevent skin irritation. During the annual inspection and maintenance appointment, the service person should clean dust, lint, and any light accumulation from the logs and the firebox area. An extra-soft brush should be used on the logs as they are extremely fragile; a vacuum cleaner may be used on the firebox. If at any time the logs cannot be removed or installed without forcing, the cause must be found. The logs must never be forced.

A CAUTION

The ceramic logs are durable when handled and installed properly. However, they are delicate and may be damaged easily if not handled with care. Handling damage to the ceramic logs is not covered by warranty.

DO NOT HANDLE LOGS WHILE THEY ARE HOT. ALLOW PLENTY OF TIME FOR THE APPLIANCE TO COOL COMPLETELY BEFORE HANDLING.

PLEASE NOTE

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

WIRING

DVP(20,30)CC ON/OFF/REMOTE Switch

DVP(20,30)CC is equipped with an ON/OFF/REMOTE switch which is located on the wire channel located on the top, left side of the stove. A wire harness is attached to the ON/OFF/REMOTE switch. The red, black and green (wires) female push-ons attach to the ON/ OFF/REMOTE switch. At the opposite end of the wire harness, the black and green (wires) female push-ons attach to the gas valve. An additional green wire and the red wire, which are stripped and bare, will attach to the 750 millivolt wall thermostat accessory, or, to one of the other accessories that can be purchased for use with your log set.

Operation of ON/OFF/REMOTE 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 ON/OFF/REMOTE switch from the OFF position to the ON position. The additional green wire and red wire, which are stripped and bare are not used.

Operation of ON/OFF/REMOTE Switch with Accessories 750 Millivolt Wall Thermostat

Connect the green and red, stripped and bare, wires on the ON/OFF/ REMOTE switch wire harness to the wall thermostat. Turn the ON/ OFF/REMOTE switch on the wire channel to the REMOTE position. Set the wall thermostat to the desired temperature.

It is important to use wire of a gauge proper for the length of the wire:

RECOMMENDED WIRE GAUGES			
Maximum Length Wire Gauge			
1' to 10'	18		
10' to 25'	16		
25' to 35'	14		

Wall Switch, FWS

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

Battery Operated Remote Control, FRBC, FRBTP, TRW, and FRBTC

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

NOTE: If batteries fail in FRBC or FRBTC, and immediate heat is desired, turn the ON/OFF/REMOTE switch on wire channel from the REMOTE position to the ON position.

Electric (120 volt) Operated Remote Control, FREC

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

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

- 1. Connect one wire from the 750 millivolt wall thermostat and one wire from appropriate accessory to the GREEN, stripped and bare wire from the ON/OFF/REMOTE wire harness.
- Connect one wire from the 750 millivolt wall thermostat and one wire from appropriate accessory to the RED, stripped and bare wire from the ON/OFF/REMOTE wire harness.
 NOTE: When the appliance is in the MANUAL mode and the batteries fail in the FRBC or if the electric (120 volt) fails in the FREC, and immediate heat is desired, turn the ON/OFF/REMOTE switch on wire channel from the REMOTE position to the ON position.

Manual Operation

- 1. Turn ON/OFF/REMOTE switch on wire channel to REMOTE position.
- 2. Turn wall thermostat OFF.
- 3. Turn accessory, FRBC, FREC, FRBTP, TRW, FRBTC, or FWS, ON. Appliance is now in the manual mode. You must turn the appliance ON or OFF with appropriate accessory.

Wall Thermostat Operation

- 1. Turn the ON/OFF/REMOTE switch on wire channel to REMOTE position.
- 2. Turn accessory, FRBC, FREC, FRBTP, TRW, FRBTL-1, or FWS, OFF.
- 3. Turn wall thermostat ON and set appropriate temperature. Wall thermostat will cycle the appliance ON and OFF.

Installation of Remote Receiver

- Attach, from left to right, the slide-on cover plate onto the remote receiver. ON will be to the top and OFF will be to the bottom on the slide-on cover plate.
- 2. Push the receiver slide button onto the receiver slide switch. Reverse installation of the slide button if it is off center.
- 3. Attach Velcro loop on the left side of the valve cover support.
- Attach Velcro hook onto remote receiver. The word **TOP** on the remote receiver should be to the top when installed onto valve cover support.
- 5. Attach Velcro hook on remote receiver onto Velcro loop on valve cover support.

Refer to remote control installation and operating instructions for more details on remote control.

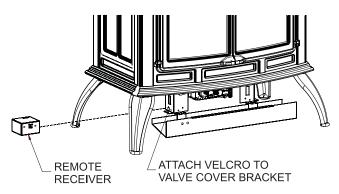


Figure 31

MILLIVOLT LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

A WARNING

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

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

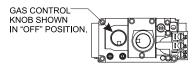
WHAT TO DO IF YOU SMELL GAS

- Do not try to light 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.

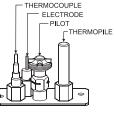
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire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

LIGHTING INSTRUCTIONS

- 1. STOP! Read the safety information on this page.
- 2. Set the thermostat to lowest setting
- 3. Turn OFF all electric power to the appliance (if applicable).
- 4. Lower valve cover.
- 5. Push in gas control knob slightly and turn clockwise to "OFF" position.



- NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed slightly. Do not force.
- 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 on this label. If you do not smell gas, go to the next step.
- 7. Find pilot Follow metal tube from gas control. The pilot is behind the burner on the right side.
- Turn gas control knob counterclockwise to "PILOT".



- 9. Push in gas 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 knob does not pop up when released, stop 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.
- 10. Turn gas control knob counterclockwise to "ON".
- 11. Raise valve cover.
- 12. Turn ON all electric power to the appliance (if applicable).
- 13. Set the thermostat to desired setting.

TO TURN OFF GAS TO APPLIANCE

- 1. Set the thermostat to lowest setting.
- 2. Turn off all electric power to the appliance if service is to be performed (if applicable).
- 3. Lower valve cover.

- 4. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.
- 5. Raise valve cover.

MILLIVOLT WIRING

FOR STANDING PILOT IGNITION WIRING

Appliance Requirements

Do not connect 110-120 vac to the gas control valve or the appliance will malfunction and the valve will be destroyed.

MILLIVOLT SYSTEM - "PILOT ON DEMAND"

 In the "Pilot On Demand" mode, the pilot remains ON continuously even when the burner is turned OFF. The pilot will shut off after 7 days if there is no activity or call for heat.

OPTIONAL WALL SWITCH

Position the wall switch in the desired position on a wall. Run a maximum of 25 feet (7.8m) or less length of 18 A.W.G. minimum wire and connect it to the stove valve pigtails.

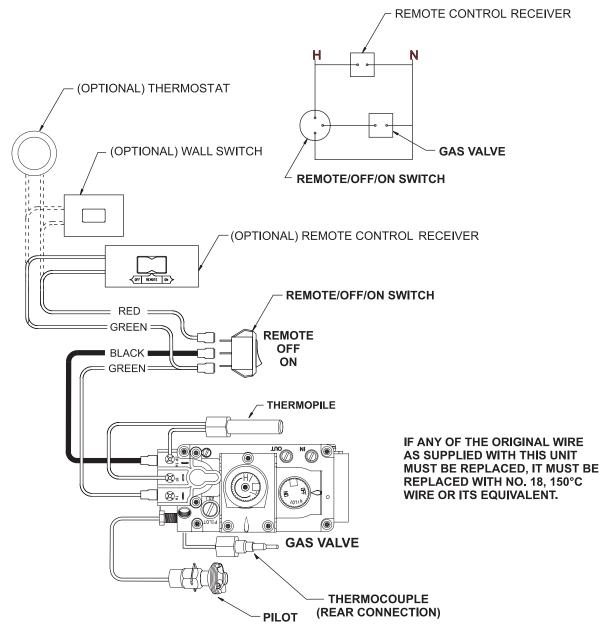
A WARNING

Do not connect the 110-120 vac to the wall switch or the control valve will be destroyed.

WARNING

Label all wires prior to disconnection when servicing control. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

MILLIVOLT WIRING DIAGRAM



MILLIVOLT TROUBLESHOOTING

With proper installation and maintenance, your new Direct Vent Stove should 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.

5.

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

- a. Defective ignitor (no spark at 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 stove. Usually there is a valve near the main. There can be more than one valve between the stove 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 of gas supplier.

c. No Propane in tank.

- Check 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 that the thermocouple connection at the gas valve is fully inserted and tight (hand tight plus 1/4 turn) faulty thermopile if reading is below specified minimum.

- Disconnect the thermocouple from the valve, place one millivolt meter lead wire on the tip of the thermocouple and the other meter lead wire on the thermocouple copper lead. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15 MV, 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", on/off switch "ON."

a. "On/Off" switch, wall switch, or wires defective.

- Check "on/off" 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.

b. Thermopile may not be generating sufficient milli-voltage.
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 325 millivolts minimum, while holding the valve knob depressed to the pilot position, with the pilot lit, and the ON/OFF 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 325 millivolts minimum. Replace the thermopile if the reading is below the minimum. c. Defective valve.

- Turn valve knob to "ON." Place ON/OFF switch to "ON." Check with millivolt meter at thermopile terminals. Millivolt meter should read greater than 100 M.V. If the reading is okay and the burner does not come, replace the gas valve.

d. Plugged main burner orifice.
 Check main burner orifice for blockage, clean main burner orifice.

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.

The pilot and main burner extinguish while in operation.

a. No Propane in tank.

- Check Propane tank. Refill fuel tank.
- b. 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 and tighten corner.
- d. Horizontal vent improperly pitched.

- The horizontal vent cap should slope down only enough to prevent any water from entering the unit. 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.

- Adjust the log set so that the flame does not excessively impinge on it.

7. Flame 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 burner base.

- Be sure glass is tightened properly on unit, particularly on top corners.

8. Doors open on their own.

a. Casting not level.

- Loosen front leveling bolts to elevate front of casting slightly above the rear of casting.

IP OPERATING INSTRUCTIONS

Attention: For shipping purposes, the Electronic Control Module and Receiver Plate assembly is loosely packaged near the left side of the appliance. It is necessary that the receiver plate assembly be secured to the left front flange of the appliance at the time of installation. To secure, remove the two lower screws in the left side flange of the appliance, then place the receiver plate assembly over the left front flange and secure with the two screws previously removed.

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 unit is turned ON, it will cause spark to the pilot, light the pilot, then allow the burner to light. When the unit is turned to OFF, both the burner and pilot will be OFF.
- CPI Mode In the "Pilot On Demand" mode, the pilot remains ON continuously even when the burner is turned OFF. The pilot will shut off after 7 days if there is no activity or call for heat.

NOTE: A small toggle switch is located on the receiver plate (left side of unit) that is used to switch from IPI (upward position) to the CPI (downward position). **See Figure 32.**

When the unit 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.

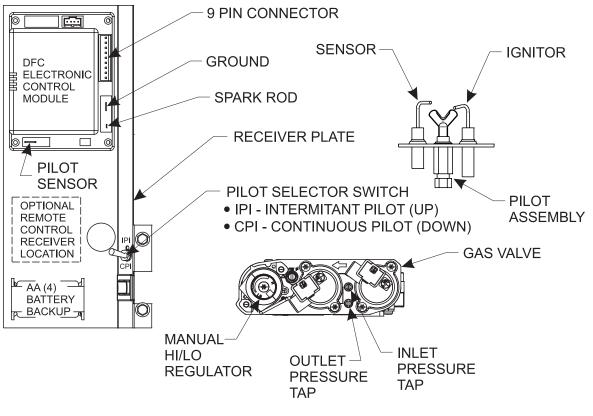
- Follow the SAFETY and LIGHTING INSTRUCTIONS for Intermittent Pilot controls found in this manual, and on labels found in the control compartment located in the lower cavity of the appliance.
- 2. During the operating season (or in power outage periods), it is recommended that the pilot remain in the CPI (standing pilot mode) to reduce cold start issues, and/or conserve battery backup power during a power outage.
- 3. The gas valve has inlet and outlet pressure taps as shown in **Figure 32.** Refer to page 8 for gas pressure requirements.
- **NOTE:** 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 32.** 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 appliance. There is an area on the Receiver Plate (between the Electronic Control module and the back-up battery pack) that the Remote Receiver should be placed. A velcro pad is pre-attached to the plate assembly for quick attachment of the remote receiver.

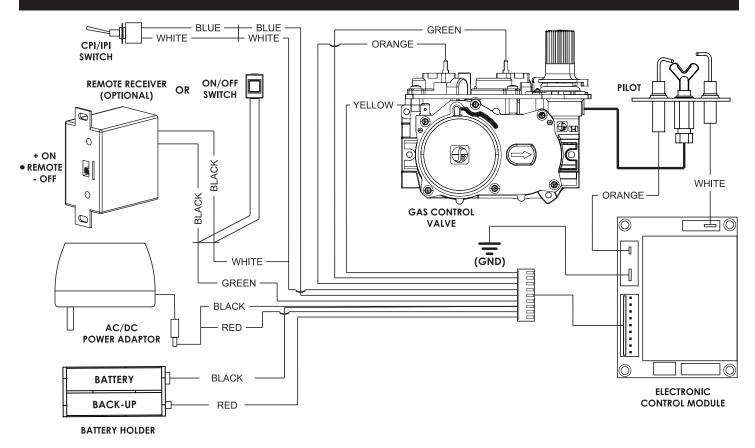
To connect the remote receiver to the appliance, first disconnect the ON/OFF switch wires from the white and green wire connectors and connect the wires from the remote receiver to the green and white wire connectors. **See Figure 32.**

Follow the instructions included with the remote control for programming and other operational information.





IP ELECTRONIC SYSTEM WIRING DIAGRAM



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

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

Do not operate the appliance with panel(s) removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.

A WARNING

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

INTERMITTENT PILOT LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

A WARNING

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

- A. This appliance 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 appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

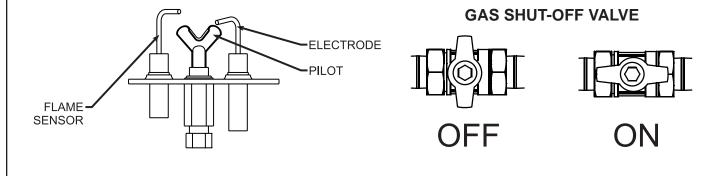
What To Do If You Smell Gas

- Do not try to light any appliance.
- Do not touch any 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 appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

- 1. STOP! Read the safety information above.
- 2. Turn OFF electric power to the appliance.
- Remove front surround panel assembly or bottom louver if included.
- 4. Turn gas shut-off counterclockwise row to "On" position.
- 5. 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.
- 6. Turn ON electric power to the appliance.
- 7. Find pilot Follow metal tube from gas control. The pilot is behind the burner on the right side.
- 8. Turn main flame to on. If the pilot does not light within 60 seconds, stop and go to Step 5.
- 9. Refer to remote control instructions for detailed information, control features, and operation. Note: There is a CPI/IPI switch behind the right side panel that allows for a continuous standing pilot mode or an intermittent pilot mode. See appliance 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 shut-off 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

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

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

INTERMITTENT 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 appliance burner. The controls are designed to be used with either Propane 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 microcontroller 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 31 and Wiring Diagram on page 30.

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.

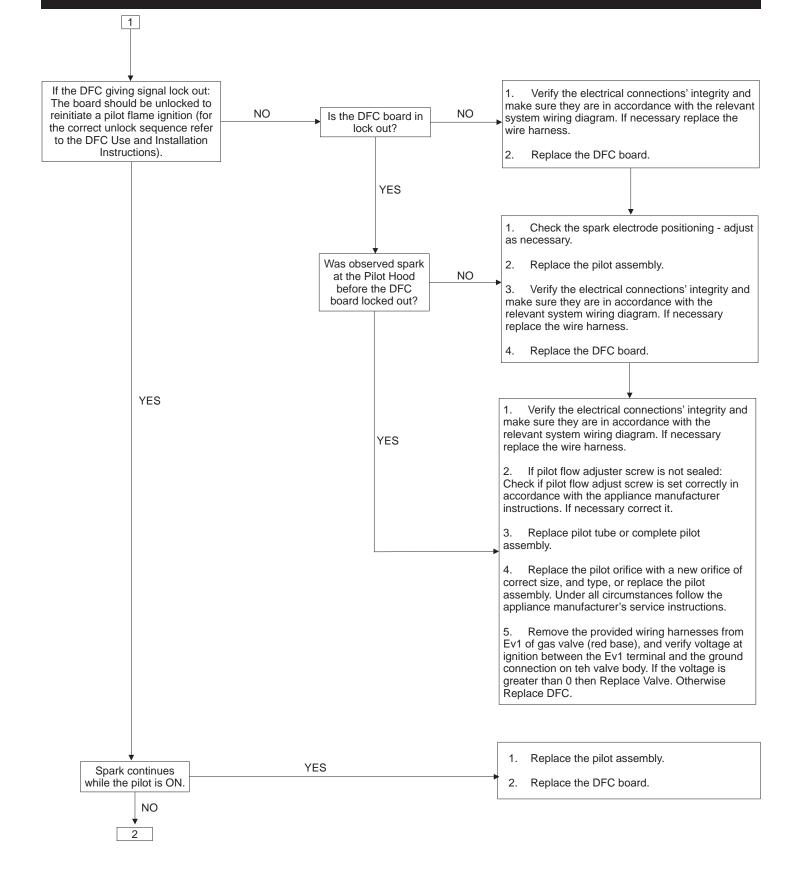
Verify that the static inlet pressure meets the manufacturer's recommended inlet pressure. If necessary adjust the line pressure regulator. If the recommended actions for the following troubleshooting chart do not help to address the problem consider replacing wiring harnesses.

A WARNING

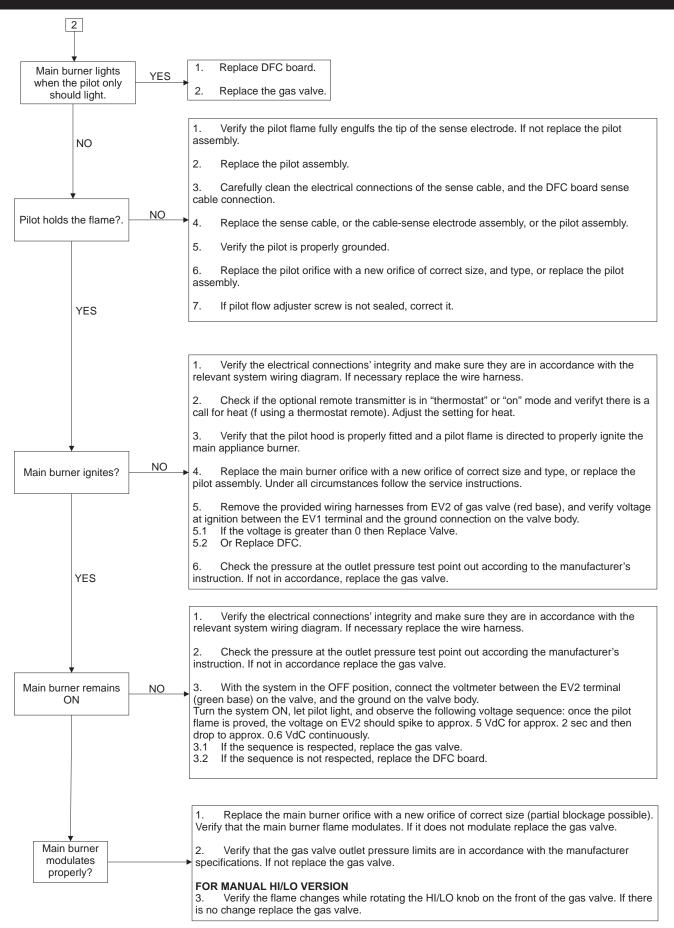
Any actions performed on the gas valve must be performed in accordance with this instruction manual. Likewise, any actions performed on the DFC or other system components must be done in accordance with the individual component instructions.

Replacement of components must be performed in accordance with this instructions manual.

INTERMITTENT CONTROL SYSTEM TROUBLESHOOTING



INTERMITTENT CONTROL SYSTEM TROUBLESHOOTING



MAINTENANCE

A qualified service person recommended by your Empire dealer should conduct an annual inspection and maintenance of the appliance, its venting, and the installation to keep it running safely and efficiently. The following procedures should be performed only by a qualified service person. The gas supply should be turned off whenever a maintenance procedure is performed.

If the glass front, relief doors, or front access door are removed for servicing, they must be replaced prior to operating the appliance.

Glass Cleaning

It will be necessary to clean the glass periodically. During start-up condensation, which is normal, forms on the inside of the glass and causes lint, dust and other airborne particles to cling to the glass surface. Also initial paint curing may deposit a slight film on the glass. It is therefore recommended that the glass be cleaned two or three times with a non-abrasive household cleaner and warm water (we recommend gas fireplace glass cleaner). We do not recommend using packaged spray type household glass cleaner. After that the glass should be cleaned two or three times during each heating season depending on the circumstances present.

General Glass Information

Only glass approved for use in Empire Comfort Systems Inc. fireplaces 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 appliance 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.

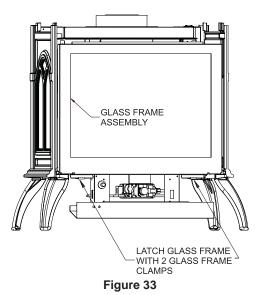
Failure to follow these warnings could cause a serious safety issue to the operator, such as fire or other serious conditions.

Glass Assembly Replacement

- 1. Remove casting top from casting.
- 2. Remove casting front from casting.
- 3. Lower valve cover on firebox.
- 4. Release two door latches at bottom of firebox.
- 5. Grasp bottom of glass frame, lift glass frame upward in order to release glass frame from lip on top of firebox.
- 6. Place glass frame assembly on a non-abrasive surface. The exterior of the glass frame assembly should be facing the non-abrasive surface.
- 7. Insert a putty knife between glass and bottom corners on frame. Carefully separate glass from frame.
- 8. Use putty knife to remove silicone and gasket material from frame. Surface of frame must be clean and dry.
- 9. At each corner of frame apply two three-inch beads of high temperate (orange) silicone.
- 10. With thin gasket on glass facing silicone on frame, insert glass into frame. Carefully press the glass onto frame in order to have contact between glass and silicone.
- 11. Allow silicone to set-up for an adequate time.

- 12. Align and place top of glass frame over lip on top of firebox. Grasp bottom of glass frame, push inward and place glass frame onto firebox.
- 13. Attach two door latches to bottom of firebox.
- 14. Replace casting front onto casting.
- 15. Replace casting top onto casting.
- 16. Replacement of glass assembly is completed.

SHOWN WITH TOP & FRONT REMOVED



IMPORTANT: Turn off gas before servicing appliance. It is recommended that a competent service technician perform these check-ups at the beginning of each heating season.

- DO NOT put anything around the heater that will obstruct the flow of combustion and ventilation air. See clearances.
- DO examine venting system periodically. Clean and replace damaged parts. Examinations should be made at the start of the heating season and also in mid heating season under average conditions.
 - 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. Let the unit cool if it has been operating.
- 2. Shut off gas supply.
- 3. Lower valve cover on firebox.
- 4. Release two door latches at bottom of firebox.
- 5. Grasp bottom of glass frame, lift glass frame upward in order to release glass frame from lip on top of firebox.
- 6. Vacuum burner compartment especially around orifice/primary air openings.
- 7. Align and place top of glass frame over lip on top of firebox. Grasp bottom of glass frame, push inward and place glass frame onto firebox.
- 8. Attach two door latches to bottom of firebox.
- 9. Ignite pilot. See **Lighting Instructions**, Page 26 for millivolt models and page 31 for IP models.
- 10. Operate the main burner and visually check to make sure the flame pattern appears similar to the pictorial illustration shown for **Main Burner Flame Characteristics**, **Figure 29.** If it appears abnormal call a service person.

MAINTENANCE AND SERVICE

Although the frequency of servicing and maintenance will depend on use and the type of installation, you should have a qualified service technician perform an appliance checkup at the beginning of each heating season. Specific guidelines regarding each appliance maintenance task are listed below.

IMPORTANT: Turn Off The Gas Before Servicing Your Appliance.

CLEANING BURNER AND CONTROLS

Frequency: Once annually.

By: Qualified service technician.

Task: Brush or vacuum the control compartment, stove logs and burner areas surrounding the logs.

CHECKING FLAME PATTERNS, FLAME HEIGHT

Frequency: Periodically.

By: Qualified service technician/Home owner.

Task: Make a visual check of your stove's flame patterns.

Make sure the flames are steady - not lifting or floating. The thermopile/thermocouple (standing pilot) tips should be covered with flame.

CHECKING VENT SYSTEM

Frequency: Before initial use and at least annually thereafter, more frequently if possible.

By: Qualified service technician/Home owner.

Task: Inspect the external vent cap on a regular basis to ensure that no debris is interfering with the flow of air. Inspect entire vent system for proper function.

NOTICE: Prior to operating this unit, be sure to clean the interior porcelain coated liner panels and glass door with a soft clean cloth. Due to normal manufacturing processes, fingerprints along with excess sealing materials may be present and should be removed. When cleaning, do not use abrasives on the porcelain liners or the glass door assembly.

CLEANING

Use a soft brush attachment on a vacuum cleaner to gently remove dust or soot deposits from liners and burner.

CLEANING GLASS DOOR

Frequency: After the first 3 to 4 hours of use. As necessary after initial cleaning.

By: Home owner.

Task: Remove and clean glass after the first 3 to 4 hours of use. After the initial cleaning, clean as necessary. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner.

Use only ammonia free, nonabrasive glass cleaners.

DO NOT handle or attempt to clean the door when it is hot and DO NOT use abrasive cleaners.

FOR THE INSTALLER

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.

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.

Annual Inspection

- Have the fireplace inspected annually before use.
- More frequent inspection and cleaning may be required if the fireplace is installed in an area exposed to pet hair or dust, or to excessive lint from new carpeting or bedding materials.

During The Annual Checkup, The Technician Will:

- Inspect the pilot (flame safety system) and burner(s) for proper operation and replace any damaged parts.
- Test and measure the flame failure response time of the flame safety system. It must de-energize the safety shut-off in no more than 30 seconds.
- Vacuum and clean any foreign debris in the firebox that is not supposed to be there.
- Inspect and ensure that the lighting of the main burner occurs within 4 seconds of the gas valve opening. Visual inspection should match the information illustrated in the manual. Inspect primary air openings for blockage.
- Check the glass and gasket for proper seal.
- Clean Glass with a suitable fireplace glass cleaner. Abrasive cleaners must not be used. Be careful not to scratch the glass when cleaning.
- Check all latches or other door retention components for proper operation, tension, and relief mechanisms are free from obstructions. **See Figures 66 and 67.**
- Check the barrier screen for fit and structural integrity. See Figure 68.
- Inspect the log set (if applicable) and decorative media (if applicable) for debris or damage.
- Freshen up the glowing embers if applicable.
- Replace batteries in the remote transmitter and receiver if applicable.
- Inspect the venting and vent termination cap for damage, corrosion, sooting, or obstruction and correct if present.
- Check all accessible gas-carrying tubes, connections, pipes and other components for leaks.
- In addition, clean and inspect the fireplace following any remodeling work in your home.

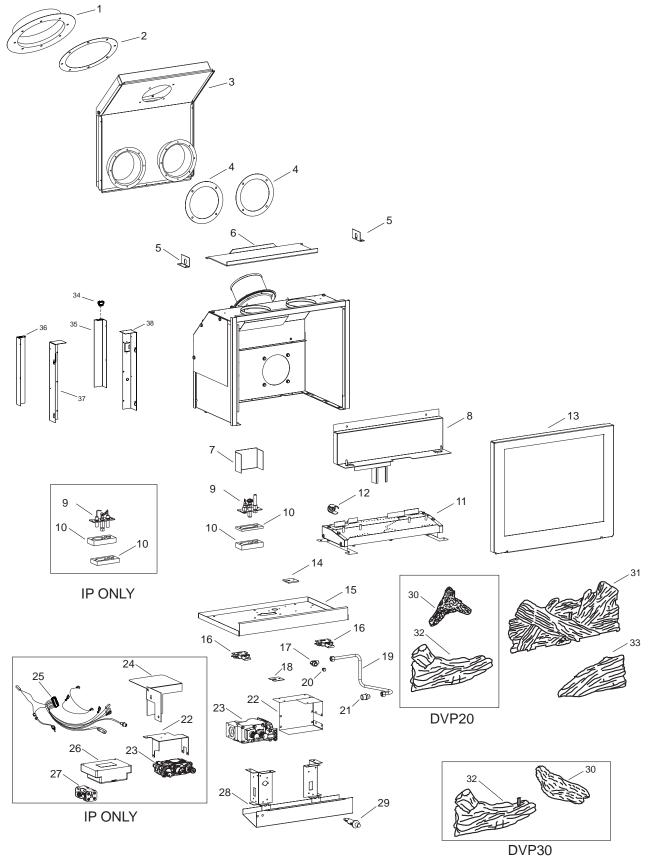
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23 — R7577 — R11125 VALVE, NATURAL 24 — — 30930 J0930 IP CONTROL BRACKET 25 — — R11123 R11123 WIRE HARNESS (INCLUDES PILOT SWITCH) 26 — — R11127 R11127 CONTROL BOARD 27 — — R11122 R11122 BATTERY HOLDER, AA WITH SNAP-ON 28 29861 29861 29861 29861 VALVE COVER WELDED ASSEMBLY 29 R9760 R9760 — — PIEZO W/RED IGNITOR 30 29793 29793 29793 BRANCH TOP 31 29790 29790 29790 LOG REAR 32 29791 29791 29791 LOG LEFT 33 29792 29792 29792 LOG RIGHT 34 R3436 R3436 R11558 R11558 REMOTE/OFF/ON SWITCH 35 30679 30679 30679 30679 WIRE CHANEL - LEFT <tr< td=""><td>22</td><td>29526</td><td>29526</td><td>29770</td><td>29770</td><td>VALVE BRACKET</td></tr<>	22	29526	29526	29770	29770	VALVE BRACKET
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25 R11123 R11123 WIRE HARNESS (INCLUDES PILOT SWITCH) 26 R11127 R11127 CONTROL BOARD 27 R11122 R11122 BATTERY HOLDER, AA WITH SNAP-ON 28 29861 29861 29861 29861 VALVE COVER WELDED ASSEMBLY 29 R9760 R9760 - - PIEZO W/RED IGNITOR 30 29793 29793 29793 BRANCH TOP 31 29790 29790 29791 LOG REAR 32 29791 29791 29791 LOG REAR 33 29792 29792 29792 LOG RIGHT 34 R3436 R3436 R11558 REMOTE/OF/ON SWITCH 35 30679 30679 30679 WIRE CHANEL - LEFT 36 30680 30680 30680 WIRE ASSEMBLY 38 30627 30627 30627 30627 30627 38 30627 30627 3062	23	_	R7577	_	R11125	VALVE, NATURAL
26 — — R11127 R11127 CONTROL BOARD 27 — — R11122 R11122 BATTERY HOLDER, AA WITH SNAP-ON 28 29861 29861 29861 29861 VALVE COVER WELDED ASSEMBLY 29 R9760 R9760 — — PIEZO W/RED IGNITOR 30 29793 29793 29793 BRANCH TOP 31 29790 29790 29790 LOG REAR 32 29791 29791 29792 LOG RIGHT 33 29792 29792 29792 LOG RIGHT 34 R3436 R3436 R11558 R11558 REMOTE/OF/ON SWITCH 35 30679 30679 30679 30679 WIRE CHANEL - RIGHT 36 30680 30680 30680 30680 WIRE COVER - LEFT 38 30627 30627 30627 30627 REAR COVER - RIGHT NS R9698 R9698 — — WIRE ASSEMBLY	24	_	_	30930	30930	IP CONTROL BRACKET
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29 R9760 R9760 — PIEZO W/RED IGNITOR 30 29793 29793 29793 29793 BRANCH TOP 31 29790 29790 29790 LOG REAR 32 29791 29791 29791 LOG LEFT 33 29792 29792 29792 LOG RIGHT 34 R3436 R3436 R11558 R11558 REMOTE/OFF/ON SWITCH 35 30679 30679 30679 WIRE CHANEL - RIGHT 36 30680 30680 30680 WIRE CHANEL - LEFT 37 30628 30628 30628 REAR COVER - LEFT 38 30627 30627 30627 30627 REAR COVER - RIGHT NS R9698 R9698 — — WIRE ASSEMBLY NS R8195 ECO WIRE ASSEMBLY NS R7591 R7591 R7591 FLEX LINE	27	_	_	R11122	R11122	BATTERY HOLDER, AA WITH SNAP-ON
30 29793 29793 29793 29793 BRANCH TOP 31 29790 29790 29790 29790 LOG REAR 32 29791 29791 29791 29791 LOG LEFT 33 29792 29792 29792 LOG RIGHT 34 R3436 R3436 R11558 R11558 REMOTE/OFF/ON SWITCH 35 30679 30679 30679 30679 WIRE CHANEL - RIGHT 36 30680 30680 30680 30680 WIRE CHANEL - LEFT 37 30628 30628 30628 30627 REAR COVER - LEFT 38 30627 30627 30627 30627 30627 REAR COVER - RIGHT NS — — — — WIRE ASSEMBLY NS — — R8195 ECO WIRE ASSEMBLY NS R7591 R7591 R7591 FLEX LINE	28	29861	29861	29861	29861	VALVE COVER WELDED ASSEMBLY
31 29790 29790 29790 29790 LOG REAR 32 29791 29791 29791 29791 LOG LEFT 33 29792 29792 29792 LOG REAR 34 R3436 R3436 R11558 R11558 REMOTE/OFF/ON SWITCH 35 30679 30679 30679 30679 WIRE CHANEL - RIGHT 36 30680 30680 30680 30680 WIRE CHANEL - LEFT 37 30628 30628 30628 30627 30627 30627 38 30627 30627 30627 30627 30627 REAR COVER - LEFT NS R9698 R9698 - - WIRE ASSEMBLY NS R9698 R9698 - - WIRE ASSEMBLY NS R7591 R7591 R7591 FLEX LINE	29	R9760	R9760	_	i –	PIEZO W/RED IGNITOR
32 29791 29791 29791 29791 LOG LEFT 33 29792 29792 29792 LOG RIGHT 34 R3436 R3436 R11558 R11558 REMOTE/OFF/ON SWITCH 35 30679 30679 30679 WIRE CHANEL - RIGHT 36 30680 30680 30680 WIRE CHANEL - LEFT 37 30628 30627 30627 30627 REAR COVER - LEFT 38 30627 30627 30627 30627 REAR COVER - RIGHT NS R9698 R9698 — — WIRE ASSEMBLY NS R7591 R7591 R7591 R7591 FLEX LINE	30	29793	29793	29793	29793	BRANCH TOP
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34 R3436 R3436 R11558 R11558 REMOTE/OFF/ON SWITCH 35 30679 30679 30679 30679 WIRE CHANEL - RIGHT 36 30680 30680 30680 30680 WIRE CHANEL - LEFT 37 30628 30628 30628 REAR COVER - LEFT 38 30627 30627 30627 30627 NS R9698 R9698 NS WIRE ASSEMBLY NS R7591 R7591 R7591 R7591	32	29791	29791	29791	29791	LOG LEFT
35 30679 30679 30679 30679 WIRE CHANEL - RIGHT 36 30680 30680 30680 30680 WIRE CHANEL - LEFT 37 30628 30628 30628 30627 REAR COVER - LEFT 38 30627 30627 30627 30627 REAR COVER - RIGHT NS R9698 R9698 - - WIRE ASSEMBLY NS - R8195 REOWIRE ASSEMBLY NS R7591 R7591 R7591 R7591	33	29792	29792	29792	29792	LOG RIGHT
36 30680 30680 30680 30680 WIRE CHANEL - LEFT 37 30628 30628 30628 30628 REAR COVER - LEFT 38 30627 30627 30627 REAR COVER - RIGHT NS R9698 R9698 — — WIRE ASSEMBLY NS - R8195 ECO WIRE ASSEMBLY REAR COVER - RIGHT NS R7591 R7591 R7591 R7591 FLEX LINE	34	R3436	R3436	R11558	R11558	REMOTE/OFF/ON SWITCH
37 30628 30628 30628 30628 REAR COVER - LEFT 38 30627 30627 30627 30627 REAR COVER - RIGHT NS R9698 R9698 - - WIRE ASSEMBLY NS - R8195 REOWIRE ASSEMBLY NS R7591 R7591 R7591 FLEX LINE	35	30679	30679	30679	30679	WIRE CHANEL - RIGHT
38 30627 30627 30627 30627 REAR COVER - RIGHT NS R9698 R9698 — — WIRE ASSEMBLY NS — — R8195 ECO WIRE ASSEMBLY NS R7591 R7591 R7591 FLEX LINE	36	30680	30680	30680	30680	WIRE CHANEL - LEFT
NS R9698 R9698 — — WIRE ASSEMBLY NS — — R8195 R8195 ECO WIRE ASSEMBLY NS R7591 R7591 R7591 R7591 FLEX LINE	37	30628	30628	30628	30628	REAR COVER - LEFT
NS — — R8195 R8195 ECO WIRE ASSEMBLY NS R7591 R7591 R7591 R7591 FLEX LINE	38	30627	30627	30627	30627	REAR COVER - RIGHT
NS R7591 R7591 R7591 R7591 R7591 FLEX LINE	NS	R9698	R9698	_	—	WIRE ASSEMBLY
	NS	_	—	R8195	R8195	ECO WIRE ASSEMBLY
NS – – R11128 R11128 POWER ADAPTOR	NS	R7591	R7591	R7591	R7591	FLEX LINE
	NS	—	—	R11128	R11128	POWER ADAPTOR

NS - NOT SHOWN

DVP20CC(30,70)PARTS VIEW

PLEASE NOTE: When ordering parts, it is very important that part number and description of part coincide.



USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH.

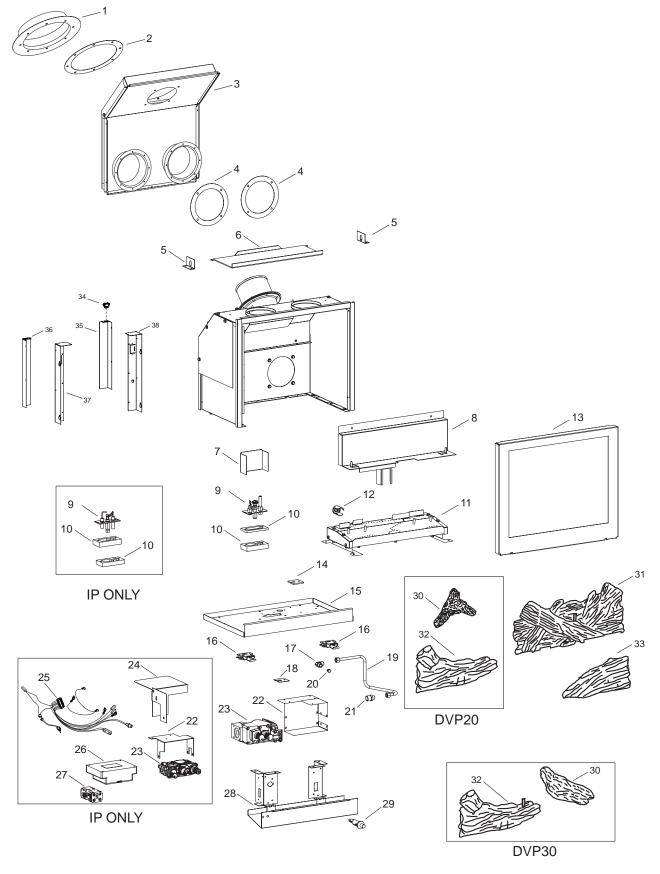
DVP30CC(30,70) PARTS LIST

INDEX NO. DVP30CC30 PROPANE DVP30CC30 NATURAL DVP30CC70B PROPANE DVP30CC70B NATURAL DVP30C70B NATURAL DVP30C70B NATURAL DVP30C70B NATURAL DVP30C70B NATURAL DVP30C70B NATURAL DESCRIPTION 1 R7566 R7566 R7566 R7566 R7566 INLET VENT COLLAR A 2 M178 M178 M178 M178 INLET COLLAR GASKET 3 30892 30892 30892 30892 AIR DROP ASSEMBLY 4 M163 M163 M163 M163 FLUE OUTLET GASKET 5 30392 30392 30392 BLOW PLATE BRACKET 6 24398 24398 24398 BLOW PLATE ASSEMBLY 7 30931 30931 30931<	
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4 M163 M163 M163 FLUE OUTLET GASKET 5 30392 30392 30392 30392 BLOW PLATE BRACKET 6 24398 24398 24398 BLOW PLATE ASSEMBLY	
5 30392 30392 30392 30392 BLOW PLATE BRACKET 6 24398 24398 24398 24398 BLOW PLATE ASSEMBLY	
6 24398 24398 24398 BLOW PLATE ASSEMBLY	
7 30931 30931 30931 30931 PILOT SHIELD	
8 30880 30880 30880 30880 REAR LOG SUPPORT	
9 — R7612 — R10423 PILOT ASSEMBLY, NATURAL	
9 R7611 — R10424 — PILOT ASSEMBLY, PROPANE	
10 R9189 R9189 R9189 R9189 PILOT GASKET	
10 — — R7617 R7617 PILOT GASKET	
11 30899 30899 30899 30899 BURNER ASSEMBLY	
12 R5676 R5676 R5676 R5676 AIR SHUTTER	
13 24185 24185 24185 24185 GLASS FRAME ASSEMBLY	
14 M174 M174 M174 M174 GASKET	
15 29762 29762 30620 30620 FIREBOX BOTTOM	
16 R4053 R4053 R4053 R4053 DOOR CLAMP	
17 P253 P253 P253 P253 FITTING, ORIFICE ANGLED	
18 11269 11269 11269 11269 GAS LINE BRACKET	
19 29764 29764 30621 30621 TUBING ASSEMBLY, INLET	
20 — P285 — P285 ORIFICE #39	
20 P258 — P258 — ORIFICE 1.55MM	
21 R2423 R2423 R2423 R2423 CONNECTOR, MALE 5/16 X 3/8 NPT	- BODY ONLY
22 29526 29526 29770 29770 VALVE BRACKET	
23 R7578 — R11126 — VALVE, PROPANE	
23 — R7577 — R11125 VALVE, NATURAL	
24 — — 30930 30930 IP CONTROL BRACKET	
25 — — R11123 R11123 WIRE HARNESS (INCLUDES PILOT	SWITCH)
26 — — R11127 R11127 CONTROL BOARD	
27 — R11122 R11122 BATTERY HOLDER, AA WITH SNAP-	-ON
28 24727 24727 24727 24727 VALVE COVER WELDED ASSEMBLY	ſ
29 R9760 R9760 — — PIEZO W/RED IGNITOR	
30 29798 29798 29798 29798 BRANCH TOP	
31 29795 29795 29795 29795 LOG REAR	
32 29796 29796 29796 29796 LOG LEFT	
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34 R3436 R3436 R11558 R11558 REMOTE/OFF/ON SWITCH	
35 30679 30679 30679 30679 WIRE CHANEL - RIGHT	
36 30680 30680 30680 30680 WIRE CHANEL - LEFT	
37 30628 30628 30628 30628 REAR COVER - LEFT	
38 30627 30627 30627 30627 REAR COVER - RIGHT	
NS R9698 R9698 — — WIRE ASSEMBLY	
NS — — R8195 R8195 ECO WIRE ASSEMBLY	
NS R7591 R7591 R7591 R7591 R7591 FLEX LINE	
NS — — R11128 R11128 POWER ADAPTOR	

NS - NOT SHOWN

DVP30CC(30,70) PARTS VIEW

PLEASE NOTE: When ordering parts, it is very important that part number and description of part coincide.



USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH.

CASTING PARTS LIST

PLEASE NOTE: When ordering parts, it is very important that part number and description of part coincide.

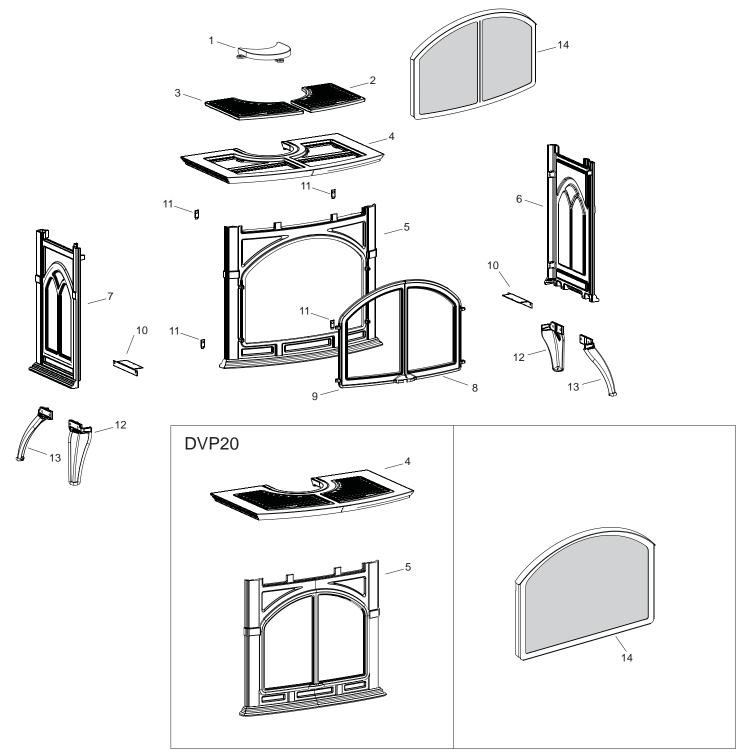
INDEX	PAR	ΓNO.			
NO.	DVP20CC	DVP30CC	DESCRIPTION		
COMMON PARTS					
11	R9671	R9671	INSERT TAB (4 REQUIRED)		
14	34966	34973	BARRIER SCREEN*		
NS	N/A	R9669	HINGE PIN (4 REQUIRED)		
NS	R9670	R9670	BOLT, 1/4-20 X 1/2" (24 REQUIRED)		
		MATTE BL	ACK		
1	N/A	R11354	VENT OPENING INSERT MIDDLE		
2	N/A	R9538	TOP INSERT - RIGHT		
3	N/A	R9537	TOP INSERT - LEFT		
4	R11307	R9536	CASTING TOP		
5	R11309	R9666	CASTING FRONT		
6	R11306	R9535	CASTING SIDE - RIGHT		
7	R11305	R9534	CASTING SIDE - LEFT		
8	N/A	R9668	CASTING DOOR - RIGHT		
9	N/A	R9667	CASTING DOOR - LEFT		
10	24191	24191	FIREBOX SUPPORT BRACKET (2 REQUIRED)		
12	R11304	R9533	CASTING LEG B		
13	R11303	R9532	CASTING LEG A		
		MATTE PE	WTER		
1	N/A	R11356	VENT OPENING INSERT MIDDLE		
2	N/A	R9554	TOP INSERT - RIGHT		
3	N/A	R9553	TOP INSERT - LEFT		
4	N/A	R9552	CASTING TOP		
5	N/A	R9693	CASTING FRONT		
6	N/A	R9551	CASTING SIDE - RIGHT		
7	N/A	R9550	CASTING SIDE - LEFT		
8	N/A	R9695	CASTING DOOR - RIGHT		
9	N/A	R9694	CASTING DOOR - LEFT		
10	N/A	24191	FIREBOX SUPPORT BRACKET (2 REQUIRED)		
12	N/A	R9549	CASTING LEG B		
13	N/A	R9548	CASTING LEG A		

*NOTE: A barrier screen is required for operation of this appliance. Follow the instructions that came with your barrier screen for installation.

INDEX PART NO.		Г NO.				
NO.	DVP20CC		DESCRIPTION			
PORCELAIN BLACK						
1	N/A	R11355	VENT OPENING INSERT MIDDLE			
2	N/A	R9570	TOP INSERT - RIGHT			
3	N/A	R9569	TOP INSERT - LEFT			
4	R11314	R9568	CASTING TOP			
5	R11316	R9681	CASTING FRONT			
6	R11313	R9567	CASTING SIDE - RIGHT			
7	R11312	R9566	CASTING SIDE - LEFT			
8	N/A	R9683	CASTING DOOR - RIGHT			
9	N/A	R9682	CASTING DOOR - LEFT			
10	24191	24191	FIREBOX SUPPORT BRACKET (2 REQUIRED)			
12	R11311	R9565	CASTING LEG B			
13	R11310	R9564	CASTING LEG A			
		PORCELAIN	I SAND			
1	N/A	R11358	VENT OPENING INSERT MIDDLE			
2	N/A	R9586	TOP INSERT - RIGHT			
3	N/A	R9585	TOP INSERT - LEFT			
4	N/A	R9584	CASTING TOP			
5	N/A	R9700	CASTING FRONT			
6	N/A	R9583	CASTING SIDE - RIGHT			
7	N/A	R9582	CASTING SIDE - LEFT			
8	N/A	R9702	CASTING DOOR - RIGHT			
9	N/A	R9701	CASTING DOOR - LEFT			
10	N/A	24191	FIREBOX SUPPORT BRACKET (2 REQUIRED)			
12	N/A	R9581	CASTING LEG B			
13	N/A	R9580	CASTING LEG A			
	PO	RCELAIN M	AHOGANY			
1	N/A	R11356	VENT OPENING INSERT MIDDLE			
2	N/A	R9602	TOP INSERT - RIGHT			
3	N/A	R9601	TOP INSERT - LEFT			
4	R11321	R9600	CASTING TOP			
5	R11323	R9707	CASTING FRONT			
6	R11320	R9599	CASTING SIDE - RIGHT			
7	R11319	R9598	CASTING SIDE - LEFT			
8	N/A	R9709	CASTING DOOR - RIGHT			
9	N/A	R9708	CASTING DOOR - LEFT			
10	24191	24191	FIREBOX SUPPORT BRACKET (2 REQUIRED)			
12	R11318	R9597	CASTING LEG B			
13	R11317	R9596	CASTING LEG A			

CASTING PARTS VIEW

PLEASE NOTE: When ordering parts, it is very important that part number and description of part coincide.



USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH.

ACCESSORY SIDE SHELVES INSTALLATION INSTRUCTIONS

Installing Accessory Side Shelves:

- 1. Remove cast iron or stone inlay inserts from casting top and carefully set them aside.
- 2. Remove cast iron top from stove and place upside down on a flat, soft smooth surface to avoid damage.
- 3. Remove four ¼-20 hex head bolts from the outer edges of cast iron top.
- 4. Place left and right side shelves in place shown in Figure 34.
- Replace four ¼-20 hex head bolts to attach side shelves to cast iron top, be sure shelf is tight to casting top before fully tightening bolts.
- 6. Remove eight ¼-20 hex head bolts from side shelves.
- 7. Replace cast iron top on unit.
- 8. Attach side shelf supports one at a time, using two ¼-20 hex head bolts per support, sliding support flush to casting before fully tightening bolts as shown in **Figure 35.**
- 9. Replace cast iron or stone inlay inserts into casting top.

NOTE: Be sure to remove side shelf supports prior to removing cast iron top to eliminate potential scratching or chipping to the cast iron sides.

NOTE: Due to inherent properties of the casting process, noncombustible shims may be required to level accessory side shelves to the casting top. These shims are provided in the form of washers to be used on either side of the bolts. **See Figure 34.** If accessory shelf angles downward, toward the floor, washer(s) will need to be added to the center side of the bolt. Conversely, if the accessory side shelf angles upward, toward the ceiling, washer(s) will need to be added to the outside of the top casting side of the bolt. **See Figure 37.**

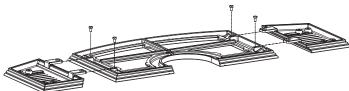
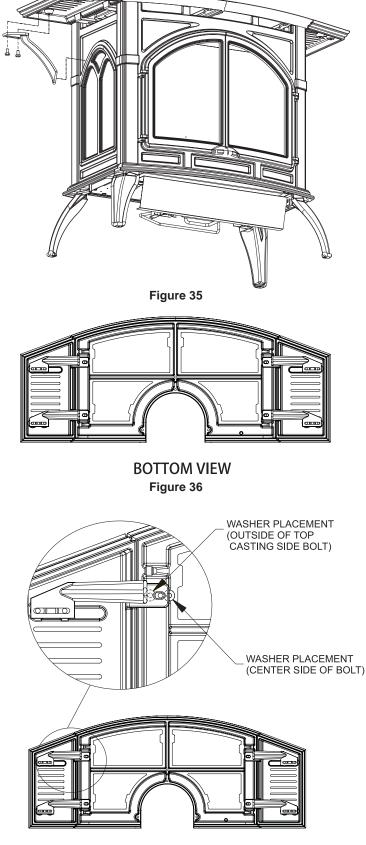


Figure 34



BOTTOM VIEW Figure 37

CIB3-3 OPTIONAL BLOWER INSTALLATION INSTRUCTIONS - DVP30CC

A CAUTION

Sharp edges, use protective gloves when installing.

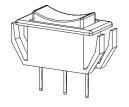
Carton Contents:

- Blower Assembly
- Auto/On/Off Switch
- Fan Control Bracket Assembly
- Wire Channel Left DV
- Wire Channel Left VF
- Hardware Package:
 - (2) 10 x 1/2" Screw
 - (1) On/Off/Auto Switch
 - (1) Rheostat Nut
 - (1) Knob, Rheostat

HARDWARE PACKAGE

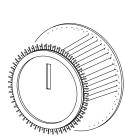


#10 x 1/2" SCREW



AUTO/ON/OFF SWITCH





KNOB

Installing Optional CIB3 Blower

- 1. Loosen, but do not remove, four hex-head screws located on the exterior, bottom of the appliance.
- 2. Position the blower assembly at the rear of the appliance. The blower assembly has four keyholes for attachment to the exterior, bottom of the appliance.
- 3. Place the large diameter holes in the keyholes over and behind the four hex-head screws that were loosened in Step 1. Push inward on the blower assembly to lock the keyholes into position behind the screws. Tighten four hex-head screws to secure blower assembly to exterior, bottom of the appliance.
- 4. Remove wire channel-left from appliance by removing 10 x 1/2" screws on left side of the appliance. NOTE: Some units require a new wire channel. If Rheostat mounting holes are missing from part removed from unit, discard wire channel removed from unit and continue installation with appropriate wire channel shipped with blower. See Figure 38.
- 5. Route fan control wires through rectangular notch on wire channel left.
- 6. Attach 1/4" push-on terminal from blue wire on the fan control to the AUTO (top) tab on the switch.
- 7. Attach 1/4" push-on terminal from black wire to the OFF (middle) tab on the switch.
- 8. Attach 1/4" push-on terminal from white wire on the fan control to the ON (bottom) tab on the switch.
- 9. Insert AUTO/OFF/ON switch into rectangular notch on wire channel left.
- 10. Install rheostat through hole in wire channel and align small tab with small hole.
- 11. Use an 11/16" wrench to tighten rheostat nut on stationary portion of knob stem of the rheostat. **NOTE:** Nut is self-tapping and can be started at an angle.
- 12. Push rheostat knob onto knob stem until fully seated.
- Bend the fan control tab, located on the left side of the back of the unit, inward toward the unit. Be sure tab is bent at least 90 degrees to allow fan control bracket to slide into slot.
- 14. Attach fan control with bracket onto rear cover with two $10 \times 1/2$ " screws provided in hardware package.
- 15. Route wires from fan control and ON/OFF/REMOTE switch within wire channel.
- 16. Attach wire channel to channel divider with two 10 x 1/2" screws from Step 4.
- 17. Installation of optional CIB3 blower is completed.

CIB3-3 OPTIONAL BLOWER INSTALLATION INSTRUCTIONS - DVP30CC

Fan Control

The fan control is a non-adjustable automatic type The fan control will require between 5 and 10 minutes of main burner operation before the fan control "closes" and activates the blower. The blower will continue to run between 5 and 10 minutes after the main burner shuts off, before the fan control "opens" and deactivates the blower.

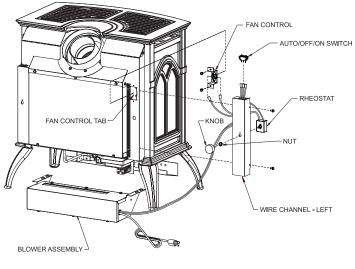


Figure 38

Cleaning

The blower wheel will collect lint and could require cleaning once a year. If the air output decreases or the noise level increases, it indicates a dirty wheel.

Blower Motor

The blower motor does not have oiling holes. Do not attempt to oil blower motor.

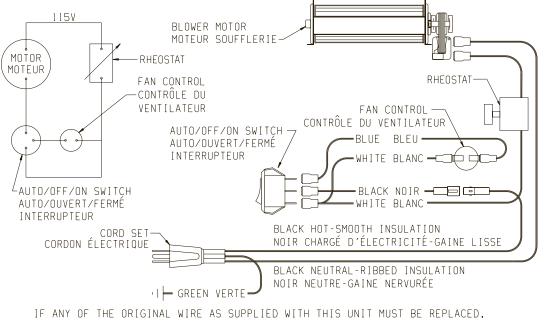
Wiring

The appliance, 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 or Canadian Electrical Code, CSA C22.1*, if an external electrical source is utilized. This appliance is equipped with a three-prong [grounding] plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug. For an ungrounded receptacle, an adapter, which has two prongs and a wire for grounding, can be purchased, plugged into the ungrounded receptacle and its wire connected to the receptacle mounting screws. With this wire completing the ground, the appliance cord plug can be plugged into the adapter and be electrically grounded.

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

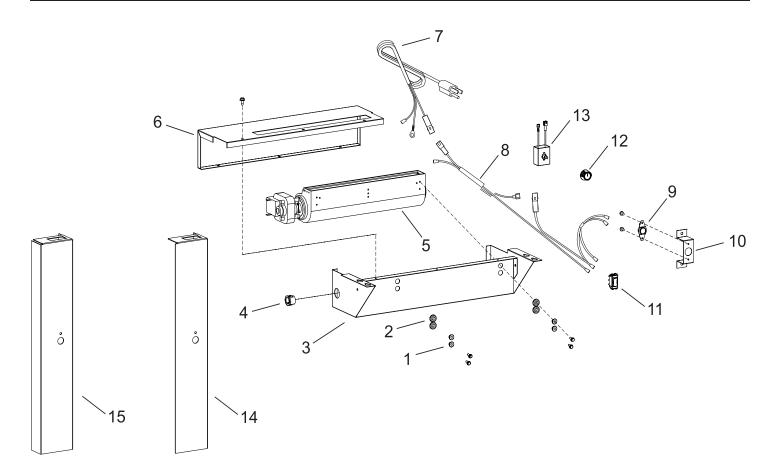
WARNING

Unplugging of blower accessory will not stop the heater from cycling. To shut heater off: Turn temperature dial or thermostat to lowest setting. Turn knob on gas control to "OFF," depressing slightly. Do not force.



IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THIS UNIT MUST BE REPLACED, IT MUST BE REPLACED WITH NO. 18. 150°C WIRE OR ITS EQUIVALENT. SI UN DES FILS ÉLECTRIQUES ORIGINAUX. VENANT DU FABRICANT AVEC CETTE UNITÉ. DOIT ÊTRE REMPLACÉ. VOUS DEVEZ LE REMPLACER AVEC UN FIL ÉLECTRIQUE DE NUMÉRO 18. 150°C OU L'ÉQUIVALENT.

CIB3-3 OPTIONAL BLOWER INSTALLATION INSTRUCTIONS - DVP30CC



PARTS LIST				
Index Number	Part Number	Description		
1	R1454	Brass Bushing		
2	R1499	Rubber Grommet		
3	31739	Blower Housing		
4	R1410	Strain Relief Bushing		
5	R12447	Blower Assembly		
6	24225	Blower Cover		
7	R6159	Cord Set		
8	R10363	Wire Harness		
9	R2503	Fan Control		
10	24222	Fan Control Bracket		
11	R2805	Auto OFF/ON Switch		
12	R4192	Rheostat Knob		
13	18879	Rheostat		
14	26050	Wire Channel - Left, DV		
15	26052	Wire Channel - Left, VF		

CIB4-2 OPTIONAL BLOWER INSTALLATION INSTRUCTIONS - DVP20CC

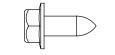
A CAUTION

Sharp edges, use protective gloves when installing.

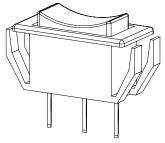
Carton Contents:

- Blower Assembly
- Auto/On/Off Switch
- Fan Control Bracket Assembly
- Hardware Package:
 - (2) 10 x 1/2" Screw
 - (1) On/Off/Auto Switch

HARDWARE PACKAGE



#10 X 1/2 INCH SCREW



AUTO/ON/OFF SWITCH

Installing Optional CIB4 Blower

- 1. Loosen, but do not remove, four hex-head screws located on the exterior, bottom of the appliance.
- 2. Position the blower assembly at the rear of the appliance. The blower assembly has four keyholes for attachment to the exterior, bottom of the appliance.
- 3. Place the large diameter holes in the keyholes over and behind the four hex-head screws that were loosened in Step 1. Push inward on the blower assembly to lock the keyholes into position behind the screws. Tighten four hex-head screws to secure blower assembly to exterior, bottom of the appliance.
- 4. Remove wire channel-left from appliance by removing two $10 \times 1/2$ " screws on left side of the appliance.
- 5. Route fan control wires through rectangular notch on wire channel left.
- 6. Attach 1/4" push-on terminal from blue wire on the fan control to the AUTO (top) tab on the switch.
- 7. Attach 1/4" push-on terminal from black wire to the OFF (middle) tab on the switch.
- 8. Attach 1/4" push-on terminal from white wire on the fan control to the ON (bottom) tab on the switch.
- 9. Insert AUTO/OFF/ON switch into rectangular notch on wire channel left.
- Bend the fan control tab, located on the left side of the back of the unit, inward toward the unit. See Figure 40. Be sure tab is bent at least 90 degrees to allow fan control bracket to slide into slot.
- 11. Attach fan control with bracket onto rear cover with two 10 x 1/2" screws provided in hardware package.
- 12. Route wires from fan control and ON/OFF/REMOTE switch within wire channel.
- 13. Attach wire channel with two 10 x 1/2" screws from Step 4.
- 14. Installation of optional CIB4 blower is completed.

Fan Control

The fan control is a non-adjustable automatic type The fan control will require between 5 and 10 minutes of main burner operation before the fan control "closes" and activates the blower. The blower will continue to run between 5 and 10 minutes after the main burner shuts off, before the fan control "opens" and deactivates the blower.

Cleaning

The blower wheel will collect lint and could require cleaning once a year. If the air output decreases or the noise level increases, it indicates a dirty wheel.

Blower Motor

The blower motor does not have oiling holes. Do not attempt to oil blower motor.

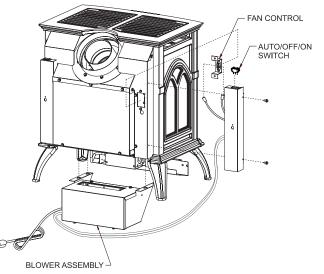


Figure 40

CIB4-2 OPTIONAL BLOWER INSTALLATION INSTRUCTIONS - DVP20CC

Wiring

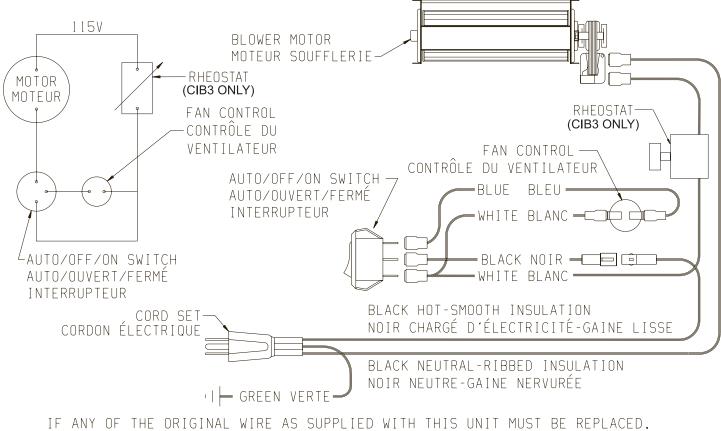
The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70 or Canadian Electrical Code, CSA C22.1*, if an external electrical source is utilized. This appliance is equipped with a three-prong [grounding] plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug. For an ungrounded receptacle, an adapter, which has two prongs and a wire for grounding, can be purchased, plugged into the ungrounded receptacle and its wire connected to the receptacle mounting screws. With this wire completing the ground, the appliance cord plug can be plugged into the adapter and be electrically grounded.

A CAUTION

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

WARNING

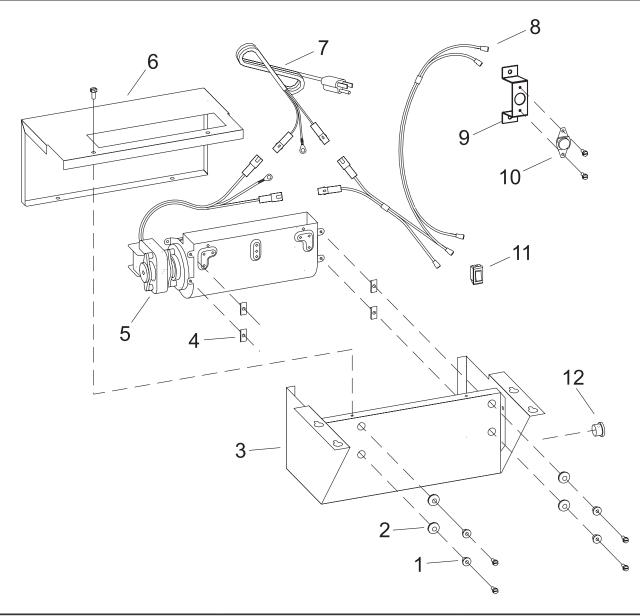
Unplugging of blower accessory will not stop the heater from cycling. To shut heater off: Turn temperature dial or thermostat to lowest setting. Turn knob on gas control to "OFF," depressing slightly. Do not force.



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Figure 41

CIB4-2 OPTIONAL BLOWER INSTALLATION INSTRUCTIONS - DVP20CC



PARTS LIST				
Index Number	Part Number	Description		
1	R1454	Brass Bushing (4 Required)		
2	R1499	Rubber Grommet (4 Required)		
3	C1002	Blower Housing		
4	R1517	Tinnerman Clip (4 Required)		
5	R2804A	Blower Assembly		
6	C1003	Blower Housing Cover		
7	R2099	Cord Set		
8	R3767A	Wire Harness		
9	24222	Fan Control Bracket		
10	R2503	Fan Control		
11	R2805	Auto/Off/On Switch		
12	R1410	Bushing 7/8 Inch Diameter		

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 unit.

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.com.

Please note: 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 Inc.

Dey Distributing 1401 Willow Lake Boulevard Vadnais Heights, MN 55101	F. W. Webb Company 200 Locust Street Hartford, CT 06114
Phone: 651-490-9191 Toll Free: 800-397-1339 Website: www.deydistributing.com Parts: Heater, Hearth and Grills	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 . . .

Appliance Model Number _____

Part Description _____

Appliance Serial Number _____

Part Number

Type of Gas (Propane or Natural)

Do not order bolts, screws, washers or nuts. They are standard hardware items and can be purchased at any local hardware store. Shipments contingent upon strikes, fires and all causes beyond our control.



Empire Comfort Systems Belleville, Illinois Web Site:

www.empirecomfort.com



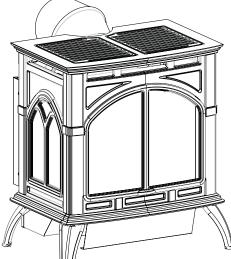


The Empire Cast Iron Stoves Models:

DVP20CC(30,70)(B,F,M)(N,P)-1 DVP30CC(30,70)(B,F,M,S,W)(N,P)-1

MODEL	DVP20CC		DVP30CC	
Gas Type	Natural Gas	Propane Gas	Natural Gas	Propane Gas
Input BTU/HR (KW/H) Max	19,	500	26,500	26,500
Input BTU/HR (KW/H) Min	13,	500	18,000	21,000
Gas Inlet (Pipe)	3/8"		3/8"	
Orifice	2.15mm 55		39	1.55mm
Gas Supply Pressure Max	10.5" W.C. / 2.614 kPa	10.5" W.C. / 2.614 kPa 13.0" W.C. / 3.237 kPa		13.0" W.C. / 3.237 kPa
Gas Supply Pressure Min	4.5" W.C. / 1.121 kPa	11.0" W.C. / 2.739 kPa	4.5" W.C. / 1.121 kPa	11.0" W.C. / 2.739 kPa
Gas Supply Pressure Manifold	3.5" W.C. / .872 kPa 10.0" W.C. / 2.490 kPa		3.5" W.C. / .872 kPa	10.0" W.C. / 2.490 kPa
Height	24-1/8"		27-3/4"	
Width	21-1/2"		28-1/16"	
Depth	16-1/2"		18"	





36" (91cm) TO CEILING OR HORIZONTAL PROJECTION ABOVE APPLIANCE

6" (153mm) TO COMBUSTIBLE MATERIAL

6" (153mm) TO SIDE WALL



Empire Comfort Systems

Belleville, Illinois

The Empire Cast Iron Stoves Models:

www.empirecomfort.com

Web Site:

DVP20CC(30,70)(B,F,M)(N,P)-1

DVP30CC(30,70)(B,F,M,S,W)(N,P)-1

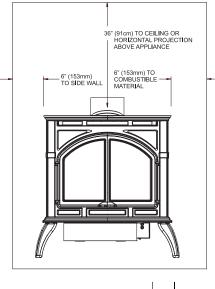
In selecting a location for installation, it is necessary to provide adequate accessibility clearances for servicing and proper operation.

Locating and Venting the Direct Vent Stove

Clearances: When facing the front of the direct vent stove the minimum clearances to combustible construction (material) are the following:

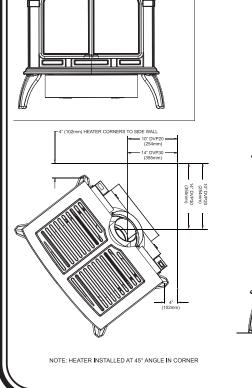
Top of appliance (ceiling)	36 (inches)	
Rear Wall	1 (inches)	
Side Wall	6 (inches)	

Heater Corners (45° angle) to Wall	4 (inches)
Floor	0 (inches)



Installation on Rugs and Tile

This appliance must be installed on a flat, solid, continuous surface (e.g. wood, metal, concrete). This may be the floor, or it may be raised up on a platform to enhance its visual impact. The appliance may be installed on carpeting, tile, wood flooring or other combustible material as the appliance's base extends the width and depth of the appliance.



2" (51mm) _____ TO COMBUSTIBLE MATERIAL

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. 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 – Factory-Installed Glass

If factory-installed glass fails because of defective workmanship or material, Empire will repair or replace it at Empire's option.

Limited Lifetime Parts Warranty – Combustion Chamber, Heat Exchanger

If the combustion chamber or heat exchanger (see parts list) fails because of defective workmanship or material, Empire will repair or replace it at Empire's option.

Limited Three-Year Parts Warranty – All Other Components (Except Remote Controls, Thermostats, Lights, 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 it at Empire's option.

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

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

Duties of the Owner

Have the appliance installed by a qualified installer, and operate and maintain it in accordance with the furnished instructions

Provide proof of purchase (receipt) to establish the purchase date, which determines the warranty start date. Provide ready access to the appliance for service.

What Is Not Covered

Damage caused by misuse or improper installation. Damage caused by improper maintenance or lack of maintenance. Claims that do not involve defective workmanship or materials. Unauthorized service or replacement parts. Travel, diagnostic costs and freight charges on warranted parts to and from the factory. Removal and reinstallation cost.

How to Get Service

Provide the dealer with the model number, serial number, type of gas, and proof of purchase. 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, the service received has not been satisfactory, send an e-mail describing the issue and any actions taken 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

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