



**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.**



U.S. PATENTS 5,000,612; 4,875,464 AND PATENTS PENDING

MODEL SL-3000 Installation and Operation Instructions



**A.G.A. Design Certified
and
CGA Certified**



**THIS MANUAL MUST BE USED FOR INSTALLATION AND
RETAINED BY HOMEOWNER FOR OPERATION AND MAINTENANCE.**

**Heat-N-Glo Fireplace Products, Inc.
6665 West Highway 13, Savage, MN 55378**

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

INSTALLATION AND OPERATION INSTRUCTIONS

PLEASE READ THIS MANUAL BEFORE INSTALLING AND USING THE FIREPLACE.

MODEL SL-3000 is A.G.A DESIGN CERTIFIED AND CGA CERTIFIED FOR NATURAL GAS OR PROPANE AS GRAVITY-TYPE DIRECT VENT WALL FURNACES.

Requires one of the following vent terminations for installation:

SLK-01D	HORIZONTAL TERMINATION
SLK-991DA	VERTICAL TERMINATION

1. This appliance may be installed in an aftermarket, 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.

FOR YOUR SAFETY

What to do if you smell gas:

- Extinguished any open flame.
- Do not 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.

FOR YOUR SAFETY:

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

WARNING: IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any 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.

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

IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these installation instructions may result in a possible fire hazard and will void the warranty.

Please contact your Heat-N-Glo dealer for any questions or concerns. For the number of your nearest Heat-N-Glo dealer, please call 1-612-890-8367.

Save this Manual for future reference.

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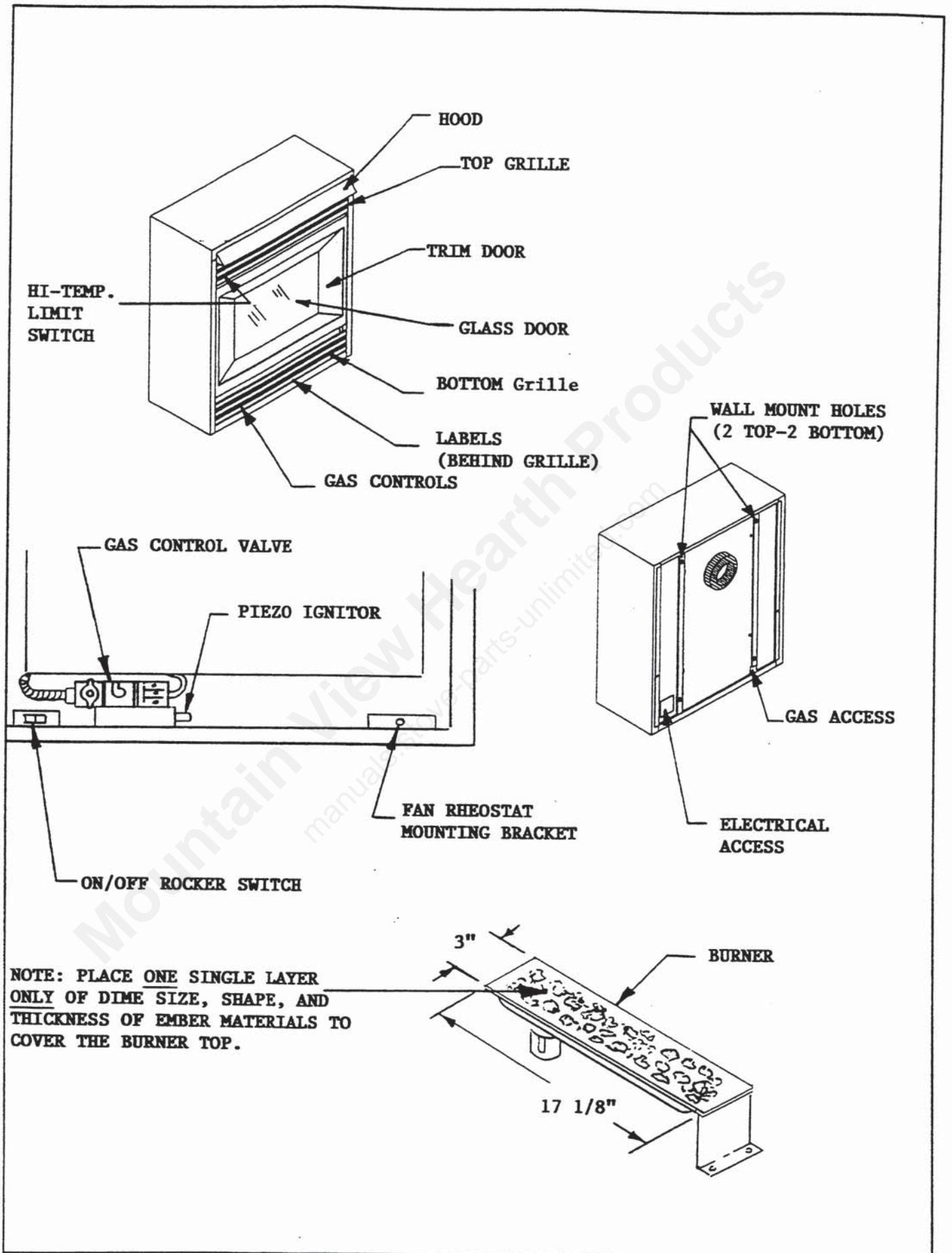


FIGURE 1

1.0 INTRODUCTION

These models are direct vent appliances designed to operate with all combustion air being siphoned from the outside of the building and all exhaust gases expelled to the outside of the building.

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

These models **MUST** use one of the vent systems described in the venting section of this manual. **NO other vent systems or components may be used.**

The control system for these models is a millivolt type. It consists of a gas control valve/regulator, a standing pilot/thermopile/thermocouple assembly, a piezo ignitor, a safety microswitch for the glass doors, and a safety high temperature limit switch. The controls are located in the lower compartment behind the bottom grille of the fireplace. Access to this compartment is gained by lifting the bottom grille upward and out from the unit. See Figure 1.

WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR CONTROL WIRING SYSTEM OF THIS UNIT.

Installation must conform to local codes. In the absence of local codes installation must conform with the current National Fuel Gas Code ANSI Z223.1 (in the United States) or with the current installation code CAN/CGA - B149 (in Canada).

The appliance when installed must be electrically grounded in accordance with local codes; in absence of local codes, with the current National Electric Code ANSI/ NFPA NO. 70 (in the United States) or with the current CSA C22.1 Canadian Electric Code (in Canada).

NOTE: 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, 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.

Provide adequate clearances around air openings into the combustion chamber and allow accessibility clearance for servicing and proper operation. NEVER OB-

STRUCTURE THE FRONT OPENINGS OF THE FIREPLACE OR THE DIRECT VENT CAP ON THE EXTERIOR OF THE HOUSE.

This model can be installed as a freestanding unit, mounted on an exterior wall, or installed inside a framed construction (chase).

Minimum clearances in inches to combustibles are: Floor 0, Back 0, Sides 0, Top 0. Minimum clearance from the front corner of the unit to a wall extending out and running perpendicular to the front of the unit is 1-inch. Ceiling height in front of the unit is 31-inches. See Figure 3.

Minimum inlet gas supply pressure for purpose of input adjustment is 5.0 inches water column natural gas and 11 inches water column propane. Maximum inlet gas supply pressure is 14.0 inches w.c. for natural gas and propane. For the purpose of input adjustment, inlet gas supply pressure should be 7.0 inches w.c. natural gas and 11.0 inches w.c. propane and manifold pressure should be set at 3.5 inches w.c. and 10.0 inches w.c. respectively.

A 1/8-inch N.P.T. plugged tapping is provided on the outlet side of the gas control for a test gauge connection to measure the manifold pressure. Provisions must be made to attach a test gauge to a 1/8-inch NPT plugged tapping immediately upstream of the gas supply connection to the appliance to measure inlet pressure.

The appliance 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 1/2 psig (3.45 kPa).

This appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.45 kPa).

2.0 INSTALLATION PRECAUTIONS

This direct vent gas appliance and its components are tested and safe when installed in accordance with this Installation Manual. Report to your dealer any parts damaged in shipment, specifically check glass condition. The gas logs are installed in the unit. The vent system components are packaged separately. Read all instructions before starting installation and follow these instructions carefully during installation to insure maximum benefit and safety. Failure to follow them will void your warranty and may present a fire hazard.

The Heat-N-Glo Fireplace Products, Inc. warranty will be voided by, and Heat-N-Glo Fireplace Products, Inc. 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 Fireplace Products, Inc.
- Improper positioning of the gas logs or the glass door
- Installation and/or use of any component part not manufactured or approved by Heat-N-Glo Fireplace Products, Inc., 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.

Consult your local building codes.

NOTE: The appliance has an air-tight combustion chamber and takes 100% outside air for combustion. This appliance requires a direct vent system (see venting section of this manual for details). Both Natural Gas and Propane units may be installed in a bedroom.

THIS FIREPLACE AND VENT ASSEMBLY MUST BE VENTED TO THE OUTSIDE AND MUST NEVER BE ATTACHED TO A CHIMNEY SERVING A SOLID FUEL BURNING APPLIANCE.

NOTE: When installing the vent system, it is imperative that the vent cap (horizontal termination) be NO more than a 1/4" below horizontal.

Figure 2 shows instructions for installing the logs in Model SL-3000.

Two separate bags of ember materials are shipped with this unit. The bag labeled Golden Ember (GE-93) is flame colorant material. The bag labeled Glowing Ember (050-721) is standard glowing ember material.

INITIAL SET-UP: Alternately place a single layer of dime size and shape pieces of Golden Ember (GE-93) and Glowing Ember (050-721) onto the top of the burner. See Figure 1.

Save the remaining ember materials for use during fireplace servicing.

FIREPLACE SERVICING: Frequency of fireplace servicing will depend upon use and type of installation.

Carefully brush away or vacuum up any loose materials on the burner. Alternately place dime size and shape pieces of Golden Ember (GE-93) and Glowing Ember (050-721) onto the top of the burner as you did in the initial set-up. Save remaining ember materials and repeat this procedure at the next fireplace servicing.

NOTE: It may be necessary to clean the glass door after adding GE-93 flame colorant material. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner. **DO NOT** handle or attempt to clean the glass when it is **HOT**.

THE UNIT WILL NOT OPERATE PROPERLY UNLESS THE GLASS DOOR IS SECURED IN PLACE AND SEALED.

WARNING: DO NOT OPERATE APPLIANCE WITH THE GLASS DOOR REMOVED, CRACKED, OR BROKEN. REPLACEMENT OF THE GLASS DOOR SHOULD BE DONE BY A LICENSED OR QUALIFIED PERSON. DO NOT STRIKE OR SLAM THE GLASS DOOR.

WARNING: GLASS DOOR ASSEMBLIES SHALL ONLY BE REPLACED AS A COMPLETE UNIT AS SUPPLIED BY THE GAS FIREPLACE MANUFACTURER. NO SUBSTITUTE MATERIALS MAY BE USED.

WARNING: THE GLASS DOOR ASSEMBLY MUST BE IN PLACE AND SEALED AND THE FIXED MESH TRIM ASSEMBLY MUST BE IN PLACE ON THE FIREPLACE BEFORE THE UNIT CAN BE PLACED INTO SAFE OPERATION.

Prior to first firing, read Operation Instructions section of this manual.

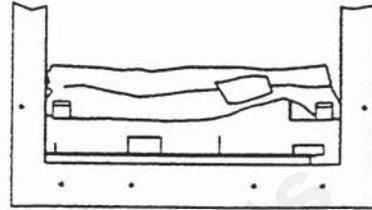
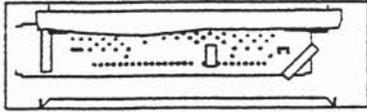
Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the unit and to replace any part of the control system and any gas control which has been under water.

DUE TO 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.

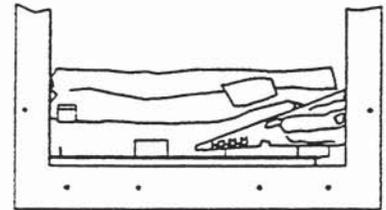
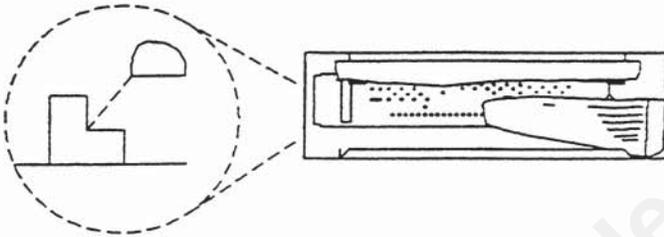
NOTE: IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS NECESSARY TO INSTALL THE VINYL PROTECTOR KIT (VPK-DV) TO THE TOP OF THE EXTERIOR FIRESTOP.

NOTE: CAREFULLY REMOVE THE LOGS FROM THE PACKAGING.

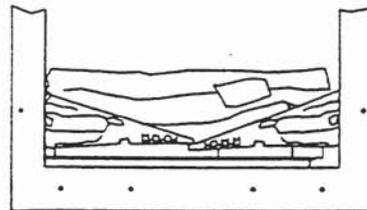
1. Place the long log onto the log holder on the back wall of the firebox. Center the log in the firebox. The burned section of the log should be facing forward and down.



2. Place one of the wedge shaped logs onto the right side of the burner. The log should touch the right side of the firebox and the right side of the log should be pulled forward until it contacts the front of the firebox opening. The left side of the log should be set in the notch of the bracket on the burner top. Push the left end of the log back as far as the bracket will let it.



3. Place the other wedge shaped log on the left side of the burner top. The left end of the log contact the firebox and be pulled forward until it contacts the front of the firebox opening. The right end of the log will set on top of the previous log and the back sides of the two logs should be flush.



4. Place one of the twigs on the top right across the back and right log. The rear tip of the log should be 5 1/2" from the right side of the firebox and the front tip should be a 1/2" from the side of the firebox.
5. Place the other twig across the back and left log in the same manner. The rear tip of the log should be 5 1/4" from the left side of the firebox and the front tip should be 1/4" from the side of the firebox.
6. Push a finishing nail into each end of the twigs to pin the logs together.

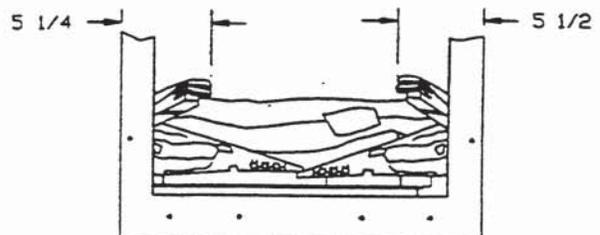
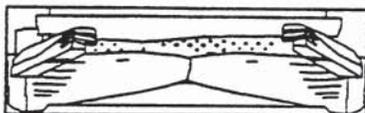


FIGURE 2

3.0 INSTALLATION INSTRUCTIONS

In planning the installation for the unit it is necessary to determine where the unit is to be installed, the type of vent system to be used, and whether optional accessories (fan, remote control, or wall switch) are desired. Gas supply piping should also be planned.

CAUTION: 110-120 VAC ELECTRICAL SERVICE SHOULD BE PLANNED CAREFULLY IF AN OPTIONAL FAN OR REMOTE CONTROL IS INTENDED TO BE INSTALLED.

CAUTION: THE OPTIONAL GFK-160A FAN KIT SHOULD BE INSTALLED BEFORE INSTALLATION OF THE APPLIANCE IS BEGUN.

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

1. A flat combustible surface other than carpeting.
2. A raised wooden platform.
3. Outside wall.

If the fireplace is installed directly on carpeting, tile, or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the unit. If the unit is to be hung on an outside wall, it must be centered between 16" o.c. wall studs.

If carpeting or a hearth is installed in front of the unit, the bottom of the unit should be raised to the same level as the carpet or hearth.

If the unit is to be recessed into framed construction, framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall covering and fireplace facing material. The fireplace framing should be constructed of 2 x 4 lumber or heavier. The framing headers may rest on the top of the unit. Refer to Figure 3 and Figure 4 for fireplace and framing reference dimensions.

CAUTION: Measure fireplace dimensions and verify framing methods, and wall covering details before framing construction begins.

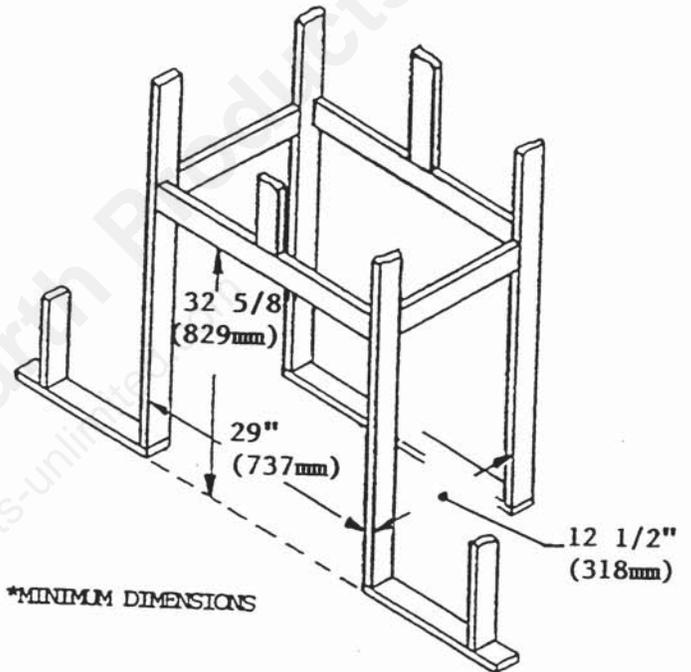


FIGURE 3

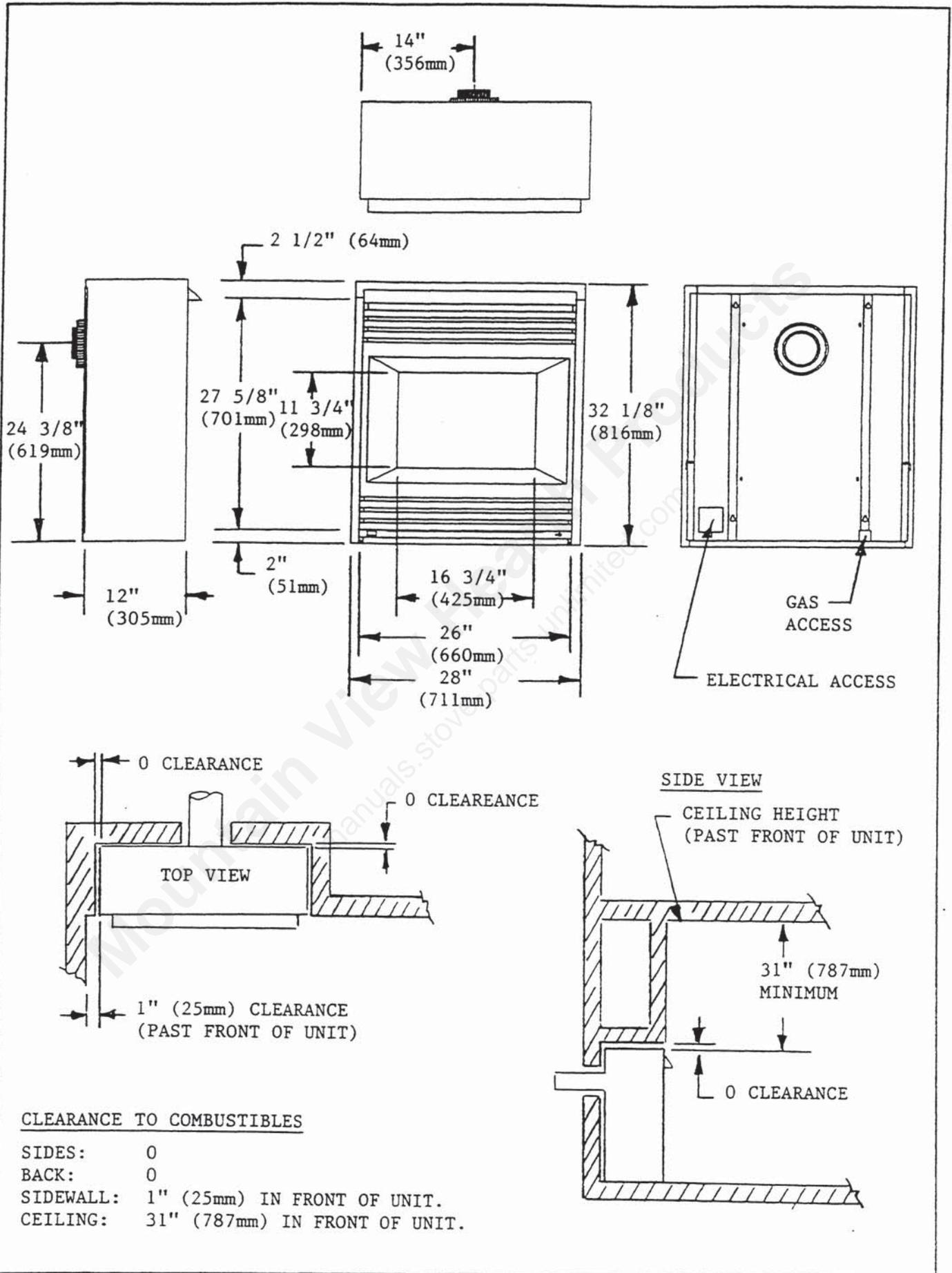


FIGURE 4

MODEL	VENT TERMINATION APPROVALS	
SL-3000	SLK-01D	SLK-991DA

TABLE 1

3.1 VENT SYSTEM APPROVALS

This model is approved to use SL D-series (concentric 4"/6 5/8") direct vent pipe components. Figures 5 through 9 and Tables 1 through 6 show the vent systems approved for use these models. Approved vent system components are labeled for identification. **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 manual.

STRAIGHT OUT HORIZONTAL VENTING

Figure 5 and Table 2 show the straight out horizontal vent configurations approved for use on this model.

ELBOWS

The vent systems installed on this gas fireplace may also include two (2) or three (3) elbow assemblies. The following relationships of vertical rise to horizontal run in vent configurations using elbows **MUST** be strictly adhered to.

ONE (1) 90° ELBOW

Figure 6 and Table 3 show examples of possible installations using one (1) 90° elbow. Dimension V is listed as **MINIMUM** vertical dimensions and dimension H is listed as corresponding **MAXIMUM** horizontal dimensions. If one 90° elbow is used in the vent system, a vertical termination will result.

TWO (2) 90 DEGREE ELBOWS

Figure 7 and Table 4 show examples of possible installations using two (2) 90 degree elbows. Dimensions V are listed as **MINIMUM** vertical dimensions, dimensions H and H + H₁ are listed as **MAXIMUM** horizontal dimensions. Two elbows will result in a horizontal termination.

THREE (3) 90 DEGREE ELBOWS

Figures 8 and 9 and Tables 5 and 6 show examples of possible installations using three (3) 90 degree elbows. Dimensions V are listed as **MINIMUM** vertical dimensions, dimensions H and H + H₁ + H₂ are listed as **MAXIMUM** horizontal dimensions. Three elbows can result in either a horizontal or a vertical termination.

3.2 VENT SYSTEM INSTALLATION PRECAUTIONS

Before starting installation of vent systems, the installer should read the Gas Fireplace Instructions and the Vent Kit Instructions to insure that the proper vent system has been selected for the installation. Determine the mounting method (freestanding or wall hung) and the exact position of the fireplace so the direct vent pipe is centered (if possible) between two studs. This will avoid any extra framing. Using a level, make sure the fireplace is properly positioned and squared. The sides and back of the fireplace may be positioned directly against combustible walls.

WARNING: THIS APPLIANCE 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.

CAUTION: UNDER NO CONDITION SHOULD COMBUSTIBLE MATERIAL BE CLOSER THAN 3 INCHES (2 1/2" INCHES AT FIRESTOPS) FROM THE TOP OF THE 6 5/8-INCH PIPE OR 1-INCH TO THE SIDES AND THE BOTTOM FOR HORIZONTAL SECTIONS OF THIS VENT SYSTEM.

STRAIGHT-OUT HORIZONTAL VENTING

H MAX. RUN

19 3/8" (492mm)

TABLE 2

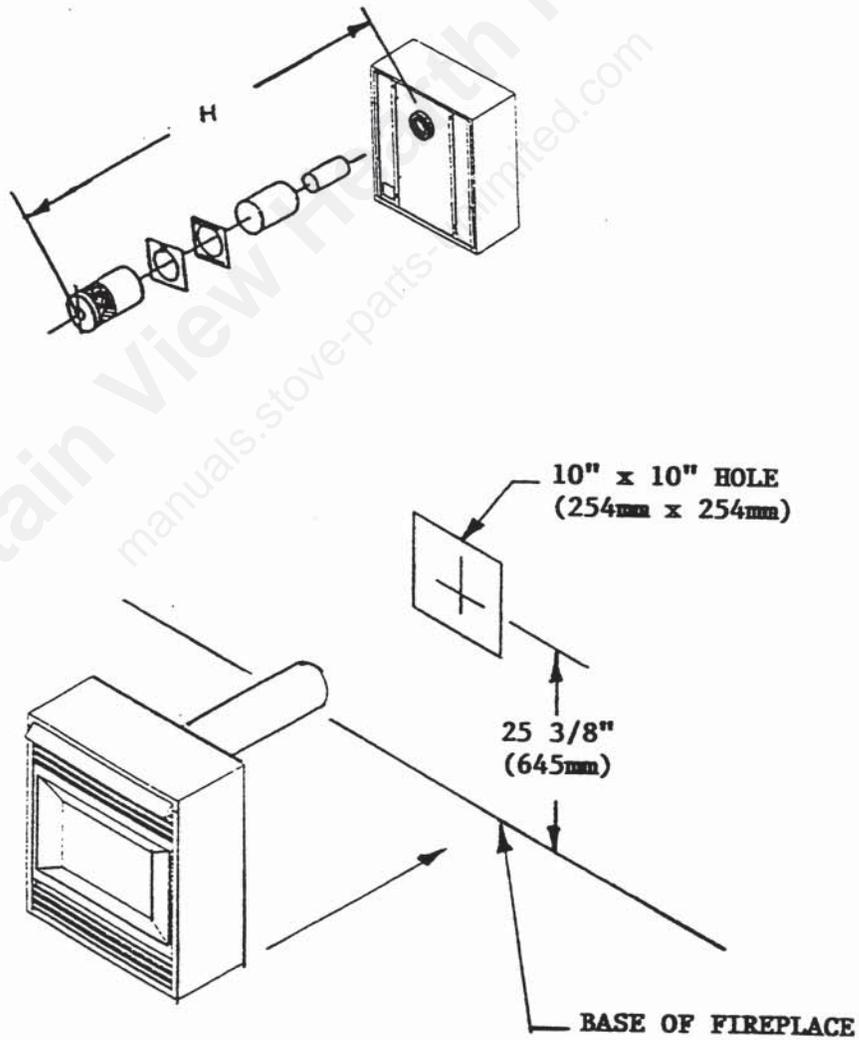


FIGURE 5

VENTING WITH ONE (1) 90° ELBOW

V (FT.)	H (FT.)
1' MIN. (305mm)	1' MAX. (305 mm)
2' MIN. (610mm)	2' MAX. (610 mm)
3' MIN. (914 mm)	3' MAX. (914 mm)
4' MIN. (1.2 m)	4' MAX. (1.2 m)
20' MAX. (6.1 m)	4' MAX. (1.2 m)

RATIO V to H = 1:1

TABLE 3

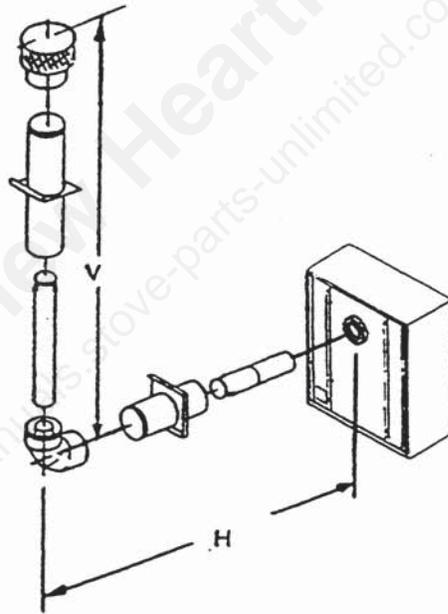


FIGURE 6

VENTING WITH TWO (2) 90° ELBOWS

V (FT.)	H (FT.)	H+H ₁ (FT.)
1' MIN. (305mm)	1' MAX. (305mm)	4' MAX. (1.2m)
2' MIN. (610mm)	2' MAX. (610mm)	8' MAX. (2.4m)
3' MIN. (914mm)	3' MAX. (914mm)	8' MAX. (2.4m)
4' MIN. (1.2m)	4' MAX. (1.2m)	8' MAX. (2.4m)

20' MAX. (6.1m) 4' MAX. (1.2m) 8' MAX. (2.4m)

RATIO V to H = 1:1

TABLE 4

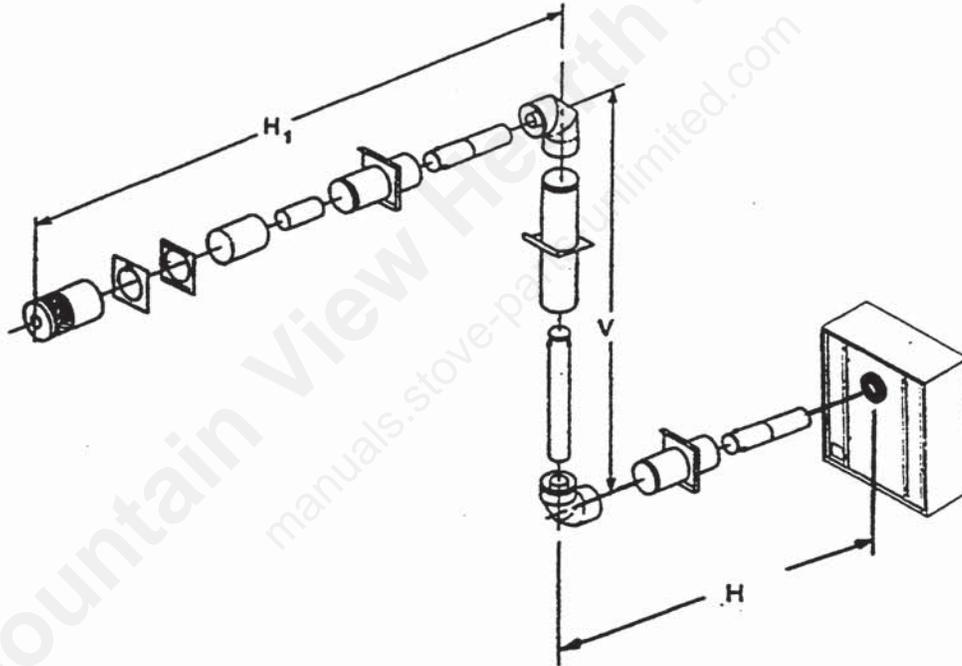


FIGURE 7

VENTING WITH THREE (3) 90° ELBOWS

V (FT.)	H (FT.)	H+H ₁ +H ₂ (FT.)
1' MIN. (305mm)	1' MAX. (305mm)	4' MAX. (1.2m)
2' MIN. (610mm)	2' MAX. (610mm)	8' MAX. (2.4m)
3' MIN. (914mm)	3' MAX. (914mm)	8' MAX. (2.4m)
4' MIN. (1.2m)	4' MAX. (1.2m)	8' MAX. (2.4m)

20' MAX. (6.1m) 4' MAX. (1.2m) 8' MAX. (2.4m)

RATIO V to H = 1:1

TABLE 5

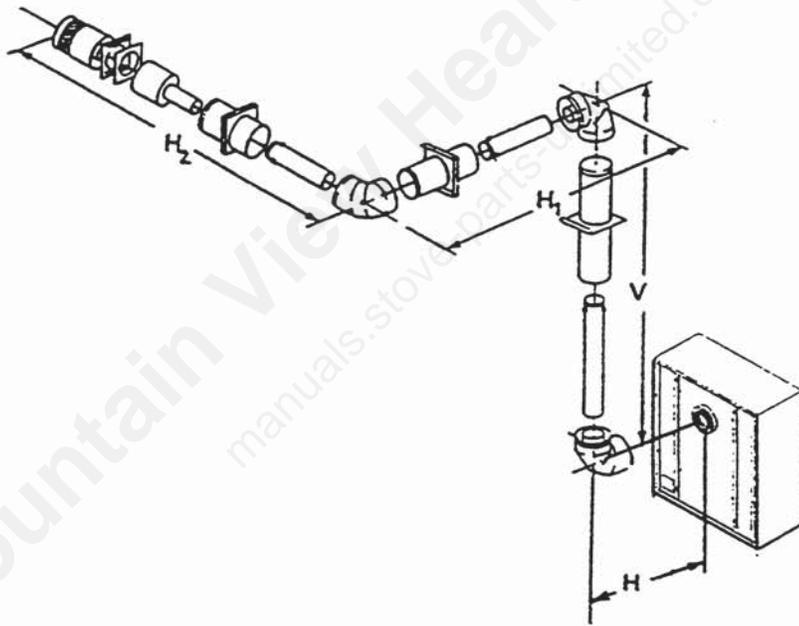


FIGURE 8

VENTING WITH THREE (3) 90° ELBOWS

V (FT.)	H (FT.)	H + H ₁ (FT.)
1' MIN. (305mm)	1' MAX. (305mm)	4' MAX. (1.2m)
2' MIN. (610mm)	2' MAX. (610mm)	8' MAX. (2.4m)
3' MIN. (914mm)	3' MAX. (914mm)	8' MAX. (2.4m)
4' MIN. (1.2m)	4' MAX. (1.2m)	8' MAX. (2.4m)
V+V ₁ = 20' MAX. (6.1 m)	4' MAX. (1.2 m)	8' MAX. (2.4m)
RATIO V to H = 1:1		

TABLE 6

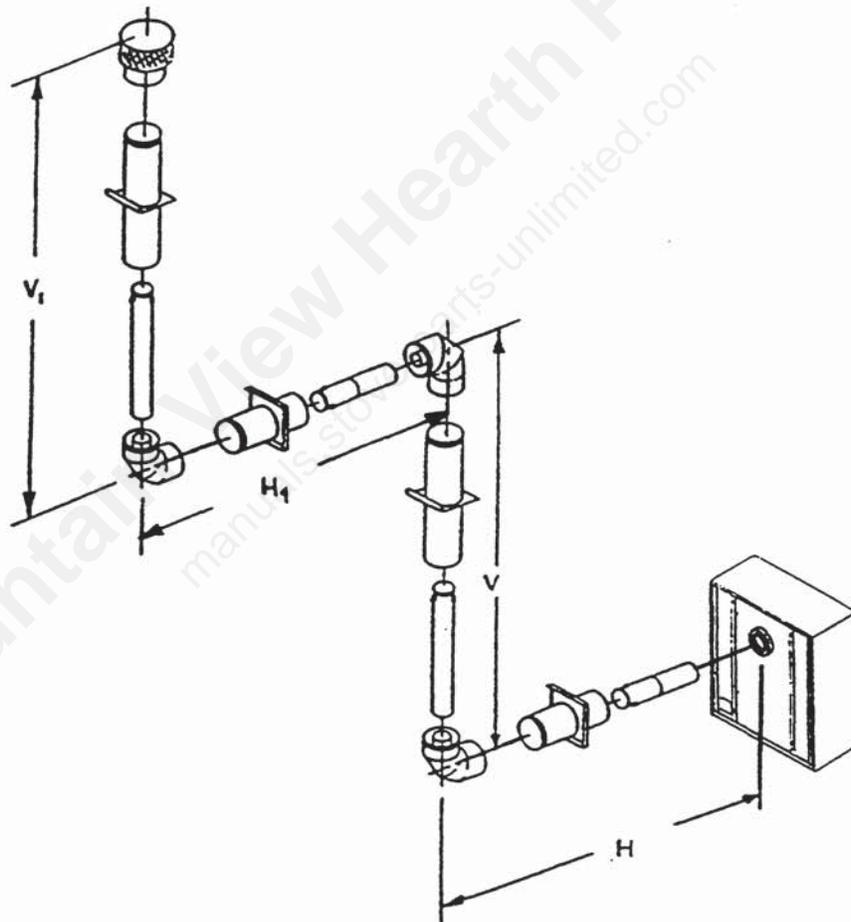


FIGURE 9

3.2.1 WALL HANGING INSTALLATION

If the unit is to be hung on the wall, locate the two mounting holes at the top rear edge of the unit (See Figure 10). Drive lag screws into 16-inch o.c. wall studs to hang the unit.

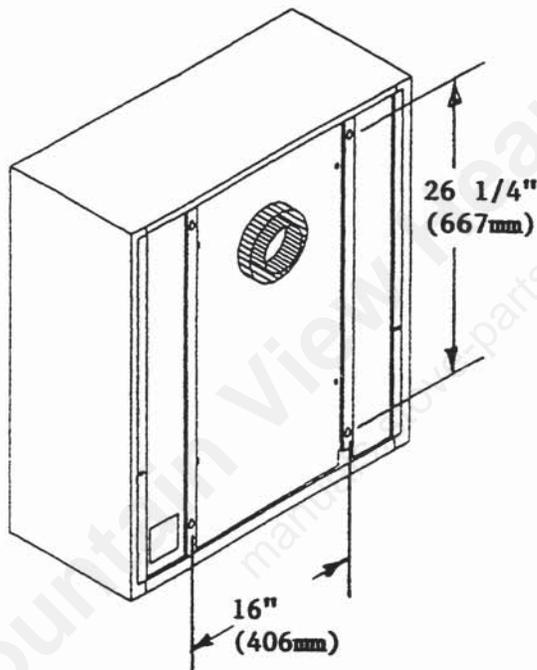
NOTE: Complete Section 3.3 and 3.4 before placing the unit in its final hanging position. Consult your local Building Codes before beginning the installation.

3.2.2. CHASE INSTALLATION

A chase is a vertical box-like structure built to enclose the gas appliance 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.

NOTE: When installing this vent system in a chase, it is always good building practice to insulate the chase as you would the outside walls of your home. This is especially important for cold climate installations. Upon completion of building your chase framing, install the vent system by following the instructions in this manual. Remember to build the chase large enough so that minimum clearance of combustible materials (including insulation) to the vent system are maintained. **Be sure to maintain a 1 inch clearance (air space) between the vent pipe and all insulation materials.**



**DRIVE LAG SCREWS INTO
FRAMING STUDS
16" (406mm) O.C.**

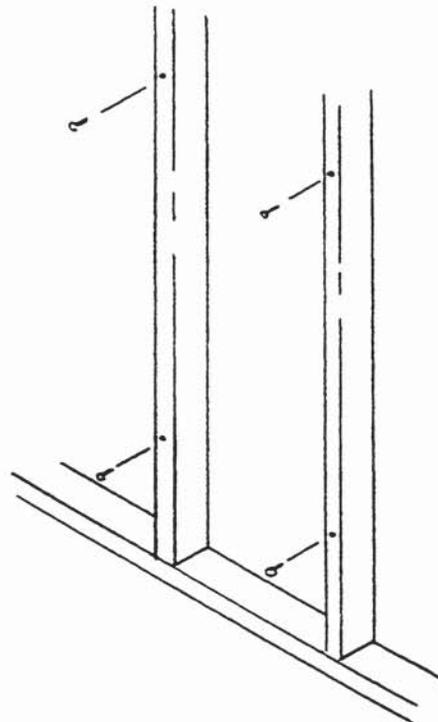


FIGURE 10

3.3 INSTALLING VENT COMPONENTS

After the gas appliance has been placed in its exact position and the vent system run has been determined, you can begin the vent system installation.

Begin the vent system installation by installing the first component (straight pipe length, elbow or horizontal termination kit) to the starting collars on the back of the appliance.

WARNING: You **MUST** place a 3/8" (9.53 mm) **MINIMUM** bead of stove sealant material around the end of the fireplace 4-inch (102 mm) starting collar **BEFORE** installing the first vent component. The sealant should be placed 1-inch (25.4 mm) from the end of the collar as shown in Figure 11. The stove sealant is supplied in all termination kits.

WARNING: If the first vent component is not properly installed and sealed tightly to the appliance vent starting collars, the appliance may not operate properly. This is especially important for the 4-inch (102 mm) inner pipe. See Figure 11.

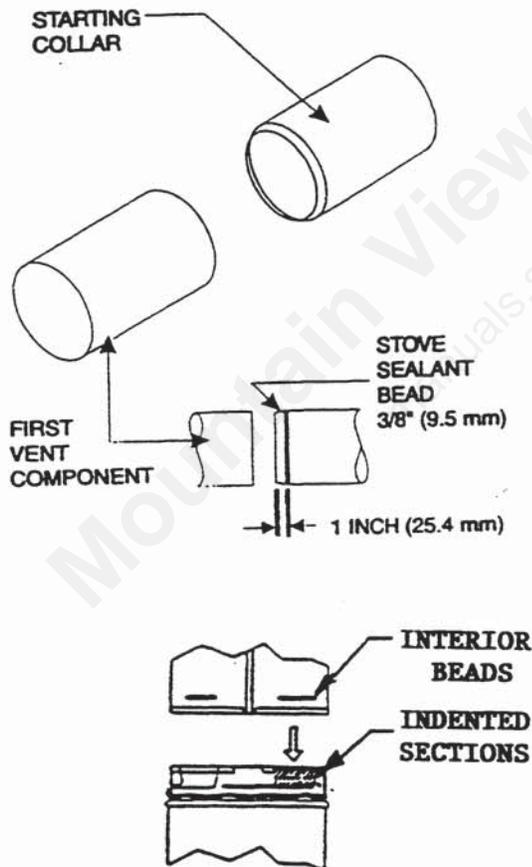


FIGURE 11

All vent system components lock into place by sliding the concentric pipe section with four (4) equally spaced interior beads onto the appliance collar or previously installed component end with four (4) equally spaced indented sections. When the internal beads of each 6 5/8 (168 mm) outer pipe line up, rotate the pipe section clockwise approximately one quarter turn. The vent pipe is now locked together. See Figure 11.

WARNING: Be certain that the inner 4-inch (102 mm) vent pipes engage one another at each joint.

90° elbows may be installed and rotated to any point around the preceding component's vertical axis. 90° elbows attached directly to the back of a rear-venting fireplace **MUST** end up in a vertical position. If an elbow does not end up in a locked position with the preceding component, attach a minimum of two (2) sheetmetal screws.

Continue adding components per the pre-planned vent system configuration. Be certain that each succeeding vent component is securely fitted and locked into the preceding component in the vent system. You can secure each joint with sheetmetal screws if necessary.

3.3.1 INSTALLING SUPPORT BRACKETS

A horizontal pipe support Strap (SL-PSD) **MUST BE** used for each 5 feet (1.5 mm) of horizontal run. The pipe supports should be placed around the outer vent pipe and nailed in place to framing members. There **MUST** be a 3-inch (76 mm) clearance to combustibles above the outer pipe and elbows and 1-inch (25.4 mm) clearance on both sides and bottom to combustibles on all horizontal pipe sections and elbows.

Vertical runs of this vent system must be supported every 8 feet (2.4m) above the fireplace flue outlet by wall brackets (SL-WBD) attached to the outer vent pipe and secured with nails or screws to structural framing members. See Figure 12.

3.3.2 INSTALLING FIRESTOPS

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

NOTE: Firestops need not be used if the wall or ceiling being penetrated is constructed of non-combustible material. i.e. masonry block or concrete. Check local codes.

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

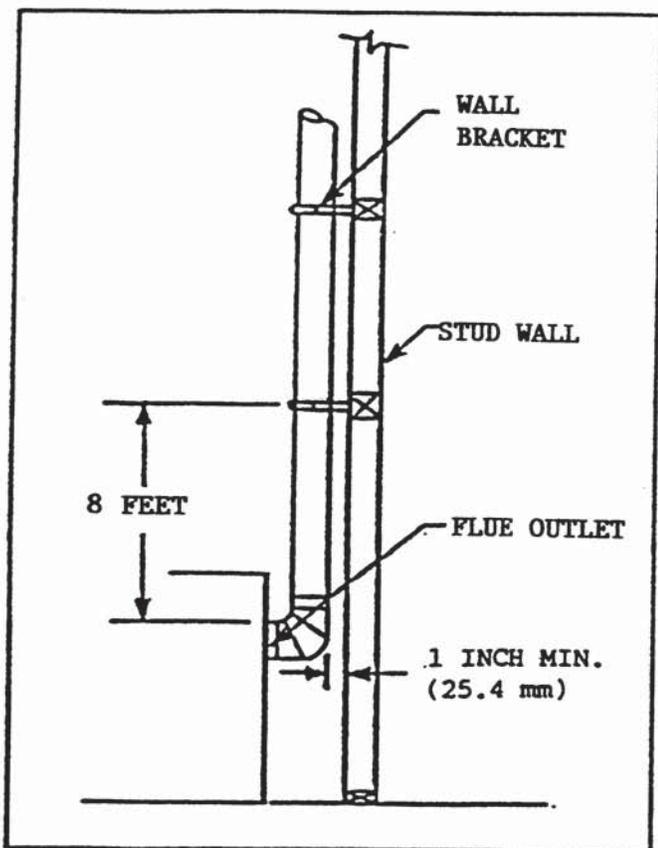


FIGURE 12

Cut a 10-inch X 10-inch (254 mm X 254 mm) hole through the wall - the center of the hole is 1-inch (25.4 mm) above the center of the horizontal vent pipe. See Figure 13.

NOTE: You can cut a 7-inch (178 mm) diameter hole through masonry or concrete walls if no firestops are used through the wall.

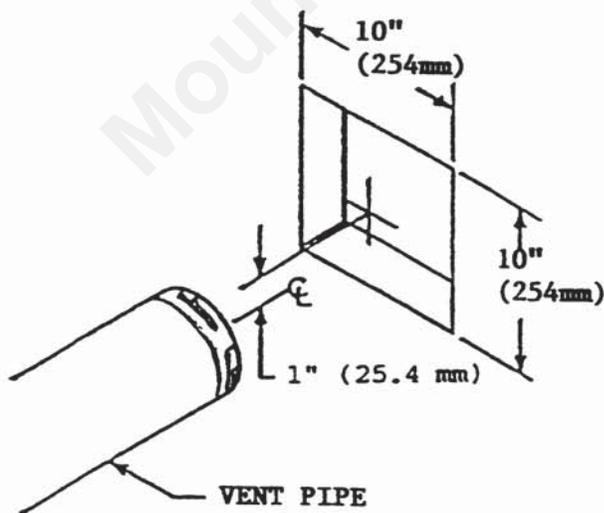


FIGURE 13

Position the firestops on both sides of the hole and secure with nails or screws. The heat shields of the firestops **MUST** be placed towards the top of the hole. See Figure 14. Continue the vent run through the firestops.

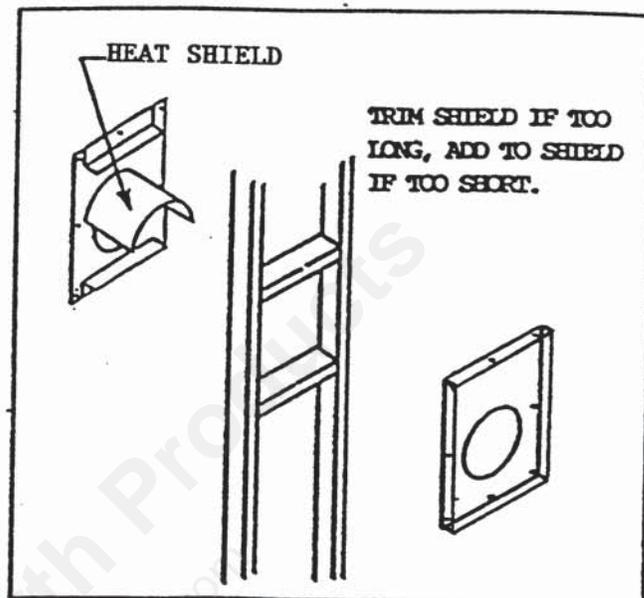


FIGURE 14

Vertical runs of this vent system which pass through ceilings require the use of one (1) ceiling firestop (SL-FCD) at the hole in each ceiling through which the vent passes.

Position a plumb bob directly over the center of the vertical vent component and mark the ceiling to establish the center point of the vent. Drill a hole or drive a nail through this center point and check the floor above for any obstructions such as wiring or plumbing runs. Reposition the fireplace and vent system, if necessary, to accommodate ceiling joists and/or obstructions.

Cut a 10-inch X 10-inch (254 mm X 254 mm) hole through the ceiling, using the center point previously marked. Frame the hole with framing lumber the same size as the ceiling joists. See Figure 15.

If the area above the ceiling is NOT an attic, position and secure the ceiling firestop (SL-FCD) on the ceiling side of the previously cut and framed hole. See Figure 16. If the area above the ceiling is an attic, position and secure the firestop on top the previously framed hole. See Figure 17.

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

WARNING: INSULATION MUST BE AT 1-INCH (25.4 MM) MINIMUM CLEARANCE TO THE VENT PIPE AND MUST NEVER CONTACT THE PIPE.

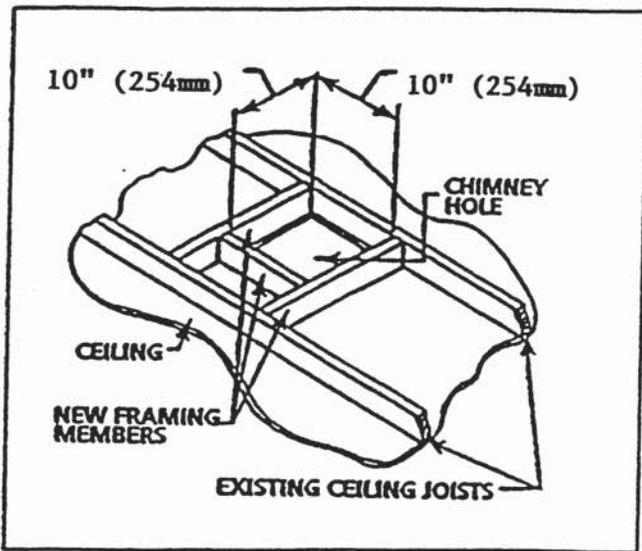


FIGURE 15

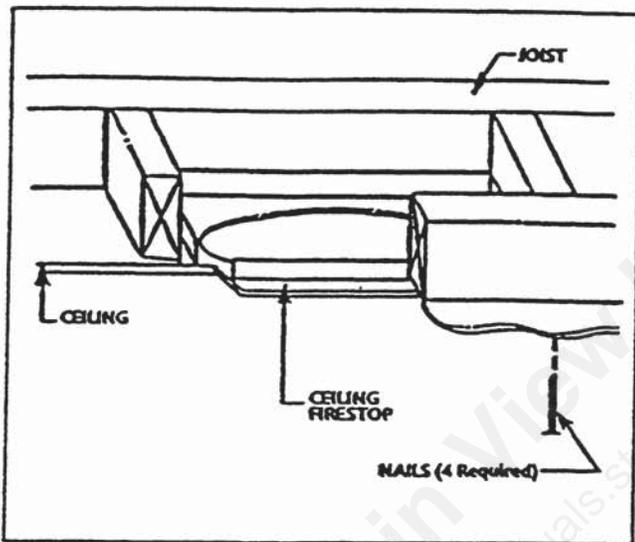


FIGURE 16

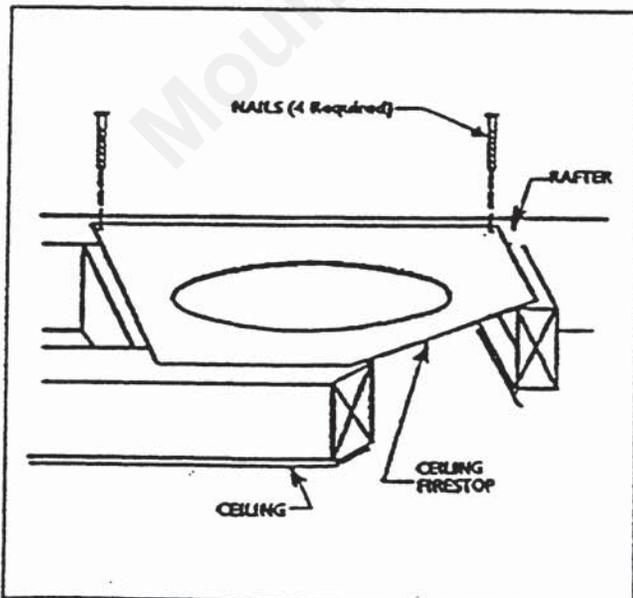


FIGURE 17

3.4 HORIZONTAL TERMINATIONS

SLK-01D is a telescoping vent kit used to terminate a vent system in a horizontal position. SLK-01D is a pre-assembled round termination cap.

Attach and secure the termination to the last section of horizontal vent by rotating and interlocking the ends as previously described. 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.

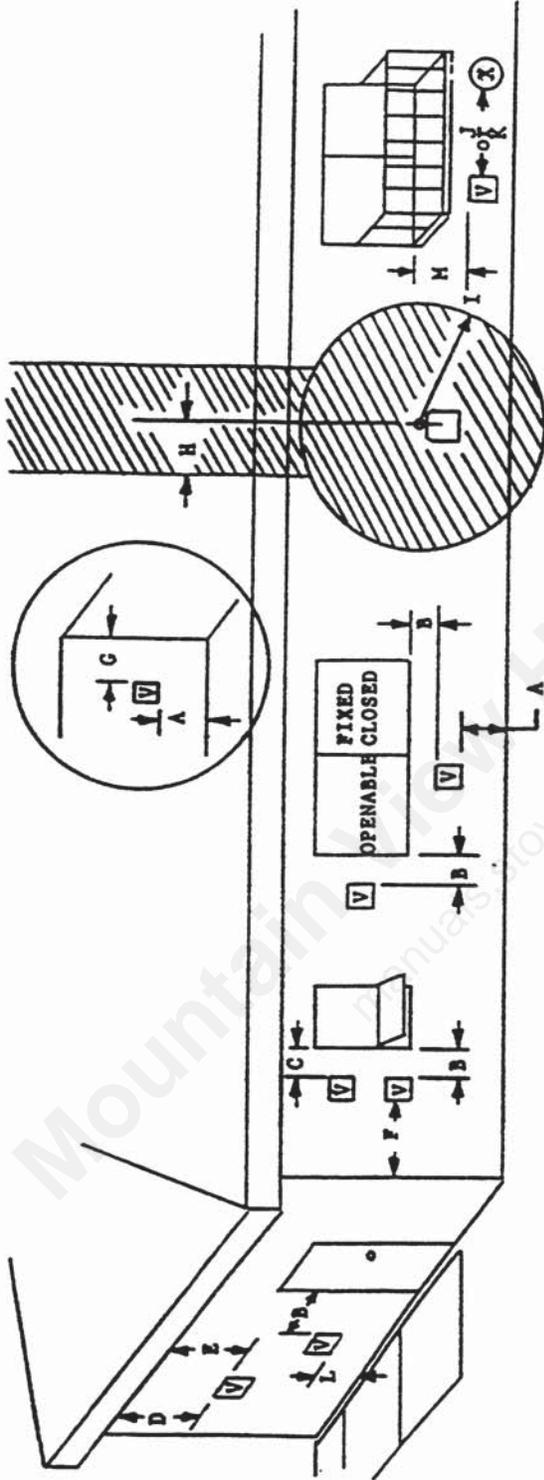
NOTE: The termination cap **MUST** be positioned so that arrow is pointing UP. See Figure 19 for cap orientations and **MINIMUM** distances out from the wall.

For round cap termination kits, use the exterior pipelock hole provide on the round flange of the wall firestop to secure the cap in place. Use a high temperature sealant or fiberglass rope gasket to seal between the vent pipe and exterior firestop.

CAUTION: Under **NO** condition should combustible material be closer that 3-inches /76 mm (2 1/2 inches/ 64 mm at wall firestops) from the top of the 6 5/8 (168 mm) pipe with a 1-inch (25.4 mm) clearance to the sides and bottom.

WARNING: The bottom of the vent termination cap must be a **MINIMUM** of 12-inches above ground level (grade), the top of the cap must be a **MINIMUM** of 18-inches below combustible material such as a deck and the side of the cap must be a **MINIMUM** of 6-inches away from a parallel outside wall. See Figure 18 for Vent Termination Clearances.

VENT TERMINATION MINIMUM CLEARANCES



= VENT TERMINAL
 X = AIR SUPPLY INLET
 = AREA WHERE TERMINAL IS NOT PERMITTED

- 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 meter/regulator assembly within 3 feet (90 cm) horizontally from the center-line of the regulator
- I = 3 ft. (U.S.A.)
6 ft. (Canada) clearance to service regulator vent outlet
- 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. clearance above paved side-walk or a paved driveway located on public property
- ** M = 18" clearance under veranda, porch, deck or balcony

* a vent shall not terminate directly above a side-walk 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: local Codes or Regulations may require different clearances

FIGURE 18

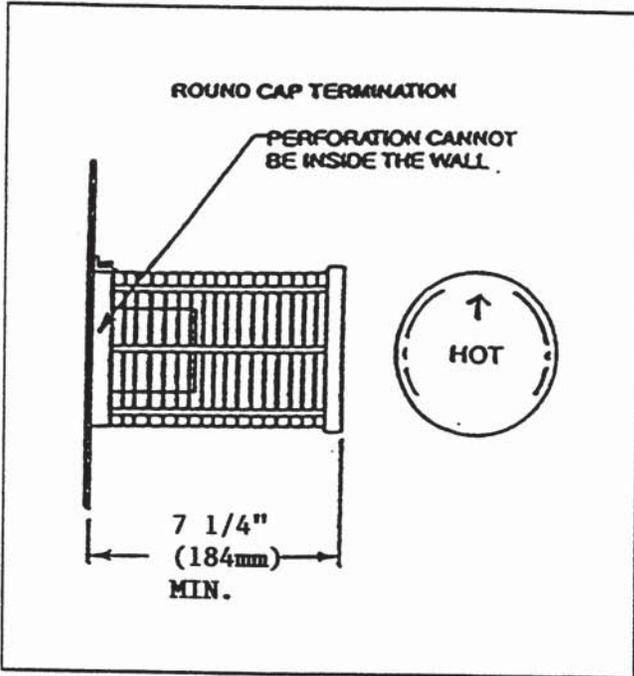


FIGURE 19

3.5 VERTICAL TERMINATIONS

SLK-991DA termination cap **MUST** be used to terminate a vent system in a vertical position.

3.5.1 PENETRATING THE ROOF

Using the same procedure as described in Section 3.3.2, locate and mark the vent centerpoint on the underside of the roof and drive a nail through this centerpoint. Make the outline of the roof hole around the centerpoint nail.

NOTE: The size of the roof hole and hole framing dimensions depend upon the pitch of the roof. There must be a 1-inch clearance from the vent pipe to combustible materials. Mark the roof hole accordingly.

Cover the opening of the installed vent pipes and cut and frame the roof hole. Use framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to the frame must withstand heavy winds.

3.5.2 MINIMUM VENT HEIGHT ABOVE THE ROOF

WARNING: Major U.S. building codes specify minimum chimney and/or vent height above the roof top. These minimum heights are necessary in the interest of safety. Figure 20 and Table 7 show minimum heights.

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

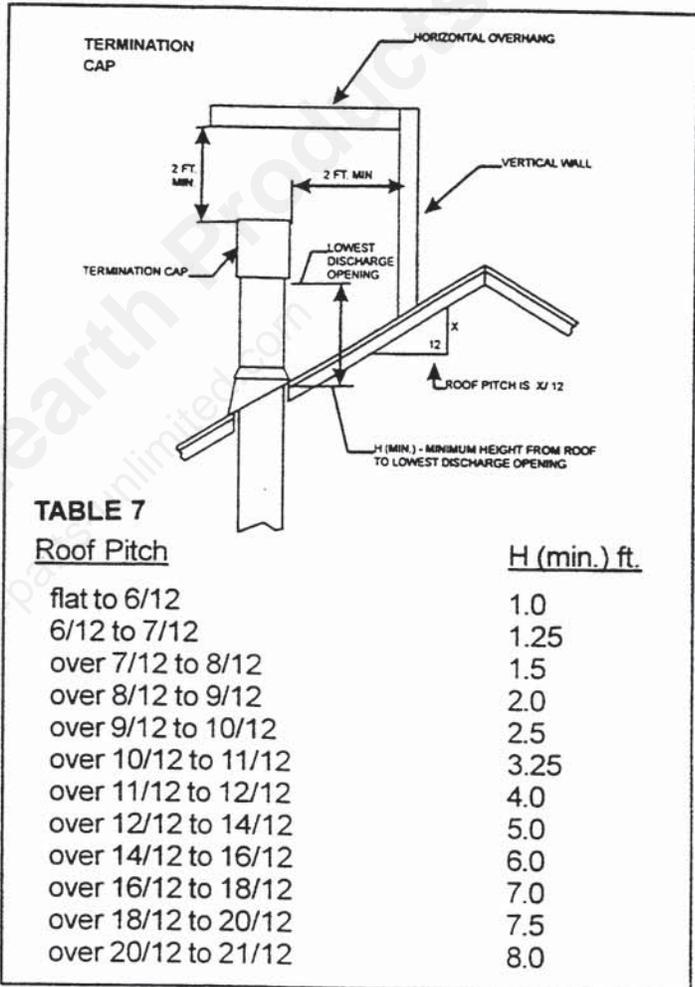


FIGURE 20 Minimum Height from Roof to Lowest Discharge Opening

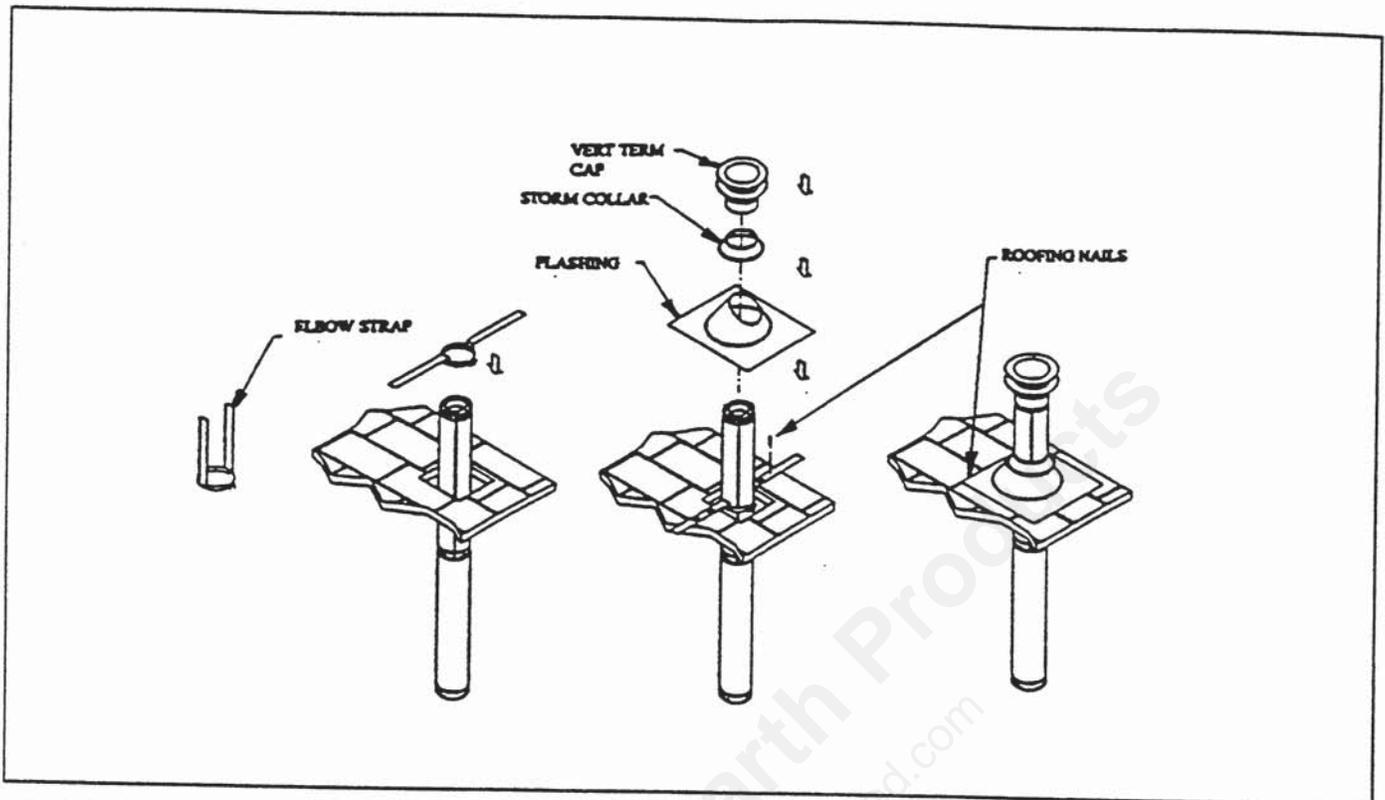


FIGURE 21

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

Use a Pipe Support Strap (SL-PSD) to secure the vertical pipe to the roof. Slip the strap over the pipe to the roof level, bend the supporting straps outward, and tighten the clamp around the pipe. See Figure 21. Level the vertical pipe, and secure the support straps to the roof with roofing nails. Trim off excess strap length and seal the nail heads with non-hardening mastics.

Install flashing (to seal the roof hole) and a storm collar (to divert rain and snow away from the vent system). See Figure 21. The flashing should be nailed to the roof. A non-hardening mastic should be used around the edges of the flashing base where it meets the roof. The storm collar is then placed over this joint to make a water-tight seal. Non-hardening mastic is placed around the joint between the storm collar and the vertical vent pipe.

Twist lock the SLK-991DA Termination cap to the last pipe section.

3.6 PERMANENTLY ANCHORING THE FIREPLACE

Care must be taken to prevent the unit from shifting. Avoid bumping the fireplace once it is in its installed position. Securely tighten the lag screws used to mount wall-hung units.

3.7 CONNECTING THE GAS LINE

A listed 1/2-inch manual shut-off valve and a flexible gas connector are supplied with this unit and connected to the gas valve. Consult local building codes to properly size the gas supply line leading to the 1/2-inch shut-off valve. Have the gas supply line and hook-up installed by a qualified service person in accordance with applicable building codes.

Locate the gas line access at the bottom outer casing of the fireplace (Figure 22). A 1/8" N.P.T. plugged tapping, accessible for test gauge connection, should be provided for in the gas supply line.

Support the control when attaching the pipe so that the pilot line is not bent or torn. After the gas pipe installation is complete, check carefully all gas connections for leaks with a soap solution. **DO NOT USE AN OPEN FLAME.**

NOTE: THE GAS PIPE SHOULD NOT COME IN CONTACT WITH ANY WOOD STRUCTURES UNTIL IT HAS REACHED A POINT AT LEAST 1 INCH AWAY FROM THE FIREPLACE SIDE.

NOTE: THE GAS SUPPLY LINE SHOULD BE PURGED OF ANY TRAPPED AIR PRIOR TO THE FIRST FIRING OF THE UNIT.

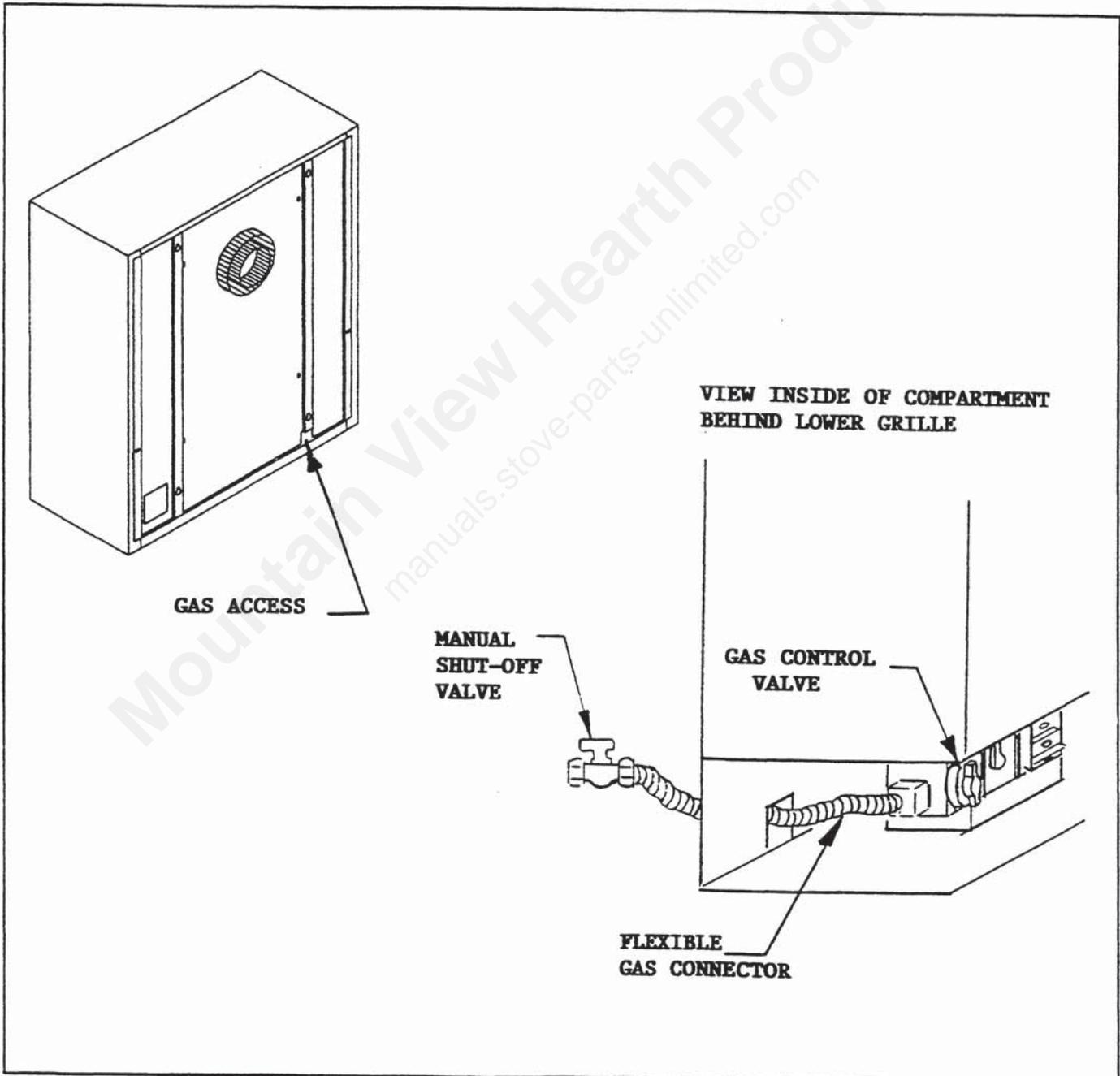
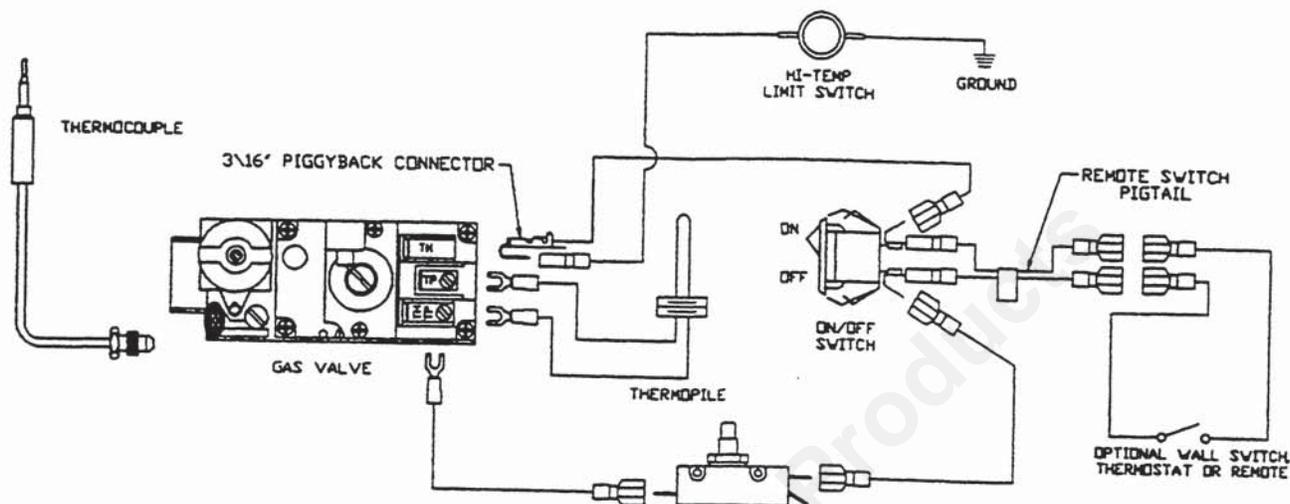


FIGURE 22

STANDING PILOT IGNITION WIRING DIAGRAM



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

FIGURE 23

3.8 ELECTRICAL WIRING FOR OPTIONAL KITS

The unit wiring diagram shown in Figure 23. The control valve **DOES NOT** require 110-120 VAC to operate.

These models have factory installed Electrical Junction Boxes which are used **ONLY** for wiring in optional kits. An optional blower kit with a magnetic blower mount (GFK-160A in North America) and hand held remote control kit (RCH-09A) are available. Use of these options requires that the Junction Box (factory installed) be connected to 110 VAC service before permanently enclosing the fireplace. The access hole for connecting the service wires is found on the lower exterior rear of the unit. See Figure 24.

3.8.1 INSTALLING ELECTRICAL SERVICE TO THE JUNCTION BOX

WARNING: TURN ELECTRICAL POWER OFF AT THE CIRCUIT BREAKER BEFORE BEGINNING INSTALLATION.

1. Remove the electrical cover plate from the lower rear of the fireplace. Remove the knockout from the plate and attach the Romex clamp (screws to the outside).
2. Feed the electrical service wires through the Romex clamp and secure the wires to the clamp.
3. Using the wire nuts provided, connect the service wires to the Junction Box. The black wire to the black service wire, the white wire to the white service wire, and the service ground wire to the ground stud of the Junction Box.
4. Re-attach the cover plate to the outside of the fireplace.

Detailed instructions for the optional blower and the optional remote kits are included with each kit.

WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR CONTROL WIRING SYSTEM OF THIS UNIT.

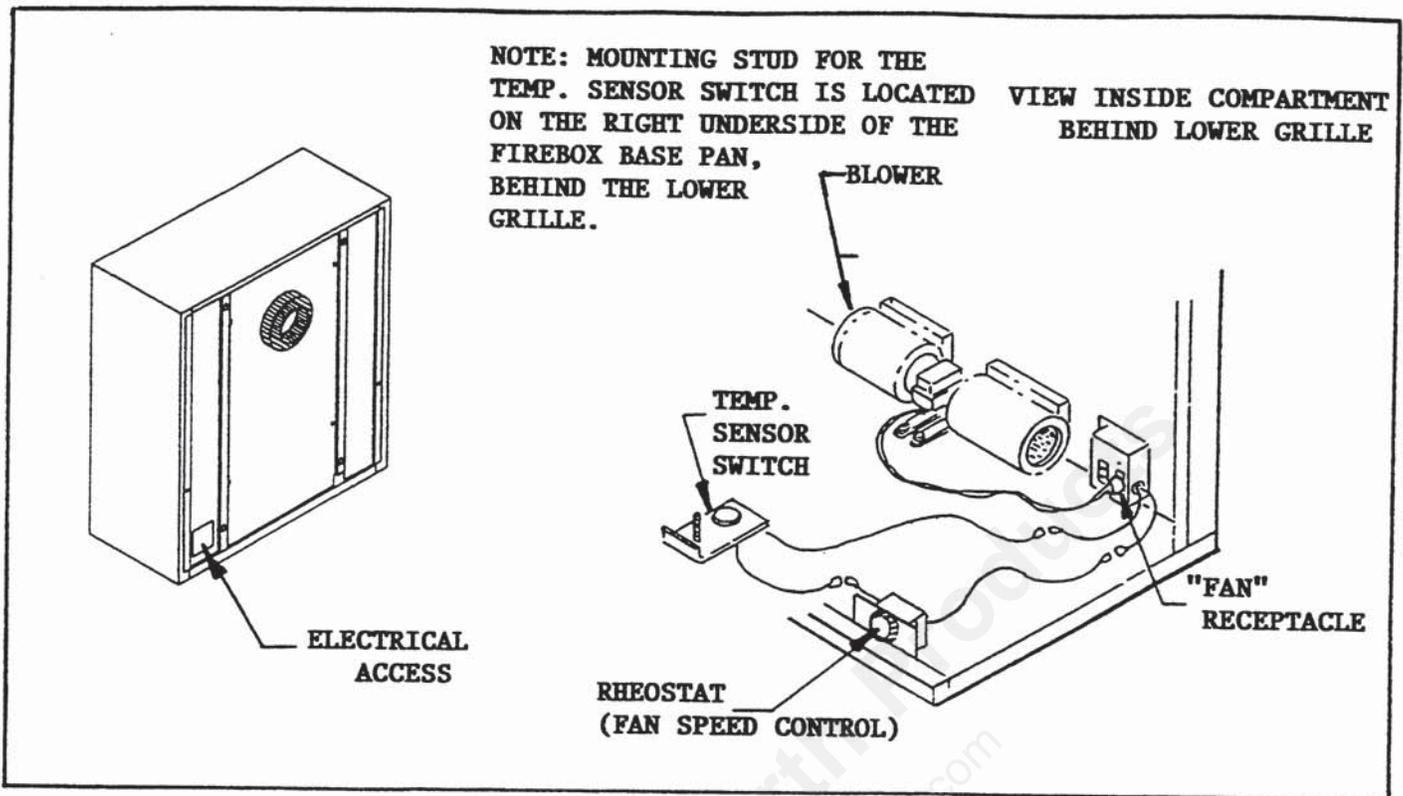


FIGURE 24

3.9 WALL SWITCH WIRING

An optional Wall Switch (WSK-21) may be wired to this appliance. The Wall Switch **DOES NOT** require 110-120 VAC. Connect low voltage wires from the optional switch installed to the red and brown pigtail wires (labeled Optional Wall Switch, Remote, or Thermostat) from the ON/OFF rocker switch. Set the unit's ON/OFF rocker switch to the "OFF" position. After lighting the pilot, activate the optional switch installed to control the main burner of the unit. Detailed installation instructions for optional switches are found in each accessory kit.

NOTE: POSITION THE WALL SWITCH SO THAT A MAXIMUM OF 25 FEET OF LOW VOLTAGE WIRING FROM THE SWITCH TO THE FIREPLACE IS USED.

WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL WIRING SYSTEM - OR TO AN OPTIONAL WALL SWITCH.

3.10 FINISHING

Finish the walls with the material of your choice. Figure 25 shows the minimum vertical and corresponding maximum horizontal dimensions of mantels or other combustible projections above the top front edge of the fireplace.

When finishing the fireplace **NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.**

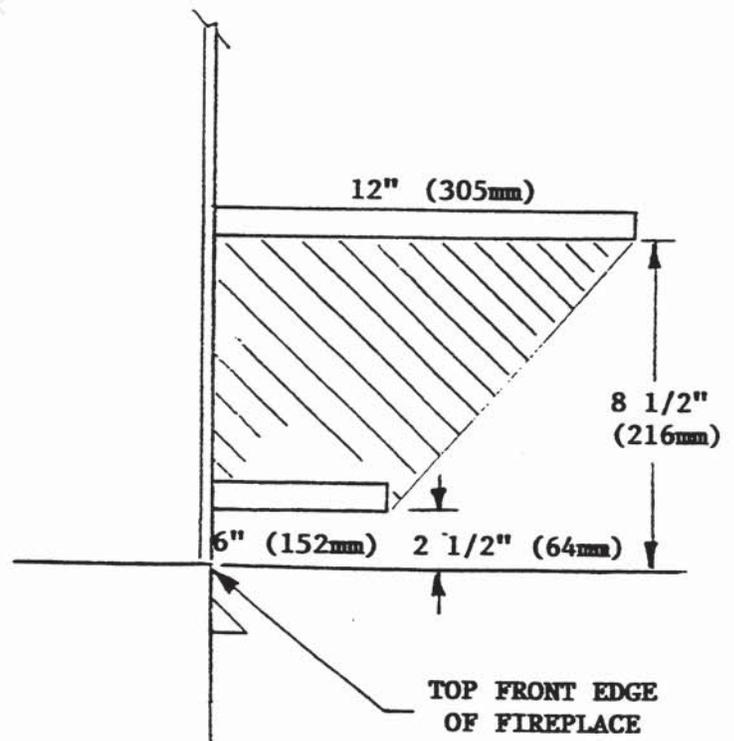


FIGURE 25

CAUTION: IF JOINTS BETWEEN THE FINISHED) WALL AND THE FIREPLACE SURROUND (TOP AND SIDES) ARE SEALED, A 300° F. (149C) MINIMUM SEALANT MATERIAL MUST BE USED. THESE JOINTS ARE NOT REQUIRED TO BE SEALED. ONLY NON-COMBUSTIBLE MATERIAL, USING A 300° F. (149C) MINIMUM ADHESIVE IF NEEDED, CAN BE APPLIED AS FACING TO THE FIREPLACE SURROUND. SEE FIGURE 26.

DO NOT put any finishing material on the Vent Cap. DO NOT extend a combustible overhang more than 1-1/2 inches beyond the exterior wall itself, unless the overhang is at least 18 inches above the cap (See Figure 18).

3.11 HEARTH EXTENSION

While a hearth extension may be desirable for aesthetic reasons, it is not required for decorative gas fireplaces per ANSI or CAN/CGA testing standards.

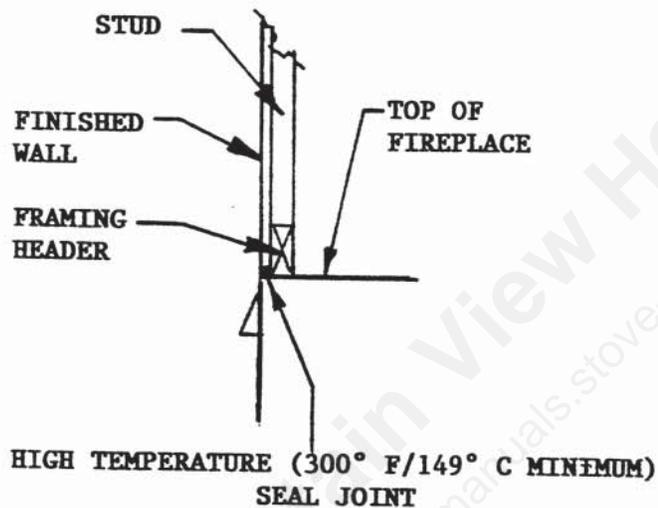


FIGURE 26

4.0 ELECTRICAL SAFETY SYSTEM

WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR CONTROL WIRING SYSTEM OF THIS UNIT.

The gas control system is wired so that when the pilot is "ON" (burner "OFF") and heating the thermopile and thermocouple, the thermopile will provide approximately 350 to 500 millivolts and the thermocouple will provide 15-25 millivolts. These signals activate the gas control valve. Additionally, a high temperature limit switch is wired to ground and will shut-off the main burner should a high surface temperature condition occur. The main burner will must be re-lit when the fireplace cools. See Figure 23-Unit Wiring Diagram.

5.0 OPERATING GUIDELINES MAINTENANCE INSTRUCTIONS

Upon completing the gas line connection, a small amount of air will be in the lines. When first lighting the pilot light, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the pilot and burner will light and operate as indicated in the Instruction Manual.

Subsequent lightings of the appliance will not require such purging.

CAUTION: DURING THE INITIAL PURGING AND SUBSEQUENT LIGHTING'S **NEVER** ALLOW THE GAS VALVE CONTROL KNOB TO REMAIN DEPRESSED IN THE "PILOT" POSITION WITHOUT PUSHING THE RED IGNITOR BUTTON AT LEAST ONCE EVERY SECOND.

When lit for the first time, the appliance will emit a slight odor for an hour or two. This is due to paint and lubricants used in the manufacturing process. Additionally, for the first few minutes after each lighting, vapor may condense and fog the glass and the flames may be blue. After a few minutes this moisture will disappear and within 15-30 minutes the flames should become yellow.

The fireplace may produce a noise, caused from metal expansion and contraction as it heats up and cools down. This noise is similar to one that a furnace or heat duct may produce and does not affect the operation or longevity of the fireplace.

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

CAUTION: THE LOGS CAN GET VERY HOT - HANDLE ONLY WHEN COOL.

Always turn off gas to the pilot before cleaning. For relighting, refer to lighting instructions located behind the lower front trim assembly. The appliance and venting system should be inspected before initial use and at least annually by a qualified field service person.

Always keep the appliance area 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.

To obtain proper operation, it is imperative that the pilot and main burner flame characteristics are steady, not lifting or floating. Typically, the top 3/8-inch at the pilot thermopile/thermocouple should be engulfed in the pilot flame (Figure 27).

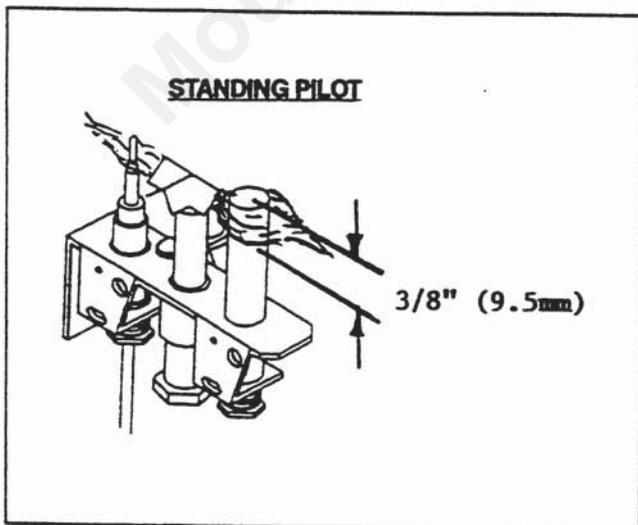


FIGURE 27

WARNING: 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.

WARNING: DO NOT USE ABRASIVE CLEANERS ON THE GLASS DOOR ASSEMBLIES. DO NOT ATTEMPT TO CLEAN THE GLASS DOORS WHEN THEY ARE HOT.

IMPORTANT: TURN OFF GAS BEFORE SERVICING APPLIANCE. IT IS RECOMMENDED THAT A COMPETENT SERVICE TECHNICIAN PERFORM THESE CHECK-UPS AT THE BEGINNING OF EACH HEATING SEASON.

Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

5.1 GLASS DOOR REMOVAL

1. To remove the glass door, you must remove the trim door by lifting it up and pulling it away from the outer surround.

NOTE: The top and bottom grilles can stay in place on the fireplace.

2. Noting carefully how the brackets fit on the glass, remove wing nuts and brackets from the glass door.

3. The glass door is now ready for removal.

5.2 CLEANING BURNER AND PILOT

In order to properly clean the burner and pilot assembly, turn off the gas to the unit and remove the logs exposing the burner and pilot assembly. Clean all foreign materials from top of burner. Check to make sure that the burner orifice is clean.

Visually inspect the pilot periodically. Brush or blow away any dust or linen accumulations. If the pilot orifice is plugged, disassembly may be required to remove any foreign material from the orifice or tubing. When the appliance is put back in service check burner flame patterns with Figure 28.

By design, the flame pattern will not be identical from unit to unit. Additionally, flame pattern may vary depending on installation type and weather conditions.

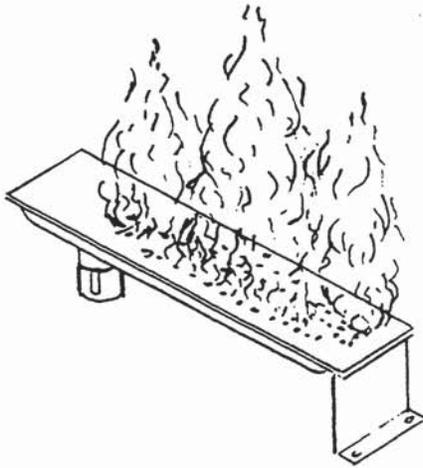


FIGURE 28

5.3 LOG REPLACEMENT

1. Remove the trim and glass door assemblies (See Section 5.1).
2. The Log(s) can now be removed as required. Replace the log(s) as previously shown in Figure 2 - Gas Log Positioning. Replace glass door and trim door.

5.4 GLASS DOOR REPLACEMENT

1. Before replacing the glass door make sure the logs are properly positioned.
2. Place the bottom edges of the glass door on the bottom mounting studs on the fireplace. The bottom of the door **MUST** depress the microswitch button.

NOTE: IF THE GLASS DOOR DOES NOT PUSH AGAINST THE MICROSWITCH THE FIREPLACE BURNER WILL NOT LIGHT.

3. With glass door in place push glass against unit and at the same time put brackets on upper portion of door and tighten the wing nuts provided.
4. Attach the brackets at the sides and bottom of the glass and hand tighten.

NOTE: WING NUTS THAT SECURE THE GLASS ONLY NEED TO BE HAND TIGHTENED TO GIVE A SNUG FIT FOR PROPER GASKET SEAL. OVERTIGHTENING MAY RESULT IN DAMAGED GLASS.

5. Replace the trim door proceeding in reverse order of step 1 under Glass Door Removal.

WARNING: THE GLASS DOOR ASSEMBLY MUST BE IN PLACE AND SEALED AND THE TRIM ASSEMBLY MUST BE IN PLACE ON THE FIREPLACE BEFORE THE UNIT CAN BE PLACED INTO SAFE OPERATION.

6.0 SAFETY INFORMATION

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

- A. This appliance has a pilot. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- 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. Forced 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 gas control system which has been under water.

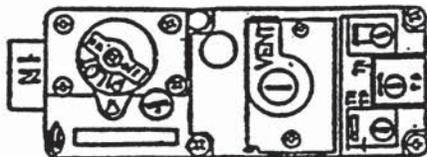
WHAT TO DO IF YOU SMELL GAS

- 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.

7.0 LIGHTING INSTRUCTIONS

LIGHTING INSTRUCTIONS

1. "STOP!" Read the safety information on previous page.
2. To access controls open the lower grille and turn off electric power to the appliance.
3. Turn the valve control knob to the "OFF" position. To do this, you must turn the knob clockwise  to the "PILOT" position, and then press in and continue turning clockwise  to the "OFF" position.



GAS CONTROL VALVE

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

4. WAIT FIVE (5) MINUTES TO CLEAR OUT ANY GAS. Then smell for gas, including near the floor. If you then smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.
5. The pilot should not require accessing for lighting purposes. The pilot is located inside the combustion chamber. If it is necessary to access the pilot, follow the instructions in Section 5.1 and 5.4 for glass door removal and replacement.

THERMOCOUPLE PILOT THERMOPILE



6. To put the control in the "PILOT" position, turn the control knob counter-clockwise  to the "PILOT" position.
7. To light the pilot depress the control knob and then depress the red piezo button until it makes a clicking sound. It may be necessary to repeat this step. If the pilot does not light after 10 seconds, go back to step 3. The control knob should be held down for a MINUTE after pilot ignition.
 - If the control knob does not pop out when released, **STOP**-shut off the gas supply to the fireplace control valve, and **IMMEDIATELY** call your service technician or gas supplier.
 - If the pilot will not stay lit after two tries, turn the control knob to the "OFF" position and call your service technician or gas supplier.
8. After the pilot has been lit, the burner can be turned on by turning the knob counter-clockwise  to the "ON" position. Flip the ON/OFF switch to the "ON" position.
9. Close the lower grille and turn on electrical power to the appliance.

TO TURN OFF GAS APPLIANCE

1. Turn off all electric power to the appliance if service is to be performed.
2. Open the lower grill.
3. Turn ON/OFF switch to "OFF".
4. Turn the valve control knob clockwise  to the "PILOT" position, then depress knob and continue turning to "OFF" position.
5. Close the lower grill.

NOTE: TO PREVENT OVERHEATING THE UNIT, THE TIPS OF THE FLAMES SHOULD NEVER HIT THE TOP OF THE FIREBOX. CONTACT YOUR DEALER OR A QUALIFIED SERVICE PERSON IF ADJUSTMENTS TO THE UNIT MUST BE MADE.

LPG (PROPANE) WARNING

THE FOLLOWING WARNING APPLIES TO INSTALLATIONS USING L.P. (PROPANE) GAS:

WARNING: To avoid possible injury, fire and explosion, please read and follow these precautions and all instructions on this appliance before lighting the pilot. This appliance uses L.P. (Propane) gas **which is heavier than air and will remain at floor level if there is a leak. Before lighting, smell at floor level and/or use other means** (such as using a soap solution on all piping and connections, using a gas detector, etc.) **to check for gas leaks. NOTE: L.P. (Propane) gas can become odorless and CANNOT always be detected by smell.** If you smell gas, detect a gas leak, or suspect that a gas leak exists, follow these rules.

1. Get all people out of building.
2. DO NOT light matches. DO NOT turn electric lights or switches on or off in area. DO NOT use an electric fan to remove gas from area. DO NOT use a telephone inside the building.
3. Shut off gas at L.P. tank outside of building.
4. Telephone gas company and fire department. Ask instructions.

Before hanging up, give your name, address and phone number. DO NOT go back into building.

If your L.P. tank runs out of fuel, turn off gas at the appliance. After L.P. tank is refilled, appliance must be re-lit according to manufacturer's instructions. If the gas control has been exposed to WATER in any way, DO NOT try to use it. It must be replaced. DO NOT attempt repair on gas control or appliance.

Tampering is DANGEROUS and voids all warranties. Any component that is found to be faulty, must be replaced with an approved component.

8.0 HIGH ALTITUDE INSTALLATION

A.G.A. Design Certified units are tested and approved for elevations from 0-2000 feet. CGA approved units are certified for elevations from 0-4500.

When installing this unit at an elevation above 2000 feet, (in 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 4 percent for each 1000 feet above sea level. Check with your local gas company for help in determining proper orifice size.

When installing this unit at an elevation between 2000-4500 feet (in Canada) the input rating must be reduced by 10 percent.

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

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

9.0 TROUBLE SHOOTING - MODEL SL-3000

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

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
I. Spark Ignitor will not light pilot after repeated triggering of red button.	A. Defective ignitor (no spark at electrode).	1. Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
	B. Defective pilot or misaligned electrode (spark at electrode).	1. Using a match, light pilot. If pilot lights, turn off pilot and trigger the red button again. If pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light - check gas at electrode and pilot - should be 1/8 inch to have a strong spark. If OK, replace pilot.
	C. No gas or low gas pressure.	1. Check the unit's shut-off valve and remote shut-off valves from fireplace. Usually there is a valve near the main. There can be more than one (1) valve between the fireplace and main. 2. Low pressure can be caused by a variety of situations such as a bent line, too narrow diameter of pipe or even low line pressure. Check for kinked lines. If none, consult with plumber or gas supplier.
	D. No L.P. in tank.	1. Refill the fuel tank.
II. Pilot will not stay lit after carefully following lighting instructions.	A. Defective thermocouple.	1. Check that pilot flame impinges on thermocouple. Clean and/or adjust pilot for maximum flame impingement. 2. Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tight plus 1/4 turn). 3. Disconnect the thermocouple from the valve, place one millivolt meter lead wire on the tip of the thermocouple and the other meter lead wire on the thermocouple copper lead. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15 mv, replace the thermocouple.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
III. Pilot burning, no gas burner, valve knob "ON", "on-off" switch "ON".	B. Defective valve.	1. If thermocouple is producing more than 15 millivolts, replace faulty valve.
	A. "On-Off" switch, wall switch, or wires defective.	1. Check "on-off" switch and wires for proper connections. Place jumper wires across terminals at switch-if burner comes on, replace defective switch. If OK, place jumper wires across switch wires at gas valve-if burner comes on, wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivoltage.	1. If the pilot flame is not close enough physically to the thermopile, adjust the pilot flame. 2. Be sure the wire connections from the thermopile at the gas valve terminals are tight and the the thermopile is fully inserted into the pilot bracket. 3. Check the thermopile with a millivolt meter. Take the reading at TH-TP & TP terminals of the gas valve. The meter should read 325 millivolts minimum, while holding the valve knob depressed in the pilot position, with the pilot lit, and the ON/OFF switch in the OFF position. Replace the faulty thermopile if the reading is below the specified minimum.
		<p>With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 325 millivolts minimum. Replace the thermopile if the reading is below the minimum.</p>

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
C. Defective valve.		<ol style="list-style-type: none"> 1. Turn valve knob to "ON". Place ON/OFF switch to "ON". Check with millivolt meter at thermopile terminals. Millivolt meter should read greater than 100 m.v. If the reading is okay and the burner does not come on, replace the gas valve.
D. Glass door does not fully depress Microswitch.		<ol style="list-style-type: none"> 1. Adjust glass so it fully depresses the microswitch. (Do not operate the unit with broken or cracked glass.) 2. If fully depressed, place jumper wires across connectors and if it allows you to re-ignite, the switch should be replaced. Do not operate unit with jumper wires in place. When jumper wires are in place and the unit won't re-ignite, you may have problems with the wiring or connectors.
E. Plugged burner orifice.		<ol style="list-style-type: none"> 1. Check burner orifice for stoppage and remove.
F. Wall switch, or wires defective.		<ol style="list-style-type: none"> 1. Follow corrective action in A.1 above; check switch and wiring. Replace where defective.
G. High limit switch is defective or has reached its maximum temperature.		<ol style="list-style-type: none"> 1. Allow the unit to cool. If the burner remains lit, after the fireplace warms up, the switch is good. 2. If the corrective action for Symptom 1 above does not result in ignition, or if the fireplace continues to shut off, disconnect the limit switch wire from the gas valve and repeat the lighting instructions. If the pilot and the burner remain lit after the fireplace warms up, replace the limit switch. Do not use the fireplace until the high limit switch is replaced and properly wired.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
IV. Frequent pilot outage problem.	A. Pilot flame may be too high or too low, or blowing (high), causing pilot safety to drop out.	1. Clean and adjust pilot flame for maximum flame impingement on the thermocouple. Follow lighting instruction carefully.
V. The pilot and main burner extinguish while in operation.	A. No L.P. in tank.	1. Check L.P. (Propane) tank. Refill fuel tank.
	B. Inner vent pipe leaking exhaust gases back into system.	1. Check for leaks.
	C. Glass too loose and air tight, gasket leaks in corners after usage.	1. Be certain glass assembly is installed correctly and tighten corner.
	D. Horizontal vent improperly pitched.	1. The horizontal vent cap should slope down only enough to prevent any water from entering the unit. The maximum downward slope is 1/4 inch.
	E. Bad thermopile or thermocouple.	1. Replace if necessary.
	F. Improper vent cap installation.	1. Check for proper installation and freedom from debris or blockage.
VI. Glass soots	A. Flame impingement on logs.	1. Adjust the log set so that the flame does not excessively impinge on it.
	B. Improper venturi setting.	1. Adjust the air shutter at the base of the burner.
	C. Debris around venturi.	1. Inspect the opening at the base of the burner. It is imperative that NO material be placed in this opening.
VII. Flame burns blue and lifts off burner.	A. Insufficient oxygen being supplied.	<p>1. Check to make sure vent cap is installed properly and free of debris. Make sure that vent system joints are tight and have no leaks.</p> <p>2. Check to make sure that no material has been placed at the burner base.</p> <p>3. Be sure glass is tightened properly on unit, particularly on top corners.</p>

**LIMITED 10 YEAR WARRANTY
HEAT-N-GLO GAS FIREPLACE PRODUCTS**

In order to presumptively establish the dates to which your HEAT-N-GLO Limited Warranty runs, you must mail the completed warranty card to HEAT-N-GLO FIREPLACE PRODUCTS, INC., 6665 West Highway 13, Savage, MN 55378, within 60 days of the date of the fireplace installation. If you fail to do so, you may be required to prove the date of installation before warranty work can be performed.

The warranty exclusions and limitations of liability are effective upon installation of the fireplace.

Subject to the conditions set forth herein, HEAT-N-GLO FIREPLACE PRODUCTS, INC. ("HEAT-N-GLO") extends the following warranty with respect to HEAT-N-GLO Gas Fireplace Products.

If HEAT-N-GLO is reasonably satisfied that any part or portion of the fireplace covered by this Limited Warranty is defective in material or workmanship under normal use and service as described in the Operating Instructions, HEAT-N-GLO will take the following actions:

1. If the defect is reported during the first year from the date of installation (stainless steel burners and fiber logs are covered for 3 years), HEAT-N-GLO will replace or repair the defective components at its sole expense. The decision whether to replace a component shall be made at HEAT-N-GLO's sole discretion. This Limited Warranty does not cover components broken during shipping, misuse or careless handling. HEAT-N-GLO shall be not responsible for any indirect, incidental, or consequential damages or for any costs other than those incurred by HEAT-N-GLO to repair or replace the defective component. If components (including venting) other than factory approved components are used, all warranty and liability on the fireplace is voided. **Defects reported after the first year will not be covered by warranty unless they fall within the purview of paragraph 2 or 3 below.**
2. If the following defects are reported during the second year after the date of installation, HEAT-N-GLO will supply replacement parts at the current wholesale price: defective electrical or manual components, optional components or accessories, and glass panels (not including glass panels broken during misuse or careless handling). HEAT-N-GLO shall not be responsible for any labor, transportation or other costs. Furthermore, it shall not be liable for any indirect, incidental or consequential damages.
3. HEAT-N-GLO will replace or repair a defective firebox or heat exchanger, at any time during the 10 years from the date of installation. The decision whether to replace the defective component shall be made at HEAT-N-GLO's sole discretion. HEAT-N-GLO shall not be responsible for any indirect, incidental or consequential damages or for any costs other than those incurred by HEAT-N-GLO to repair or replace the defective component.

This Limited Warranty is the exclusive remedy available to you. If HEAT-N-GLO cannot effectively resolve a warranty problem in an expedient and cost-effective manner, it can discharge its entire warranty liability by refunding the price of the product to you.

Products made by other manufacturers, whether sold with the fireplace or added thereafter, are NOT covered by this Limited Warranty. The use of other unauthorized components will make this warranty null and void. This Limited Warranty will also be void if the appliance is not installed by a qualified installer in accordance with the Installation Instructions. Furthermore, the Limited Warranty will be void if the fireplace is not operated, at all times, according to the Operating Instructions furnished with the fireplace. Any service work must be performed by authorized service representatives.

EXCEPT TO THE EXTENT PROVIDED BY LAW, NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THE FIREPLACE PRODUCT. In States that do not allow limitations on how long an implied warranty lasts, or do not allow exclusion of indirect damages, those limitations or exclusions may not apply to you. You may also have additional rights not covered in this Limited Warranty.

HEAT-N-GLO reserves the right to make changes at any time, without notice, in design, material, specifications and prices. It also reserves the right to discontinue styles and products.