

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 04-1387 Issue Date: 2004 CBL: 397 C006001

Location of Construction: 752 Allen Ave	Owner Name: Callaghan Thomas J	Owner Address: 752 Allen Ave	Phone: 397 C006001
Business Name:	Contractor Name: Brian Norton	Contractor Address: 9 Commercial Street Portland	Phone: 2077722155
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: P-3

Past Use: Single family	Proposed Use: Single family install a Heat N Glow Gem 36	Permit Fee: \$30.00	Cost of Work: \$395.00	CEO District: 5
Proposed Project Description: Install a Heat N Glow Gem 36		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>State Gas Log's</i> Type: <i>Heating</i>	

Permit Taken By: dmartin	Date Applied For: 09/17/2004	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Date:
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.		Signature: <i>[Signature]</i> Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: <i>[Signature]</i> Date:		

Zoning Approval		
Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date:	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input checked="" type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT _____ ADDRESS _____ DATE _____ PHONE _____

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE _____ DATE _____ PHONE _____



FILL IN AND SIGN WITH INK

041387

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

397 0006

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 752 ALLEN AVE

Use of Building RESIDENCE

Date 9/14/04

Name and address of owner of appliance TOM CALLAGHAN

Installer's name and address Brian Nozick
9 Commercial St Portland, ME 04101

Telephone 772-2155

Location of appliance:

- Basement
- Floor 1st Floor
- Attic
- Roof Doghouse on

Type of Fuel:

- Gas LP
- Oil
- Solid

Appliance Name: HEAT N GAS GEM 36

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacturer's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT3869
- Other _____

Type of Chimney:

- Masonry Lined
- Factory built _____

Metal

Factory Built U.L. Listing # _____

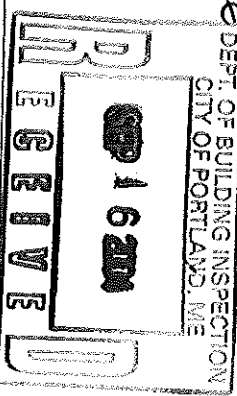
Direct Vent

Type Manufactures U.I.# _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank



Number of Tanks

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 395.00

Permit Fee: \$ 60.00

Approved

See attached letter or requirement

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: _____

Signature of Installer Brian Nozick

Inspector's Signature _____

Date Approved _____

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	04-1387	Date Applied For:	09/17/2004	CBL:	397 C006001
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Location of Construction:	752 Allen Ave	Owner Name:	Callaghan Thomas J	Owner Address:	752 Allen Ave	Phone:	
Business Name:		Contractor Name:	Brian Norton	Contractor Address:	9 Commercial Street Portland	Phone:	(207) 772-2155
Lessee/Buyer's Name		Phone:		Permit Type:	HVAC		

Proposed Use:	Single family install a Heat N Glow Gem 36	Proposed Project Description:	install a Heat N Glow Gem 36
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Dept: Zoning Status: Approved Reviewer: Tammy Munson Approval Date: 09/29/2004
 Note: Ok to Issue:

Dept: Building Status: Approved with Conditions Reviewer: Tammy Munson Approval Date: 09/29/2004
 Note: Ok to Issue:

- 1) This is a heating permit only. It DOES NOT authorize any construction activities.
- 2) The installation must comply with the State of Maine Gas Regulations.

STATE OF MAINE
CHIMNEY OR FIREPLACE DISCLOSURE

Dear Consumer: State law, specifically 32 M.R.S.A., Chapter 33, requires chimney or fireplace installers, as of January 1, 1992, to provide you with this Disclosure prior to the installation work being done on your chimney or fireplace. The purpose of this Disclosure is to help you, as a consumer, make an informed decision as to the abilities of the installer and under what requirements the installation must comply. It is important to note that the State of Maine does not require registration or licensure of chimney or fireplace installers; however, it is just as important to realize that many fires are caused each year by improperly constructed fireplaces and chimneys. For further information about this law, call the Division of Licensing & Registration at 624-8629 or write to the Division at #35 State House Station, Augusta, Maine 04333.

INSTALLER INFORMATION

Name of Installer BRIAN NOBSON
D.B.A. _____
Name of Installer (if incorporated) THE FINEST KIND INC.
D.B.A. _____
Legal Address 9 COMMERCE ST. PORTLAND
(Street and No.) (City or Town)
MAINE 04101
(State) (Zip Code)
Home Telephone 1799.16431 Business Telephone 1772.12155
(County) (County) (City or Town) (Zip Code)
Years of experience doing fireplace or chimney installations _____

CONSUMER IDENTIFICATION

Consumer's Name TOM GALLAGHAN
Mailing Address 752 ALLEN AVE PORTLAND
(Street and No.) (City or Town)
MAINE 04103
(State) (Zip Code)
Home Telephone 878.17181 Business Telephone _____
(County) (County) (City or Town) (Zip Code)

Installer, please give a brief description of installation being offered.

● INSTALLING ZERO CLEARANCE LP GAS FIREPLACE
IN DOGHOUSE ON OUTSIDE WALL
MODEL: HEAT N GO GEM 36 LP GAS

I, BRIAN NOBSON, the installer, hereby attest that the preceding information provided is true to the best of my knowledge. I also understand that if I fail to conform with the standards as outlined in NFPA 211 that I shall be subject to penalties as outlined under Title 32, Chapter 33, Oil and Solid Fuel Board.

Signature Brian Nobson Date 2/14/09

INSTALLATION STANDARDS

Please check the type of unit(s) that will be installed:

Factory-Built Chimney and Chimney Units.

Factory-built chimney and chimney units shall be listed and shall be installed in accordance with the temperature conditions of the listing and the manufacturer's instructions and all requirements of NFPA 221 for chimneys, fireplaces, vents and solid fuel appliances.

Masonry Chimney.

Masonry chimneys shall be designed, anchored, supported and re-enforced as required by NFPA 211 for chimneys, fireplaces, vents and solid fuel appliances.

Metal Chimney.

Metal chimneys shall be constructed in accordance with NFPA 211, and shall apply good engineering practices as necessary for:

1. Strength to resist stress
2. Adequate anchoring and bracing
3. Durability
4. Security against leakage
5. Allowances for thermal expansion

Factory Built Fireplace.

Factory built fireplaces shall be listed and shall be installed in accordance with the terms of its listing and all applicable sections of NFPA 211.

Masonry Fireplace.

Masonry fireplaces shall meet the requirements of NFPA 211, Chapter 7 and all other pertinent sections.

Other

Please list on separate sheet of paper if making repairs of pre-existing chimneys, such as repair or replacement of chimney liners, etc.

CONSUMER CHECKLIST

1. Have you asked for references to be provided by the installer?
2. Is the installer familiar with the NFPA 211 codes and does the installer carry a code book?
3. If the installation is a pre-fabricated or fireplace, is its manufacturer registered with the Maine Oil & Solid Fuel Bd.
4. Does the installer provide any type of written guarantee for the product installation being proposed?
5. Has the installer provided you with a written contract? 10 M.R.S.A. Chapter 219-A requires written contracts for any home remodeling or construction with an estimated cost in excess of \$1,400.
6. Have you asked the local fire department or code enforcement officials to inspect the installation during and after completion?



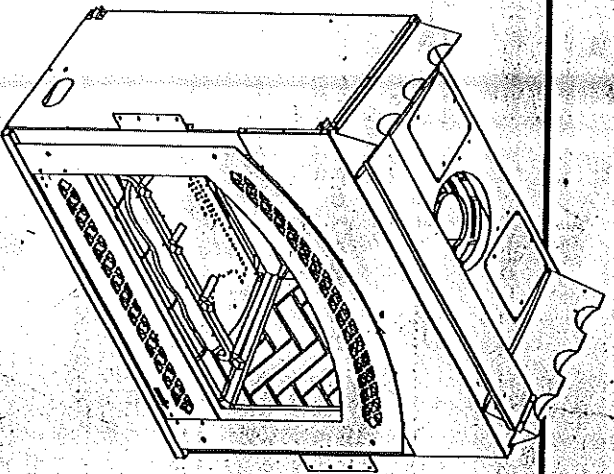
**Models:
GEM36**

Model No. GEM-36
Serial No. 008132125

Model No. GEM-861A
Serial No. 002132125

HEAT-N-GIO
No one builds a better fire

Installer's Guide



UL US LISTED
Underwriters
Laboratories Listed

WARNING: IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
 - Do not try to light any appliance.
 - Do not touch any electrical switch.
 - Do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

READ THIS MANUAL BEFORE INSTALLING OR OPERATING THIS APPLIANCE. THIS INSTALLER'S GUIDE MUST BE LEFT WITH APPLIANCE FOR FUTURE REFERENCE.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL FOR ASSISTANCE OR ADDITIONAL INFORMATION. CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY, OR THE GAS SUPPLIER.

1. This appliance may be installed in an alternate market; permanently located, manufactured (mobile) home, where not prohibited by local codes.
2. 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.

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Heat-N-Gio, a division of Hearth Technologies Inc.
20802 Kensington Boulevard, Lakeville, MN 55044

Please contact your Heat-N-Gio dealer with any questions or concerns. For the number of your nearest Heat-N-Gio dealer, please call 1-888-427-3973.

This product is covered by one or more of the following patents: (United States) 4,112,913; 4,408,594; 4,422,426; 4,424,792; 4,520,791; 4,793,322; 4,852,548; 4,875,464; 5,000,162; 5,016,609; 5,076,254; 5,191,877; 5,216,953; 5,328,356; 5,429,485; 5,452,708; 5,542,407; 5,613,487; (Australia) 543790; 586383; (Canada) 1,123,296; 1,297,746; 2,195,264; (Mexico) 97-0457; (New Zealand) 200265; or other U.S. and foreign patents pending.

370-900 6/02

SAFETY AND WARNING INFORMATION

! **READ** and **UNDERSTAND** all instructions carefully before starting the installation. **FAIL TO FOLLOW** these installation instructions may result in a possible fire hazard and will void the warranty.

! Prior to the first firing of the fireplace, **READ** the Using Your Fireplace section of the Owners Guide.

! **DO NOT USE** this appliance if any part has been under water. Immediately **CALL** a qualified service technician to inspect the unit and to replace any part of the control system and any gas control which has been under water.

! **THIS UNIT IS NOT FOR USE WITH SOLID FUEL.**

! Installation and repair should be **PERFORMED** by a qualified service person. The appliance and venting system should be **INSPECTED** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is **IMPERATIVE** that the unit's control compartment, burners, and circulating air passageways **BE KEPT CLEAN** to provide for adequate combustion and ventilation air.

! Always **KEEP** the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

! **NEVER OBSTRUCT** the flow of combustion and ventilation air. Keep the front of the appliance **CLEAR** of all obstacles and materials for servicing and proper operations.

! Due to the high temperature, the appliance should be **LOCATED** out of traffic areas and away from furniture and draperies. Clothing or flammable material **SHOULD NOT BE PLACED** on or near the appliance.

! 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.

! These units **MUST** use one of the vent systems described in the installing the Fireplace section of the *Install/Use Guide*. **NO OTHER** vent systems or components **MAY BE USED**.

! This gas fireplace and vent assembly **MUST** be vented directly to the outside and **MUST NEVER** be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance **MUST USE** a separate vent system. Common vent systems are **PROHIBITED**.

! **INSPECT** the external vent cap on a regular basis make sure that no debris is interfering with the air flow.

! The glass door assembly **MUST** be in place and sealed, and the trim door assembly **MUST** be in place on the fireplace before the unit can be placed into safe operation.

! **DO NOT OPERATE** this appliance with the glass door removed, cracked, or broken. Replacement of the glass door should be performed by a license or qualified service person. **DO NOT** strike or slip the glass door.

! The glass door assembly **SHALL ONLY** be replaced as a complete unit, as supplied by the fireplace manufacturer. **NO SUBSTITUTE** materials may be used.

! **DO NOT USE** abrasive cleaners on the glass door assembly. **DO NOT ATTEMPT** to clean the glass door when it is hot.

! Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.

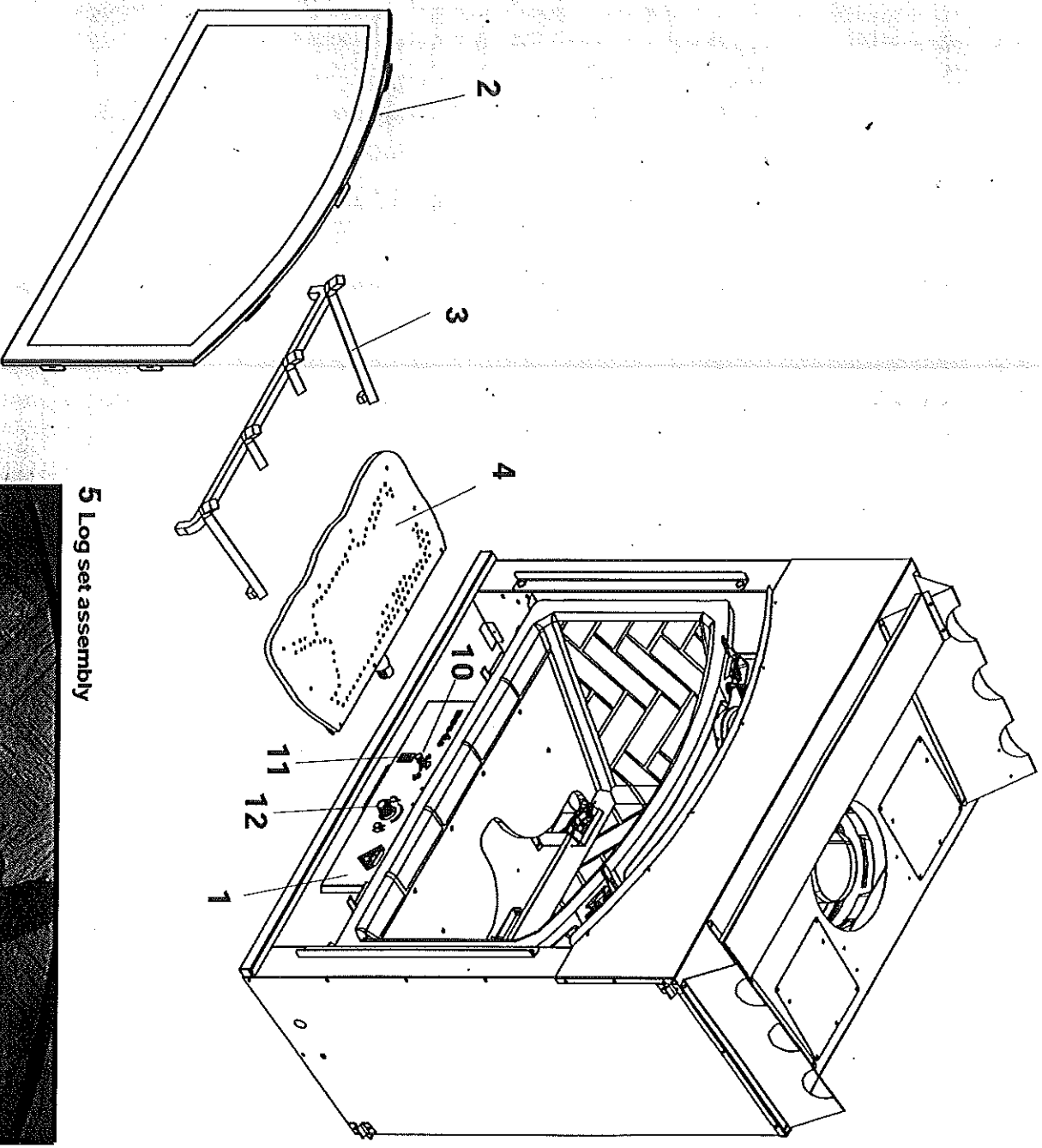
! Any safety screen or guard removed for servicing must be replaced before operating this appliance.

! **DO NOT** place furniture or any other combustible household objects within 36 inches of the fireplace front.

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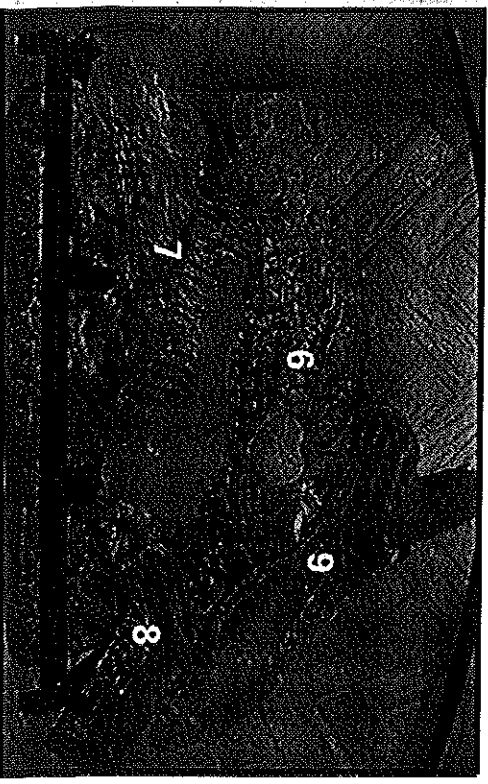
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GEM36 (NG, LP) Exploded Parts Diagram / Vue éclatée des pièces



5 Log set assembly

* Part number list on following page.
* La liste des numéros de pièce se trouve à la page suivante.



GEM36 Service Parts List / Liste des pièces de rechange

IMPORTANT: THIS IS DATED INFORMATION. The most current information is located on your dealers VIP site. When ordering, supply serial and model numbers to ensure correct service parts. **IMPORTANT :** L'information fournie dans cette brochure n'est valide que pendant une courte période. Les sites VIP des distributeurs disposent des renseignements les plus récents. Lors d'une commande, veuillez fournir les numéros de série et de modèles pour un remplacement adéquat des pièces.

ITEM / PIÈCE	DESCRIPTION	SERIAL # / N° DE SÈRE	PART NUMBER / N° DE PIÈCE
	Valve (NG) / Valve (GN)		750-500
	Valve (LP) / Valve (PL)		750-501
	Valve Control Module / Module de commande		593-592
	Flex Ball Assembly / Flechir l'Assemblée de Soupape de Balle		302-320A
	Burner Tube / Tube de brûleur		567-301A
	Burner Orifice NG (#32C) / Orifice de brûleur GN (#32C)		582-832
	Burner Orifice LP (#50C) / Orifice de brûleur PL (#50C)		582-850
1	Control Panel / Tableau de commande avant		370-154
2	Glass Door Assembly / Porte en verre		GLA-GEM36
3	Log Grate / Grille de Bûche		370-360A
4	Burner / Brûleur		370-179A
5	Log Set Assembly / Jeu de Bûches		LOGS-GEM36
6	Log 1 / Bûche 1		SRV370-700
7	Log 2 / Bûche 2		SRV370-701
8	Log 3 / Bûche 3		SRV370-702
9	Log 4 / Bûche 4		SRV582-705
10	Knob, Rheostat, black /		100-512
11	ON/OFF Rocker Switch / Interrupteur à bascule marchepied		060-521A
12	Flame Control Knob / Flamber le Bouton de Contrôle		571-531
	Flue Restrictor 1-1/4" diameter / Restricteur de conduite de cheminée		370-259
	Flue Restrictor 1-1/2" diameter / Restricteur de conduite de cheminée		370-260
	Rheostat / Rheostat		100-510A
	Temp Sensor / Detecteur de température		107-531
	Electronic IPI Pilot (NG) / IPI Module de veilleuse (NG)		385-510A
	Electronic IPI Pilot (LP) / IPI Module de veilleuse (PL)		385-511A
	Wire Assembly / Module de fil		593-590A
	Pilot Orifice Spud (LP) / Orifice de veilleuse LP		446-517
	Pilot Orifice Spud (NG) / Orifice de veilleuse GN		446-505
	Junction Box / Boîtier de dérivation		383-250A
	3V Adaptor Plug / 3V Bouchon d'adaptateur		593-593A
ACCESSORIES / ACCESSOIRES			
	Battery Pack / Paquet de Batterie(Pile)		593-594A
	Fan Kit / Module de ventilateur		GFK-160A
	Wall Switch Kit, Off-white / Interrupteur mural, blanc creme		WSK-21
	Wall Switch Kit, White / Interrupteur mural, blanc		WSK-21-W
	Multi-functional Wall Switch / Le Commutateur de Mur multi-fonctionnel		WSK-MLT
	Heat-Out Kit / Chauffe-hors Trousse		HEAT-OUT
	Heat-Zone Kit / Trousse de chauffe-zone		HEAT-ZONE
	Trim Door Mesh / Écran porte de garniture		MESH-GEM36
	LP Conversion Kit / Module de conversion PL		LPK-GEM36
	Arched Marble Kit, Black / Kit Arqué de Marbre, Noir		MBK-GEM36
	Arched Marble Kit, Biege / Kit Arqué de Marbre, Biege		MBG-GEM36
	Arched Marble Kit, Green / Kit Arqué de Marbre, Vert		MGR-GEM36

1

Approvals and Codes

Appliance Certification

The Heat-N-Glo fireplace model discussed in this *Installers Guide* has been tested to certification standards and listed by the applicable laboratories.

Certification
MODELS: GEM36, LABORATORY: Underwriters Laboratories TYPE: Direct Vent Gas Fireplace Heater STANDARD: ANSI Z21.88-2000 • CSA2.33-M98 • UL307B

Installation Codes

The fireplace installation must conform to local codes. Before installing the fireplace, consult the local building code agency to ensure that you are in compliance with all applicable codes, including permits and inspections.

In the absence of local codes, the fireplace installation must conform to the National Fuel Gas Code ANSI Z223.1 (in the United States) or the CAN/CGA-B149 Installation Codes (in Canada). The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes with the National Electric Code ANSI/NFPA No. 70 (in the United States) or to the CSA C22.1 Canadian Electric Code (in Canada).

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

High Altitude Installations

U.L. Listed gas fireplaces are tested and approved for elevations from 0 to 2,000 feet in the U.S.A. and from 0 to 4,500 feet in Canada.

When installing this fireplace at an elevation above 2,000 feet (in the United States), it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced four percent (4%) for each 1,000 feet above sea level, unless the heating value of the gas has been reduced, in which case this general rule will not apply. To identify the proper orifice size, check with the local gas utility.

When installing this fireplace at an elevation between 2,000 and 4,500 feet (in Canada), the input rating must be reduced by ten percent (10%).

When installing this fireplace at an elevation above 4,500 feet (in Canada), check with local authorities.

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



Heat-N-Glo Quality
Systems registered
by SGS-ICS

2

Getting Started

Introducing the Heat-N-Glo Gas Fireplaces

Heat-N-Glo direct vent gas fireplaces are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside.

The information contained in this *Installers Guide*, unless noted otherwise, applies to all models and gas control systems. Gas fireplace diagrams, including the dimensions, are shown in this section.

Pre-install Preparation

This gas fireplace and its components are tested and safe when installed in accordance with this *Installers Guide*. Report to your dealer any parts damaged in shipment, particularly the condition of the glass. **Do not install any unit with damaged, incomplete, or substitute parts.**

The vent system components and trim doors are shipped in separate packages. The gas logs may be packaged separately and must be field installed.

Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit. Failure to follow these instructions will void the owner's warranty and may present a fire hazard.

The Heat-N-Glo Warranty will be voided by and Heat-N-Glo disclaims any responsibility for, the following actions:

- Installation of any damaged fireplace or vent system component.
- Modification of the fireplace or direct vent system.
- Installation other than as instructed by Heat-N-Glo.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not manufactured and approved by Heat-N-Glo, not withstanding any independent testing laboratory or other party approval of such component part or accessory.

ANY SUCH ACTION MAY POSSIBLY CAUSE A FIRE HAZARD.

When planning a fireplace installation, it's necessary to determine:

- Where the unit is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.

If the fireplace is to be installed on carpeting or tile, or on any combustible material other than wood flooring, the fireplace should be installed on a metal or wood panel that extends the full width and depth of the fireplace.

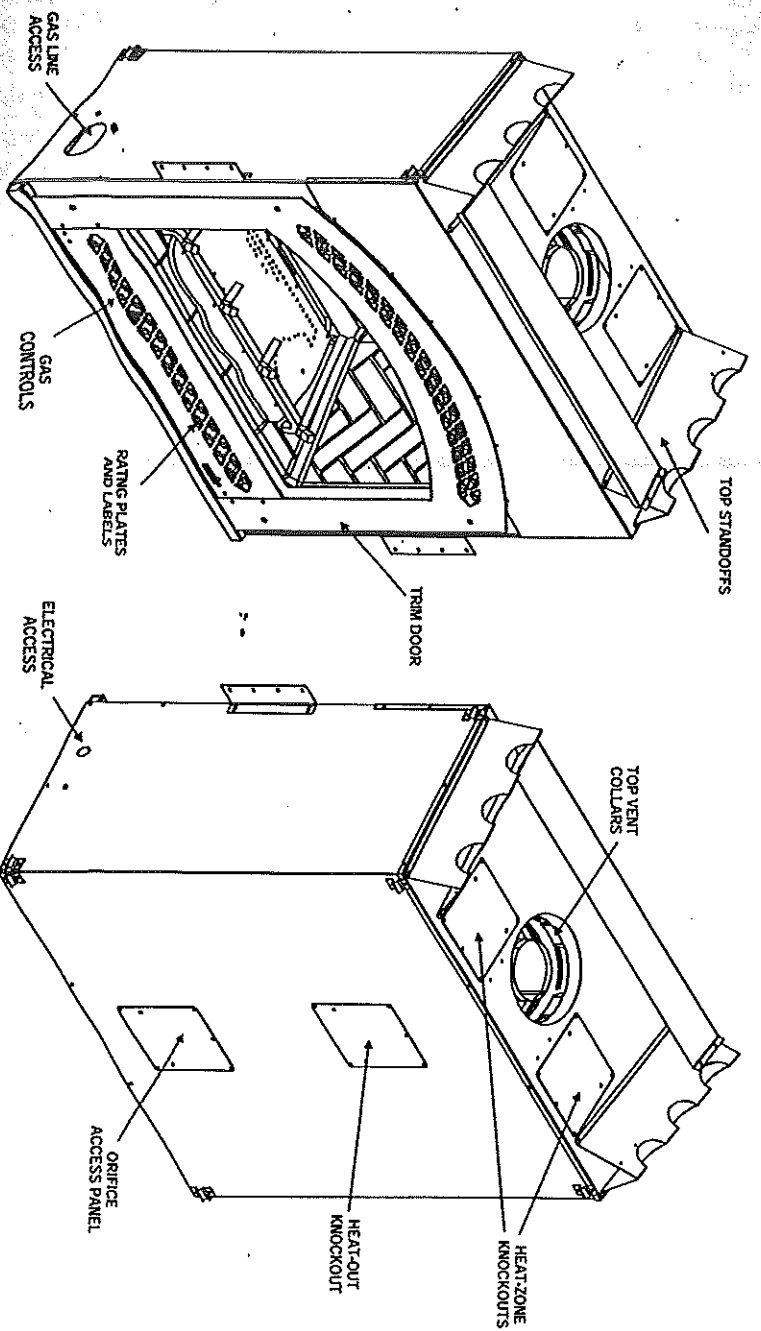
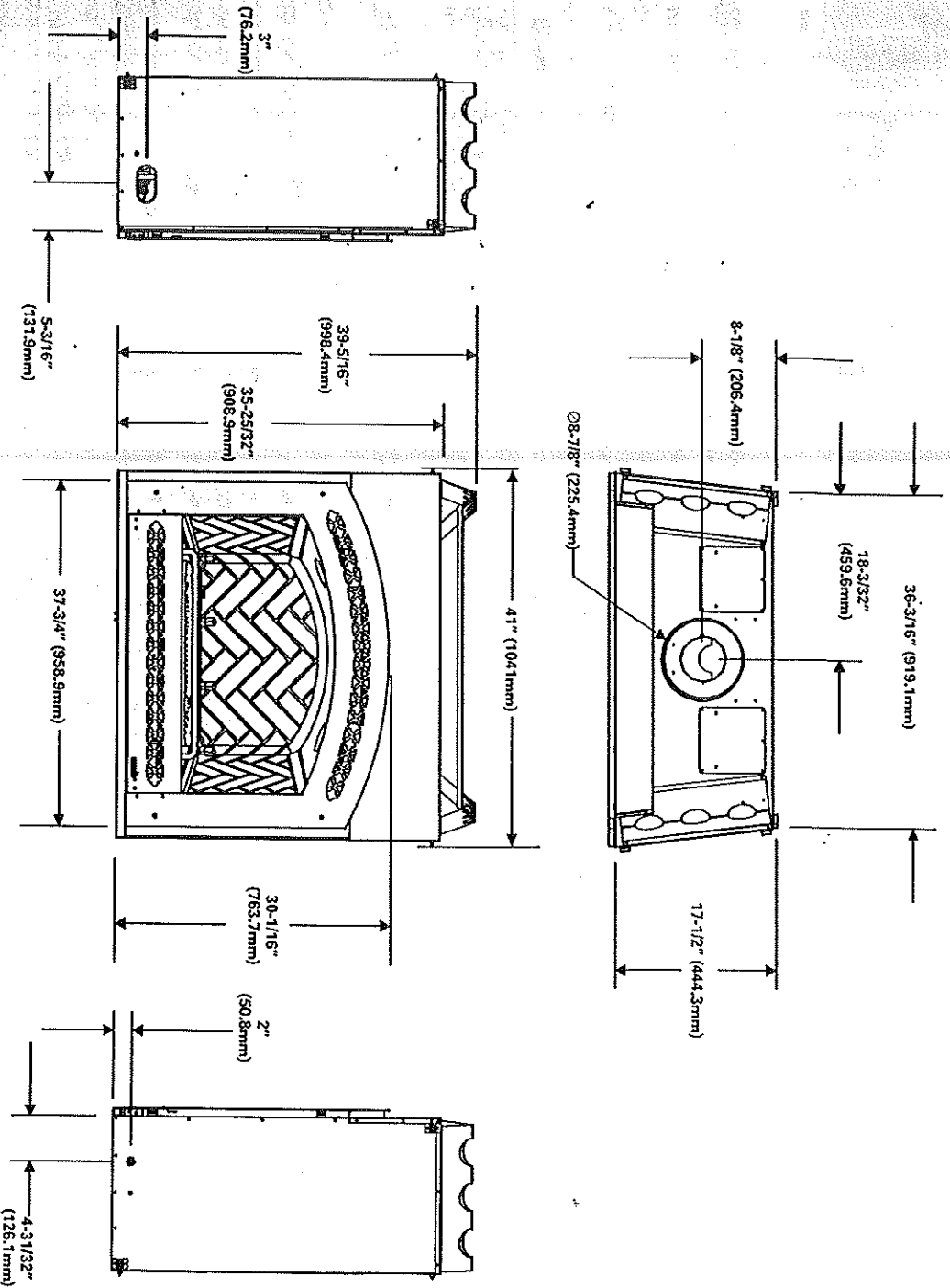


Figure 1. Diagram of the GEM36

3

Installing the Fireplace

Constructing the Fireplace Chase

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

CAUTION: TREATMENT OF FIRESTOP SPACERS AND CONSTRUCTION OF THE CHASE MAY VARY WITH THE TYPE OF BUILDING. THESE INSTRUCTIONS ARE NOT SUBSTITUTES FOR THE REQUIREMENTS OF LOCAL BUILDING CODES. THEREFORE, YOUR LOCAL BUILDING CODES MUST BE CHECKED TO DETERMINE THE REQUIREMENTS FOR THESE STEPS.

Factory-built fireplace chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

This means that the walls, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, Heat-N-Glo recommends that the inside surfaces be sheetrocked and taped for maximum air tightness.

To further prevent drafts, the firestops should be caulked to seal gaps. Gas line holes and other openings should be caulked or stuffed with insulation. If the unit is being installed on a cement slab, we recommend that a layer of plywood be placed underneath to prevent conducting cold up into the room. Be sure to include spark arrestors for woodburning units if they are required.

THE CHASE SHOULD BE CONSTRUCTED SO THAT ALL CLEARANCES TO THE FIREPLACE ARE MAINTAINED AS SPECIFIED WITHIN THIS INSTALLERS GUIDE.

Step 1. Locating the Fireplace

The following diagram shows space and clearance requirements for locating a fireplace within a room.

Clearance Requirements

The top, back, and sides of the fireplace are defined by stand-offs. The minimum clearance to a perpendicular wall extending past the face of the fireplace is 12" (304.8 mm). The back of the fireplace may be recessed 1 7/12" (437.5 mm) into combustible construction.

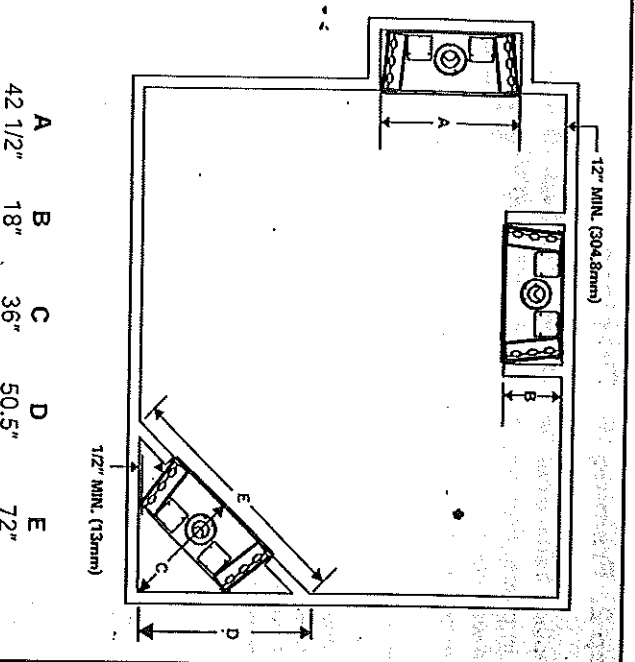


Figure 2. Fireplace Dimensions, Locations, and Space Requirements.

A	B	C	D	E
42 1/2"	18"	36"	50.5"	72"

Minimum Clearances from the Fireplace to Combustible Materials

	Inches	mm
Glass Front	36	914
Floor	0	0
Rear	1/2	13
Sides	1/2	13
Surround Sides*	1/2	13
Top	7	178
Ceiling**	31	787

* See Figure 3.

** The clearance to the ceiling is measured from the top of the unit, excluding the standoffs (see Figure 35).

The distance from the unit to combustible construction is to be measured from the unit outer wrap surface to the combustible construction, **NOT** from the screw heads that secure the unit together.

Minimum Clearances from the Vent Pipe to Combustible Materials

Vertical Sections	Inches	mm
Vertical Sections	1	25
Horizontal Sections		
Top	3	75
Bottom	1	25
Sides	1	25
At Wall Firestops		
Top	2 1/2	63.7
Bottom	1/2	13
Sides	1	25

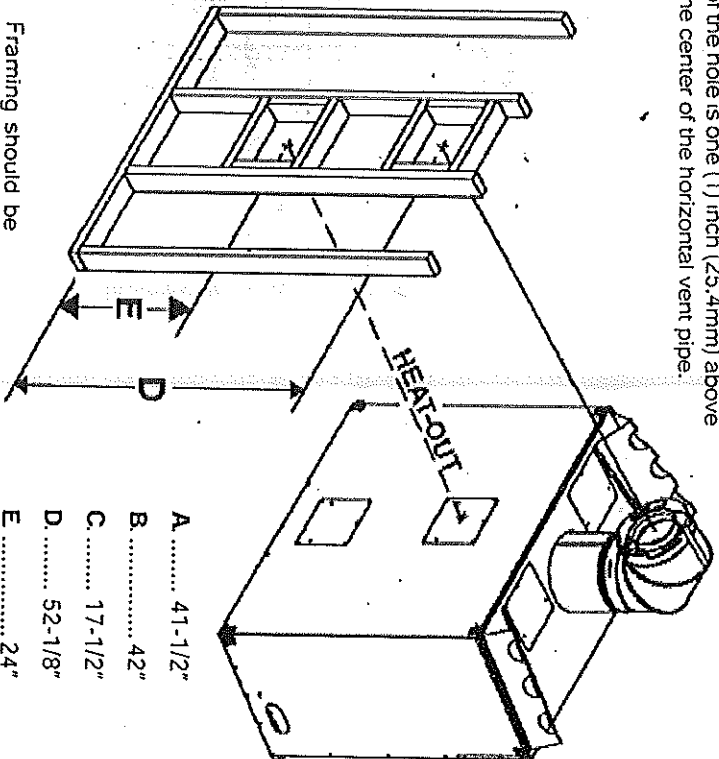
For minimum clearances, see the direct vent termination clearance diagrams on pages 20 and 21 in this manual.

Step 2. Framing the Fireplace

Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall coverings and fireplace facing material. The diagram below shows framing reference dimensions.

CAUTION: MEASURE FIREPLACE DIMENSIONS AND VERIFY FRAMING METHODS AND WALL COVERING DETAILS BEFORE FRAMING.

Shows center of 12" x 12" vent framing holes for top and rear venting. The center of the hole is one (1) inch (25.4mm) above the center of the horizontal vent pipe.



Framing should be constructed of 2 X 4 lumber or heavier.

- A 41-1/2"
- B 42"
- C 17-1/2"
- D 52-1/8"
- E 24"
- F* 49-1/2"

*Studs labeled "F" are necessary if installing the optional Arched Marble Kits (see service parts list).

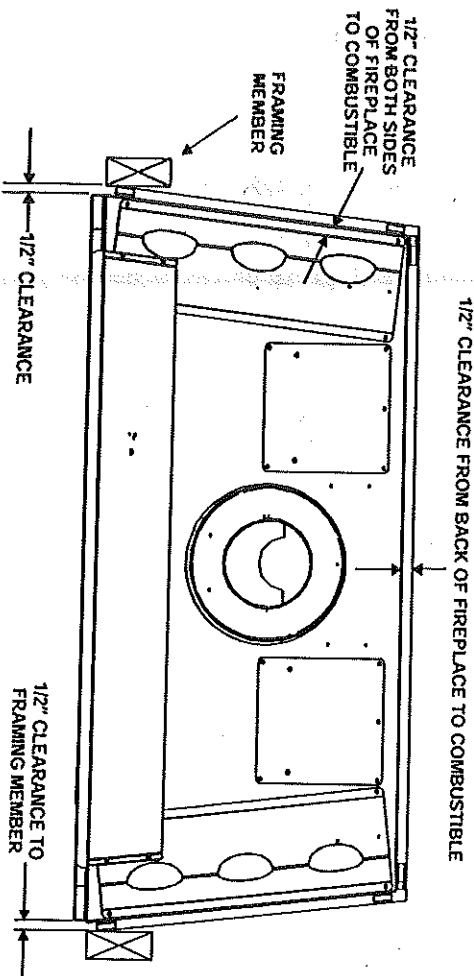
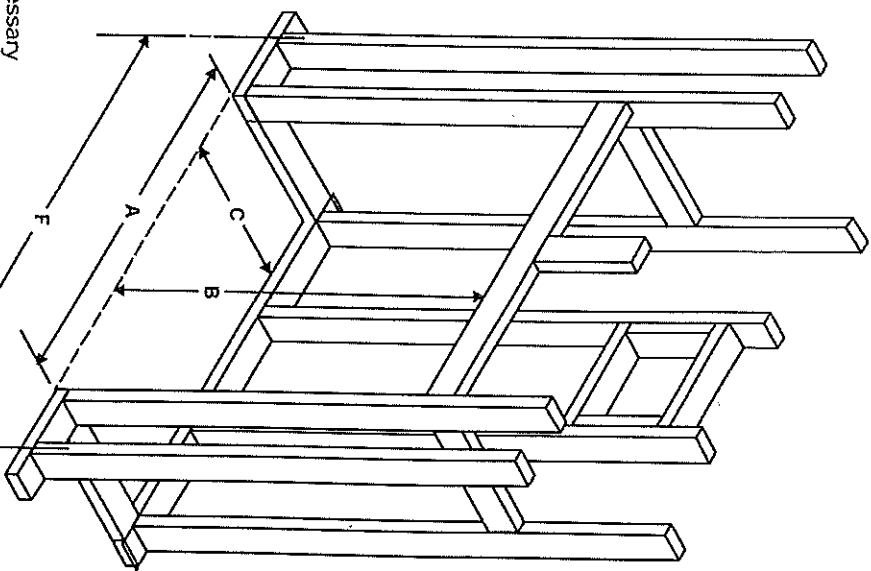
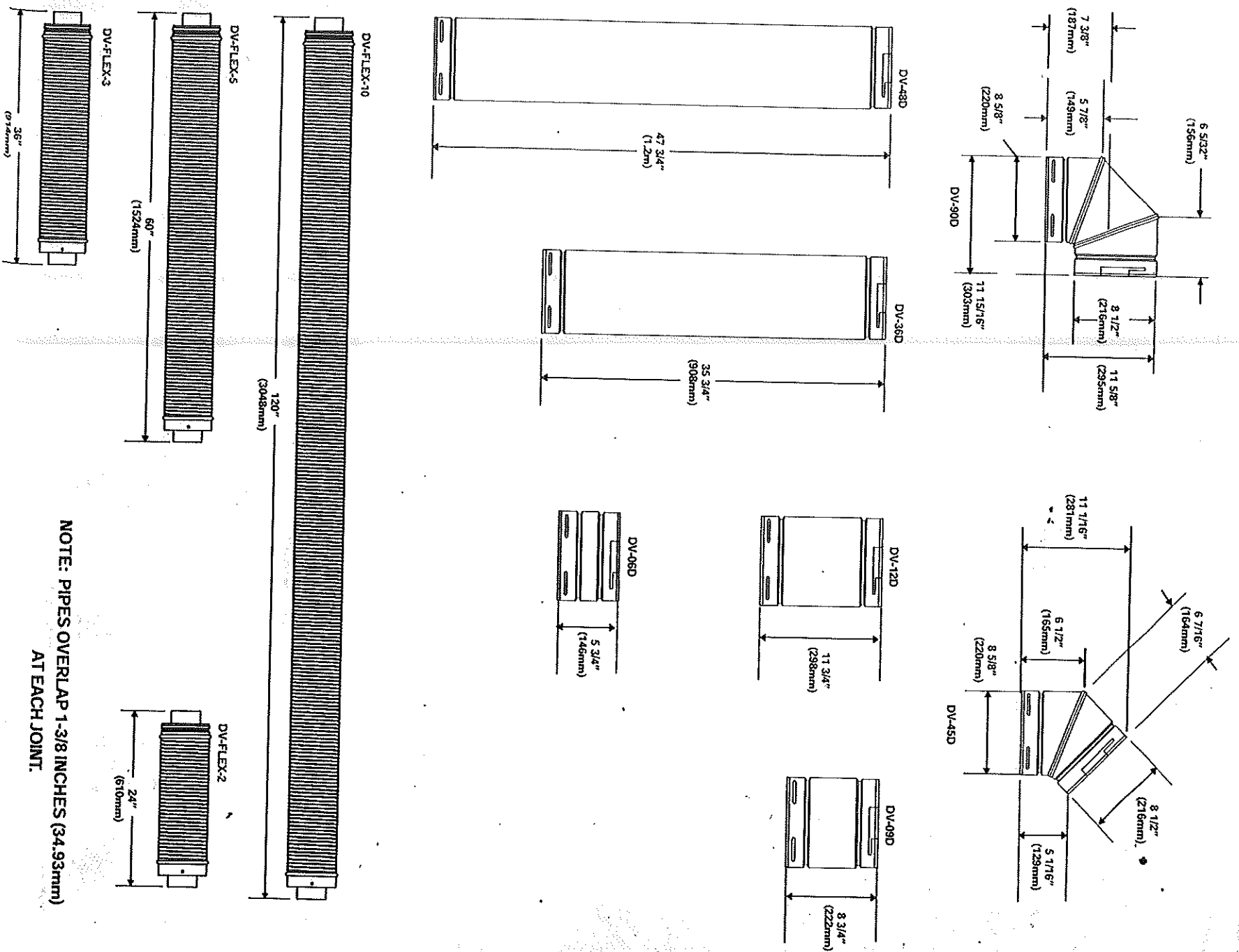


Figure 3. Framing Dimensions



NOTE: PIPES OVERLAP 1-3/8 INCHES (34.93mm) AT EACH JOINT.

Figure 4. D-Series Direct Vent Component Specifications (5-inch inner pipe / 8 5/8-inch outer pipe)

Step 3. Installing the Vent System

A. Vent System Approvals

These models are approved to use D-series direct vent pipe components and terminations (see Figures 4 and 5). Approved vent system components are labeled for identification. This pipe is tested and listed as an approved component of the fireplace. The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall. There is no required pitch for horizontal vent runs. **NO OTHER VENTING SYSTEMS OR COMPONENTS MAY BE USED.**

Detailed installation instructions are included with each vent termination kit and should be used in conjunction with this *Installers Guide*.

The flame and ember appearance may vary based on the type of fuel burned and the venting configuration used.

Identifying Vent Components

The vent systems installed on this gas fireplace may include one, two, or three 90° elbow assemblies. The relationships of vertical rise to horizontal run in vent configurations using 90° elbows **MUST BE** strictly adhered to. The rise to run relationships are shown in the venting drawings and tables. Refer to the diagrams on the next several pages.

NOTE: Two 45° elbows may be used in place of one 90° elbow. Rise to run ratios in the vent system must be followed if 45° elbows are used.

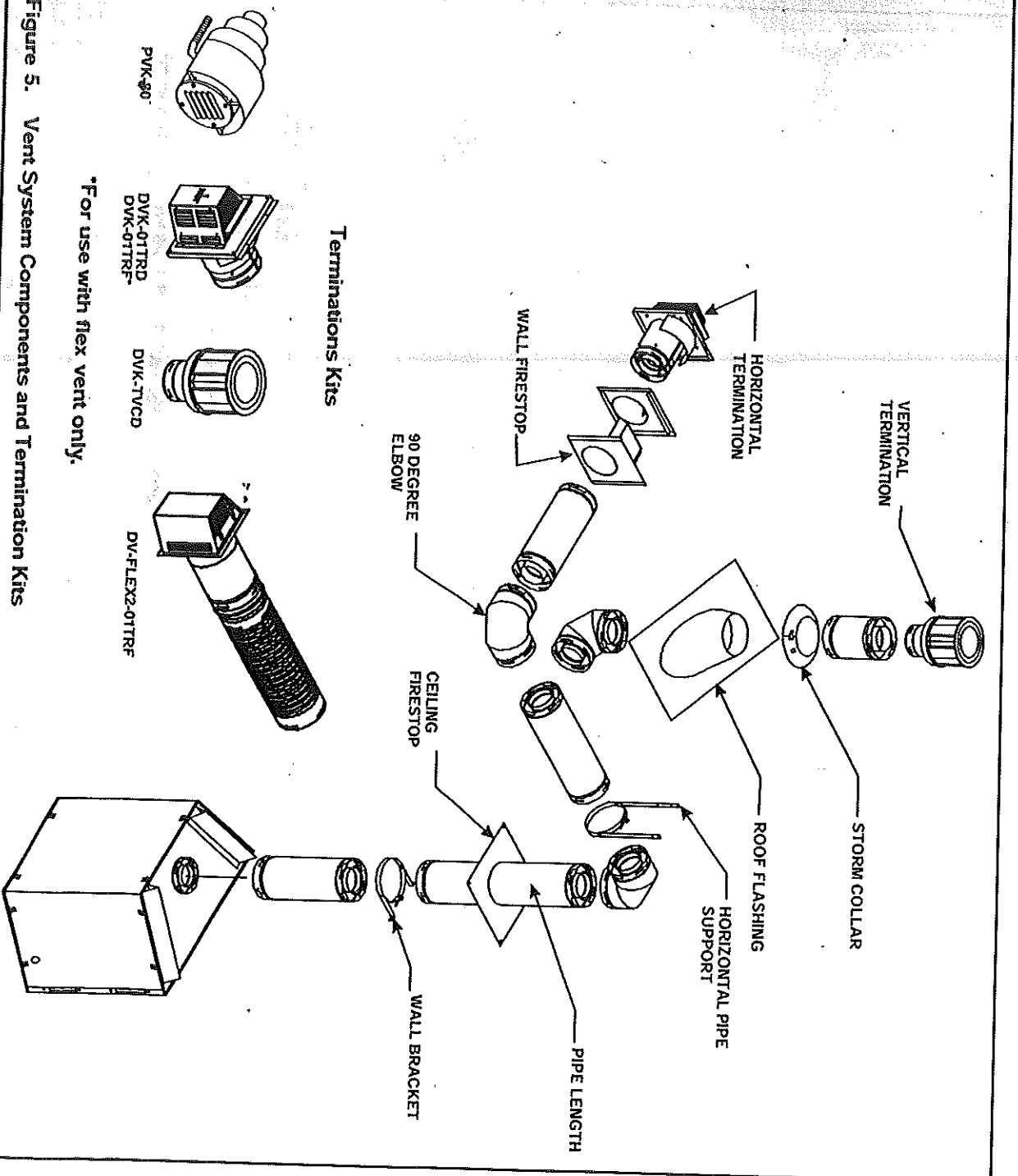


Figure 5. Vent System Components and Termination Kits

Flex Vent

The flex vent must be supported with the spacing between support intervals not exceeding 4 feet, with no more than 1/2 inch sag between supports.

A support is required at each change in venting direction, and in any location where it is necessary to maintain the necessary clearance to combustibles. A simple "up and out" installation (Figure 6) requires only enough support to maintain the necessary clearance to combustibles. However, the vent attachment point and the firestop location are considered to be supports.

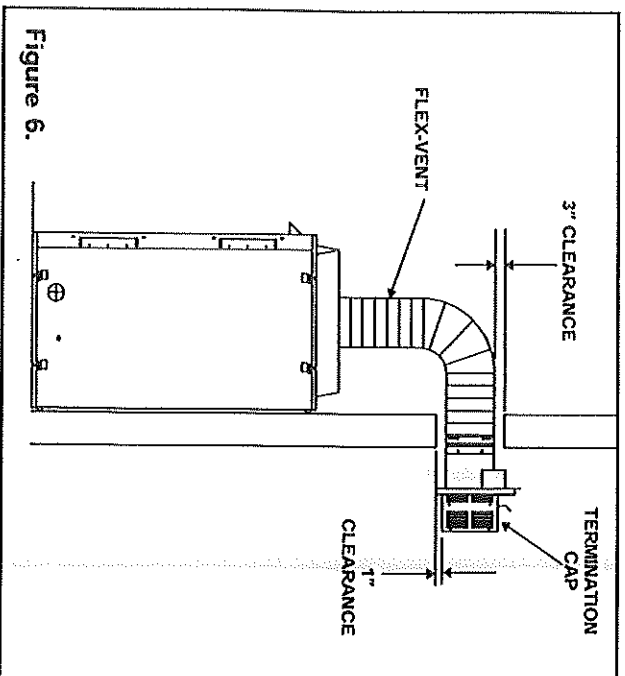


Figure 6.

Flue Restrictor Instructions

1. The flue restrictors are located in the manual bag. There are two each of 1-1/4" diameter and 1-1/2" diameter. Use the following table to determine which restrictors to use for the vent run.

Vent Run Vertical	15'-30'	30'-40'
*NG	1-1/2" & 1-1/2"	1-1/2" & 1-1/4"
LP	1-1/2" & 1-1/2"	1-1/4" & 1-1/4"

2. See Figure 8 for restrictor installation. Insert each restrictor in one of the 3" exhaust collars as shown.

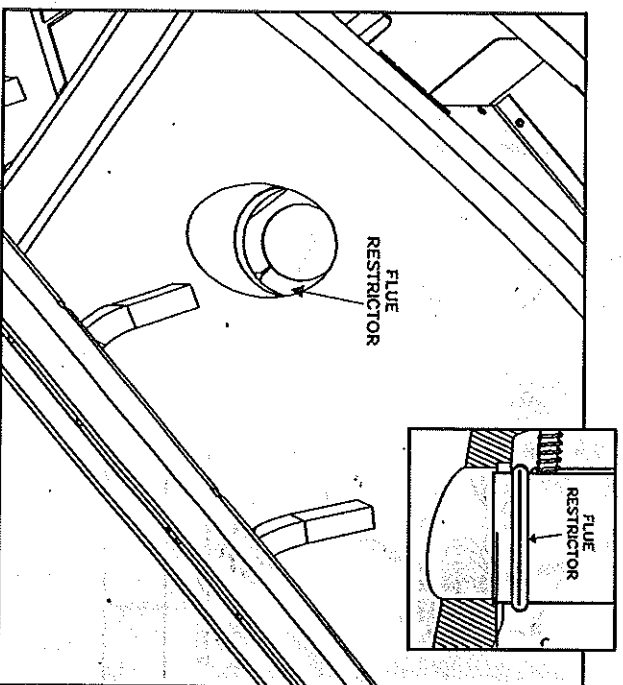
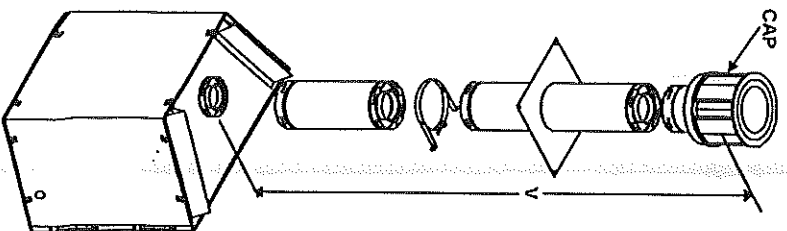


Figure 8

**STRAIGHT UP
VERTICAL VENTING**
V (FT.)
40' MAX. (12.4 M)



NOTE: On vertical venting configurations you may want to install the vertical baffle found in your manual bag.

Figure 7.
Straight Up Vertical Venting

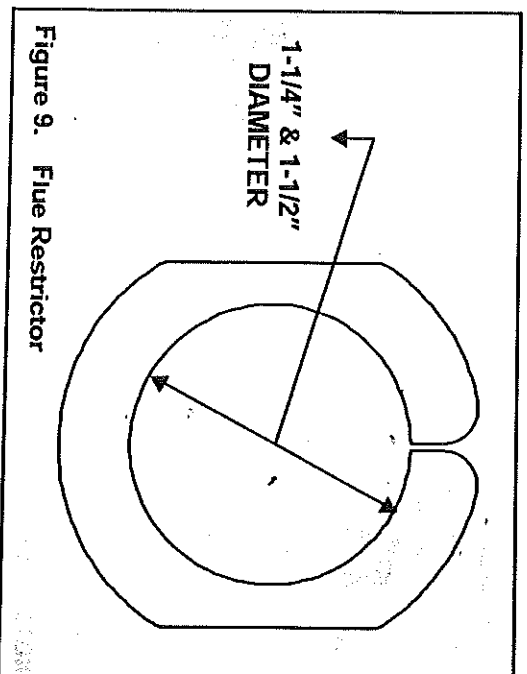


Figure 9. Flue Restrictor

VENTING WITH ONE (1) 90° ELBOW

V (FT.)	H (FT.)
1' MIN. (.305m)	3' MAX. (.912m)
2' MIN. (.610m)	6' MAX. (1.82m)
3' MIN. (.912m)	9' MAX. (2.73m)
4' MIN. (1.22m)	12' MAX. (3.64m)
5' MIN. (1.52m)	15' MAX. (4.55m)
6' MIN. (1.83m)	18' MAX. (5.46m)
7' MIN. (2.13m)	21' MAX. (6.37m)
8' MIN. (2.44m)	24' MAX. (7.28m)
V = 40' MAX. (12.2m)	H = 24' MAX. (7.28m)
V+H = 64' MAX. (19.5m)	

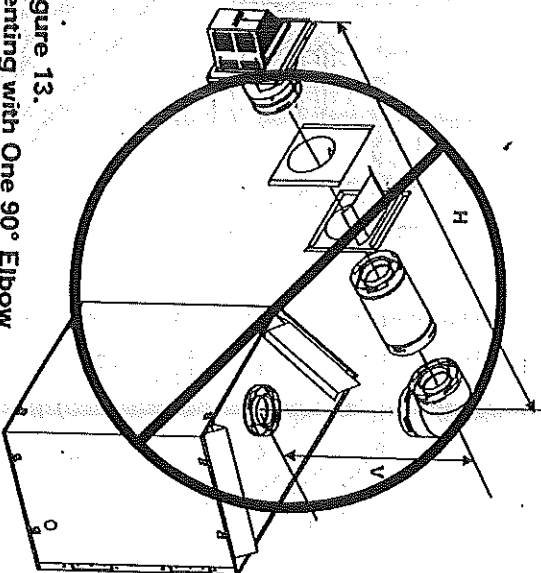
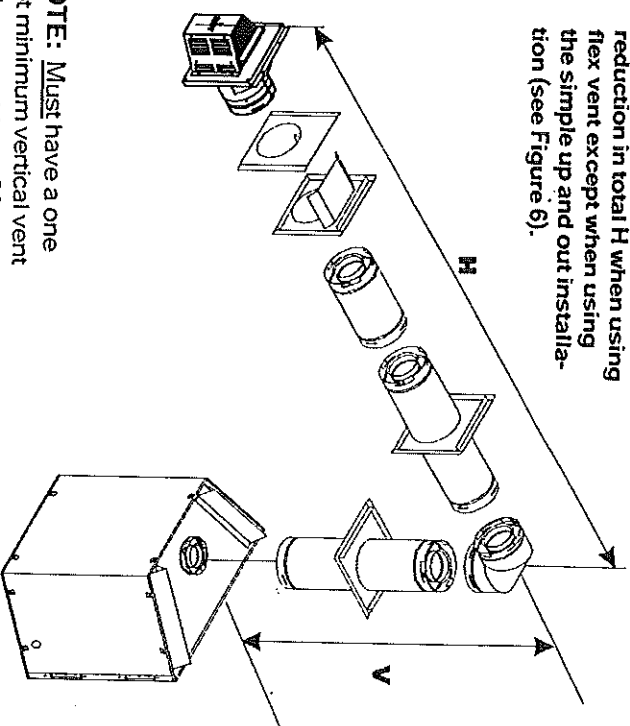


Figure 13.
Venting with One 90° Elbow

NOTE: There MUST be a 25% reduction in total H when using flex vent except when using the simple up and out installation (see Figure 6).



NOTE: Must have a one foot minimum vertical vent before attaching a 90° elbow to the unit.

V FT.

- 1' MIN. (305mm)
- 2' MIN. (610mm)
- 3' MIN. (914mm)
- 4' MIN. (1.22m)

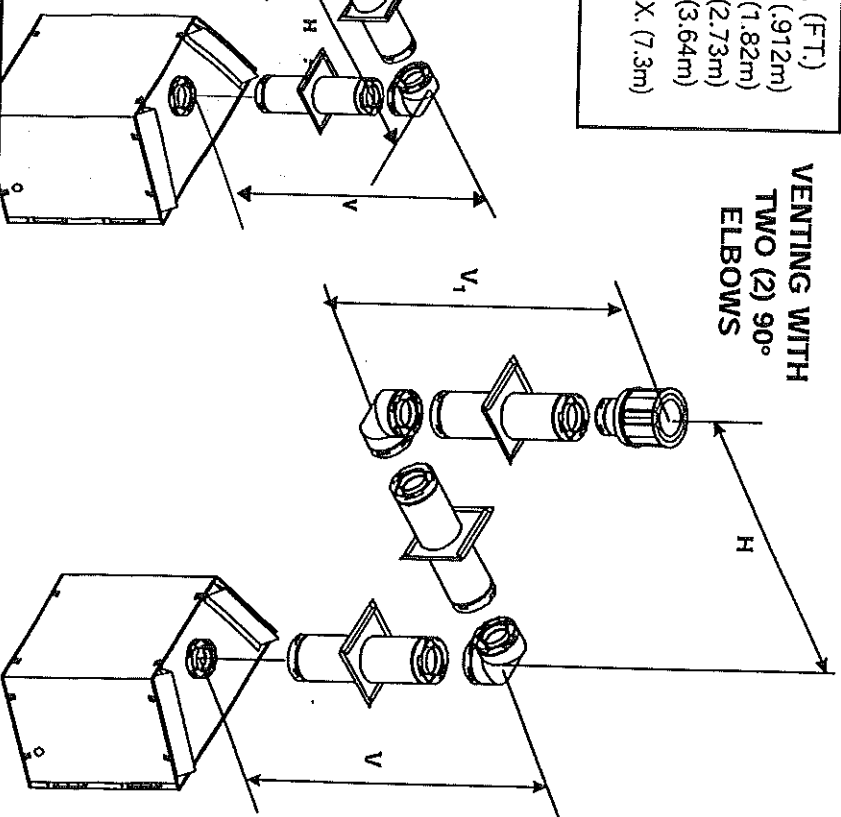
V+H+H₁ = 64' MAX. (19.5m)
V+V₁+H = 64' MAX. (19.5m)

H + H₁ (FT.)

- 3' MAX. (.912m)
- 6' MAX. (1.82m)
- 9' MAX. (2.73m)
- 12' MAX. (3.64m)

H+H₁ = 24' MAX. (7.3m)

VENTING WITH TWO (2) 90° ELBOWS



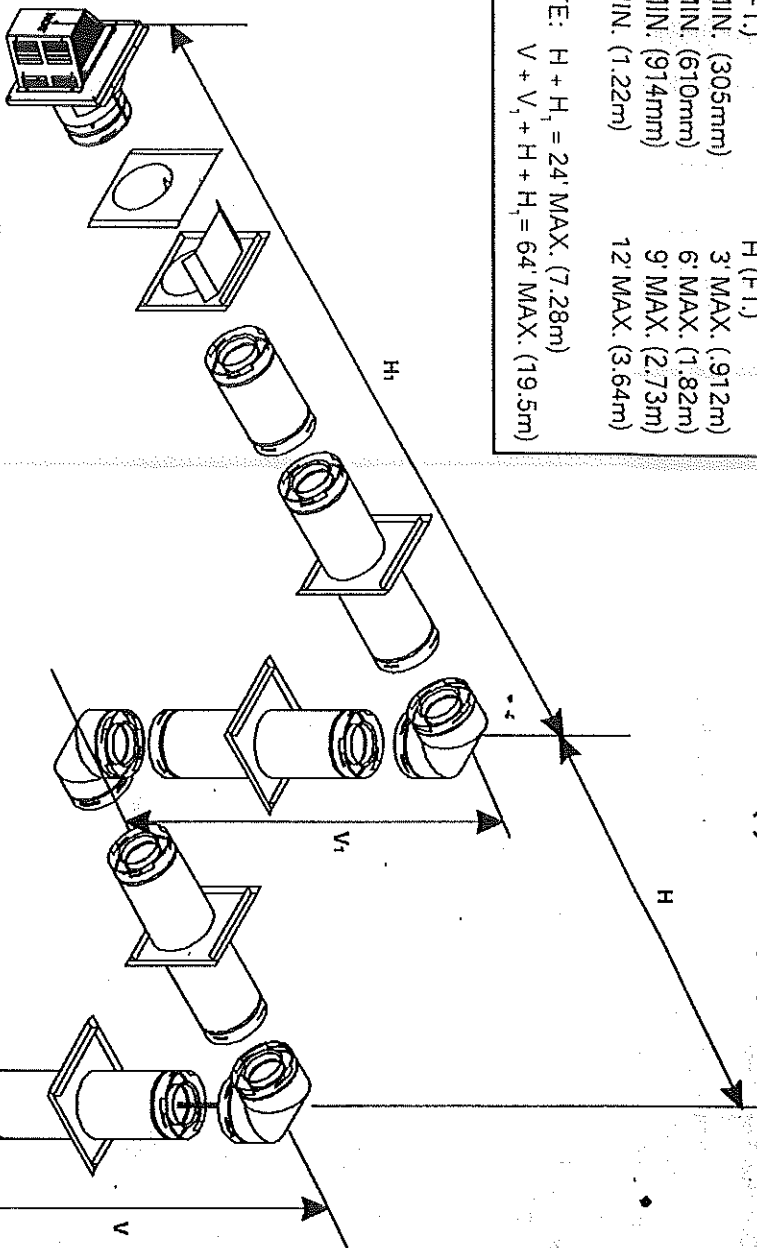
NOTE: There MUST be a 25% reduction in total H when using flex vent except when using the simple up and out installation (see Figure 6).

Figure 15. Venting with Two 90° Elbows

VENTING WITH THREE (3) 90° ELBOWS

V (FT.)	H (FT.)
1' MIN. (305mm)	3' MAX. (.912m)
2' MIN. (610mm)	6' MAX. (1.82m)
3' MIN. (914mm)	9' MAX. (2.73m)
4' MIN. (1.22m)	12' MAX. (3.64m)

NOTE: $H + H_1 = 24'$ MAX. (7.28m)
 $V + V_1 + H + H_1 = 64'$ MAX. (19.5m)



NOTE: There **MUST** be a 25% reduction in total H when using flex vent except when using the simple up and out installation (see Figure 6).

V (FT.)	H + H ₁ (FT.)
1' MIN. (305mm)	3' MAX. (.912m)
2' MIN. (610mm)	6' MAX. (1.82m)
3' MIN. (914mm)	9' MAX. (2.73m)
4' MIN. (1.22m)	12' MAX. (3.64m)

$H + H_1 = 20'$ MAX. (6.2m)
 NOTE: $V + V_1 + H + H_1 = 64'$ MAX. (19.5m)

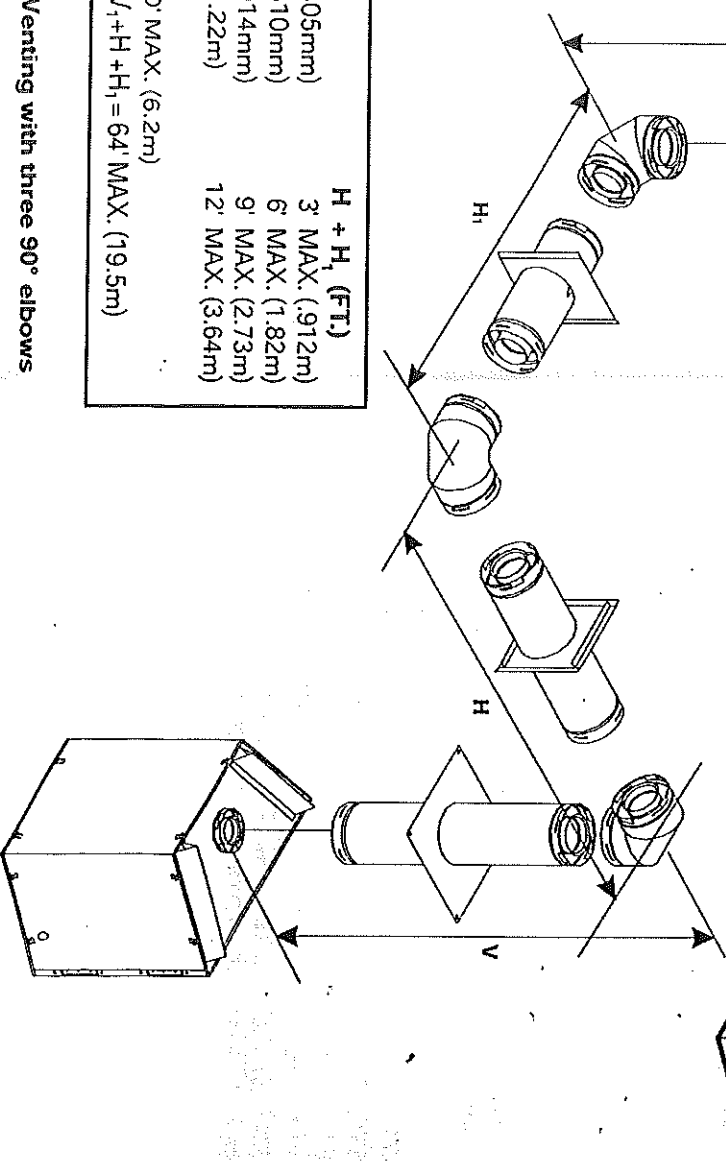


Figure 17. Venting with three 90° elbows

B. Installing Vent Components

Venting Out the Top Vent

The glass must be taken off again for positioning the logs when the unit is finally installed in place and finished around it. Re-install the glass door. Attach vent system to the top starting collars.

1. Attach the First Vent Component to the Starting Collars

To attach the first vent component to the starting collars of the fireplace:

- Apply a 3/8 inch (9.5mm) bead of stove cement around the 5 inch (127mm) fireplace starting collar (see Figure 20).
- Make sure that the fiberglass rope ring supplied in the manual bag seals between the first 8-5/8 inch (219mm) vent component and the outer fireplace wrap (see Figure 19).

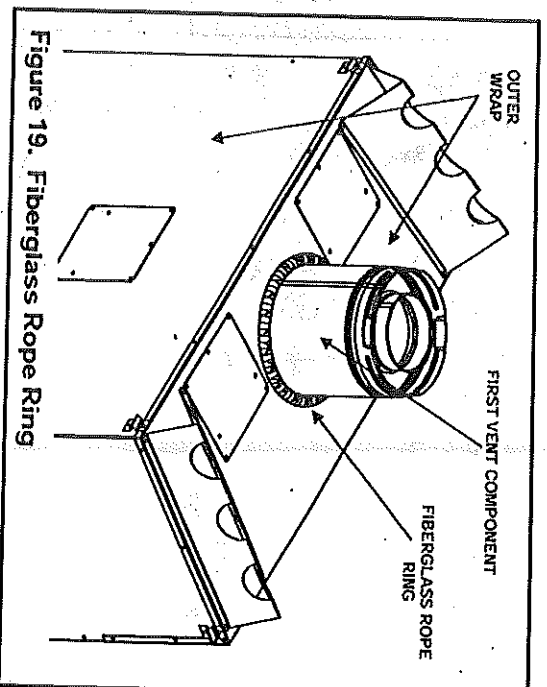


Figure 19. Fiberglass Rope Ring

- Lock the vent components into place by sliding the concentric pipe sections with four (4) equally spaced interior beads into the fireplace collar or previously installed component end with four (4) equally spaced indented sections.
- When the internal beads of each 8-5/8 inch (219mm) outer pipe line up, rotate the pipe section clockwise about one-quarter (1/4) turn. The vent pipe is now locked together.

⚠ WARNING: A 3/8 INCH (9.5 MM) BEAD OF STOVE CEMENT MUST BE PLACED AROUND THE 5 INCH (127 MM) FIREPLACE STARTING COLLAR BEFORE ATTACHING THE FIRST VENT COMPONENT. FAILURE TO SEAL THIS JOINT MAY CAUSE THE FIREPLACE TO OPERATE IMPROPERLY.

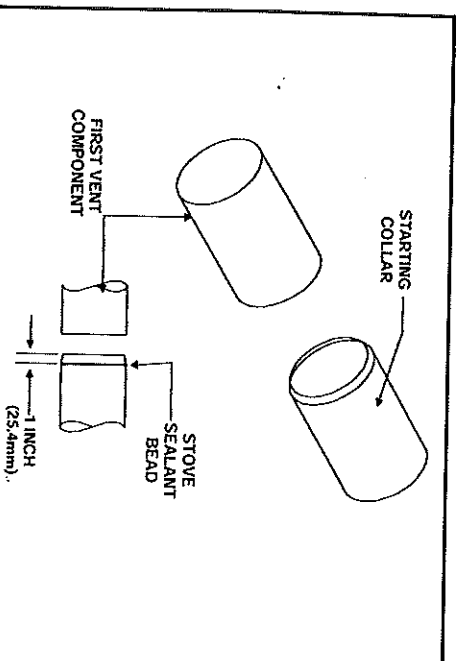


Figure 20. Attaching the First Vent Component to the Starting Collars

⚠ WARNING: ENSURE THAT THE FIBERGLASS GASKET SUPPLIED WITH THE FIREPLACE SEALS BETWEEN THE FIRST VENT COMPONENT AND THE OUTER FIREPLACE WRAP.

If the installation is for a termination cap attached directly to the fireplace, skip to the sections, **Install Firestops and Vent Termination.**

2. Continue Adding Vent Components

- Continue adding vent components, locking each succeeding component into place.
- Ensure that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.
- 90° elbows may be installed and rotated to any point around the preceding component's vertical axis. If an elbow does not end up in a locked position with the preceding component, attach with a minimum of two (2) sheet metal screws.

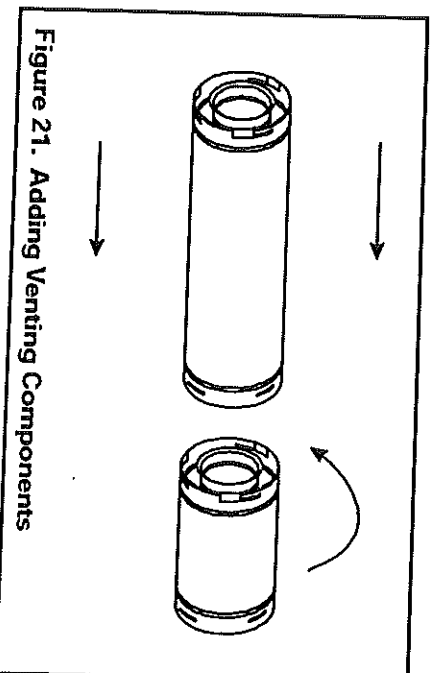


Figure 21. Adding Venting Components

3. Install Support Brackets

For Horizontal Runs - The vent system must be supported every five (5) feet of horizontal run by a horizontal pipe support. To install support brackets for horizontal runs:

- Place the pipe supports around the vent pipe.
- Nail the pipe supports to the framing members.

For Vertical Runs - The vent system must be supported every eight (8) feet (2.4m) above the fireplace flue outlet by wall brackets.

To install support brackets for vertical runs:

- Attach wall brackets to the vent pipe and secure the wall bracket to the framing members with nails or screws.

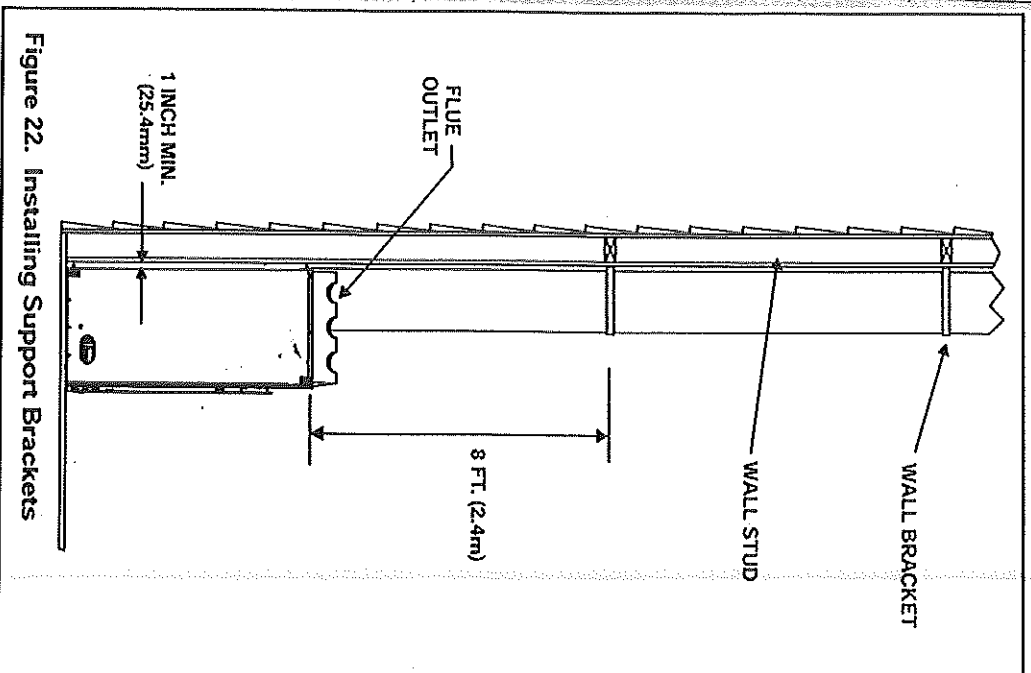


Figure 22. Installing Support Brackets

4. Install Firestops

For Horizontal Runs - Firestops are **REQUIRED** on both sides of a combustible wall through which the vent passes.

NOTE: Model DVK-01TRD does not need an exterior firestop on an exterior combustible wall.

To install firestops for horizontal runs that pass through either interior or exterior walls:

- Cut a 12-inch by 12-inch (305mm X 305mm) hole through the wall.

NOTE: The center of the hole is one (1) inch (25.4mm) above the center of the horizontal vent pipe.

- Position the firestops on both sides of the hole previously cut and secure the firestops with nails or screws.
- The heat shields of the firestops **MUST BE** placed towards the top of the hole.
- Continue the vent run through the firestops.♦

NOTE: There must be NO INSULATION or other combustibles inside the framed firestop opening.

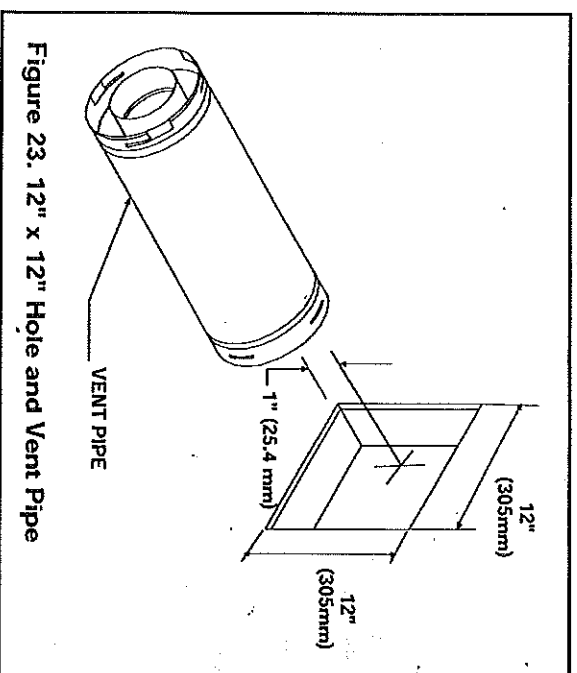


Figure 23. 12" x 12" Hole and Vent Pipe

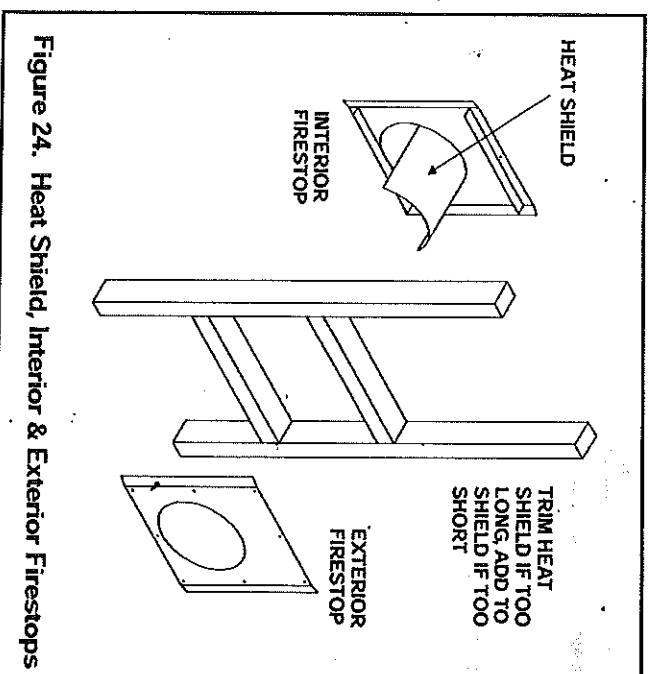


Figure 24. Heat Shield, Interior & Exterior Firestops

For Vertical Runs - One ceiling firestop is **REQUIRED** at the hole in each ceiling through which the vent passes.

To install firestops for vertical runs that pass through ceilings:

- Position a plumb bob directly over the center of the vertical vent component.
- Mark the ceiling to establish the centerpoint of the vent.
- Drill a hole or drive a nail through this centerpoint.
- Check the floor above for any obstructions, such as wiring or plumbing runs.
- Reposition the fireplace and vent system, if necessary, to accommodate the ceiling joists and/or obstructions.
- Cut an 11-inch X 11-inch (280mm X 280mm) hole through the ceiling, using the centerpoint previously marked.
- Frame the hole with framing lumber the same size as the ceiling joists.

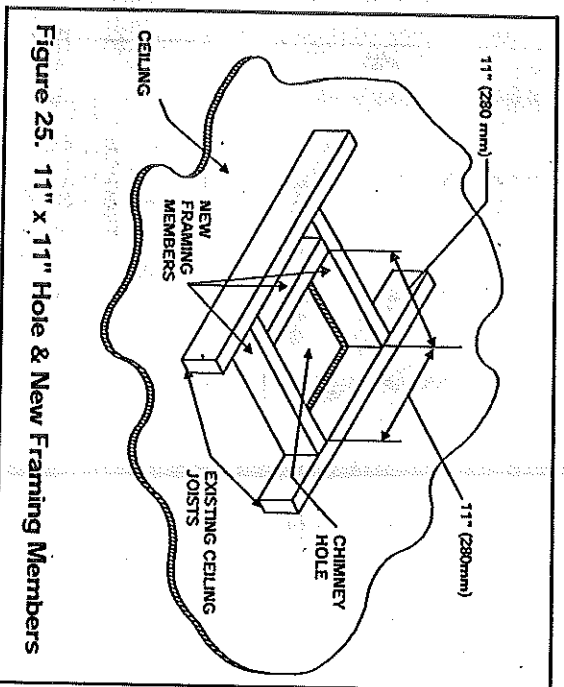


Figure 25. 11" x 11" Hole & New Framing Members

If the area above the ceiling is **NOT** an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole.

NOTE: There must be **NO INSULATION** or other combustibles inside the framed firestop opening.

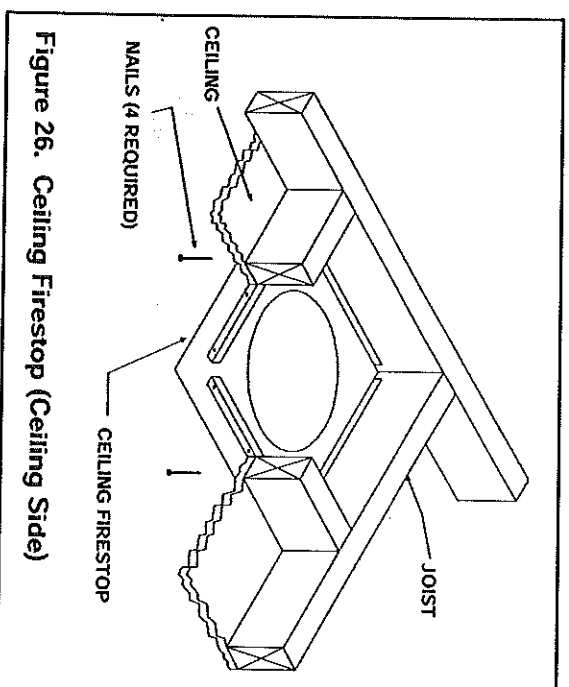


Figure 26. Ceiling Firestop (Ceiling Side)

If the area above the ceiling **IS** an attic, position and secure the firestop on top of the previously framed hole.

NOTE: Keep insulation away from the vent pipe at least 1 inch (25mm).

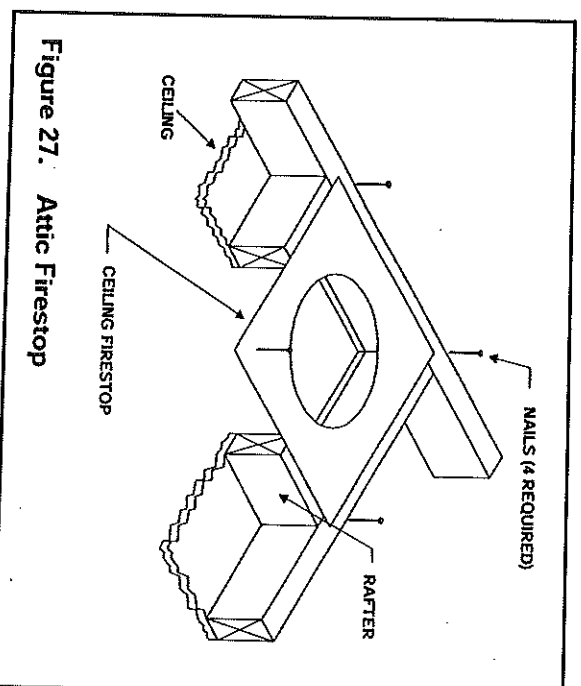


Figure 27. Attic Firestop

C. Vent Termination

For Horizontal Terminations - To attach and secure the termination to the last section of horizontal vent:

- Rotate and interlock the ends as described at the beginning of the Installing Vent Components section.
- The termination kit should pass through the wall firestops from the exterior of the building.
- Adjust the termination cap to its final exterior position on the building.

⚠ WARNING: THE TERMINATION CAP MUST BE POSITIONED SO THAT THE ARROW IS POINTING UP.

For trapezoidal cap termination kits:

- Using screws secure the cap to the exterior wall through the flanges in the cap.

⚠ WARNING: THE BOTTOM OF THE VENT TERMINATION CAP MUST BE A MINIMUM OF 12 INCHES (305 MM) ABOVE GROUND LEVEL (GRADE). THE TOP OF THE CAP MUST BE A MINIMUM OF 18 INCHES (457 MM) BELOW COMBUSTIBLE MATERIAL, SUCH AS A DECK. THE SIDE OF THE CAP MUST BE A MINIMUM OF 6 INCHES (152 MM) AWAY FROM A PARALLEL OUTSIDE WALL. VENTING TERMINALS SHALL NOT BE RECESSED INTO A WALL OR SIDING. SEE THE FOLLOWING DIAGRAM FOR VENT TERMINATION CLEARANCES.

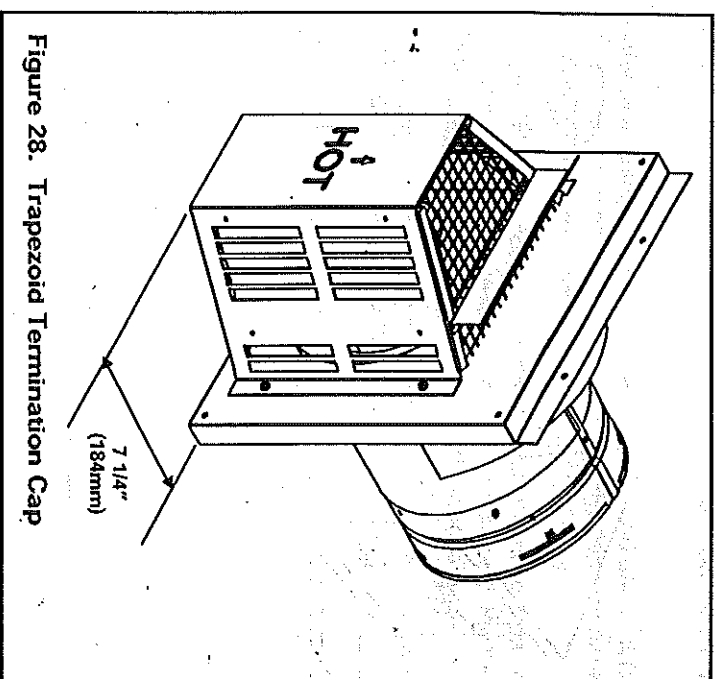
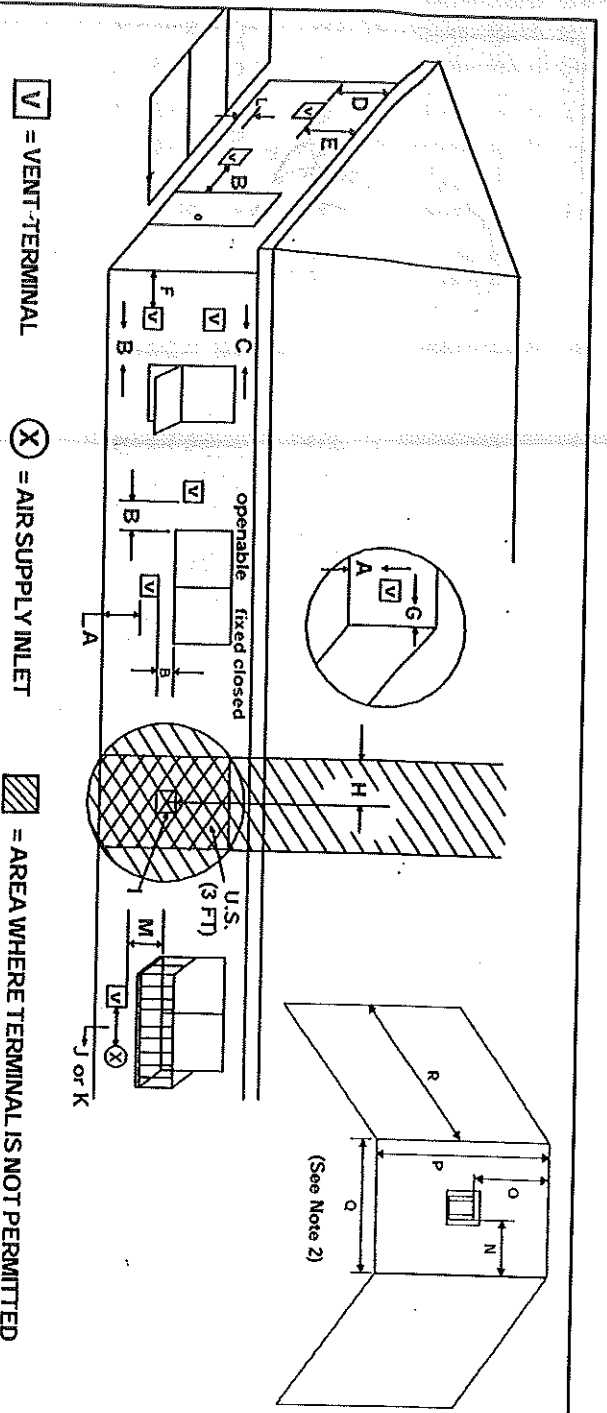


Figure 28. Trapezoid Termination Cap



A	= 12"	clearances above grade, veranda, porch, deck or balcony
B	= 12"	clearances to window or door that may be opened
C	= 9" (U.S.A.) 12" (Canada)	clearance to permanently closed window,
D	= 18"	vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal
E	= 18"	clearance to unventilated soffit
F	= 9"	clearance to outside corner
G	= 6"	clearance to inside corner
H	= 3 ft (Canada)	not to be installed above a gas meter/regulator assembly within 3 feet (90cm) horizontally from the center-line of the regulator
I	= 3 ft (U.S.A.) 6 ft (Canada)	clearance to service regulator vent outlet and electric service

J	= 9" (U.S.A.) 12" (Canada)	clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance
K	= 3 ft (U.S.A.) 6 ft (Canada)	clearance to a mechanical air supply inlet
L	= 7 ft. (See Note 1)	clearance above paved sidewalk or a paved driveway located on public property
M	= 18"	clearance under veranda, porch, deck or balcony
N	= 6"	non-vinyl soffit and siding
O	= 18"	vinyl soffit and siding
P	= 42"	non-vinyl soffit and siding
P	= 8 ft.	vinyl soffit and siding
Q	= 36"	both vinyl and non-vinyl soffit and siding
R	= 2 times "Q" dimension max.	both vinyl and non-vinyl soffit and siding

*** 30" minimum for vinyl clad soffits.**

** 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 2 sides beneath the floor.

NOTE 1: On private property where termination is less than 7 feet above a sidewalk, driveway, deck, porch, veranda or balcony, use of a listed cap shield is suggested.

NOTE 2: Termination in an alcove space (spaces open only on one side and with an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits.

NOTE 3: Local codes or regulations may require different clearances.

WARNING: In the U.S: Vent system termination is **NOT** permitted in screened porches. You must follow side wall, overhang and ground clearances as stated in the instructions.

In Canada: Vent system termination is **NOT** permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow all side walls, overhang and ground clearances as stated in the instructions.

Heat-N-Glo assumes no responsibility for the improper performance of the fireplace when the venting system does not meet these requirements.

Figure 29. Vent Termination Minimum Clearances

CAUTION: IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS NECESSARY TO INSTALL THE VINYL PROTECTOR KIT TO THE TOP OF THE EXTERIOR FIRESTOP (FOR ALL ROUND TERMINATION CAPS). IT IS STRONGLY RECOMMENDED WHENEVER POSSIBLE TO USE THE VINYL PROTECTOR KIT.

Vertical Terminations - To locate the vent and install the vent sections:

- Locate and mark the vent centerpoint on the underside of the roof, and drive a nail through the centerpoint.
- Make the outline of the roof hole around the centerpoint nail.

The size of the roof hole framing dimensions depend on the pitch of the roof. There **MUST BE** a 1-inch (25.4mm) clearance from the vertical vent pipe to combustible materials.

- Mark the roof hole accordingly.
- Cover the opening of the installed vent pipes.
- Cut and frame the roof hole.

Use framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to the frame must withstand heavy winds.

Continue to install concentric vent sections up through the roof hole (for inside vent installations) or up past the roof line until you reach the appropriate distance above the roof (for outside terminations).

WARNING: MAJOR U.S. BUILDING CODES SPECIFY MINIMUM CHIMNEY AND/OR VENT HEIGHT ABOVE THE ROOFTOP. THESE MINIMUM HEIGHTS ARE NECESSARY IN THE INTEREST OF SAFETY. SEE THE FOLLOWING DIAGRAM FOR MINIMUM HEIGHTS, PROVIDED THE TERMINATION CAP IS AT LEAST TWO (2) FEET FROM A VERTICAL WALL AND 2-FEET BELOW A HORIZONTAL OVERHANG.

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

To seal the roof hole, and to divert rain and snow from the vent system:

- Attach a flashing to the roof using nails, and use a non-hardening mastic around the edges of the flashing base where it meets the roof.
- Attach a storm collar over the flashing joint to form a water-tight seal. Place non-hardening mastic around the joint, between the storm collar and the vertical pipe.
- Slide the termination cap over the end of the vent pipe, and rotate the pipe clockwise 1/4 turn.

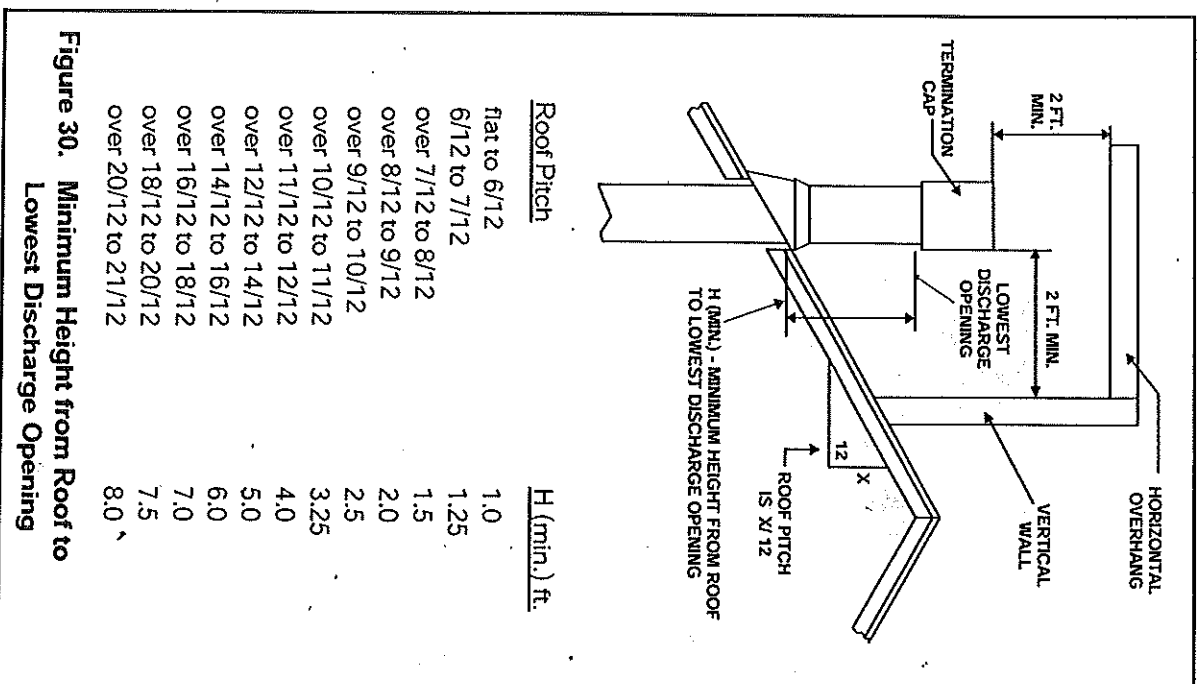


Figure 30. Minimum Height from Roof to Lowest Discharge Opening

Step 4. Positioning, Leveling and Securing the Fireplace

The diagram below shows how to properly position, level, and secure the fireplace.

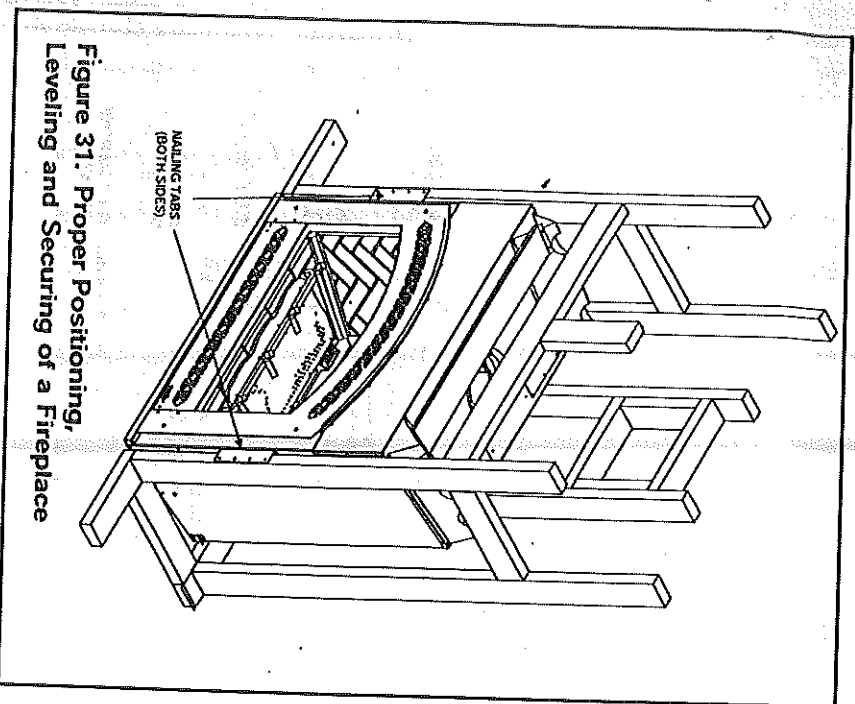


Figure 31. Proper Positioning, Leveling and Securing of a Fireplace

- Place the fireplace into position.
- Level the fireplace from side and front to back.
- Shim the fireplace with non-combustible material, such as sheet metal, as necessary.
- Secure the fireplace to the framing by nailing or screwing.

Step 5. The Gas Control System



WARNING: THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

The type of gas control system used with this model is *Intermittent Pilot Ignition*.

Intermittent Pilot Ignition System

This system includes millivolt control valve, standing pilot thermopile/thermocouple flame sensor, and piezo ignitor.



WARNING: 110-120 VAC MUST NEVER BE CONNECTED TO A CONTROL VALVE IN A MILLIVOLT SYSTEM.



WARNING: CONTINUOUS 110-120 VAC SERVICE MUST BE WIRED DIRECTLY TO THE FIREPLACE JUNCTION BOX.

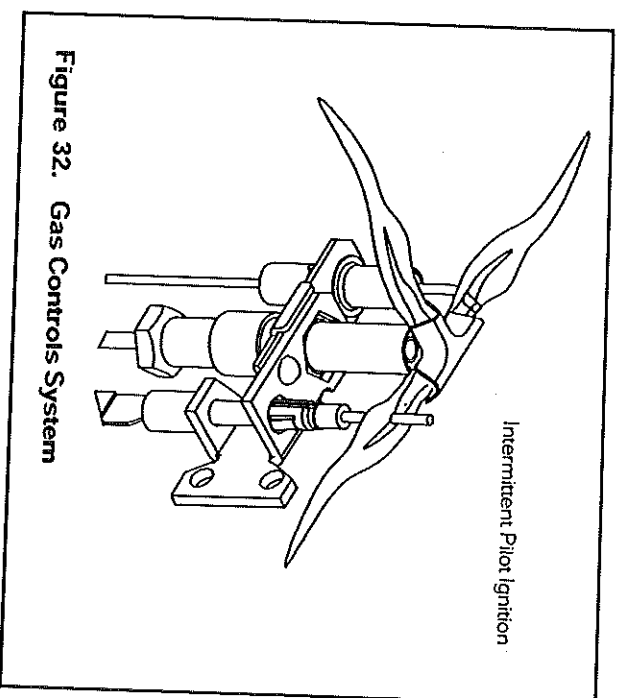


Figure 32. Gas Controls System

Step 6. The Gas Supply Line

NOTE: Have the gas supply line installed in accordance with local building codes by a qualified installer approved and/or licensed as required by the locality. (In the state of Massachusetts installation must be performed by a licensed plumber or gas fitter).

NOTE: Before the first firing of the fireplace, the gas supply line should be purged of any trapped air.

NOTE: Consult local building codes to properly size the gas supply line leading to the 1/2 inch (13mm) hook-up at the unit.

This gas fireplace is designed to accept a 1/2 inch (13 mm) gas supply line. To install the gas supply line:

- A listed (and State of Massachusetts approved) 1/2 inch (13mm) tee-handle manual shut-off valve and a listed flexible gas connector are connected to the 1/2 inch (13mm) inlet of the control valve. **NOTE:** If substituting for these components, please consult local codes for compliance.
- Locate the gas line access hole in the outer casing of the fireplace.
- The gas line may be run from either side of the fireplace provided the hole in the outer wrap does not exceed 2 1/2" in diameter and it does not penetrate the actual firebox.
- The gap between the supply piping and gas access hole can be plugged with non-combustible insulation to prevent cold air infiltration.
- Open the fireplace lower grille, insert the gas supply line through the gas line hole, and connect it to the shut-off valve.
- When attaching the pipe, support the control so that the lines are not bent or torn.
- After the gas line installation is complete, use a soap solution to carefully check all gas connections for leaks.

⚠ WARNING: DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS

- At the gas line access hole, use insulation to re-pack the space around the gas pipe.
- Insert insulation from the outside of the fireplace and pack the insulation tightly to totally seal between the pipe and the outer casing.

Step 7. Gas Pressure Requirements

Pressure requirements for Heat-N-Glo gas fireplaces are shown in the table below.

Pressure	Natural Gas	Propane
Minimum Inlet Pressure	5.0 inches w.c.	11.0 inches w.c.
Maximum Inlet Gas Pressure	14.0 inches w.c.	14.0 inches w.c.
Manifold Pressure	3.5 inches w.c.	10.0 inches w.c.

A one-eighth (1/8) inch (3 mm) N.P.T. plugged tapping is provided on the inlet and outlet side of the gas control for a test gauge connection to measure the manifold pressure. Use a small flat blade screwdriver to crack open the screw in the center of the tap. Position a rubber hose over the tap to obtain the pressure reading.

The fireplace and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of one-half (1/2) psig (3.5 kPa).

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

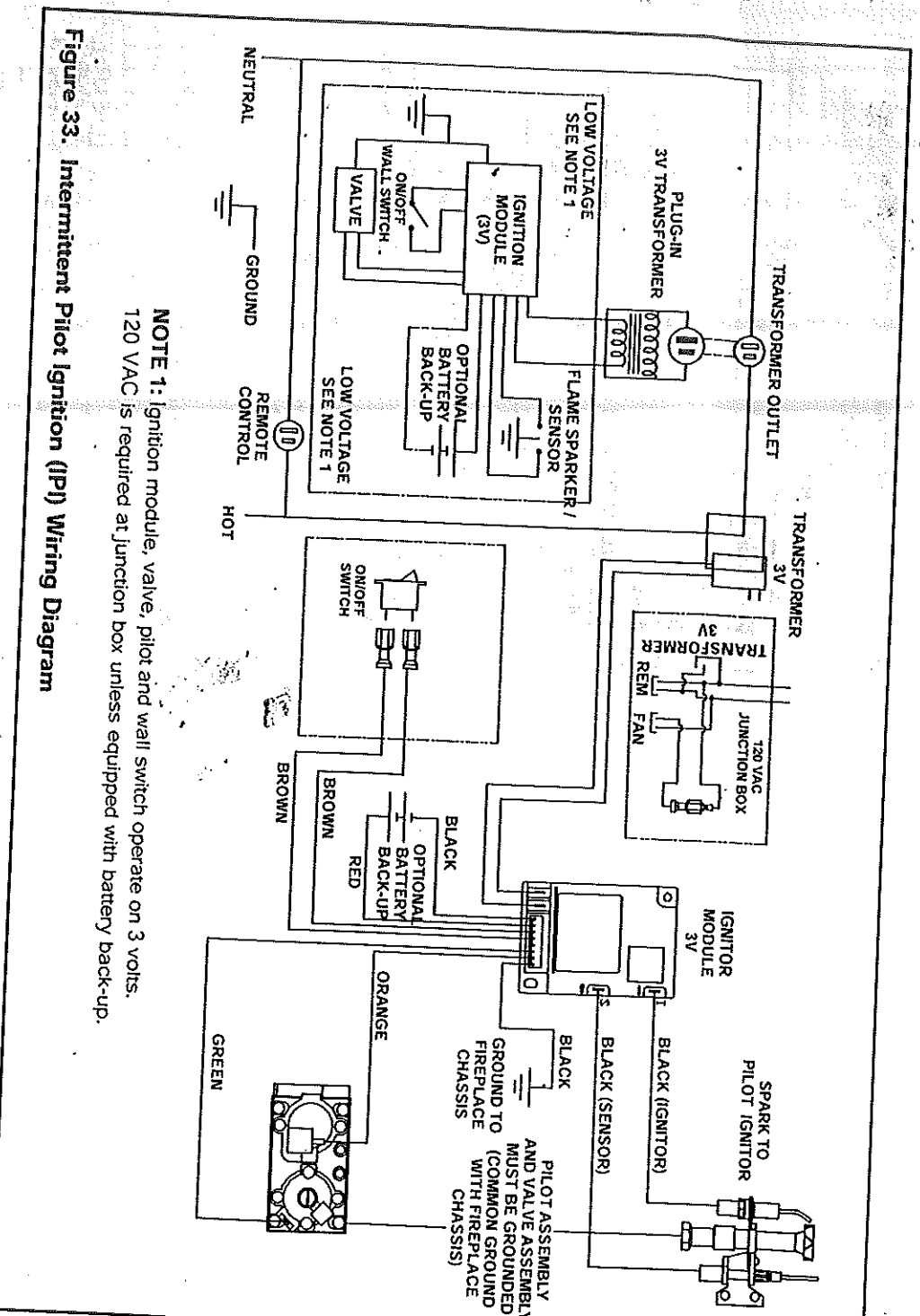


Figure 33. Intermittent Pilot Ignition (IPI) Wiring Diagram

NOTE 1: Ignition module, valve, pilot and wall switch operate on 3 volts. 120 VAC is required at Junction box unless equipped with battery back-up.

Step 8. Wiring the Fireplace

Intermittent Pilot Ignition (IPI) Wiring

3 Volt Transformer

This appliance comes with a 3 volt transformer found in the manual bag. Plug the transformer leads to the green control module (see Figure 33). Then plug the transformer into the side outlet on the junction box.

Appliance Requirements

This appliance requires that 110-120 VAC be wired to the factory installed junction box. Maintain correct polarity when wiring the junction box.

⚠ WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR THE APPLIANCE WILL MALFUNCTION AND THE VALVE WILL BE DESTROYED

Optional Accessories

Optional remote control kits require that 110-120 VAC be wired to the factory installed junction box before the fireplace is permanently installed.

Heat-Zone and Heat-Out kits are approved with this fireplace as heat management accessories.

Wall Switch

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

⚠ WARNING: DO NOT CONNECT 110-120 VAC TO THE WALL SWITCH OR THE CONTROL VALVE WILL BE DESTROYED.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING

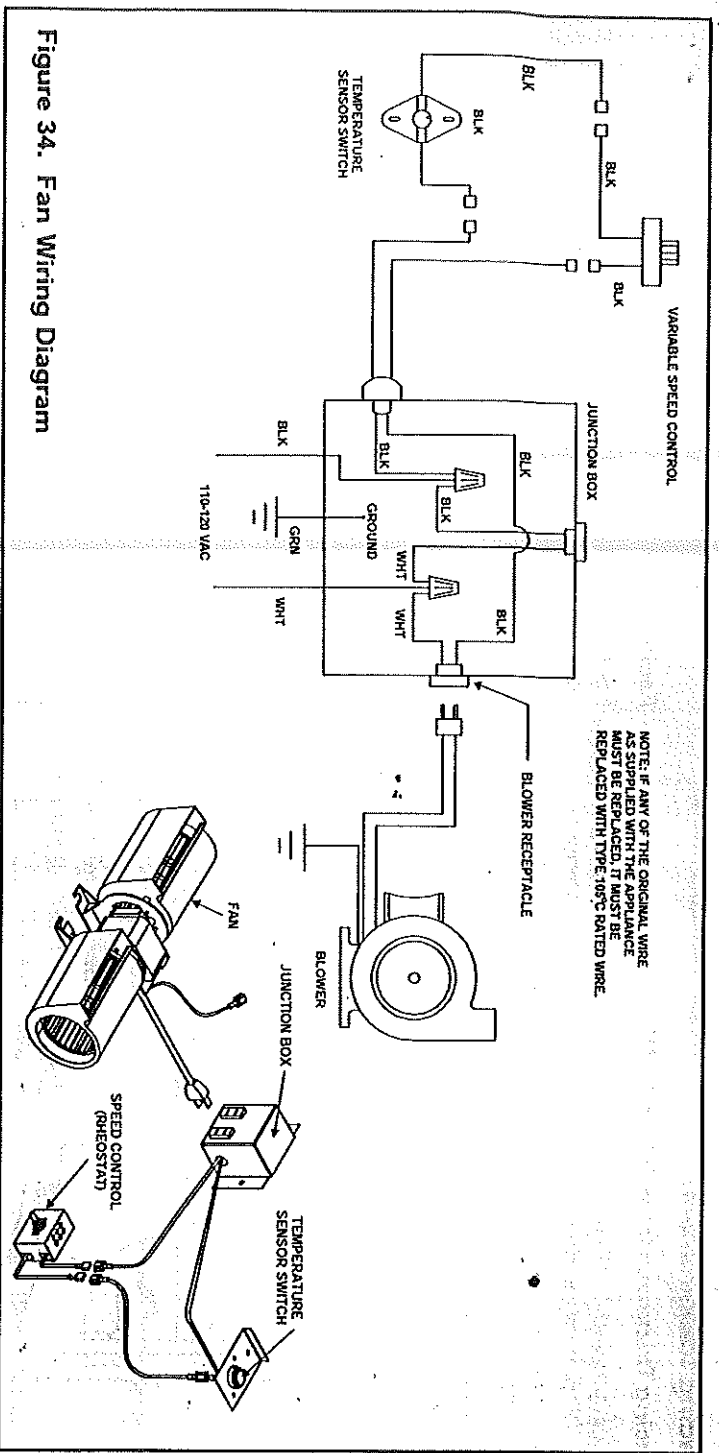


Figure 34. Fan Wiring Diagram

Step 9. Finishing

Figure 34 shows the minimum vertical and corresponding maximum horizontal dimensions of fireplace mantels or other combustible projections above the top front edge of the fireplace. See Figures 2 and 3 for other fireplace clearances. Only non-combustible materials may be used to cover the black fireplace front.

WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR IN-LET/OUTLET GRILLES IN ANY MANNER.

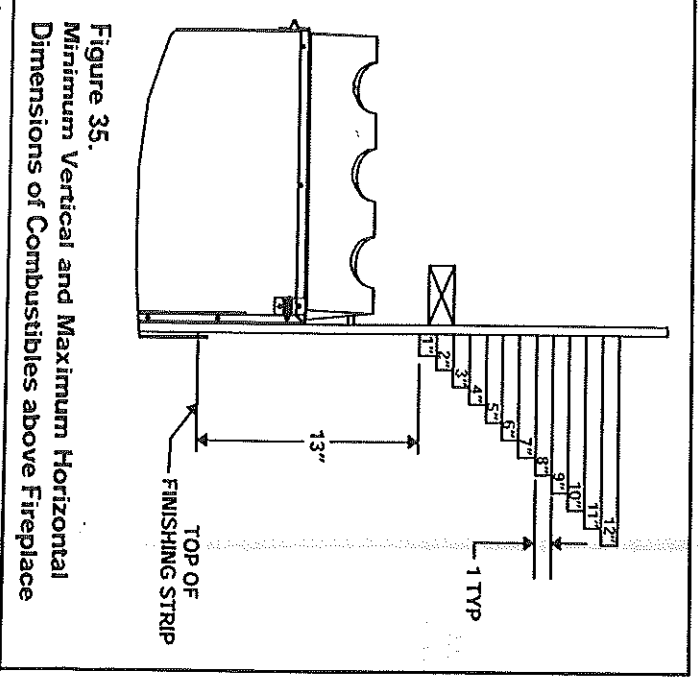
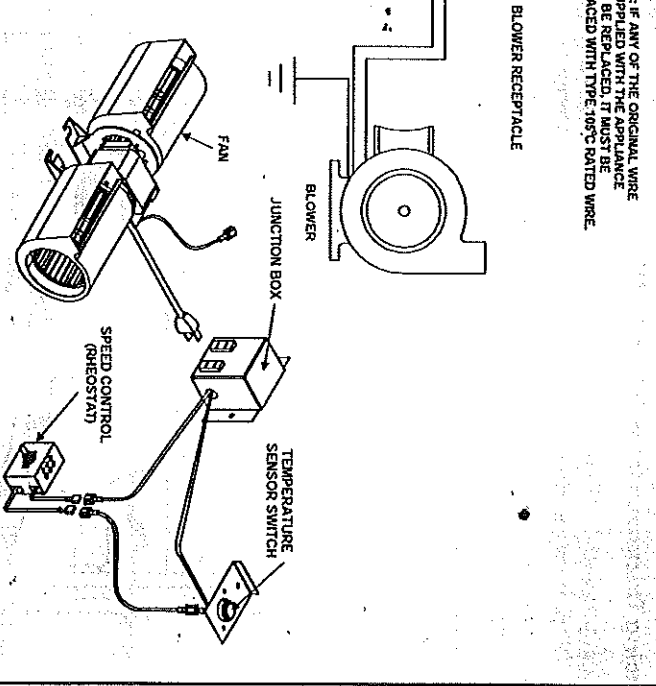


Figure 35. Minimum Vertical and Maximum Horizontal Dimensions of Combustibles above Fireplace

Note: There are 3 metal tabs holding the non-combustible board in place for shipping. These tabs are to be cut off or bent back before finishing around the fireplace front.



CAUTION: IF JOINTS BETWEEN THE FINISHED WALLS AND THE FIREPLACE SURROUND (TOP AND SIDES) ARE SEALED, A 300° F. MINIMUM SEALANT MATERIAL MUST BE USED. THESE JOINTS ARE NOT REQUIRED TO BE SEALED. ONLY NON-COMBUSTIBLE MATERIAL (USING 300° F. MINIMUM ADHESIVE, IF NEEDED) CAN BE APPLIED AS FACING TO THE FIREPLACE SURROUND. SEE THE DIAGRAM BELOW.

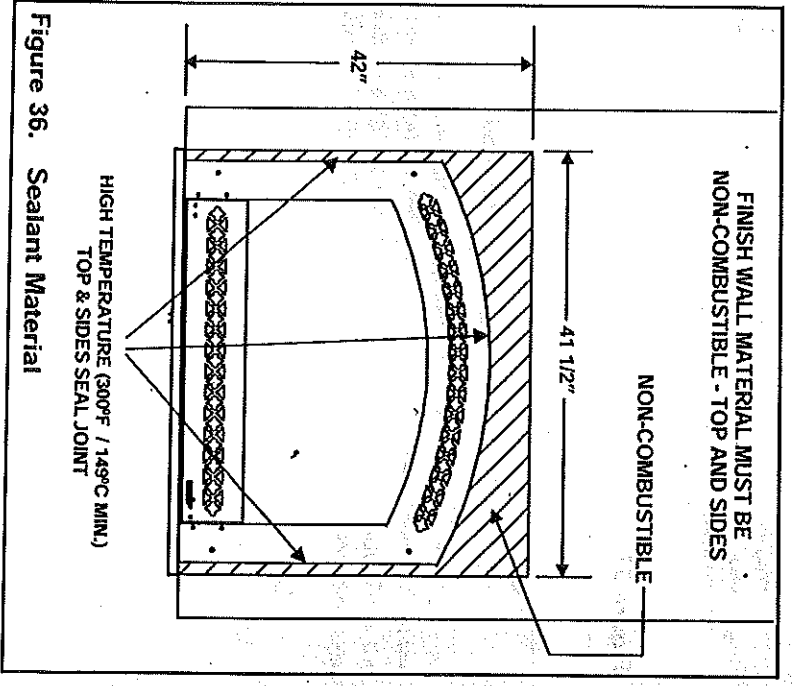


Figure 36. Sealant Material

Hearth Extensions

A hearth extension may be desirable for aesthetic reasons. However, ANSI or CAM/CGA testing standards do not require hearth extensions for gas fireplace appliances.

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Facing Requirements

Facing Thickness from 3/4" to 1-1/4"

Facing material within this thickness range can be brought to 1/2" behind the door top and sides. These non-combustible finishing materials must never overlap or obstruct the air outlet/inlet grille areas.

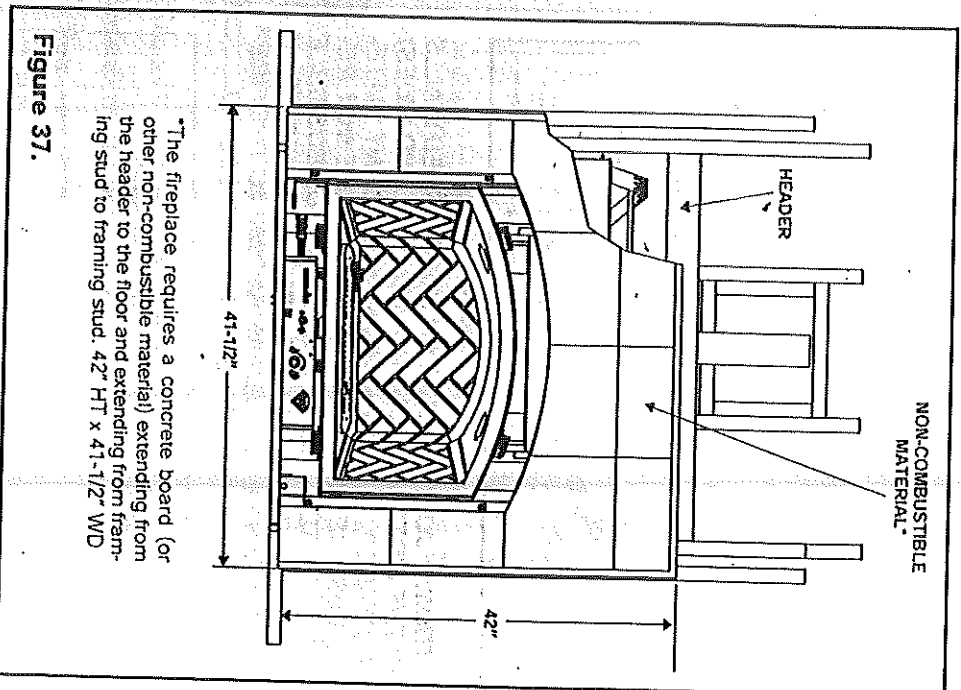


Figure 37.

*The fireplace requires a concrete board (or other non-combustible material) extending from the header to the floor and extending from framing stud to framing stud. 42" HT x 41-1/2" WD

Facing Thickness greater than 1-1/4"
 For facing material greater than 1-1/4" a template should be constructed to provide the finishers with a guide so as to leave a 1/8" gap between the finishing materials and the door. See Figure 38 to construct the facing template.

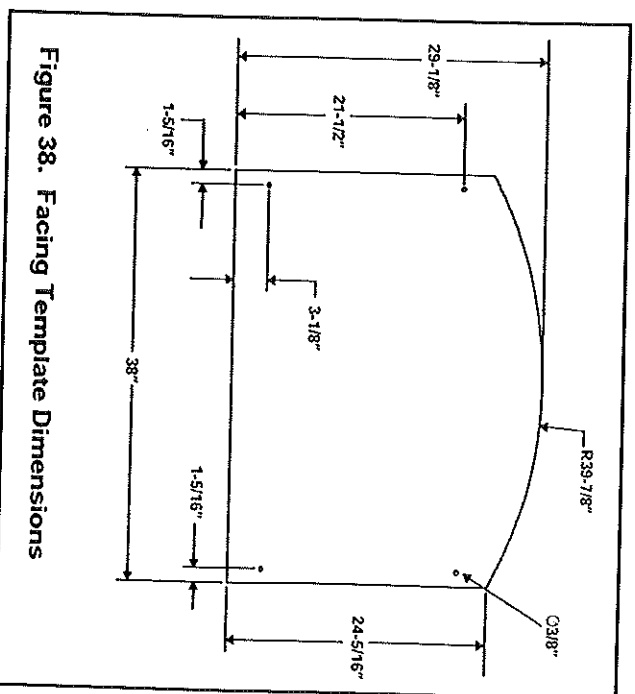


Figure 38. Facing Template Dimensions

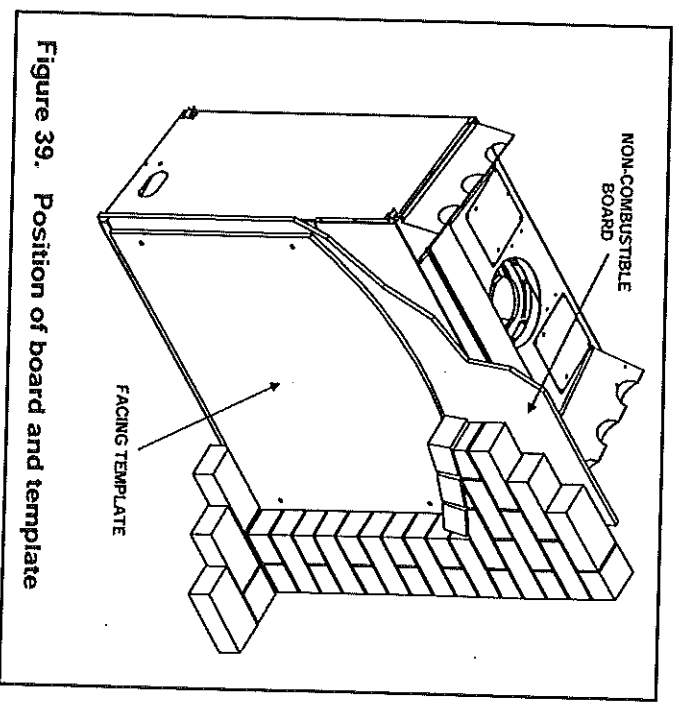


Figure 39. Position of board and template

Step 10. Installing Trim, Logs, and Ember Material

Installing the Trim

Combustible materials may be brought up to the specified clearances on the side and top front edges of the fireplace, but **MUST NEVER** overlap onto the front face. The joints between the finished wall and the fireplace top and sides can only be sealed with a 300° F. (149° C) minimum sealant.

WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.

Install optional marble and brass trim surround kits as desired. Marble, brass, brick, tile, or other non-combustible materials can be used to cover up the gap between the sheet rock and the fireplace.

Do not obstruct or modify the air inlet/outlet grilles. When overlapping on both sides, leave enough space so that the bottom grille can be lowered and the trim door removed.

Positioning the Logs

If the gas logs have been factory installed they should not need to be positioned. If the logs have been packaged separately, refer to the instructions that accompany the logs. **Save the log instructions with this manual.**

If sooting occurs, the logs might need to be repositioned slightly to avoid excessive flame impingement.

Placing the Ember Material

Ember material is shipped with this gas fireplace. To place the ember material:

- Pull the four glass latches out of the groove on the glass frame. Remove glass door from the unit (see Figure 40).
- Embers **CANNOT** be placed directly over ports. Care should be taken not to cover the lighting trail of ports (from back to front).
- When placing embers onto the burner care should be taken so that the ports are not covered. Place the embers along side the port trail, but not on or in between the ports. Failure to follow this procedure will likely cause lighting and sooting problems.
- Save the remaining ember materials for use during fireplace servicing.
- Replace the glass door and a front trim door on the unit.
- Pull out and latch the glass clips into the groove on the glass frame.

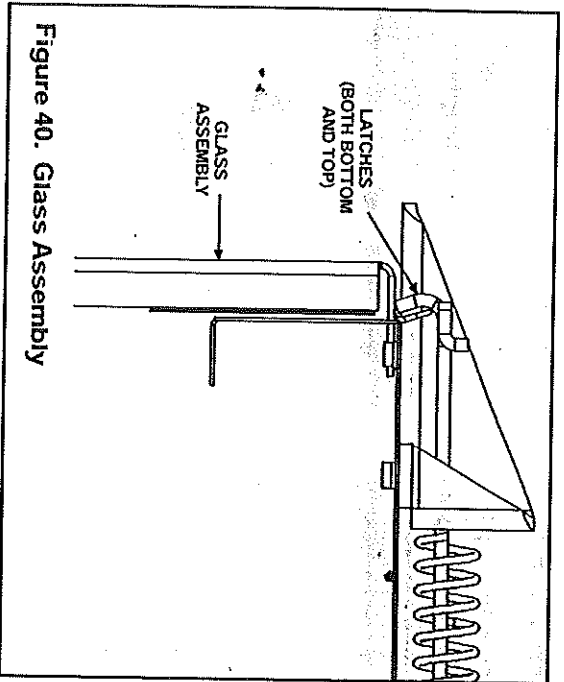


Figure 40. Glass Assembly

Glass Specifications:

GEM36: 24 1/2 X 35 1/2 CERAMIC

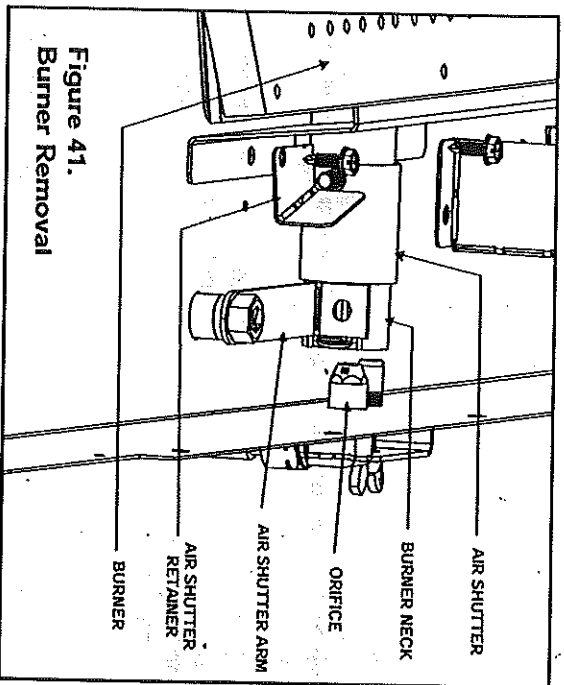


Figure 41. Burner Removal

Burner Removal

Remove two screws as shown in Figure 41. Remove air shutter retainer. Slide air shutter arm toward the front of the fireplace to disengage it from the air shutter stud. Now the burner can be slid forward and out. To reinstall reverse these steps.

Step 11. Before Lighting the Fireplace

Before lighting the fireplace, be sure to do the following:

Remove all paperwork from underneath the fireplace.

Review safety warnings and cautions

- Read the **Safety and Warning Information** section at the beginning of this *Installers Guide*.

Double-check for gas leaks

- Before lighting the fireplace, double-check the unit for possible gas leaks.

Double-check vent terminations and front grilles for obstructions.

- Before lighting the fireplace, double-check the unit for possible obstructions that could be blocking the vent terminations or the front grilles.

Double-check for faulty components

- Any component that is found to be faulty **MUST BE** replaced with an approved component. Tampering with the fireplace components is **DANGEROUS** and voids all warranties.

A small amount of air will be in the gas supply lines. When first lighting the fireplace, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the fireplace will light and will operate normally.

Subsequent lightings of the fireplace will not require this purging of air from the gas supply lines, **unless the gas valve has been turned to the OFF position**, in which case the air would have to be purged.

NOTE: The fireplace should be run 3 to 4 hours on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Replace the glass and run the fireplace for an additional 8 hours. This will help to cure the chemicals used in the paint and logs.

Air Shutter Setting

This fireplace has an adjustable air shutter (which controls the primary air) factory set for the minimum vertical vent run (see Figure 42). If your installation has more than the minimum required vertical vent length, adjustment of the air shutter may be necessary to obtain optimal flame

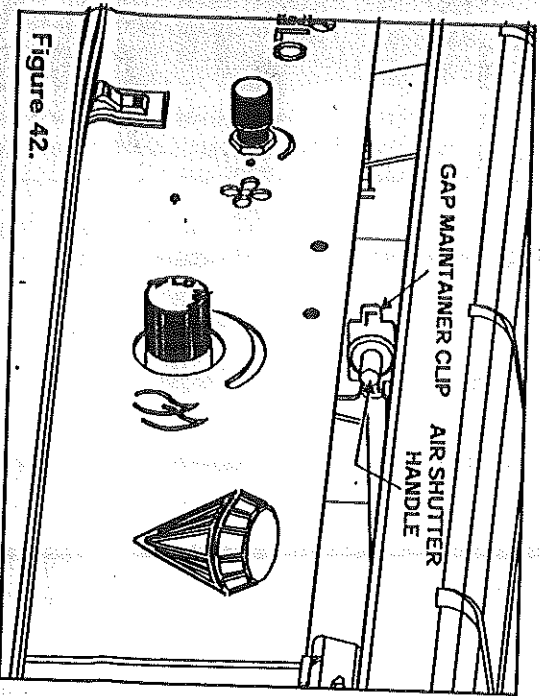


Figure 42.

appearance. This should be adjusted by a qualified installer at the time of installation.

The air shutter handle has a gap maintainer clip factory installed which needs to be removed to make any adjustments. By pushing the air shutter handle in, you will be closing the air shutter. Care should be taken when adjusting the air shutter so as not to cause the fireplace to sputter. If sputtering occurs the air shutter will need to be opened by pulling the handle out.

Step 12. Lighting the Fireplace

You've reviewed all safety warnings, you've checked the fireplace for gas leaks, you know the vent system is unobstructed, and you've checked for faulty components. Now you're ready to light the fireplace.

! WARNING: PLEASE REFER TO THE USER'S MANUAL FOR ALL CAUTIONS, SAFETY, AND WARNING INFORMATION PERTAINING TO THE LIGHTING AND OPERATION OF THE FIREPLACE.

Step 13 Climate Control

This model is equipped with a baffle which will allow you to control the usable heat output. The baffle control lever is located at the lower left corner of the unit behind the lower grille.

MORE HEAT: Pull handle down and push back to close the damper.

LESS HEAT: Pull handle forward and push up to open the damper.

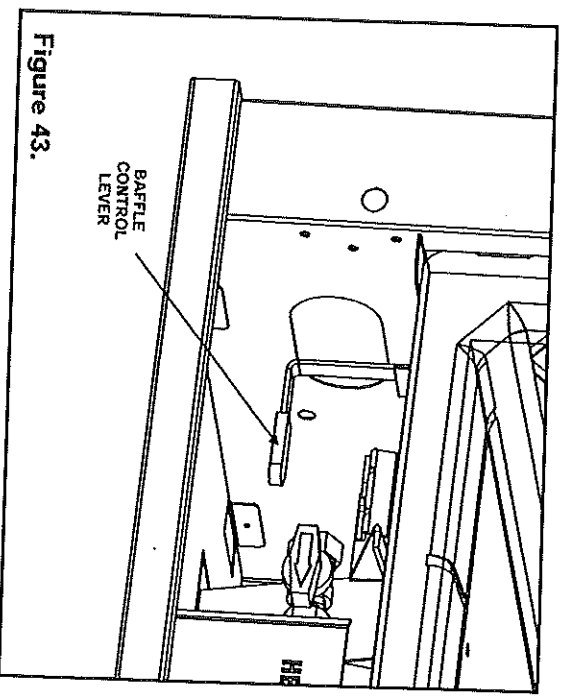


Figure 43.

After the Installation

! LEAVE THIS INSTALLATION MANUAL WITH THE APPLIANCE FOR FUTURE REFERENCE.

4

Maintaining and Servicing Your Fireplace

Fireplace Maintenance

Although the frequency of your fireplace servicing and maintenance will depend on use and the type of installation, you should have a qualified service technician perform an appliance check-up at the beginning of each heating season. See the table below for specific guidelines regarding each fireplace maintenance task.

IMPORTANT: TURN OFF THE GAS BEFORE SERVICING YOUR FIREPLACE.

Replacing old ember material

Frequency: Once annually, during the checkup.

By: Qualified service technician.

Task: Brush away loose ember material near the burner. Replace old ember material with new dime-size and shape pieces. Save the remaining ember material and repeat this procedure at your next servicing. For more information, see **Placing Ember Material.**

Cleaning Burner and Controls

Frequency: Once annually.

By: Qualified service technician.

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

Checking Flame Patterns, Flame Height

Frequency: Periodically.

By: Qualified service technician/Home owner.

Task: Make a visual check of your fireplace's flame patterns. Make sure the flames are steady - not lifting or floating. The thermopile/thermocouple tips should be covered with flame. See Figure 32.

Checking Vent System

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

By: Qualified service technician/Home owner.

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

Cleaning Glass Door

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

By: Home owner.

Task: Remove and clean glass after the first 3 to 4 hours of use. After the initial cleaning, clean as necessary, particularly after adding new ember (flame colorant) material. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner. **NOTE: DO NOT handle or attempt to clean the door when it is hot and DO NOT use abrasive cleaners.**

ELECTRICAL PERMIT

City of Portland, Me.



To the Chief Electrical Inspector, Portland Maine:
 The undersigned hereby applies for a permit to make electrical installations
 in accordance with the laws of Maine, the City of Portland Electrical Ordinance,
 National Electrical Code and the following specifications:

Date 8.15.06

Permit # 2886-4743

CBL# 397 C6

LOCATION: 752 Allen Ave. METER MAKE & # _____
 CMP ACCOUNT # _____ OWNER Tom Callaghan
 TENANT Tom Callaghan PHONE # _____

						TOTAL EACH FEE
OUTLETS	Receptacles	Switches	Smoke Detector			.20
FIXTURES	Incandescent	Fluorescent	Strips			.20
SERVICES	Overhead	Underground	TTL AMPS	<800		15.00
	Overhead	Underground	TTL AMPS	>800		25.00
Temporary Service	Overhead	Underground	TTL AMPS			25.00
METERS	(number of)					25.00
MOTORS	(number of)					1.00
RESID/COM	Electric units					2.00
HEATING	oil/gas units	Interior	Exterior			1.00
APPLIANCES	Ranges	Cook Tops	Wall Ovens			5.00
	Insta-Hot	Water heaters	Fans			2.00
	Dryers	Disposals	Dishwasher			2.00
	Compactors	Spa	Washing Machine			2.00
	Others (denote)					2.00
MISC. (number of)	Air Cond/win		Pools			3.00
	Air Cond/cent		Thermostat			10.00
	HVAC	EMS				5.00
	Signs					10.00
	Alarms/res					5.00
	Alarms/com					5.00
	Heavy Duty(CRKT)					15.00
	Circus/Carnv					2.00
	Alterations					25.00
	Fire Repairs					5.00
	E Lights					15.00
	E Generators					1.00
						20.00
PANELS	Service	Remote				4.00
TRANSFORMER	0-25 Kva					5.00
	25-200 Kva					5.00
	Over 200 Kva					8.00
						10.00
	MINIMUM FEE/COMMERCIAL 55.00		TOTAL AMOUNT DUE			45.00
			MINIMUM FEE			

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 EM. UNIT # 11183
 NOTICE

100A overhead service upgrade

CONTRACTORS NAME James Vaccaro MASTER LIC. # _____
 ADDRESS 52 Quebec St. Portland, Me. LIMITED LIC. # LM10016391
 TELEPHONE 318-9549
 SIGNATURE OF CONTRACTOR James Vaccaro

White Copy Office • Yellow Copy - Applicant

[Handwritten Signature]