

This appliance has been retired.
Service parts pages within have been removed.
For replacement parts, please refer to the individual
service parts list located on the brand websites.

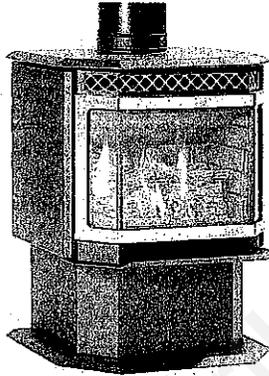


QUADRA-FIRE

North America's Best

COLUMBIA BAY

Freestanding Direct Vent Gas Appliance



Installation, Venting, Operation & Maintenance Manual

SAVE THESE INSTRUCTIONS

WARNING!

If the information in these instructions is not followed exactly a fire or explosion may result causing property damage, personal injury or death.

FOR YOUR SAFETY

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 electric switch.
- Do not use any telephone 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.

This appliance may be installed in an aftermarket permanently located, manufactured (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.

Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

1 Prior to first fire: Clean gold surfaces with a glass cleanser and soft cloth to prevent staining from fingerprint oils.



1445 North Highway
Colville, WA 99114

Part #250-5192 (842-4000) 02/2001

www.aladdinhearth.com
ahpfireup.com

WELCOME

Congratulations

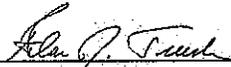


Aladdin Hearth Products welcomes you to our tradition of excellence! In choosing a **Quadra-Fire** appliance, you have our assurance of commitment to quality, durability, and performance.

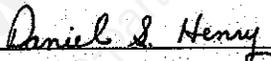
This commitment begins with our research of the market, including 'Voice of the Customer' contacts, ensuring we make products that will satisfy your needs. Our Research and Development facility then employs the world's most advanced technology to achieve the optimum operation of our stoves, inserts and fireplaces. And yet we are old-fashioned when it comes to craftsmanship. During manufacturing each unit is meticulously fabricated and gold surfaces are hand-finished for lasting beauty and enjoyment. Our pledge to quality is completed as each model undergoes a quality control inspection. Additionally, we feel it is important to offer you several finishing options and accessories to compliment your home's décor, individualize the use of your appliance, and provide financial options in acquiring a quality hearth appliance. Ask your **Quadra-Fire** Dealer for information on these options. From design, to fabrication, to shipping: Our guarantee of quality is more than a word, it's **Quadra-Fire** tradition, and we proudly back this tradition with a **Lifetime Warranty**.

Prior to installation, we ask you to take a few moments to read this manual. It has been our experience that your overall enjoyment of your new appliance will be greatly enhanced by becoming familiar with its' installation, operation and maintenance requirements. We wish you and your family many years of enjoyment in the warmth and comfort of your hearth appliance. **Thank you** for choosing **Quadra-Fire**.

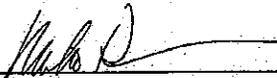
With warm regards,



President



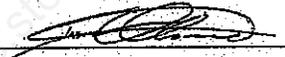
V.P. Research & Development



V.P. Sales & Marketing



Controller



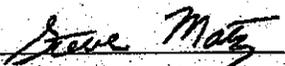
Operations Mgr.



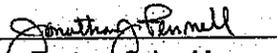
Quality Assurance Mgr.



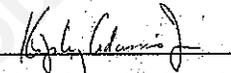
Western Sales Mgr.



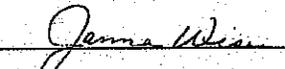
Central Sales Mgr.



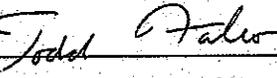
Eastern Sales Mgr.



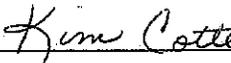
Manufacturing Eng. Mgr.



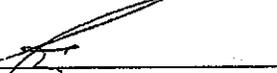
Sr. Purchasing Agent



Technical Support Mgr.



Customer Support Mgr.



Human Resources



COLUMBIA BAY PEDESTAL MODEL WITH GOLD DIAMOND GRILLE & DOOR CROWN

OWNER'S NOTES:

CONTENTS

Important!
Complete now for future reference.

MODELNAME Quadra-Fire COLUMBIA BAY

Serial Number

Located in two areas: on the Ratings Label on back of unit, and above Lighting Instructions on inside of left panel.

Date Purchased

Dealership Where Purchased

Dealer Phone

Additional Information:

After completing your warranty card, attach your sales receipt and warranty stub here for future reference.

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Ratings/SERIAL LABEL

Tested & Listed By **UL** Organization Oregon USA
 Q93N-Test Laboratories, Inc.
 Report No. / Rapport Numéro 051-S-17-S

MODEL / MODÈLE: COLUMBIA BAY
 VENTED GAS FIREPLACE HEATER
 FOURNAISE AU GAZ AVEC VENTILATION
 NOT FOR USE WITH SOLID FUEL /
 NE PAS UTILISER AVEC LE COMBUSTIBLE SOLIDE

SERIAL NO.

ALADDIN
 HEARTH PRODUCTS
 1445 North Highway
 Colville, WA 99114

APPROVED FOR CANADA AND USA TO:

ANSI Z21.88b-1999 / CSA 2.33b-M99 Vented Gas Fireplace Heaters, and applicable sections of UL307b Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles, CAN/CGA 2.17-M91 "Gas Fired Appliances for use at High Altitudes".
 This appliance is manufactured for operation with Natural Gas.
 For conversion to propane Manufacturer's Part #842-4040 and instructions must be used.

APPROUVÉ POUR LE CANADA ET LES ÉTATS-UNIS:

ANSI Z21.88b-1999 / CSA 2.33b-M99 Fournaises au Gaz avec Ventilation, et les sections applicables de UL 307b Appareils de Chauffage au Gaz pour les Maisons Mobiles et les Véhicules Motorisés, CAN/CGA 2.17-M91 "Gas Fired Appliances for use at High Altitudes".
 Cet appareil est manufacturé pour l'opération avec le Gaz Naturel.
 Pour une conversion au gaz propane les pièces du Manufacturier #842-4040 et ses instructions doivent être utilisées.

FAN TYPE VENTED CIRCULATOR / VENTILATEUR CIRCULATOIRE Blower Electrical Rating / Évaluation du Ventilateur	Thermal Efficiency / Efficacité Thermique* 82% NG (blower on / avec ventilateur allumé) 85% LP (blower on / avec
---	---

	For use with Natural Gas Usage Au Gaz Naturel 0-2000'	For use with Propane Usage Au Gaz Propane 0-2000'
Input Rate on "HI" (BTU/Hr) Puissance Évaluée à "HI" (BTU/Hr)	30,000	30,000
Input Rate on "LO" (BTU/Hr) Puissance Évaluée à "LO" (BTU/Hr)	20,000	25,000
Maximum Output (BTU/Hr) Puissance Maximum (BTU/Hr)	24,600	25,500
Main Burner Orifice (DMS) Orifice du Brûleur Principal	#36	#52
Minimum Inlet Pressure (Inches W.C.) Pression Minimum de la Valve (pouces W.C.)	4.5"	11"
Maximum Inlet Pressure (Inches W.C.) Pression Maximum de la Valve (pouces W.C.)	7.0"	14"
Manifold Pressure on "HI" (Inches W.C.) Pression du Collecteur d'Échappement à "HI" (pouces W.C.)	3.5"	10"

**Max Venting, Blower On
 ** Ventilation Maximum, Ventilateur Allumé

Keep burner and control compartment clean. See installation and operating instructions accompanying this appliance.
 Gardez le brûleur et le compartiment de contrôle propres. Consultez les instructions d'installation et d'opération qui accompagnent cet appareil.
 This vented gas fireplace heater is not for use with air filters. / Cet appareil de chauffage au gaz n'est pas pour l'usage avec des filtres d'air.
 Due to high surface temperatures, keep children, clothing and furniture away. / Du aux surfaces de températures élevées, gardez les enfants, les vêtements et les

ELECTRICAL SUPPLY / FOURNITURE ÉLECTRIQUE: 120 Volts, 1.2 Amps, 60 Hz

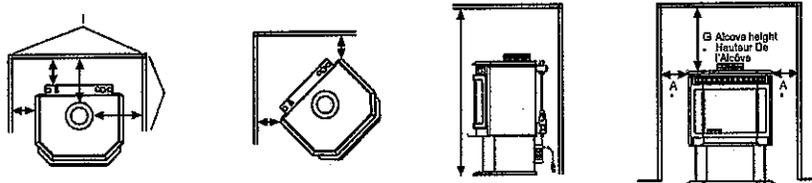
WARNING: Operation of this appliance when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.
 AVERTISSEMENT: L'opération de cet appareil lorsqu'il n'est pas connecté à un système de ventilation correctement installé et maintenu peut résulter à un empoisonnement d'oxyde de carbone ou même de mort possible.

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. See owner's manual for details. This appliance is not convertible for use with other gases, unless a certified kit is used.
 Cet appareil doit être utilisé seulement avec le gaz indiqué sur l'étiquette enregistré et peut être installé dans une maison mobile en place

CAUTION: DO NOT OPERATE THIS APPLIANCE WITH GLASS REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE PANEL(S) SHOULD BE DONE BY A LICENSED OR QUALIFIED PERSON.
 ATTENTION: GET APPAREIL NE DOIT PAS ÊTRE OPÉRÉ SI LA VITRE EST BRISÉE, CRAQUÉE OU ENLEVÉE. LE REMPLACEMENT DU PANNEAU DOIT ÊTRE FAIT PAR UNE PERSONNE LICENSÉE ET QUALIFIÉE.

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. SEVERE BURNS MAY RESULT. KEEP CHILDREN, CLOTHING, FURNITURE, GASOLINE AND OTHER LIQUIDS AWAY FROM FLAMMABLE VAPORS AWAY.
 ATTENTION: CHAUD LORSQU'IL EST EN OPÉRATION. NE TOUCHEZ PAS. DES BRÛLURES SÉVÈRES PEUVENT EN RÉSULTER. GARDEZ LES ENFANTS, LES VÊTEMENTS, LES MEUBLES, LA GAZOLINE ET LES AUTRES LIQUIDES DE VAPEUR INFLAMMABLE AWAY.
 WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THE OWNER'S INFORMATION MANUAL PROVIDED WITH THIS APPLIANCE. FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.
 AVERTISSEMENT: UNE INSTALLATION, UN AJUSTEMENT, UNE ALÉRATION, UN SERVICE OU UN ENTRETIEN INCORRECTS PEUVENT CAUSER DES DOMMAGES MATÉRIELS. RÉFÉREZ-VOUS AU MANUEL D'INFORMATION FOURNI AVEC CET APPAREIL. POUR ASSISTANCE OU DES INFORMATIONS SUPPLÉMENTAIRES CONSULTEZ UN INSTALLATEUR QUALIFIÉ, UNE AGENDE DE

MINIMUM CLEARANCES TO COMBUSTIBLES / ESPACE MINIMUM AUX
 Minimum clearances required from combustible construction for all appliance surfaces. /



- A. Side of stove top to side wall
- A*. In an Alcove
- B. Rear of control box to back wall
- C. Flue pipe to back wall
- D. Flue pipe to side wall
- E. Rear corner of stove top to side wall
- F. Min. Floor to ceiling height (std. room)
- G. Top of stove to alcove ceiling
- H. Maximum alcove depth
- I. Minimum alcove width

- 6" (152 mm)
 - 6-3/4" (172 mm)
 - 2" (100 mm)
 - 6" (152 mm)
 - 14" (356 mm)
 - 2" (100 mm)
 - 84" (2134 mm)
 - 19" (482 mm)
 - 35" (915 mm)
 - 35" (915 mm)
- Du côté du poêle au côté du mur
 Dans l'alcôve
 Le contrôle arrière au mur arrière
 Du tuyau de cheminée au mur arrière
 Du tuyau de cheminée au mur du côté
 Du coin arrière du poêle au mur de côté
 Hauteur minimum du plancher au plafond (pièce standard)
 Du dessus du poêle au plafond de l'alcôve
 Profondeur maximum de l'alcôve
 Largeur minimum de l'alcôve

HEARTH: A non-combustible hearth pad is not required. However, the floor beneath the stove must be stable, level, and strong enough to support the stove without a tipping hazard.

Date of Manufacture / Date du Manufacturier

2000 2001 2002 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

DO NOT REMOVE THIS LABEL / NE PAS ENLEVER

Made in U.S.A. / Fait Aux États-

SERIAL LABEL



LISTINGS

The Quadra-Fire Columbia Bay Direct Vent Gas Appliance is listed to ANSI Z21.88(b)1999/CSA 2.33b-M99 Vented Fireplace Heater; CAN/CGA 2.17-M91, UL307b by Omni-Test Laboratories, Inc., Beaverton, Oregon.

NOTICES

Failure to follow all of the required installation procedures may result in property damage, bodily injury or even death. This appliance must be installed in accordance with all local codes, or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1, or the Canadian Installation Code, CAN/CGA-B149. Manufactured Home or Mobile Home installation may occur only after the home is site located and must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/INCSECS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4.

When installed, the appliance 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 the Canadian Electrical Code, CSA C22.1.

The Columbia Bay is manufactured to operate on Natural Gas (NG), it is convertible to Liquid Propane Gas (LP) when the manufacturer's conversion kit, part #842-4040 is used. All exhaust gases must be vented outside the structure of the living-area. Combustion air is drawn from outside the living-area structure.

Notify your insurance company prior to connecting gas to this fireplace.

Installation requirements diagrammed and explained in this manual are grouped into segments for ease of procedure. While these requirements must be met fully, the order of installation may be subject to the procedure best suited for your specific placement of the fireplace.

This stove should be installed only by a qualified installer. It is approved for installation in a bedroom. Bedroom installation in Canada requires that the stove be connected to a thermostat. The stove must be electrically grounded in accordance with local codes, or the latest edition of the National Electric Code. If no local codes exist, this stove should be installed following the current codes: ANSI Z223.1 in USA and CAN/CGA-B149 in Canada

SPECIFICATIONS

	Natural Gas †0-2000'	Propane †0-2000'
Input Rate on "HI" (BTU/Hr)	30,000	30,000
Input Rate on "LO" (BTU/Hr)	20,000	25,000
Maximum Output (BTU/Hr)**	24,600	25,500
Main Burner Orifice (DMS)	#36	#52
Minimum Inlet Pressure (Inches W.C.)	4.5"	11"
Maximum Inlet Pressure (Inches W.C.)	7.0"	14"
Manifold Pressure on "HI" (Inches W.C.)	3.5"	10"

**Max Venting, Blower On

†This appliance equipped for altitudes 0-2000' (0-610m) in USA; and in Canada for altitudes of 0-4500' (0-1370M). In USA for Altitudes above 2000', the vent configuration, orifice, or combination of both may need to be changed. See page 55 of this manual for information on making these changes.

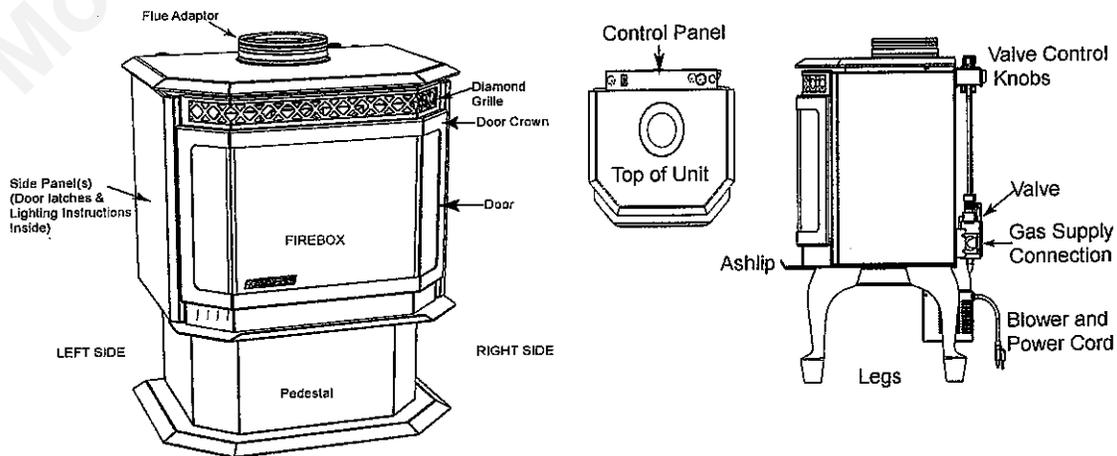
LISTINGS & SPECIFICATIONS

||||

OVERVIEW OF INSTALLATION TO OPERATION

- ___ Remove box containing the logset, embers and nuggets from rear of stove.
- ___ Remove door by opening both side panels and releasing the spring clips.
- ___ Inside firebox, remove cardboard stabilizer.
- ___ Lift blower up and off the logset aligning pins and remove from firebox.
- ___ Remove protective material from tops of front logset aligning pins.
- ___ Unbolt unit from pallet and lay appliance on its face, see page 10 for instruction.
- ___ Install blower, see page 10.
- ___ Install legs or pedestal. See page 11 for important information on this step!
- ___ Familiarize yourself with this manual and the Safety Notices on pages 4-5.
- ___ Convert unit to LP gas if applicable to your installation. See pages 12.
- ___ Finalize your installation decisions and requirements:
 - ___ Refer to Dimensions on page 8,
 - ___ Refer to Clearances to Combustibles on page 9.
 - ___ Refer to Horizontal terminations on page 19-20.
 - ___ Refer to Vertical terminations on page 23-27.
- ___ Contact your local building inspector for code requirements in your area.
- ___ Install optional brickset if purchased, see page 14.
- ___ Install logset, embers, mineral wool & lava rock. See page 14.
- ___ Install optional parts: Grilles or Door Crown, see page 15.
- ___ Run thermostat lines to TH & TPTH connectors on valve, if applicable. Page 15.
- ___ Set unit in place and install venting per your installation requirements.
- ___ Connect the gas line. See page 29.
- ___ Plug in blower. See page 10.
- ___ Leak test gas line to manual shutoff valve. See page 30.
- ___ **NOTE:** If using any accessories with gold - Clean the gold portions thoroughly with glass cleaner and non-abrasive towel **prior** to lighting unit. See page 35.
- ___ Remove door, light pilot, and smell for gas (see Lighting Instructions, page 31).
- ___ Re-attach door with latches and close side panels.
- ___ Adjust gas control knob to "On" (again, follow Lighting Instructions).
- ___ Check flames. See page 30.
- ___ Adjust shutter position, if necessary. See page 32.
- ___ Set Thermostat or turn the Valve Control to the "On" position. See page 34.
- ___ Familiarize yourself with the maintenance requirements of the stove.
See pages 35.

TERMINOLOGY OF STOVE PARTS



SAFETY NOTICES

- ! Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
 - ! Do not place clothing or other flammable items on or near the appliance at any time. Due to thermostatic control, the possibility exists for the appliance to turn on, igniting any items on or near it.
 - ! Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.
 - ! Young children should be carefully supervised when they are in the same room as the appliance.
 - ! Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.
- ✓ Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.
 - ✓ Strict adherence to the instructions in this manual must be followed. Improper installation will void the warranty and safety listing.
 - ✓ This appliance is manufactured to operate on natural gas (NG). It is field convertible to propane (LP) with the manufacturers' conversion kit. Burning incorrect fuel voids the warranty and safety listing and may cause an extreme safety hazard.
 - ✓ Contact local building officials to obtain a permit and information on installation restrictions or requirements in your locale. It is also important to notify your homeowner's insurance company of the installation of this appliance as well.
 - ✓ 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.
 - ✓ Do not store or use gasoline or other flammable liquids in the vicinity of the appliance.
 - ✓ If the flame becomes sooty, dark orange in color, or extremely tall, DO NOT operate the appliance. Contact your dealer and arrange for servicing immediately.
 - ✓ DO NOT operate the appliance if it is not operating properly in any manner. Contact your dealer for assistance.
 - ✓ Open viewing glass for servicing only.
 - ✓ Operate the appliance in accordance with the instructions contained in this manual.
 - ✓ If the main burners do not start correctly, turn the gas off at the gas control valve and contact your dealer for service.
 - ✓ Do not operate with glass cracked or broken.
 - ✓ This unit is not for use with solid fuel. DO NOT place anything inside the firebox (other than the included fiber logs, embers, mineral wool and lava rock, or the optional brickset).
 - ✓ If the logs become damaged refer to Parts and Accessories page of this manual for replacement.
 - ✓ Instruct everyone in the house how to shut off the gas to the appliance and also at the main gas shut-off valve. The main gas shut-off valve is usually located next to the gas meter or propane tank and requires a wrench to shut off.
 - ✓ Use the built-in piezo igniter to light the appliance. DO NOT use matches or any other external device.
 - ✓ DO NOT remove, replace, modify or substitute any part of the appliance unless instructions are given in this manual. All other work must be done by a trained technician.
 - ✓ Allow the appliance to cool before carrying out any maintenance or cleaning.
 - ✓ The pilot flame must contact the thermopile and thermocouple. If it does not, turn the gas control valve to "OFF" and call your Dealer.
 - ✓ DO NOT throw this manual away. Important operating and maintenance instructions are included.

WARNING!

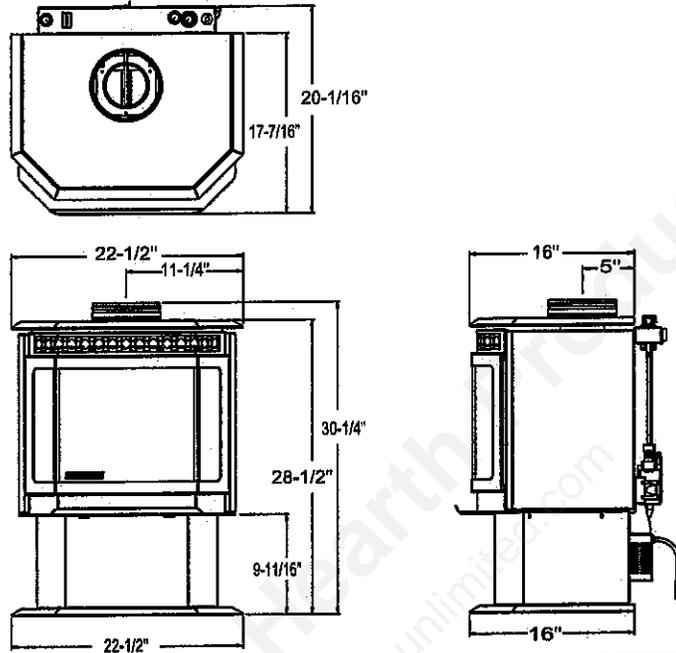
Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

CAUTION!

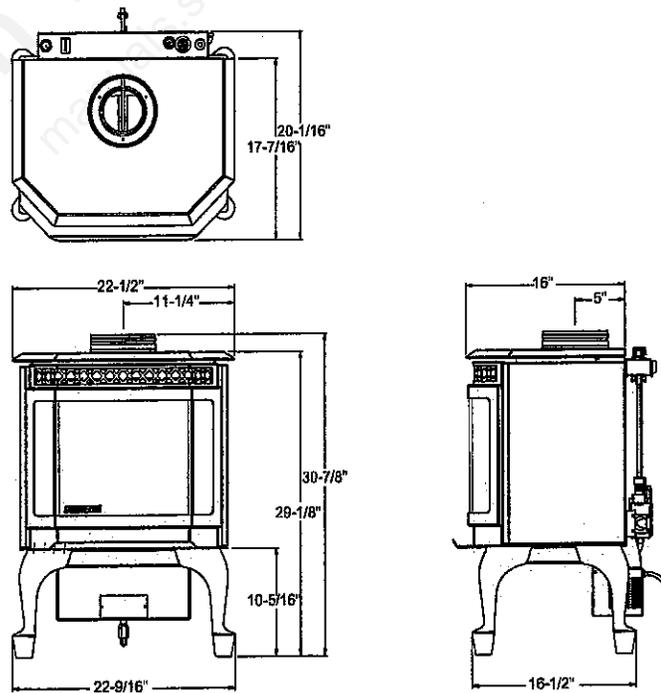
Do not operate appliance with the glass front removed, cracked or broken. Only the door certified for use with the appliance shall be used. Replacement of the glass should be done by a licensed or qualified service person. Do not strike the glass.

SAFETY

PEDESTAL MODEL DIMENSIONS



LEG MODEL DIMENSIONS

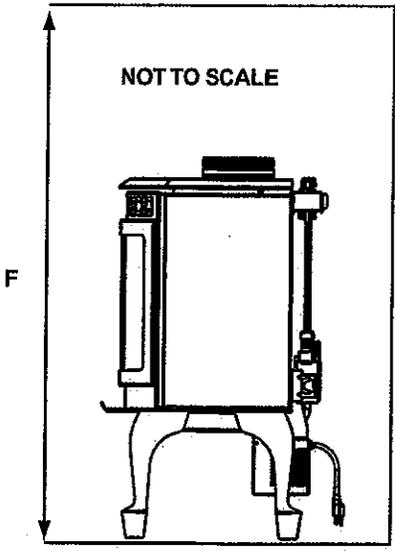
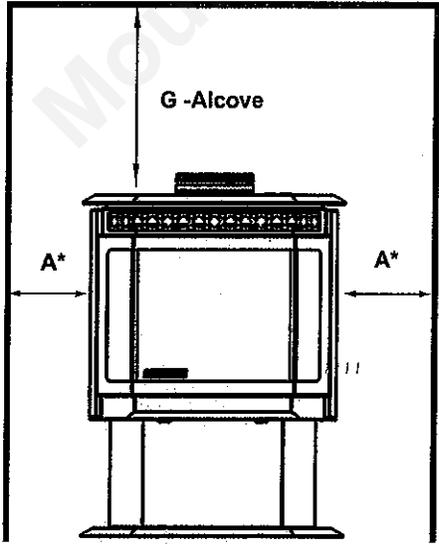
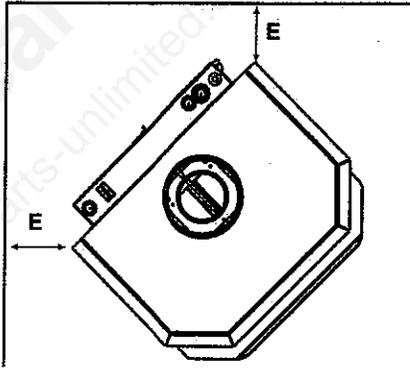
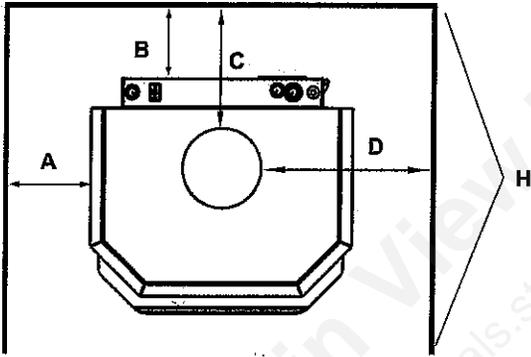


MINIMUM CLEARANCES TO COMBUSTIBLES

Minimum clearances required from combustible construction for all appliance surfaces.

A. Side of stove top to side wall.....	6"
A* In an Alcove.....	6-3/4"
B. Rear of control box to back wall.....	2"
C. Flue pipe to back wall.....	6"
D. Flue pipe to side wall.....	14"
E. Rear corner of stove top to side wall.....	2"
F. Min. floor to ceiling height (std. room).....	84"
G. Top of stove to alcove ceiling.....	19"
H. Maximum alcove depth.....	36"
I. Minimum alcove width.....	36"

HEARTH: A non-combustible hearth pad is not required. However, the floor beneath the stove must be stable, level, and strong enough to support the stove without a tipping hazard. Wood flooring, ceramic tile, brick hearths, or high pressure laminate flooring applied directly over the sub-flooring material meet this requirement. If the appliance is installed over carpet or combustible tile (vinyl tile), a metal or wood panel extending the full width and depth of the appliance must be installed.



CLEARANCES

BLOWER INSTALLATION

REFER TO "OVERVIEW OF INSTALLATION TO OPERATION" ON PAGE 6 FOR IMPORTANT NOTES ON UNPACKING THE UNIT.

1. Remove blower from inside of firebox.
2. Carefully tip stove onto either its pallet, a couple of 4x4's, thick blanketing material, styrofoam strips or some other support beneath the ashlip and the top edge, taking care that the face support brackets are not damaged. See Fig. A.

NOTE: The baffle, located at the top of the firebox, may shift position when stove is tipped onto its face. Readjust baffle position following the leg or pedestal - installation.

3. Remove the four (4) screws from the intake plenum at the rear of stove. See circled area in Figure B below.
4. Set blower in place, with power cord facing out.
5. Install blower using the four (4) screws previously removed.
6. Take care not to pinch or crimp any wire between the appliance and blower housing, fit wires into the channel.
7. Complete the electrical connection between stove and blower.

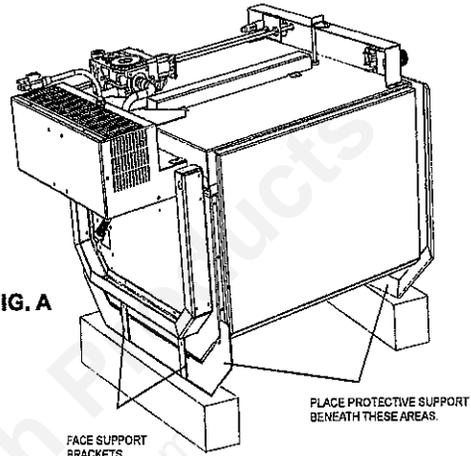


FIG. A

Continue with leg or pedestal installation on following page.

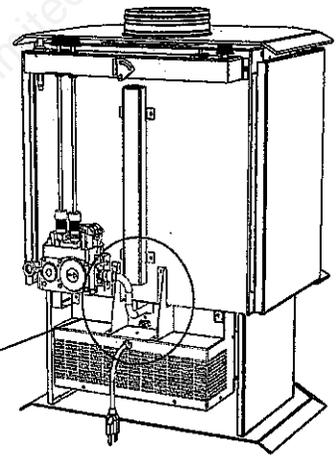
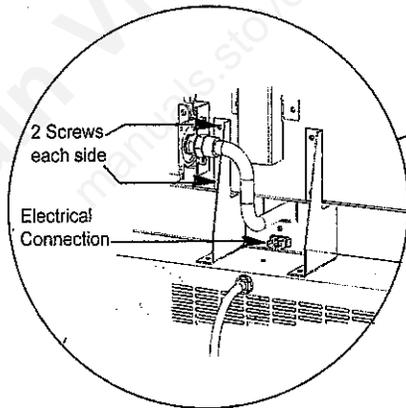


FIG. B



BLOWER POWER CORD

The blower cord is located at the rear of the stove, and needs to be routed to a three-prong outlet with correct polarity. When installed this appliance 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 the Canadian Electrical Code, CSA C22.1.

WARNING!

Do not cut off the grounding terminal under any circumstances.
Do not route the power cord under the body of the stove.

LEG & PEDESTAL INSTALLATION

Stove must be face down and properly supported as shown in Fig. D below.

LEG INSTALL:

1. Attach legs to base using bolts and washers supplied with leg kit. See Fig. C below.

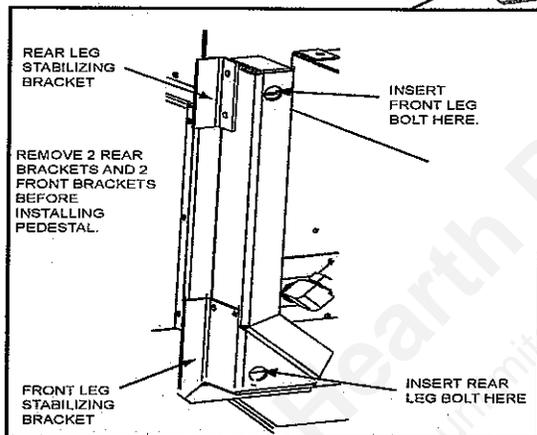
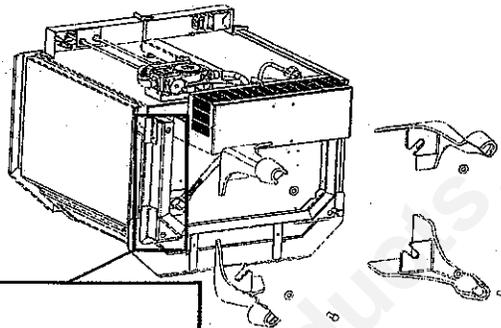
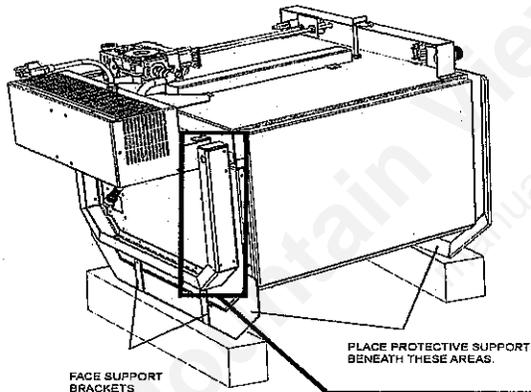


FIG. C



FACE SUPPORT BRACKETS

PLACE PROTECTIVE SUPPORT BENEATH THESE AREAS.

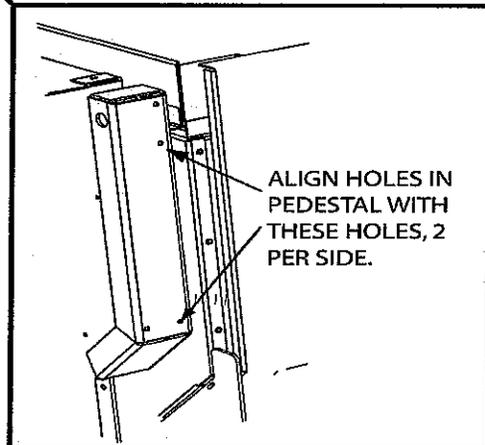
FIG. D

PEDESTAL INSTALL:

1. Remove leg brackets from each corner (4 in all, see Fig. C).
2. Slide pedestal onto base and attach with four (4) screws, See Fig. D.

FINISHING:

1. Set stove on its legs or pedestal.
2. Ensure that the baffle, located at the top of firebox, is properly seated following the base installation.



LEG / PEDESTAL INSTALLATION



LP CONVERSION

Part #842-4040

CAUTION: DISCONNECT ANY ELECTRICAL CORDS AND TURN OFF GAS SUPPLY TO UNIT BEFORE PROCEEDING.

WARNING!

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

Replace Burner & Pilot Orifices

NOTE: If converting stove at a later date, remove logset, embers and lava rock before continuing with these instructions.

1. Metal refractory brick: Remove 4 screws (2 per side) beneath the side panels at front of stove. See Fig. 1.

Holding both sides of metal refractory brick piece, pull sides towards each other and rotate the piece out of firebox. Fig. 2.

Ceramic Brickset: Remove 2 screws on retainer brackets (1 per side), located as shown in Fig. 1. Remove side bricks and then rear bricks. Handle carefully.

2. Remove log shelf: Loosen and remove 2 screws on top of the front logshelf. See Fig. 3. Hold the log shelf at a diagonal to remove it from firebox. Remove rear logshelf in a similar diagonal fashion. See Fig. 4.
3. Remove burner pan: Hold on to the shutter rod inside right hand side panel, (see Fig. 5), lift and slide burner pan to the left and remove from firebox.
4. Replace burner orifice: Move shutter off of the orifice for clear view of orifice. Remove orifice with a 3/8" wrench and replace with correct burner orifice (#52 LP) (#36 NG). See Fig. 6.

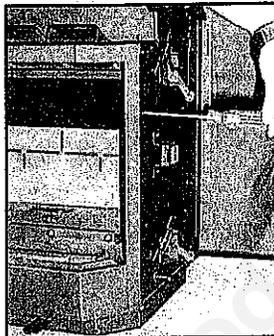


FIG. 1

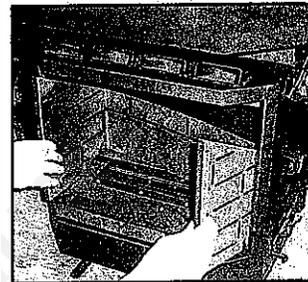


FIG. 2

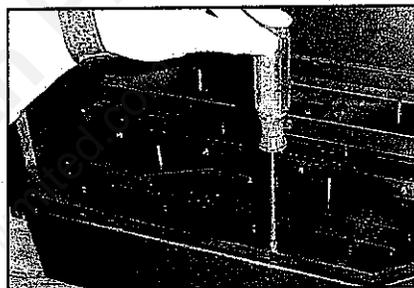


FIG. 3

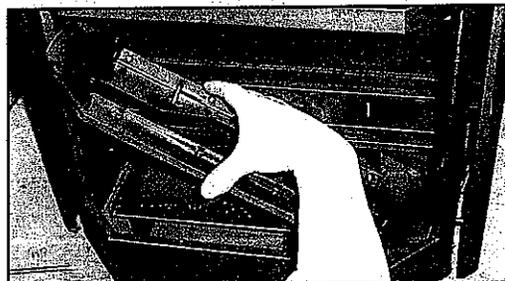
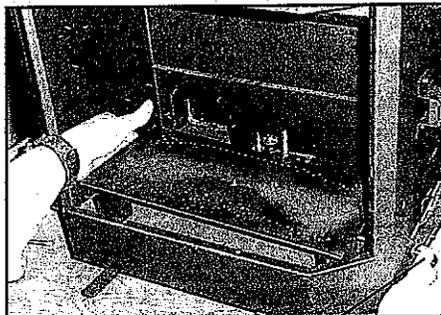


FIG. 4

FIG. 6



SHUTTER ROD

FIG. 5

LP CONVERSION

LP CONVERSION, CONT.

5. **Replace pilot orifice:** Lift pilot hood and remove. See Fig. 7. Remove existing pilot orifice with a 5/32" allen wrench. See Fig. 8.

Replace pilot orifice with correct size (#35 DMS for LP) (#51 DMS for NG).

Replace pilot hood. Ensure that the notches are aligned and snap hood into place.

Valve Regulator Replacement

1. Turn control knob to the OFF position, ensure that gas supply to the valve has been turned off.
2. Using a Torx TH20, or slotted screwdriver, remove the three pressure regulator mounting screws (A), pressure regulator tower (B), and diaphragm (C). (You may wish to retain these items for converting back to original gas if necessary.)
3. Ensure that the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) supplied with the kit. Tighten screws securely. (Reference torque = 25 in/lb)
4. Install the enclosed identification label (F) to the valve body where it can be seen.
5. Replace shutter over burner orifice, reinstall burner pan, front log shelf, rear log shelf and brick.

FIG. 7

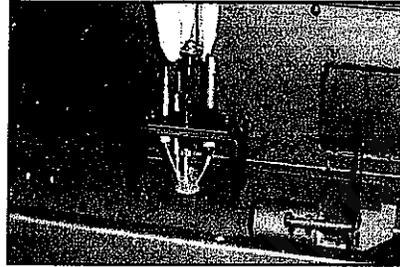
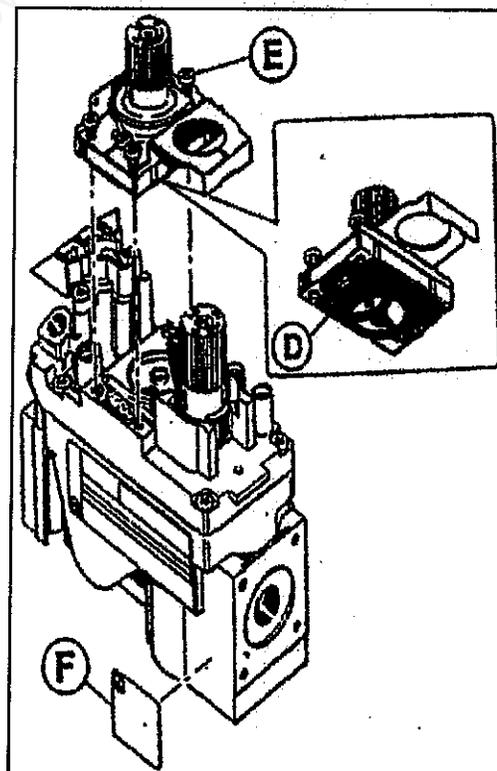
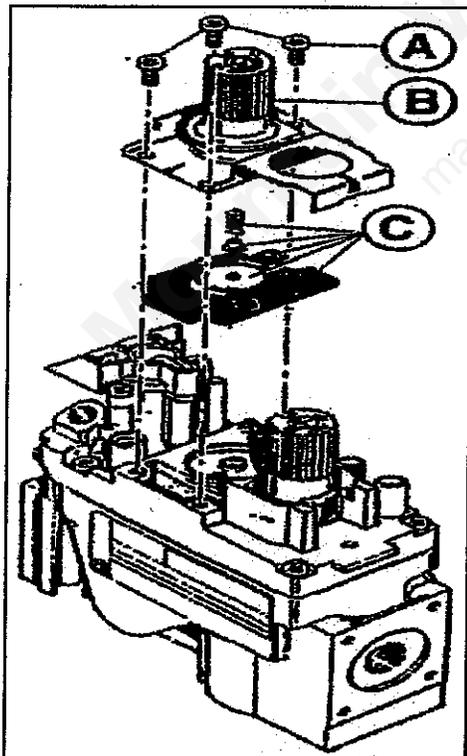
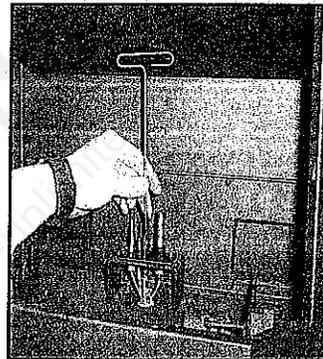


FIG. 8



LP CONVERSION

**OPTIONAL CERAMIC BRICKSET
INSTALLATION Part #841-0810**

CAUTION: Ceramic brick is fragile.

REMOVE METAL REFRACTORY BRICK:

1. Open side panels and remove 4 screws, 2 each side. See Fig. 1.
2. Hold both sides of metal brick piece. Pull sides together slightly and rotate out of firebox. See Fig. 2.

INSTALL NEW BRICKSET:

3. Install rear panel, gently wedging it between support shelf and baffle base at rear of firebox. See Fig. 3.
4. Set each side panel in place. See Fig. 4.
5. Install brick brackets, 1 per side (enclosed with brickset kit), using the screw placement shown in Fig. 1. Two screws per side.

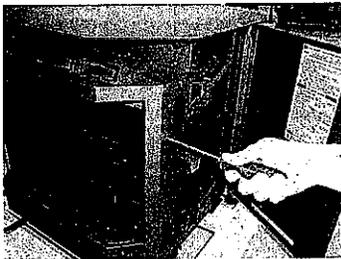


FIG. 1

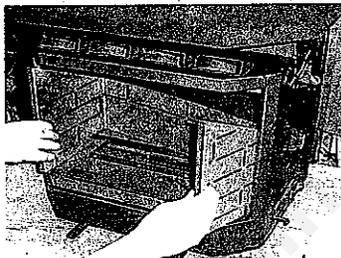


FIG. 2

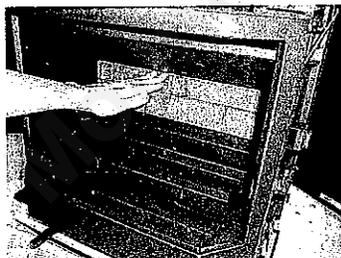


FIG. 3

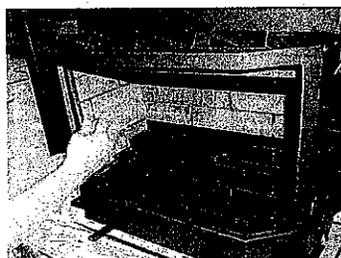


FIG. 4

LOGSET INSTALLATION

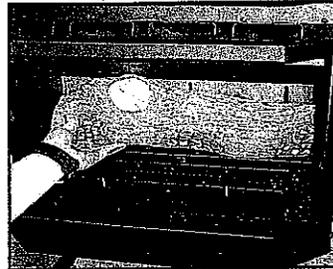


FIG. 1

Rotate rear log backwards, align and lower onto pins on rear log shelf.

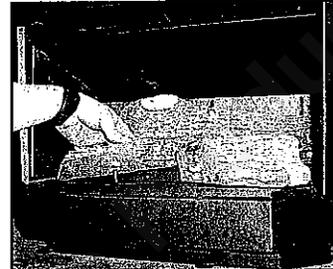


FIG. 2

Set right and left front logs onto aligning pins on front log shelf.

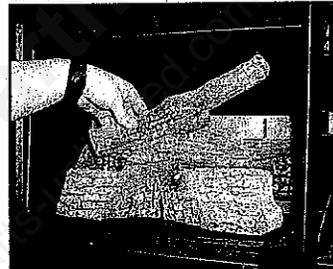


FIG. 3

Align top twig onto pin in rear log and set on landing area on left front log. See Fig. 6 also.

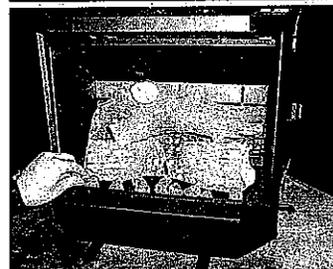


FIG. 4

Evenly distribute 10-14 embers in front of front logs.

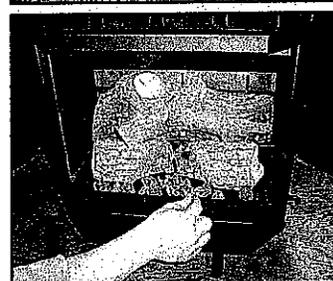


FIG. 5

Apply pinches of mineral wool in spaces between embers.

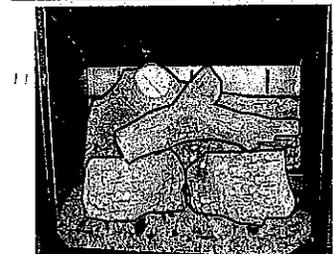


FIG. 6

Apply an even layer of lava rock in the channel to left, front and right of logs.



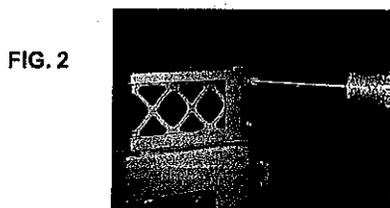
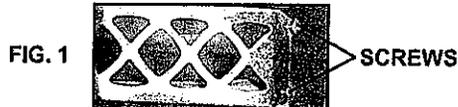
GRILLE INSTALLATION

Diamond Grille: Black, Part #841-0790 /

Gold, Part #841-0780

Rod Grille: Gold only, Part #841-0800

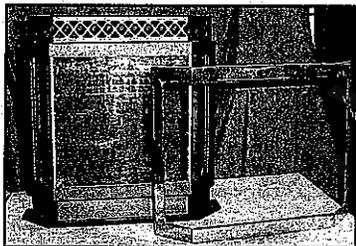
1. Install 2 screws into holes on each side of grille. Fig. 1
2. Slide screws on grille into openings on door face from the back side.
3. Ensure that grille is aligned evenly left to right. Tighten screws. Fig. 2



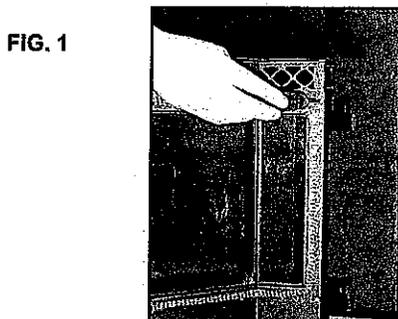
FRONT OF DOOR SHOWN

DOOR CROWN INSTALLATION

Part #841-0770



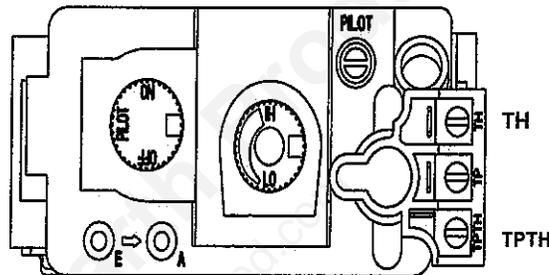
1. Remove door from stove.
2. Uninstall existing crown by removing four (4) screws on the back side of face (see Fig. 1 below), and pull crown off door.
3. Set replacement crown in place and re-insert and tighten screws.
4. **IMPORTANT! PREVENT PERMANENT STAINING!** Use a soft cloth and a window cleaning solution to clean all fingerprint oils from the gold surface of crown **PRIOR** to lighting the stove.



THERMOSTAT INSTALLATION

If desired, a thermostat may be installed to regulate the Quadra-Fire Columbia Bay. It is important to use a thermostat designed for millivolt operation. Do not connect this stove to a thermostat serving any other appliance. Bedroom installation in Canada requires this stove to be connected to a thermostat.

Connect the thermostat wires to the outside valve terminals labeled "TH" and "TPTH". Turn off the manual switch, located on the control panel.



REMOTE CONTROL

A remote control or a wall switch may be wired to the thermostat terminals. Contact your Quadra-Fire dealer or service person for details.

OPTIONAL THERMOSTATS

Manual Thermostat

Part #812-2880

Anticipator Setting 1.2

Programmable Thermostat

Part #811-0520

RECOMMENDED MAXIMUM LEAD LENGTH (TWO WIRE) WHEN USING WALL THERMOSTAT/SWITCH

Wire Size	Maximum Length
16 gauge	65 feet
18 gauge	40 feet
20 gauge	25 feet
22 gauge	18 feet

When mounting a thermostat on a wall, be sure to follow your thermostat installation instructions carefully. Ensure the thermostat is mounted level for accurate readings. The thermostat should be mounted on an inside wall and not in direct line with the stove convection air. If the thermostat is located too close to the stove, you may need to set the temperature setting slightly higher to maintain the desired temperature in your home.

GENERAL VENTING INSTRUCTIONS

PLEASE NOTE: In order to comply with applicable codes and product warranties, only Simpson Dura-Vent, venting components may be used. **DO NOT USE FIELD-FABRICATED VENTING COMPONENTS.** The Quadra-Fire Columbia Bay is approved to be vented either horizontally, through the side wall, or vertically, through the roof. You may vent through a Class A or masonry chimney if a Simpson Dura-Vent adapter is used (**for USA installations only**). Only Simpson Dura-Vent components labeled and listed on pages 17 may be used.

This appliance is a direct vent heater. All combustion air must come directly from the outside of the building. The vent pipe for this unit consists of an inner and an outer pipe. The inner pipe carries the stove exhaust out of the system, and the outer pipe brings fresh combustion air into the stove.

- A wall thimble is optional when the venting passes through a wall.
- A support box or firestop is required when the venting passes through a ceiling.
- Roof flashing and a storm collar are required when venting passes through the roof. Follow instructions provided with the venting for installation of these items.

IMPORTANT: Read all these instructions carefully before starting the installation. Failure to follow instructions may create a fire or other safety hazard, and will void the warranty. Be sure to follow these installation instructions for venting and clearance to combustible requirements, which may vary from one installation to another. **Do not extend the venting system in excess of the distance prescribed in these manufacturer's installation instructions. This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.**

INSTALLATION PRECAUTIONS

The Quadra-Fire Columbia Bay is an engineered product that has been designed and tested. The warranty will be voided, and serious fire, health, or other safety hazards may result from any of the following actions: Installation of any damaged venting component, unauthorized modification of the venting system, installation of any component part not approved by Aladdin Hearth Products, or installation other than as instructed by these instructions. Consult your local building codes before beginning this installation:

WARNING: Always maintain the required clearances (air space) to nearby combustibles to avoid creating a fire hazard. Do not fill air space with insulation. Minimum clearance between vent pipes and combustible surfaces is 1" (25mm). Be sure to check the horizontal vent termination clearance requirements from decks, windows, soffits, gas regulators, air supply inlets and public walkways, as specified on page 32 of these installation instructions, the vertical termination requirements on page 41, and local building codes.

The gas heater and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. This direct vent gas fireplace must use its own separate vent system. Common vent systems are prohibited.

SAFETY PRECAUTIONS FOR THE INSTALLER

Wear gloves and safety glasses for protection when installing this stove. Exercise extreme caution when using ladders or on rooftops around power lines. Be aware of electrical wiring locations in walls and ceilings.

INSTALLATION METHODS & NOTES

Four types of direct vent system installations are approved for use with the Columbia Bay.

1. Horizontal Termination (Fig. 1, page 18)
2. Vertical Termination (Fig. 2, page 19)
3. Into a Class A Metal Chimney (Fig. 3, page 18) **USA installations only**
4. Into a Masonry Chimney (Fig. 4, page 18) **USA installations only**

Do not connect to a chimney serving a separate solid-fuel burning appliance.

In each of these installation methods, it is very important to maintain a balance between the combustion air intake and the flue gas exhaust venting system.

Note: Certain limitations as to vent and vertical termination configuration apply, and must be strictly adhered to.

When planning your installation, it is necessary to select the proper length of vent pipe for your particular requirements.

1. For installations with **any horizontal vent run or horizontal termination**, refer to the Vent Graph on page 20. This graph will show the relationship between vertical and horizontal side wall venting, and help you to determine the amount of vertical rise necessary for "vertical-to-horizontal" type installations. **NOTE:** Be sure to take into consideration the wall thickness when calculating your venting needs.
2. To determine the length of pipe required for **vertical installations**, measure the distance from the stove flue outlet to the ceiling, the ceiling thickness, the vertical rise in an attic or second story, and allow for sufficient vent height above the roofline. Refer to the vertical vent termination tables on page 24 for this information. For two-story applications, fire stops are required at each floor level. If an offset is needed in the attic, additional pipe and elbows will be required. When determining the position of the stove, be sure to adhere to minimum clearance to combustibles to the appliance itself. (See page 9, Minimum Clearances to Combustibles.)
3. When installing this appliance into an **existing masonry chimney**, it is important to carefully measure the length of flex needed to reach from the appliance outlet to the termination cap. If the flex length is too short, a flex coupler will be needed to attach an additional length of flex liner to make up the difference. If the flex length is too long, the liner could sag below the appliance outlet, which could result in an airflow restriction causing flow reversal or flame lift.

SIMPSON DURA-VENT PARTS LIST

Simpson Dura-Vent offers a complete line of component parts for installation in both horizontal and vertical applications. Many items are offered in decorative black, as well as a galvanized finish. The galvanized pipe and fittings are used for concealed locations such as attics, or spaces where corrosion is a factor, such as above the roofline. Decorative brass and chrome trim kits are available for both wall thimbles and ceiling support boxes. Snorkel terminations are available for applications which may require a vertical rise on the building exterior. The following components have been approved for use with the Quadra-Fire Columbia Bay.

PART # DESCRIPTION:

Termination Caps & Snorkles:

991	High Wind Vertical Termination Cap
986	High Wind Horizontal Termination Cap
983	Vertical Termination
981	Snorkel Termination (36")
982	Snorkel Termination (14")
950	Vinyl Siding Standoff

Flashing:

941	Cathedral Ceiling Support Box
943	Flashing, 0/12 to 6/12 Roof Pitch
943S	Flashing, 7/12 to 12/12 Roof Pitch
943F	Flashing, Flat Roof

Support Boxes/Thimbles:

940	Round Ceiling Support/Wall Thimble Cover
941	Cathedral Ceiling Support Box

Pipe:

908	6" Pipe Length, Galv.
908B	6" Pipe Length, Black
907	9" Pipe Length, Galv.
907B	9" Pipe Length, Black
906	12" Pipe Length, Galv.
906B	12" Pipe Length, Black
904	24" Pipe Length, Galv.
904B	24" Pipe Length, Black
903	36" Pipe Length, Galv.
903B	36" Pipe Length, Black
902	48" Pipe Length, Galv.
902B	48" Pipe Length, Black
911	11" -14 5/8" Pipe, Adj. Glv.
911B	11" -14 5/8" Pipe, Adj. Blk.
912	12" - 17" Pipe, Adj. Glv.
912B	12" - 17" Pipe, Adj. Blk.
917	17" -24" Pipe, Adj. Glv.
917B	17" -24" Pipe, Adj. Blk.
945	45° Elbow, Galv.
945B	45° Elbow, Black
990	90° Elbow, Galv.
990B	90° Elbow, Black

Misc.

953	Storm Collar
963	Ceiling Firestop
988	Wall Strap
9546	Attic Insulation Shield
942	Wall Thimble
	Cathedral Ceiling Collar

SDV KITS

970A Standard Termination Kit includes 1 each of:
990B, 940, & 985 See Note #1 below.

971HW Standard Termination Kit includes 1 each of:
990B, 940, 985, 904B, 911B

973 Vertical Termination Kit includes 1 each of:
943, 953, 991 (support box NOT included)

Note #1: Straight pipe lengths are needed to complete installation, the black 45° elbow is NOT included in kit.

The following Highwind Termination Cap may be obtained from your Dealer:

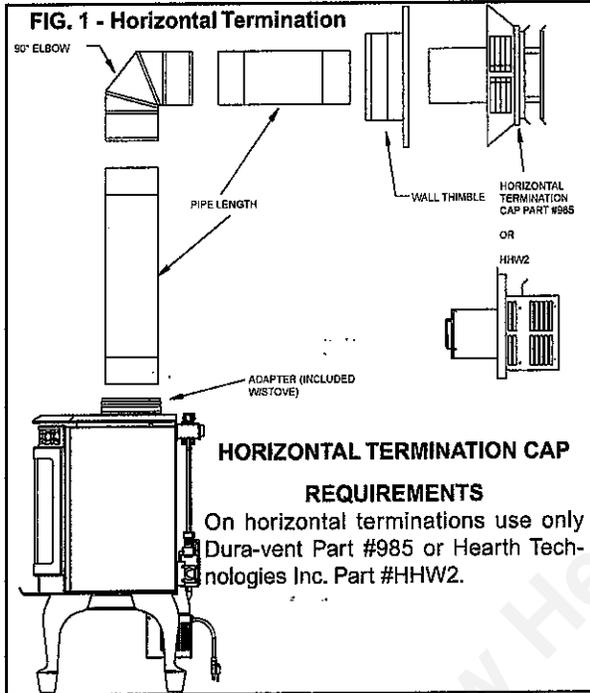
#HHW2 Hearth Technologies Inc., high wind termination cap.

SIMPSON DURA-VENT PARTS LIST

INSTALLATION METHODS

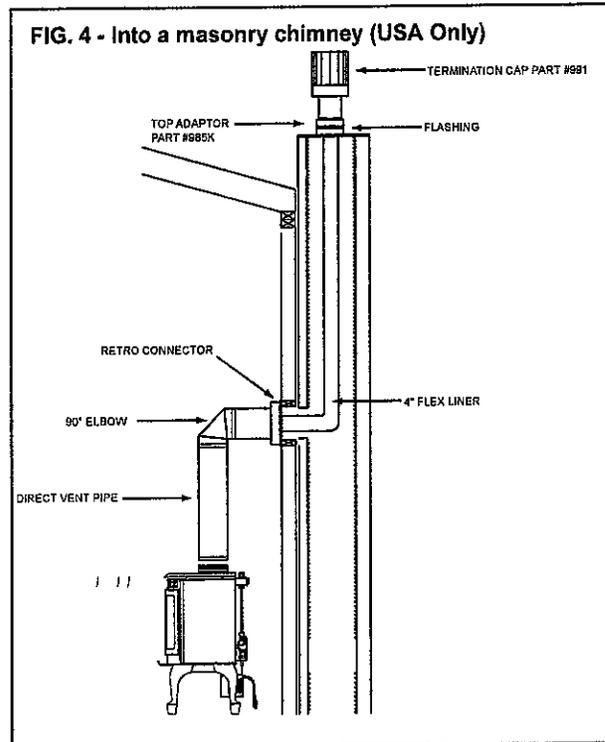
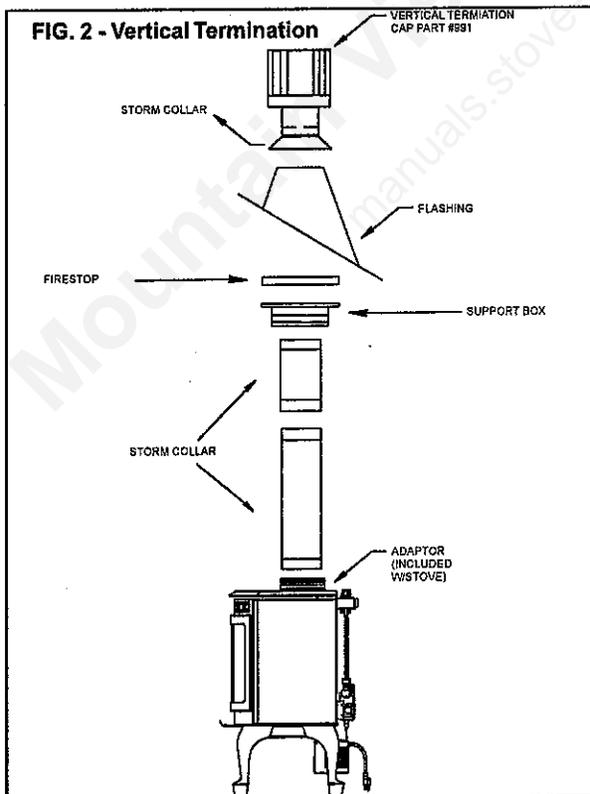
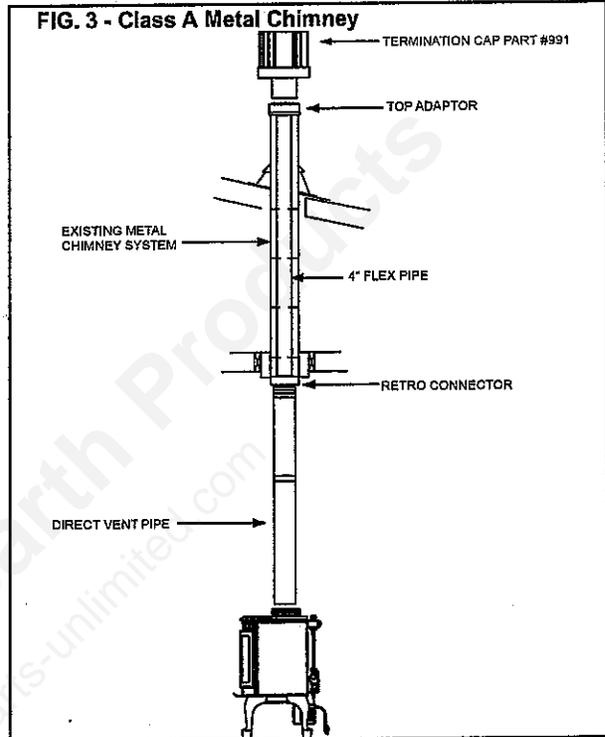
HORIZONTAL TERMINATION - FIG 1

Refer to pages 16-20



VERTICAL TERMINATION - FIGS. 2-4

Refer to pages 16-17 & 23-28



HORIZONTAL TERMINATION REQUIREMENTS

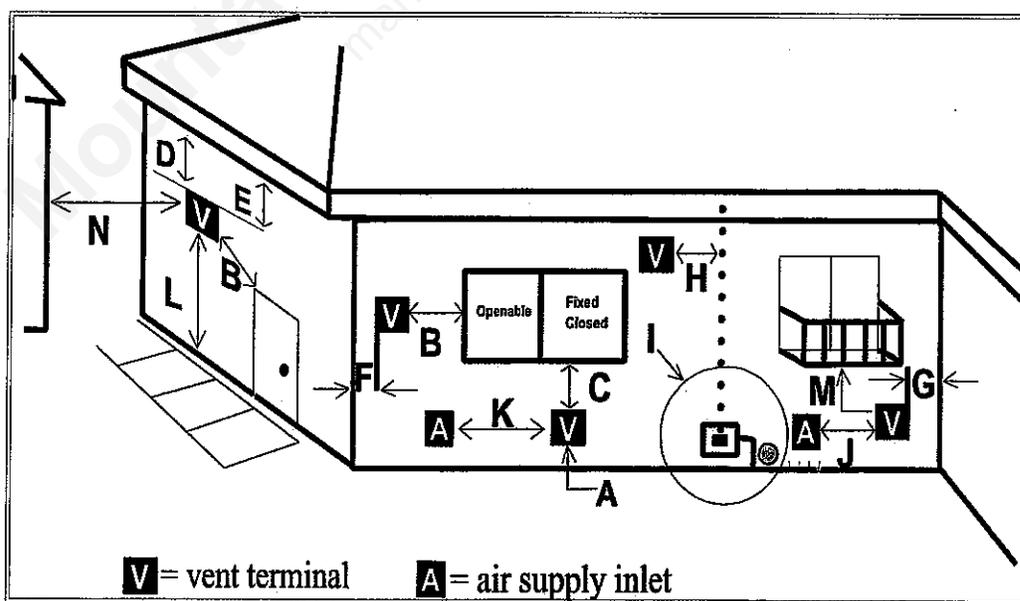
- A. *12" (30cm) minimum: Clearance above grade, veranda, porch, deck, or balcony.
 - B. *12" (30cm) minimum: Clearance to window or door that may be opened.
 - C. 12" (30cm) minimum: Clearance to permanently closed window (recommended to prevent condensation on window).
 - D. 18" (46cm) minimum: Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2' (60cm) from the centerline of the terminal.
 - E. 12" (30cm) minimum: Clearance to unventilated soffit.
 - F. 6" (15cm): Clearance to outside corner.
 - G. 9" (23cm): Clearance to inside corner.
- *Not to be installed above a meter/regulator (gas or electrical) assembly within 3' (90cm) horizontally from the centerline of the meter/regulator.**
- H. *6' (1.8m) minimum: Clearance to service regulator vent outlet.
 - I. *3' (91cm) USA/6' (183cm) Canada minimum: Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance.
 - J. *6' (1.8m) minimum: Clearance to a mechanical air supply air inlet.
 - K. *+7' (2.1m) minimum: Clearance above paved sidewalk or a paved driveway located on public property.
 - L. *#12" (30 cm) minimum: Clearance under veranda, porch, deck, or balcony.
 - M. 6" (15 cm) minimum: Clearance to adjacent building or deck.
 - N. 6" (15 cm) minimum: Clearance to nearby building

+A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single-family dwellings and serves both dwellings.*

#Only permitted if veranda, porch, deck, or balcony, is fully open on a minimum of two sides beneath the floor.*

*As specified in *CGA B149 Installation Codes*

Note: Local Codes or regulations may require different clearances.



HORIZONTAL TERMINATION VENT GRAPH

Use the Vent Graph to determine your maximum allowable horizontal run.

1. Measure the distance from the top of stove to the center of the 90° elbow. On the graph below, draw a horizontal line from that measurement on the vertical axis across until it intersects with the slanted line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. The point at which this line meets the bottom line of the graph is the maximum length of the horizontal run.

Ex. 1 (Below): If the vertical dimension from the top of the stove to the center of the 90° elbow is 7' (2.13m), the horizontal run to the outer wall flange must not exceed 9' 9" (2.97m).

Ex. 2 (Below): If the vertical dimension from the top of the stove is 21' (6.4m), the horizontal run to the outer wall flange must not exceed 7' 3" (2.21m).

4. Each 90° elbow is equivalent to 3" of vent pipe and each 45° elbow is equivalent to 1' of vent pipe, and must be subtracted from vent pipe run. A single vertical to horizontal 90° elbow is already calculated into the allowable 15' run. Each additional 90° elbow reduces the maximum horizontal distance by 3".

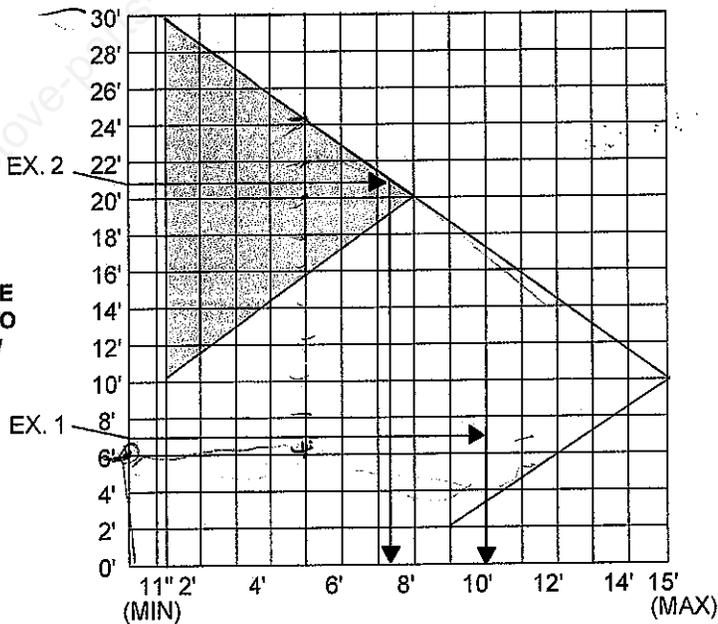
Example:

The use of [3] elbows would reduce the allowable horizontal run to 9' (3 - 1 = 2 elbows x 3" = 6"; 15' maximum - 6" = 9' maximum).

- Notes:**
1. The maximum horizontal vent run is 15' (4.57m) when the vertical vent rise is 10' (3.05m).
 2. The minimum horizontal vent run is 12" (305mm).
 3. Minimum wall thickness is 4" (102mm). Maximum wall thickness is 20" (508mm).
 4. Horizontal sections require a 1/4" (6mm) rise for every 12" (305mm) of horizontal travel.
 5. Exterior Vent Diameter = 6 5/8" (177mm); Inner Vent Diameter = 4" (101mm)
 6. Horizontal sections require noncombustible support every 3' (914mm), e.g. plumbing tape.

NOTE: IF YOUR INSTALLATION FALLS WITHIN THE GREY-SHADED AREA ON GRAPH, SEE INFORMATION ON VERTICAL DAMPER ADJUSTMENT ON PAGE 32

VERTICAL DISTANCE FROM APPLIANCE TO THE 90° ELBOW



TOTAL HORIZONTAL RUN TO OUTSIDE OF EXTERIOR WALL (INCLUDING ELBOWS)

HORIZONTAL INSTALLATION, CONT.

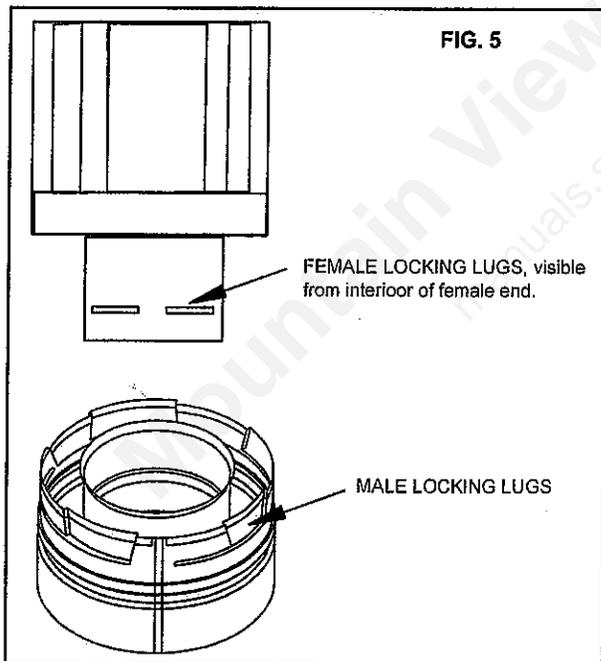
Step 1.

Determine the desired location of the stove. Check to ensure that wall studs or roof rafters are not in the way when the venting system is attached. If this is the case, you may want to adjust the location of the stove.

Step 2.

Simpson Dura-Vent pipe is designed with special twist-lock connections. To connect the venting system to the stove flue outlet, a twist-lock adapter is built into the stove at the factory. Remember to include wall thickness in minimum clearances when figuring the measurements for your installation needs.

Note: Twist-lock procedure: Four indentations, located on the female ends of pipes and fittings, are designed to slide straight onto the male ends of adjacent pipes and fittings by orienting the four pipe indentations so they match and slide into the four entry slots on the male ends, see Fig. 5 below. Push the pipe sections completely together, then twist-lock one section clockwise approximately one-quarter turn, until the two sections are fully locked. The female locking lugs will not be visible from the outside, on the pipe or fittings. They may be located by examining the inside of the female ends.

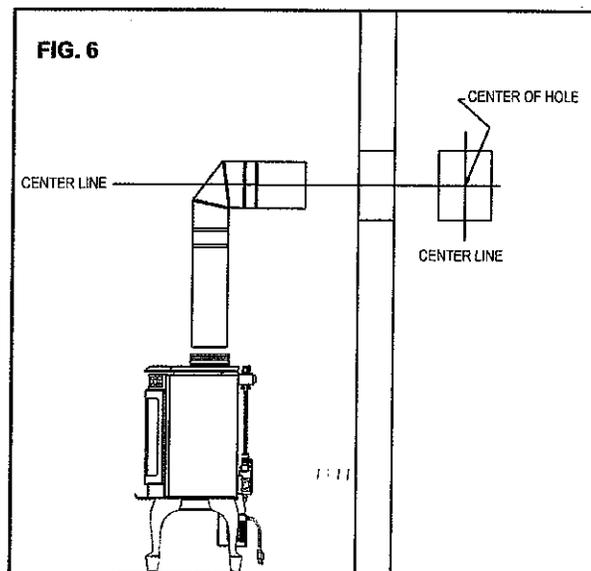


Step 3.

With the adapter and pipe attached to the stove, slide the stove into its correct location, maintaining minimum clearance to combustibles. Mark the wall for a 10" x 10" (254mm x 254mm) square hole. The center of the square hole should line up with the centerline of the horizontal pipe, as shown in Fig. 6. Cut and frame the hole in the exterior wall where the vent will be terminated. If the wall being penetrated is constructed of noncombustible material, i.e. masonry block or concrete, a 7" (178mm) diameter hole is acceptable.

NOTE:

- (1) Installation requires a minimum of 1' (305mm) horizontal run of vent with a 1/4" (6mm) rise run towards the termination. Each 1' (305mm) of horizontal venting must include a 1/4" rise. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a fire.
- (2) The location of the horizontal vent termination on an exterior wall must meet all local and national building codes, and must not be easily blocked or obstructed, see page 19.
- (3) For installations requiring a vertical rise on the exterior of the building, 14" (356mm) and 36" (914mm) tall snorkel terminations are available. Follow the same installation procedures as used for standard horizontal terminations. If the snorkel termination must be installed below grade (i.e. basement application), proper drainage must be provided to prevent water from entering the snorkel termination. Do not backfill around snorkel termination.



VENTING INSTRUCTIONS

HORIZONTAL INSTALLATION (CONT.)

Step 4.

Position the horizontal vent termination in the center of the 10" (254mm) square hole, run a bead of non-hardening mastic around its outside edges, so as to make a seal between it and the wall, attach termination cap to the exterior wall with the four wood screws provided. The arrow on the vent cap should be pointing up (Figure 7). Ensure that proper clearances to combustible materials are maintained.

NOTE:

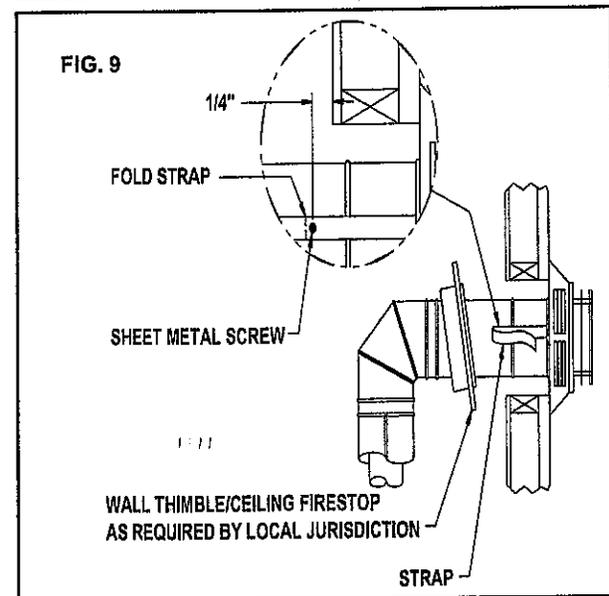
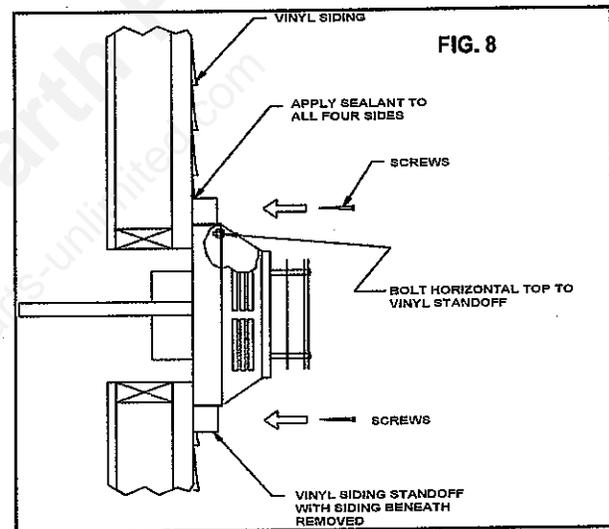
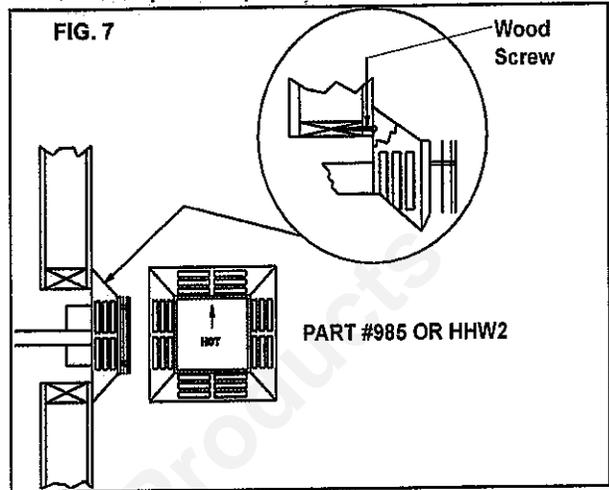
- (1) The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.
- (2) If you are using Simpson Dura-vent termination cap #985 on a building with vinyl siding, a vinyl siding standoff (Simpson Dura-vent Part #950), should be installed between the vent cap and the exterior wall (Figure 8). Attach the vinyl siding standoff to the horizontal vent termination. The vinyl siding standoff prevents excessive heat from possibly melting the vinyl siding material. Vent terminal shall not be recessed into a wall or siding. **Remove siding from beneath area of standoff.**

Note:

The attachment from the vent pipe to the vent cap must be siliconed. Venting terminals shall not be recessed into a wall or siding.

Step 5.

Slide the stove and vent assembly towards the wall, carefully inserting the vent pipe into the vent cap assembly. It is important that the vent pipe extend into the vent cap a sufficient distance so as to result in a minimum pipe overlap of 1/4" (32mm). Secure the connection between the vent pipe and the vent cap by attaching the two sheet metal strips extending from the vent cap assembly into the outer wall of the vent pipe. Use the two sheet metal screws provided to connect the strips to the pipe section. (Figure 9).



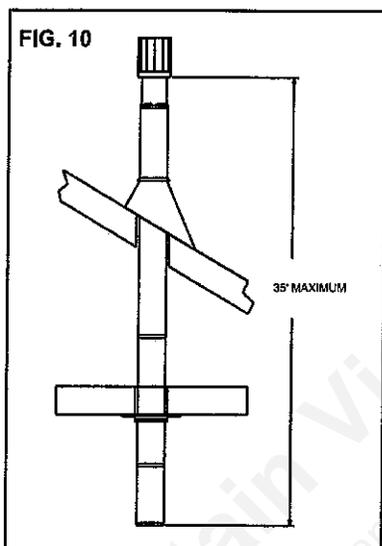
VERTICAL TERMINATION INSTALLATION

USING GS SERIES PIPE

Step 1.

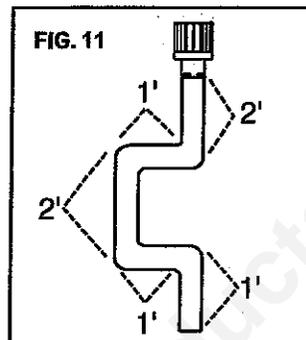
Check the installation instructions for required 1" clearances (air space) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, or other nearby combustible surfaces. See page 25, Fig. 16. Do not pack air space with insulation. Check the instructions below for maximum vertical rise of the venting system, and any maximum horizontal offset limitations. All offsets must fall within the set parameters of the vent graph located on page 20.

NOTE: Maximum vertical rise allowable is 35' (10.7m) (Figure 10).



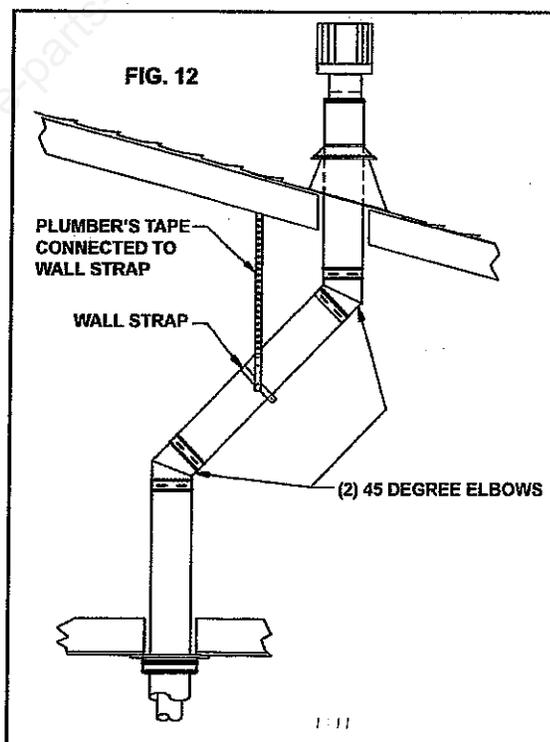
NOTE: Maximum number of 45° elbows permitted for a vertical installation is eight, provided their installation does not decrease maximum vertical rise as specified by Vent Graph on page

NOTE: Maximum number of 90° elbows permitted for a vertical installation is four, provided the termination falls within the shaded area shown in vent graph on page 20. See also Figure 11, within the 4, 90's configuration, the maximum allowable pipe length on the horizontal runs is 1', the minimum allowable pipe length on vertical runs is 1'. **ADDITIONAL RESTRICTION:** This installation **may not** have two horizontal sections connected by 90° elbows.



Step 2.

Set the gas stove in its desired location. Drop a plumb bob down from the ceiling to the position of the stove flue exit, and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling, and mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the stove, or to offset, as shown in Figure 12, to avoid cutting loadbearing members.



VENTING INSTRUCTIONS

VERTICAL TERMINATION INSTALLATION, cont.

Step 3.

To install the round support box/wall thimble in a flat ceiling, cut a 10" (254mm) square hole in the ceiling, centered on the hole drilled in Step 2. Frame the hole as shown in Figure 13.

Step 4.

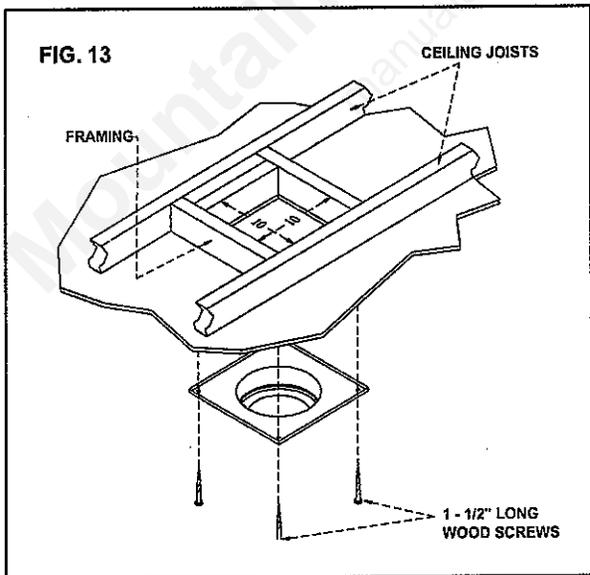
Assemble the desired lengths of GS pipe and elbows necessary to reach from the stove up through the round support box. Ensure that all pipe and elbow connections are in their fully twist-locked position. Be sure to seal the outer pipe with appropriate sealant (high temperature silicone).

Step 5.

Cut a hole in the roof centered on the small drill hole placed in the roof in Step 2. The hole should be of sufficient size to meet the minimum requirements for clearance to combustibles, as specified. Continue to assemble lengths of pipe and elbows necessary to reach from the ceiling support box up through the roof line. Galvanized pipe and elbows may be utilized in the attic, as well as above the roofline. The galvanized finish is desirable above the roofline, due to its higher corrosion resistance.

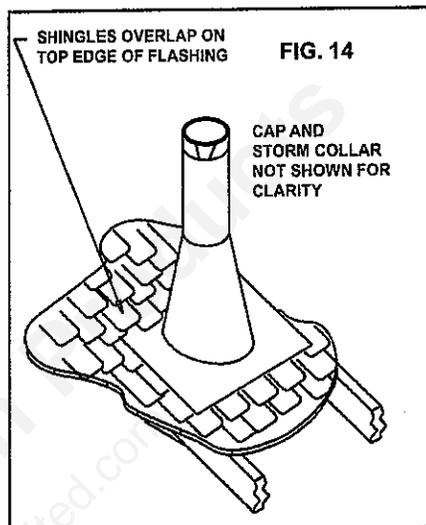
NOTE:

- (1) If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3' (91.4cm) to avoid excessive stress on the elbows, and possible separation. Wall straps are available for this purpose (page 23, Figure 12).
- (2) Whenever possible, use 45° elbows, instead of 90° elbows. The 45° elbow offers less restriction to the flow of flue gases and intake air.



Step 6.

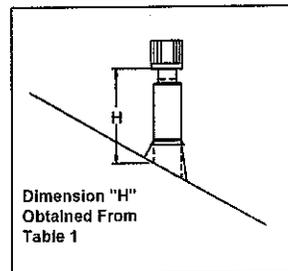
Slip the flashing over the pipe section(s) protruding through the roof. Secure the base of the flashing to the roof with roofing nails. Ensure the roofing material overlaps the top edge of the flashing as shown in Figure 14.



Step 7.

Continue to add pipe sections until the height of the vent (before adding the cap) meets the minimum building code requirements described in Fig. 15. Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining rooflines, steep pitched roofs, and other similar factors can result in poor draft, or down-drafting. In these cases, increasing the vent height or switching to the High Wind Cap may help to solve the problem.

FIG. 15



Dimension "H"
 Obtained From
 Table 1

TABLE 1

ROOF PITCH	MINIMUM HEIGHT	
	FEET	METERS
Flat to 7/12	1	0.30
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 12/12 to 14/12	5	1.52
Over 14/12 to 16/12	6	1.83
Over 16/12 to 18/12	7	2.13
Over 18/12 to 20/12	7.5	2.29
Over 20/12 to 21/12	8	2.44

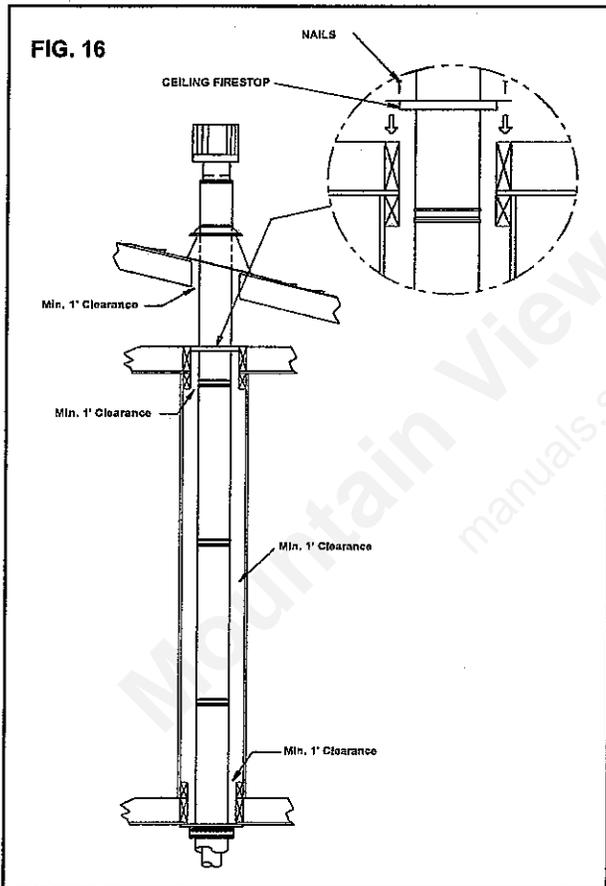
The height of the vent cap must meet the minimum building code requirements described above.

Step 8.

Twist-lock the vent cap and seal.

NOTE:

- (1) For multi-story vertical installations, a ceiling firestop (SDV part #963) is required at the second floor, and any subsequent floors (Figure 16). The opening should be framed to 10" x 10" (254mm x 254mm) inside dimensions, in the same manner as shown in Figure 13.
- (2) Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passed through must be enclosed. The enclosure may be framed and sheetrocked with standard construction materials; however, refer to these installation instructions for the minimum allowable clearance between the outside of the vent pipe and the combustible surfaces of the enclosure. Do not fill any of the required air space with insulation.



CATHEDRAL CEILING INSTALLATION

Step 1.

Follow installation Steps 1 and 2 under vertical termination section.

Step 2.

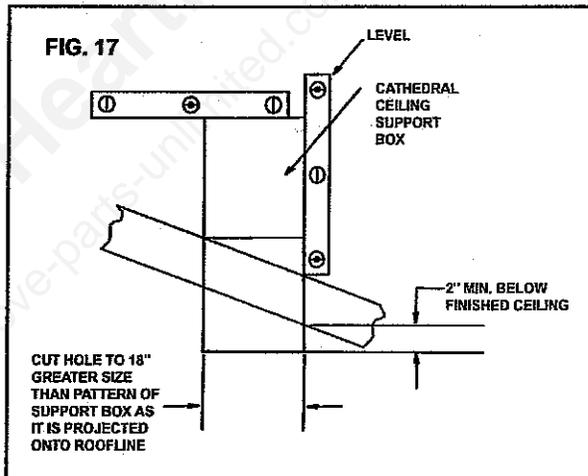
Using the plumb-bob, mark the centerline of the venting system on the ceiling, and drill a small hole through the ceiling and roof at this point. From the roof, locate the drill hole and mark the outline of the cathedral ceiling support box.

Step 3.

Remove shingles or other roof covering as necessary to cut the rectangular hole for the support box. Cut the hole 1/8" (3mm) larger than the support box outline.

Step 4.

Lower the support box through the hole in the roof until the bottom of the box protrudes at least 2" (51mm) below the ceiling (Figure 17). Align the support box both vertically and horizontally with a level. Temporarily tack the support box in place through the inside walls and into the roof sheathing.

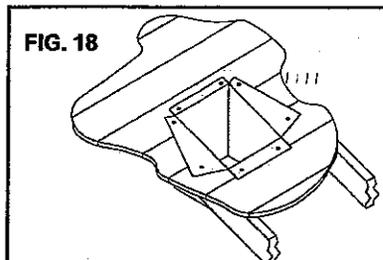


Step 5.

Using tin snips, cut the support box from the top corners down to the roofline, and fold the resulting flaps over the roof sheathing (Figure 18). Before nailing it to the roof, run a bead of non-hardening mastic around the top edges of the support box to make a seal between it and the roof. Clean out any combustible material from inside the support box.

Step 6.

Complete the cathedral ceiling installation by following the same procedures outlined in steps 4 through 8 for vertical terminations.



INSTALLATION INTO A CLASS A METAL CHIMNEY (USA ONLY)

NOTE: Have the existing installation inspected by a qualified chimney sweep or professional installer prior to converting to direct vent. The existing chimney system must be in serviceable condition and functionally sound and clean.

- Step 1.**
Remove existing chimney cap.
- Step 2.**
Measure the distance from the top of the chimney to the bottom of the ceiling support box, add 3" (75mm) to this measurement, and cut a section of 4" (100mm) flex pipe to that length (the flex should be extended to its nominal length).
- Step 3.**
Connect the end of the flex pipe section to the underside of the top adapter (SDV #985K, 986K or 987K), using three sheet metal screws (Figure 19).
- Step 4.**
Pass the flex pipe down through the center of the chimney system, and center the top adapter on the top of the chimney pipe. Drill four 1/8" (3.3mm) diameter holes through the top adapter, and into the chimney top. Ensure that you are drilling into the metal on the chimney. Twist lock the high wind termination cap (SDV #991) onto the top adapter (Figures 20 and 21).
- Step 5.**
Pull the flex pipe down through the ceiling support box, until it protrudes approximately 3" (76mm). Connect the flex pipe to the retro connector (SDV #909B), and attach with sheet metal screws.
- Step 6.**
Push the flex pipe back up into the ceiling support box, center the retro connector, and attach it to the support box with sheet metal screws.
- Step 7.**
The connection between the appliance and the retro connector may be completed with sections of direct vent pipe.

FIG. 20

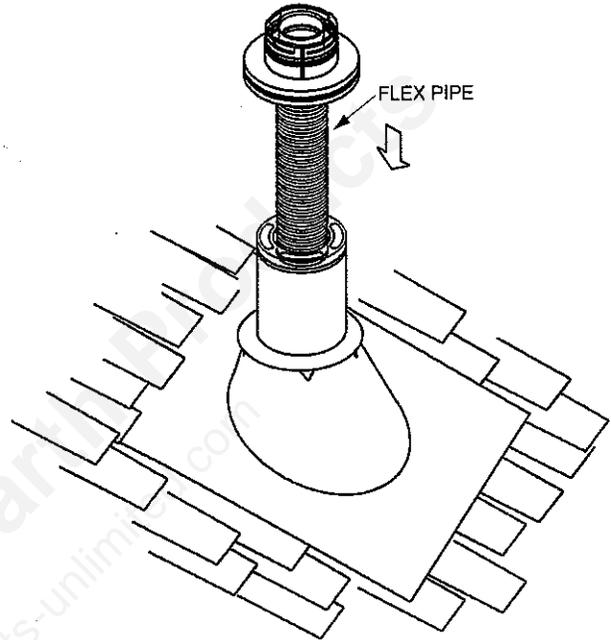
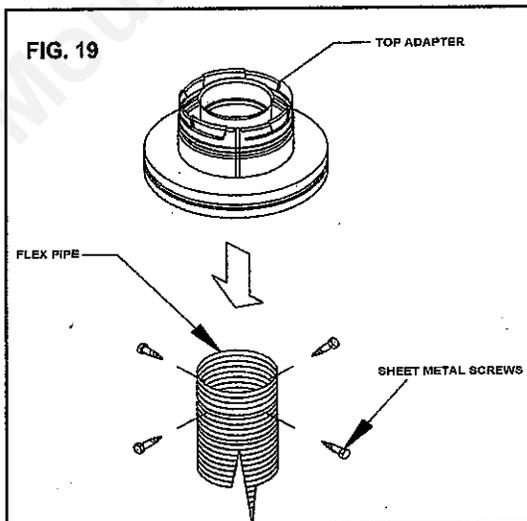
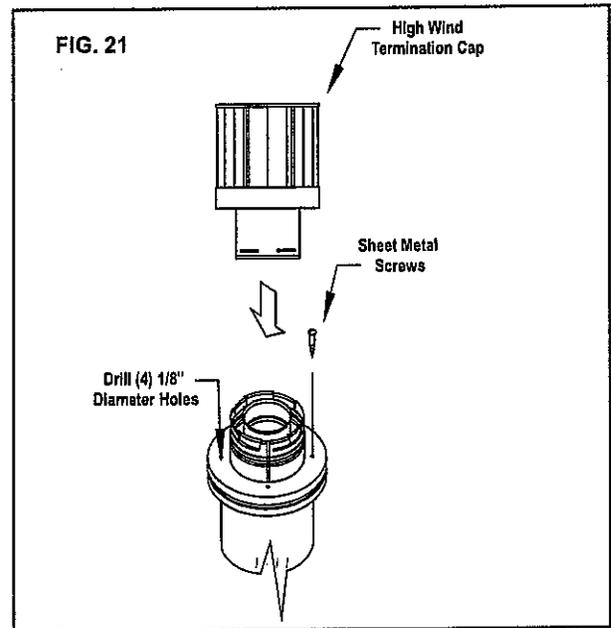


FIG. 21



INSTALLATION INTO AN EXISTING MASONRY CHIMNEY (USA ONLY)

Step 1.

Before cutting any holes, assemble the desired sections of direct vent pipe to determine the center of the masonry penetration.

Step 2.

Once the center point of the penetration has been determined, cut a 6" (152mm) diameter hole in the masonry. If the hole is too large, the retro connector might not mount properly; if the hole is too small, the appliance might starve for intake air. If there is a frame wall in front of the masonry wall, cut and frame a 10" (254mm) square opening in the wall (centered around the 6" [152mm] masonry opening). If there is sheet rock only (no studs) in front of the masonry the 10" (254mm) opening is still needed, but does not need to be framed. This allows the retro connector to mount directly on the masonry and provide the correct clearances to combustibles (see Figure 22).

Step 3.

Secure the flashing (SDV #705C) to the top of the masonry chimney using a bead of non-hardening sealant-adhesive. If the flashing is larger than the top of the chimney, cut and fold flashing as needed to fit chimney (Figure 23).

Step 4.

To determine the length of flex needed, measure from 3" (76mm) above the top of the flashing down to the level of the opening. Add the distance from the center of the chimney out through the wall. Cut a piece of 4" (102mm) flex to this length (extended to its nominal length). Be sure to leave 2"-3" (51mm-76mm) of flex above the existing chimney to allow for connection to the termination kit.

Step 5.

Connect the flex liner to the top adapter using three (3) sheet metal screws (see Figure 19, page 26).

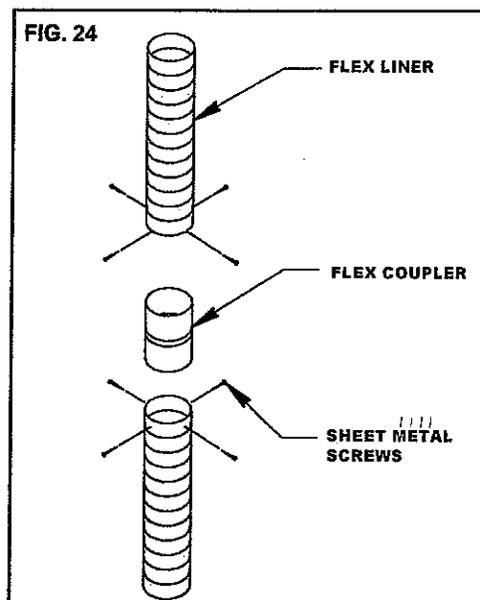
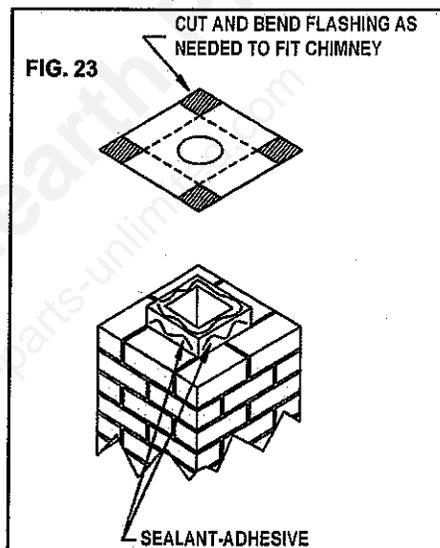
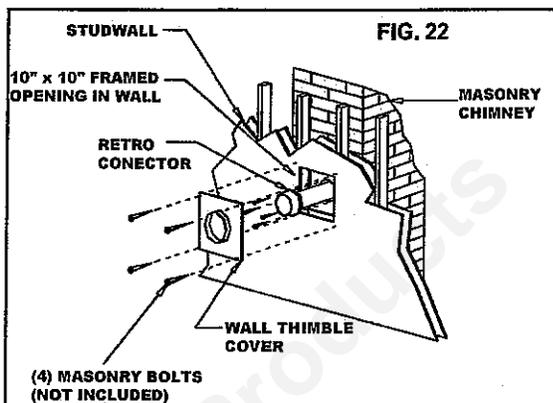
Step 6.

Feed the flex liner through the flashing into the chimney. Carefully feed the flex liner down the chimney to the bottom and out the opening in the masonry wall, forming an angle to line up the flex liner with the vent opening on the appliance.

WARNING: Do not let the flex liner sag below the level at which it will connect to the appliance or connector. This could allow hot gas to become trapped and potentially become a fire hazard. The flex liner path should always be sloped up toward the termination cap.

Step 7.

If additional lengths of flex liner are needed to span the chimney height, use a flex coupler to connect the pieces of flex liner together. Connect the flex to the coupler by using four (4) sheet metal screws for each side (Figure 24).



INSTALLATION INTO AN EXISTING MASONRY CHIMNEY (USA ONLY), cont.

Step 8.

Secure the top adapter to the flashing. Use three (3) sheet metal screws through the side of the top adapter into the flange on the flashing (Figure 25). Twist lock the high wind termination cap (SDV #991) on to the top adapter.

Step 9.

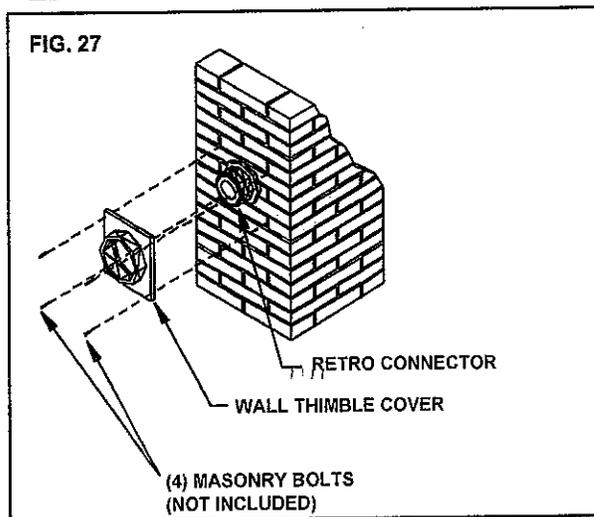
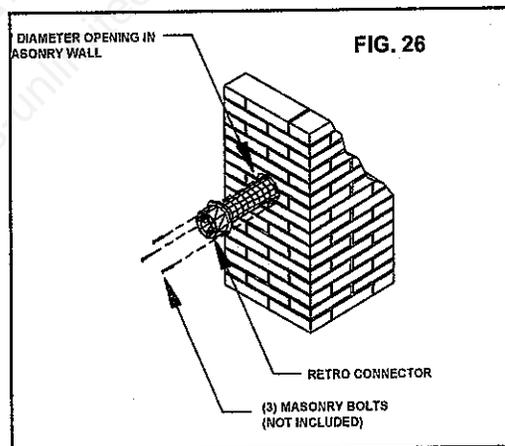
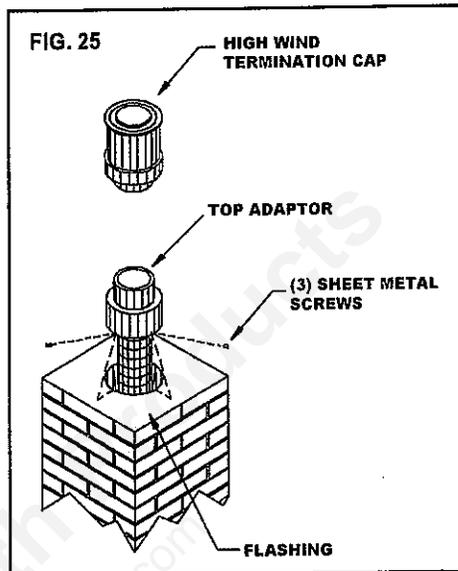
Attach the flex to the retro connector. Use three sheet metal screws to attach the flex liner to the connector (Figure 26). Mount the retro connector to the masonry wall using masonry bolts. Re-drill larger holes on connector as needed. Be careful to ensure that the connector is centered in the opening and the mounting holes line up with the masonry wall.

Step 10.

Slide wall thimble cover (SDV #940) over retro connector and secure with masonry bolts (Figure 27). If you have a framed wall in front of the masonry, use wood screws to mount wall thimble cover to framed wall, over retro connector and 10" (254mm) square framed opening (Figure 22). If needed, add a section of direct vent pipe to the retro connector in order to extend through the opening in the wall thimble cover.

Step 11.

The connection between the appliance and the retro connector may be completed with sections of direct vent pipe.



WARNING: If any other appliances have been previously attached to this masonry flue or an open fireplace, etc., all openings into flue should be sealed properly. It is very important that there is only one appliance on a vent system and that there are no air leaks into the masonry chimney itself other than the vent appliance venting.

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

GAS LINE REQUIREMENTS

The gas line must be installed in accordance with all local codes, if any; if not, follow ANSI 223.1 and the requirements listed below.

The stove and gas control valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig. For pressures under 1/2 psig, isolate the gas supply piping by closing the manual shut-off valve.

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

Leak test all gas line joints and the gas control valve prior to and after starting the stove.

FUEL

This unit is manufactured for use with natural gas. To convert to LP gas, Part #842-4040, LP Conversion Kit, is required and available through your dealer

GAS LINE CONNECTION

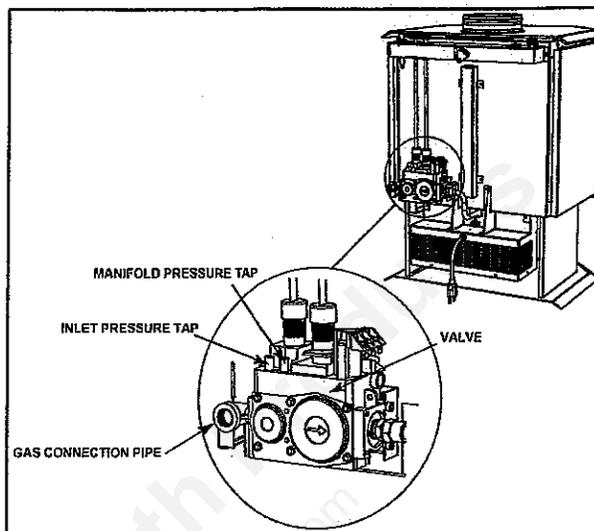
Before making the gas connection, ensure that the stove you are installing is designed for the type of gas being supplied. This information can be found on the Ratings Label on the back of stove. If the stove has been converted to propane (LP), the valve cover will have a label stating that the unit has been converted to propane.

Connect the gas line at the 3/8" pipe connector on the valve at the back of stove. See illustration on the next page. We recommend connecting the stove with an approved flex gas line. If flex gas lines are not approved in your area, you connect a hard pipe to the gas hookup.

You must supply a manual shutoff valve in a visible location within 3' (914mm) of the stove.

After running new gas line, or if a gas line has been disconnected, purging of the gas line may be necessary. To purge gas line, open the inlet pressure tap and allow gas to flow through while carefully monitoring for the odor of either natural gas, which will rise, or propane, which will settle near the floor. As soon as you smell the gas, discontinue purging the line. Ensure that the room has plenty of ventilation and that no sparks or open flames are near the end of the gas line during the purging process. Do not try to ignite the stove until any and all gas accumulation has been cleared from the room.

CAUTION: In some areas, gas line pressure may be more than 112 PSIG (14"WC). If you believe that this is the case in your locality, contact your gas supplier or local utility company. Line pressure greater than 112 PSIG will damage the stove valve. You must install a regulator upstream from the stove if line pressure is greater than 112 PSIG.



GAS INLET PRESSURE

All other gas appliances in the household must be turned "ON" to check Inlet Pressure, and; Inlet pressure can only be checked with fireplace burner "ON".

	Input Pressure	
	Minimum	Maximum
Natural Gas	4.5"W.C.	7"W.C.
Propane	11"W.C.	14"W.C.

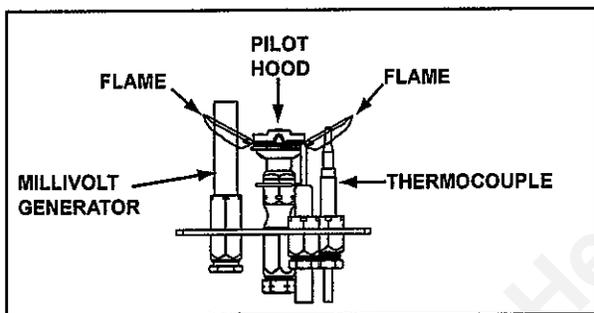
if the pressure is not sufficient, ensure: 1) the piping used is large enough, 2) the supply regulator is adequately adjusted, and 3) that the total gas load for the residence does not exceed the amount supplied.

The supply regulator (the regulator that attaches directly to the residence inlet or to the propane tank) should supply gas at the suggested input pressure listed above. Contact the local gas supplier if the regulator is at an improper pressure.

GAS LINE

LEAK TEST

1. Turn on gas to the fireplace.
2. Turn on gas at the manual shutoff valve.
3. Use a leak detector to leak test all gas joints prior to starting the appliance.
4. Familiarize yourself with the control panel components, see page 34.
5. Follow Lighting Instructions on next page to light the pilot and then the main burner.
6. Leak test all gas joints again.
7. Check the pilot flame ensuring that it looks like the illustration below. Adjust the pilot flame if necessary.



PRE-STARTUP NOTES

WARNING! You must clean all fingerprints and oils from any gold surface prior to firing the fireplace for the first time.

Fumes from curing paint and oil burning off the steel are a normal occurrence. Open window to vent the area until fumes dissipate.

Condensation appearing on the glass each time you start the stove cold is also normal.

Blue Flames will occur on the initial start-up. After fifteen minutes the flames will become the yellow/orange flame color.

Remote Wall Switch: If you install a remote wall switch or thermostat to operate the stove, leave the ON/OFF switch on the stove control panel in the "ON" position.

Do not place any combustible items on top of or directly in front of the stove, even temporarily. The optional thermostat may start the fireplace causing a combustible item to ignite.

If the stove turns on and off frequently while using the thermostat, you may want to adjust the flame height down until it produces just enough heat needed, or relocate the thermostat further away from the stove.

LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READY BEFORE LIGHTING

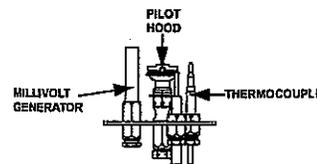
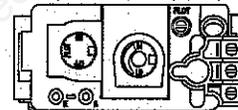
- A. This appliance has a pilot that must be lit manually. When lighting the pilot, follow these instructions exactly
- B. **BEFORE LIGHTING**, smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. 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 on this label.
2. Set the thermostat to the lowest setting (if applicable) and turn off the switch at the control panel.
3. Disconnect power from appliance.
4. Open the door of the appliance.
5. Wait five (5) minutes to clear out any gas. Smell for gas, including near the floor. If you smell gas, **STOP!** Follow "B" of the safety information above. If you don't smell gas go to the next step.
6. Push gas control knob in and turn to pilot position. **NOTE:** Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.
7. Press down on the gas control knob in pilot position and simultaneously press piezo igniter. (This may take many repetitions for lighting.)
8. The pilot should be visible through the door below the top log.
9. After the pilot is lit, continue holding control knob down for approximately 30 seconds. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 6 through 8.
 - If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
10. Turn gas control knob to "ON".
11. Turn burner switch on the control panel to "ON". If thermostat is to be used, leave switch in "OFF" position and set the thermostat to desired setting.
12. Reconnect electrical power to appliance.



TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to lowest setting.
2. Push in gas control knob slightly and turn clockwise  to "OFF" position. Do not force.

LIGHTING INSTRUCTIONS

SHUTTER ADJUSTMENT

A shutter adjustment rod is located inside the right side panel. See Fig. 1 below for location. The shutter is factory pre-set to the open position and may not require adjustment. To determine if you should make any adjustment, first light stove and burn for 20 minutes to allow logs to cure. While logs are curing you may notice a bright orange flame, this is normal. When this flame turns to yellow or disappears, the shutter adjustment can take place.

To adjust flame height, pull out on the adjustment rod to close shutter, a yellow flame will be obtained. For a blue flame with more glow, push shutter rod in to open the shutter. Wait 5 minutes for flame to settle. If the flame is not satisfactory, repeat the procedure. This setting should only require attention during initial set-up. After achieving the desired flame, we recommend sealing the shutter adjustment rod with silicone to maintain your final adjustment.

FIG. 1

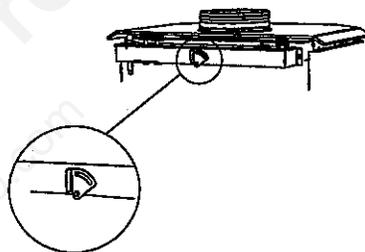


PULL ROD OUT TO CLOSE & OBTAIN YELLOW FLAMES. PUSH ROD IN TO OPEN AND OBTAIN BLUE FLAMES.

VERTICAL DAMPER ADJUSTMENT

Refer to Vent Graph on page 20. If your installation falls within the range of the grey shaded area of graph, it may be necessary to make an adjustment to the vertical damper to improve the operation of your stove.

1. Locate the damper adjustment control at the rear of stove on the back of control panel.
2. Loosen screw using a Phillips screwdriver.
3. Pivot the vertical damper adjustor in 1/4" increments while observing the flame activity. Turning clockwise to close damper; counterclockwise to open.
4. Adjust until flame size and activity suits your personal preference, and then re-tighten screw on adjustment



HIGH ALTITUDE OPERATION

In Canada, this unit is approved from 0 to 4500 feet above sea level. Installation of this stove at altitudes above 4500 feet is subject to field test of the individual installation and approval by the local authority having jurisdiction.

In the United States, input ratings of this unit are based on sea level operation, and shall not be changed for operation at elevations up to 2000 feet. For operation at elevations above 2000 feet, this stove shall be reduced at the rate of 4% for each 1000 feet above sea level.

Exception: As permitted by the authority having jurisdiction.

To adjust stove for operation above 2000 feet the burner orifice may need to be changed. The orifice is located beneath the logset so it is necessary to first remove the logs. To do so please refer to the following detailed instructions to achieve optimum performance of your stove.

WARNING ! The following procedure should only be undertaken by a qualified and certified gas appliance installer.

CAUTION: DISCONNECT ANY ELECTRICAL CORDS AND TURN OFF GAS SUPPLY TO UNIT BEFORE PROCEEDING.

CAUTION: The correct orifice placement is critical for proper appliance performance, follow BTU de-rating chart below to locate the necessary burner orifice.

1. Remove embers, mineral wool, nuggets and logset: See logset installation instructions, Fig. 3 on page 14 (LP Conversion).
2. Remove brick: Refer to LP instructions, step 1 on page 12.
3. Remove burner pan: See Figs. 2 & 3 on page 12.
4. Replace burner orifice: Move shutter off of the orifice for clear view of orifice. Remove orifice with a 3/8" wrench and replace with correct orifice as indicated in the table below for your altitude. See step 4 on page 12.

**Equivalent burner orifice sizes at high altitudes
(Includes 4% Input Reduction For Each 1000 Feet)**

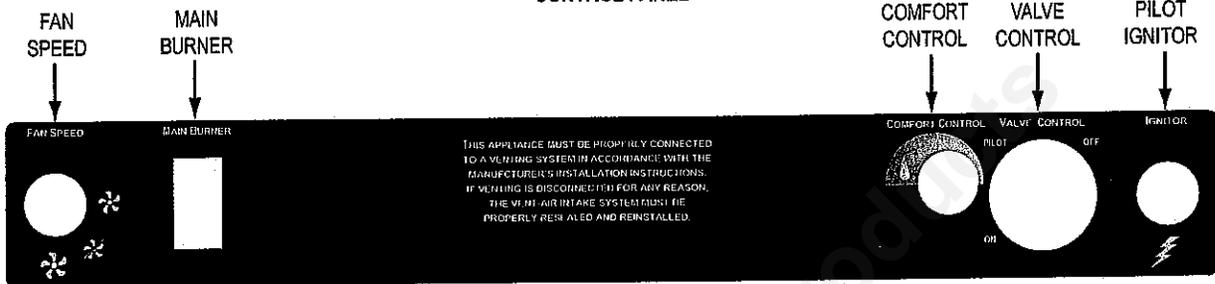
	0-2000	3000	4000	5000	6000	7000	8000	9000	10000
Natural Gas	36	36	39	40	41	42	42	43	43
Propane	52	52	52	53	53	53	54	54	54

HIGH ALTITUDE OPERATION

OPERATION

Read this entire manual prior to using the fireplace. Pay particular attention to the "Safety Precautions" section on pages 4-5. Failure to follow the instructions may result in property damage, bodily injury, or even death.

CONTROL PANEL



OPERATION

CONTROLS

- FAN SPEED** ----- This knob controls the speed of the internal convection blower that pushes the heated air into the room.
- MAIN BURNER** ----- This control is used to turn the fireplace on and off.
- PILOT IGNITOR** ----- The pilot ignitor is used only to start the pilot. When pressed, it sends an electrical charge to the pilot assembly. This creates a blue spark directly next to the pilot, igniting the pilot flame.
- VALVE CONTROL** ----- This knob is used to control gas to the stove and for starting the pilot. There are three positions, ON, OFF, & PILOT. The pointer on the panel indicates the position of the knob.
- COMFORT CONTROL** ----- This knob controls the flame height from low ("LO") to high ("HI").

NOTE: If using a remote control wall switch, or thermostat, the On/Off Switch must be left "OFF". Turning the On/Off Switch "ON" will keep the stove on continually.

NORMAL OPERATING SOUNDS

- Blower** ----- The Columbia Bay uses a 160 cfm blower to circulate heated air into the living area. It produces a whirring sound which increases in volume as the speed is increased.
- Pilot Flame** ----- The pilot flame remains on constantly and makes a "whisper" sound.
- Gas control valve** ----- As the valve opens and shuts down it will click.
- Burner pan** ----- The burner pan is located beneath the logs. It distributes the gas producing a clean, efficient and aesthetic burn. As the main burner gets up to temperature a creaking sound will be heard. This is the expansion of the metal. The sound will cease once the fireplace is up to temperature but may return upon cool down.
- Snap disc** ----- This part may produce a clicking sound as the blower turns on and off if blower is left in the 'on' position.
- Heat Exchanger** ----- A normal expansion and contraction (ticking) sound may be heard.

MAINTENANCE

Installation and repair should be done only by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, pet hair, et cetera. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

Note: If venting is disconnected for any reason, the vent-air intake system must be properly resealed and reinstalled.

GLASS CLEANING

WARNING!

DO NOT CLEAN GLASS WHEN HOT! TURN UNIT OFF AND ALLOW TO COOL. DO NOT USE ABRASIVE or CHEMICAL CLEANERS ON GLASS SURFACE! DO NOT OPERATE WITH THE GLASS FRONT REMOVED CRACKED OR BROKEN! DO NOT STRIKE OR SLAM THE DOOR!

___ Turn off pilot light. ___ Open door by releasing four spring latches, two on each side of appliance beneath side panels. ___ Using glass cleaner, wipe with soft cloth or clean paper towel until surface is dry. ___ Relight pilot. ___ Close door. ___ Check burner operation. **NOTE:** If you observe a white film on the door glass, use a hard water deposit glass cleaner or contact your dealer for a special gas stove glass cleanser. The use of a glass cleaner will reduce the mineral deposits.

GOLD - CARE AND TREATMENT

WARNING! You must clean all the fingerprints and oils from gold surfaces prior to firing the stove for the first time. Use a glass cleaner or vinegar and a very soft towel to remove the oils. If gold is not cleaned properly prior to lighting the first fire, the oils remaining from fingerprints can cause permanent staining on the gold plating. After the plating is cured, the oils will not affect the finish and regular maintenance can be provided using glass cleaner and a very soft cloth as needed.

DOOR FRAME ASSEMBLY REPLACEMENT

Use only Door Assembly replacement Part #842-4150, available from your dealer, if any glass becomes broken in the Columbia Bay.

1. Unlatch door from both sides of stove and remove.
2. Remove crown from existing door by removing four (4) screws on the back side of door assembly, pull crown off door face.
3. Remove grille from existing door by loosening two (2) screws at each end of grille where they slide into the back of door assembly, slide grille out of slots in door.
4. Reinstall crown and grille onto new door assembly.
5. Install new door onto stove.

YEARLY MAINTENANCE PROCEDURES

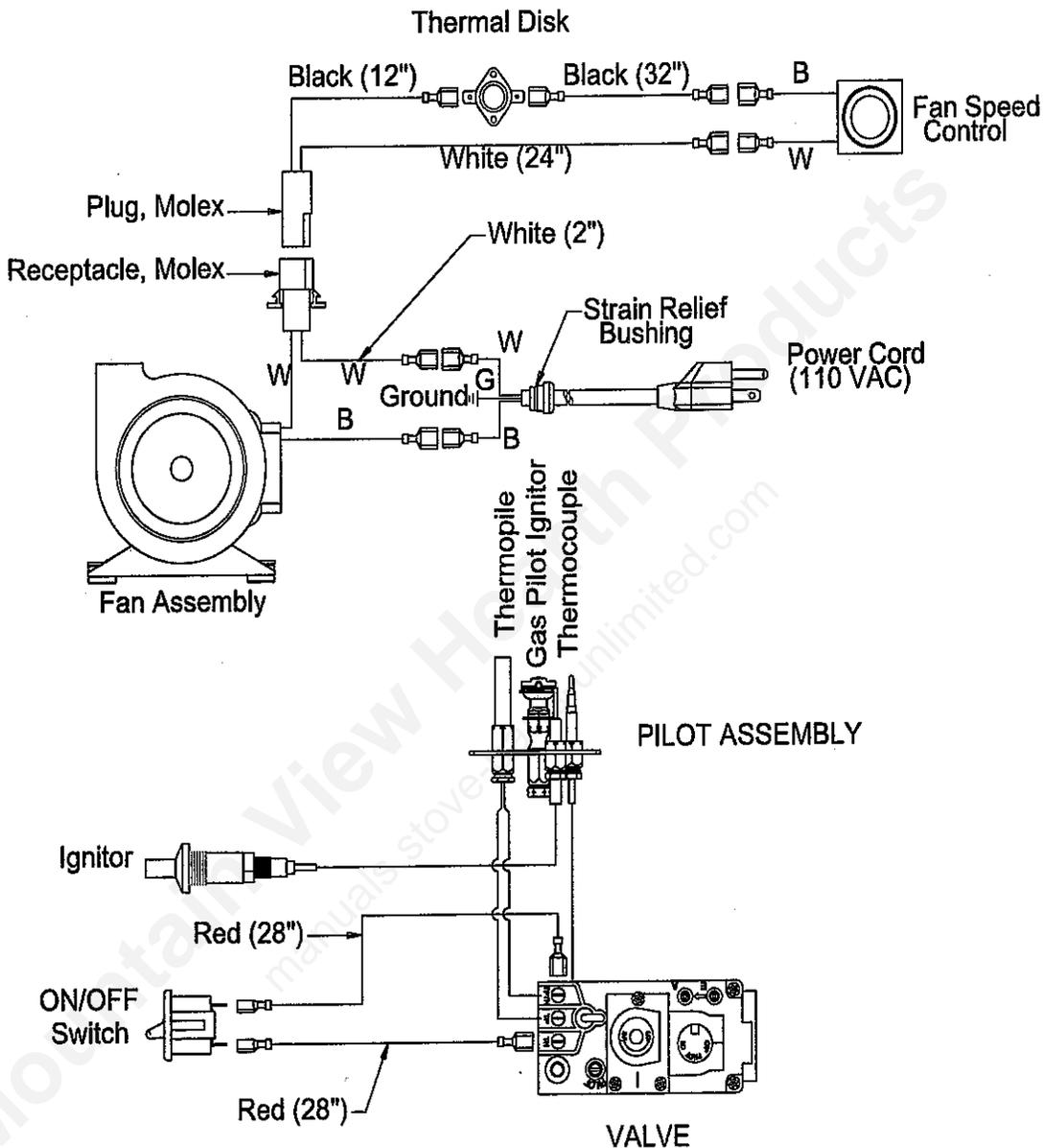
WARNING!

Failure to inspect and maintain the stove may lead to improper combustion and a potentially dangerous situation. The following procedures are recommended to be completed by a qualified technician once per year, preferably prior to the burning season.

1. Check the pilot flame. It should engulf approximately 3/8" of the top of the millivolt generator and engulf the top of the thermocouple (see illustration on page 30).
2. Shut off gas to the stove by turning the valve control knob to "OFF" and turning off the manual shutoff valve. Allow the stove to cool for 15 minutes. Remove the door.
3. Remove the logset (NOTE: the logs are fragile. If any log is cracked or deteriorated, replace it when reinstalling. Check the logs for sooting. A small amount of soot along the bottom of the logs is normal. If excessive sooting is found, the fireplace will require adjustment. Contact your dealer.
4. Clean the burner pan (especially in the burner holes and slots) and inspect the following:
 - a. Check for burner pan holes that are cracked, severely warped, plugged or corroded.
 - b. Make sure the burner pan assembly fits flat against the floor of the firebox.
 - c. Check the firebox and area around the pilot to make sure there is no warping or damage. If any problem is found, discontinue use and contact your dealer for service.
5. Reinstall the logset. Inspect the door glass, if the door glass is damaged, contact your dealer for a replacement. Make sure the gasket along the perimeter of the glass contacts the face of the firebox and forms an airtight seal. If it does not, realign or replace the gasket to ensure an airtight seal. Reinstall door.
6. Inspect the area behind the side panels. Check the gas control valve and all of the gas lines. If any damage is found, discontinue use and contact your dealer for service.
7. Remove any debris or vegetation near the vent termination, outside the house ensuring that the flow of combustion and ventilation air is not obstructed. Contact your dealer if any sooting or deterioration is found near the vent termination.
8. Turn on gas and follow Lighting Instructions. The flames should be orange/yellow and not touch the top of the firebox. If the pilot or main burners do not burn correctly, contact your dealer for service. Monitor the blower operation.

MAINTENANCE

ELECTRICAL SCHEMATIC



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

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TROUBLESHOOTING

Pilot won't light

1. Is a gas shut-off valve turned on?
2. Is the valve control knob turned to "PILOT" (See Lighting Instructions, #6, Pg. 31).
3. Is the valve control knob pushed in? (See Lighting instructions, #8)
4. Was the igniter pressed repeatedly? (See Lighting Instructions, #8)

Main Burners Will Not Start

1. Has the pilot light gone out? (See Lighting Instructions, Pg. 31).
2. Is the gas control valve turned to "PILOT" or "OFF"? (See Lighting Instructions).
3. Is the ON/OFF switch in the "OFF" position? (Turn to "ON")
4. Is the remote control working correctly? (See instruction manual for the remote control).
5. Is the thermostat disconnected or set too low? (See Thermostat Operation, Pg. 15).
6. If LP, is the tank empty?

Remote Control Does Not Turn Unit On / Off

1. Has the pilot light gone out? (See Lighting Instructions, Pg. 31).
2. Is the gas control valve turned to "PILOT" or "OFF"? (See Lighting Instructions).
3. Is the ON/OFF switch turned to "OFF"? (Turn the switch to "OFF") If the switch is on, unit will remain on.
4. Is the remote too far away from the fireplace? (Use remote closer to fireplace)
5. Is the remote control receiver turned "OFF"? (See instruction manual for the remote control).
6. Are the remote control batteries dead? (See instruction manual for the remote control).

Thermostat Does Not Work

1. Has the pilot light gone out? (See Lighting Instructions, Pg. 31).
2. Is the gas control valve turned to "PILOT" or "OFF"? (See Lighting Instructions).
3. Is the thermostat set too low? (See Thermostat Operation, Pg. 15).
4. Is the ON/OFF switch turned to "OFF"? If switch is on, unit will remain on. (The switch overrides the thermostat.)
5. Has proper wire gauge been used for distance? (pg. 15)

Stove Will Not Distribute Heat (Fan won't run)

1. Is the stove getting electricity? (Check the breaker switch)
2. Is the stove up to temperature? (See Operating Procedures, Pg. 34), blower will not turn on until stove is up to temperature.
3. Is Blower operational? (Check Fan Speed control, Pg. 34).

Pilot Goes Out Once a Month or More

1. Has the gas supply been shut off? (Keep gas supply turned on)
2. Build up on pilot assembly
3. Correct pressure supply.

Flames Are Too blue

1. Has the stove just been started? Wait for 20 minutes.
2. Contact dealer to service shutter and damper adjustment (see page 32).

Flames Are Too Short (Under 6")

1. The flame height may be turned too low. (Turn the flame height to "Hi"; see Comfort Control, Pg. 34).
2. Shutter may require adjustment - Contact Dealer (pg. 32).
3. Damper may require adjustment - Contact Dealer (pg. 32).

Thin Layer of Soot Covers the Glass

1. Are the logs or embers placed incorrectly? (See Logset Installation, Pg. 14).
2. Shutter may require adjustment - Contact Dealer (pg. 32).
3. Damper may require adjustment - Contact Dealer (pg. 32).

Stove Design:

Many of the components within this gas stove are designed specifically for safety purposes. It is therefore imperative that only certified gas service technicians should service this appliance.

Burner Operation:

A millivolt system controls the operation of this stove. The thermopile and thermocouple generate electricity when heated by the pilot flame. This electricity is used to operate the gas valve. Without enough electricity, the gas valve will not turn on. That is why, when starting the pilot, the gas control knob has to be pressed in long enough for the thermocouple to heat up and generate enough electricity. The thermopile provides power for the ON/OFF switch, remote control, or thermostat. Because the thermopile generates the electricity needed to turn the fireplace on and off, this stove can be operated when the power is out (although the blower will not run).

Gas Buildup Prevention Feature:

This appliance's utilization of a high-technology gas valve in conjunction with a pilot flame ensures that no gas builds up inside the firebox.

The thermocouple (next to the pilot) senses when the pilot flame is lit. If the pilot flames goes out, this thermocouple no longer generates electricity, causing the gas valve to automatically shut off all gas to the heater, preventing the pilot from spilling gas into the firebox.

TROUBLESHOOTING

WARRANTY

LIFETIME WARRANTY

The Aladdin Hearth Products limited Lifetime Warranty guarantees that the following components will work as designed for the lifetime of the stove or Aladdin Hearth Products will repair or replace them. These items include, but are not limited to, steel and cast iron components, all gas burners, gas logs, combustion chambers, heat exchanger systems, stainless steel firebox components, gold plating, doors, glass damaged by thermal breakage, steel baffles and manifold tubes. Labor is covered for the first five years.

THREE YEAR WARRANTY

Our EZ Clean firepots are covered under Aladdin Hearth Products three-year warranty program. Labor is covered for 3 years.

ONE YEAR WARRANTY

All electrical components such as, but not limited to, blowers, wiring, vacuum switches, speed controls, control boxes, thermidisc switches, pilot assemblies, gas valves, thermostats and remotes are covered under Aladdin Hearth Products one-year warranty program. Carburetors, burner rings and catalysts are covered under Aladdin's one-year warranty program. Porcelain finishes are warranted against manufacturer defects for one year. Labor to repair or replace these parts is covered for one year and reimbursed per our warranty service fee schedule. The igniter is not covered by any warranty expressed or implied.

CONDITIONS

This warranty is non-transferable and is made to the original retail purchaser only provided that the purchase was made through an authorized dealer of Aladdin Hearth Products. It must be installed and operated at all times in accordance with the Installation and Operating Instructions furnished with this product, as well as any applicable local and national codes. Any alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.

Labor to repair or replace items covered under the limited Lifetime Warranty will be covered for the first five years per our warranty service fee reimbursement schedule. Parts covered under the limited Lifetime Warranty will be covered for the lifetime of the appliance up to a maximum of five years after Aladdin Hearth Products discontinues the model. Adjustments, regular maintenance, cleaning and temporary repairs do not qualify for a service call fee and will not be covered. The replacement of consumer replaceable items and installation of upgraded component parts do not qualify for a service call fee, and will not be covered.

This limited Lifetime Warranty does not extend to or include surface finish on the appliance, logs for oil or pellet stoves, door gasketing, glass gasketing, thermocouple covers, firebrick, kaowool or other ceramic insulating materials. It does not cover installation or operational-related problems such as the use of corrosive driftwood, downdrafts or spillage caused by environmental conditions, nearby trees, buildings, hilltops, mountains, inadequate venting or ventilation, excessive offsets, or negative air pressures caused by mechanical systems such as furnaces, fans, clothes dryers, etc.

Any installation, construction, transportation, or other related costs or expenses arising from defective part(s), repair, replacement, etc., will not be covered by this warranty, nor will Aladdin Hearth Products assume responsibility for them. Further, Aladdin Hearth Products will not be responsible for any incidental, indirect, or consequential damages, except as results in damage to the interior or exterior of the building in which this appliance is installed. This limited Lifetime Warranty does not apply to the venting components, hearth components or other accessories used in conjunction with the installation of this product not manufactured by Aladdin Hearth Products.

This warranty is void if the stove has been overfired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals; the stove is subjected to prolonged periods of dampness or condensation; or there is any damage to the stove or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation. Aladdin Hearth Products may, at its discretion, fully discharge all obligations with respect to this warranty by either repairing or replacing the unit, or refunding the wholesale price of the defective part(s).

This limited Lifetime Warranty is effective on all Dovre and Affinity appliances sold after July 1, 1998 and all Quadra-Fire appliances sold after September 1, 1996, and supersedes any and all warranties currently in existence.

WARRANTY

INSTALLER:

RETURN THIS MANUAL TO OWNER

Mountain View Hearth Products
manuals.stove-parts-unlimited.com

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