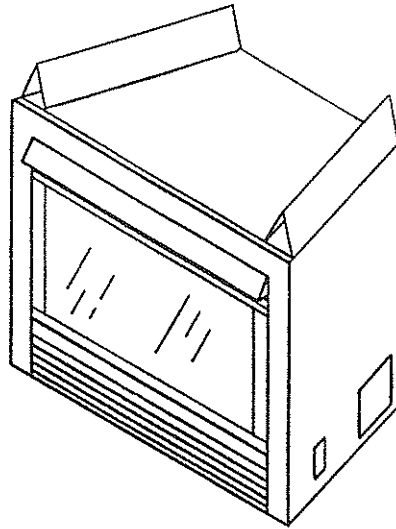




This appliance has been retired.
Service parts pages within have been removed.
For replacement parts, please refer to the individual
service parts list located on the brand websites.



U.S. PATENTS 4,793,322; 4,875,464; and 5,000,162
Canadian Patent 1,297,749

MODEL 6000SGDV 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 W. Hwy 13 Savage, MN 55378 (612)890-8367



INSTALLATION AND OPERATION INSTRUCTIONS

**PLEASE READ THIS MANUAL BEFORE INSTALLING AND USING THE FIREPLACE
MODEL 6000SGDV IS A.G.A. DESIGN CERTIFIED AND CGA CERTIFIED FOR
NATURAL GAS OR PROPANE**

Requires one of the following vent systems for installation:

- ♦ DVK-01D, DVK-02D HORIZONTAL TERMINATION KITS
- ♦ DVK-01SD, DVK-02SD
- ♦ DVK-01TRD, DVK-02TRD

- ♦ DVK-TVCD VERTICAL TERMINATION CAP

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

**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.

**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.

Save this Manual for future reference.

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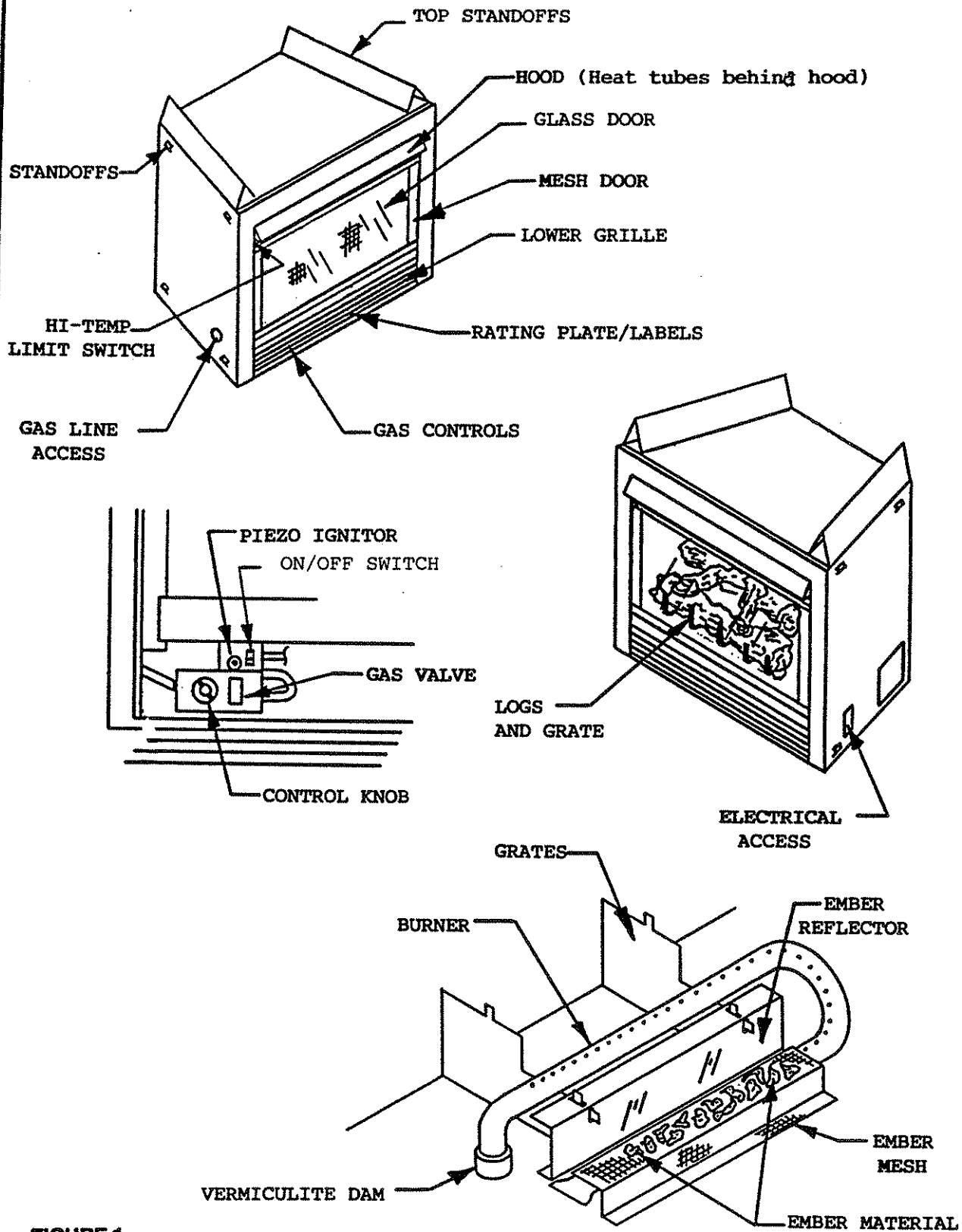


FIGURE 1

1.0 INTRODUCTION

Model 6000SGDV is a Gravity-Type Direct Vent Wall Furnace. It is designed to operate with all combustion air being siphoned from the outside of the building and all exhaust gases expelled to the outside of the building.

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

The 6000SGDV **MUST** use one of the vent terminations listed on page 1 and described in the venting section of this manual. **NO other vent terminations or components may be used unless described in these instructions.**

The control system for Model 6000SGDV is a millivolt type. It consists of a gas control valve/regulator, a standing pilot assembly, a thermopile, a piezo ignitor, an ON/OFF rocker switch, and a safety high temperature limit switch. The controls are located in the lower compartment behind the grille. Access to this compartment is gained by rotating up the bottom grille. 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).

The efficiency rating of the appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

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

Minimum clearances in inches to combustibles are: Glass Front 36, Floor 0, Back 1/2, Sides 1/2, Top 3 1/2 (top, side and back clearances are defined by the standoffs). Minimum distance from the ceiling to the top front of the unit is 31 inches. The back of the unit may be recessed 21-1/2 inches within combustible construction. Minimum clearance to a perpendicular wall extending past the front face of the unit is 1-inch.

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 10.5 inches w.c. natural gas and 13.0 inches w.c. 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 fireplace 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 vent system and gas logs are in separate packages. 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 THROUGH AN OUTSIDE WALL 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.

Two separate bags of ember materials have been 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 lower burner ember screen. 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 lower burner ember screen. Alternately place dime size and shape pieces of Golden Ember (GE-93) flame colorant replacement material and Glowing Ember (050-721) standard ember material onto any open areas on top of the lower burner ember screen 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 replenishing the 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**.

To install the logs, remove the front mesh trim and glass door assemblies. Place the bottom front and rear logs on the grates using the holes in the bottom of the logs and the tabs on the grates. (See Figure 2). Position the middle right and left logs in the cut-out areas on top of the bottom logs. Place the top right and left twigs in the flat cut-out areas on top of the middle logs.

WARNING: THE GAS LOGS MUST BE PROPERLY POSITIONED, WITH NO FLAME IMPINGEMENT ON THEM, OR THE FIREPLACE WILL NOT FUNCTION PROPERLY AND MAY RESULT IN SOOT ACCUMULATION ON THE INSIDE OF THE FIREBOX. IF THE BURNER FLAME IMPINGES ON THE LOGS, REPOSITION THEM SO THAT NO IMPINGEMENT OCCURS.

Replace the glass door and mesh trim assemblies. THE UNIT WILL NOT OPERATE UNLESS THE GLASS DOOR IS SECURED IN PLACE AND SEALED.

WARNING: DO NOT OPERATE THIS 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.

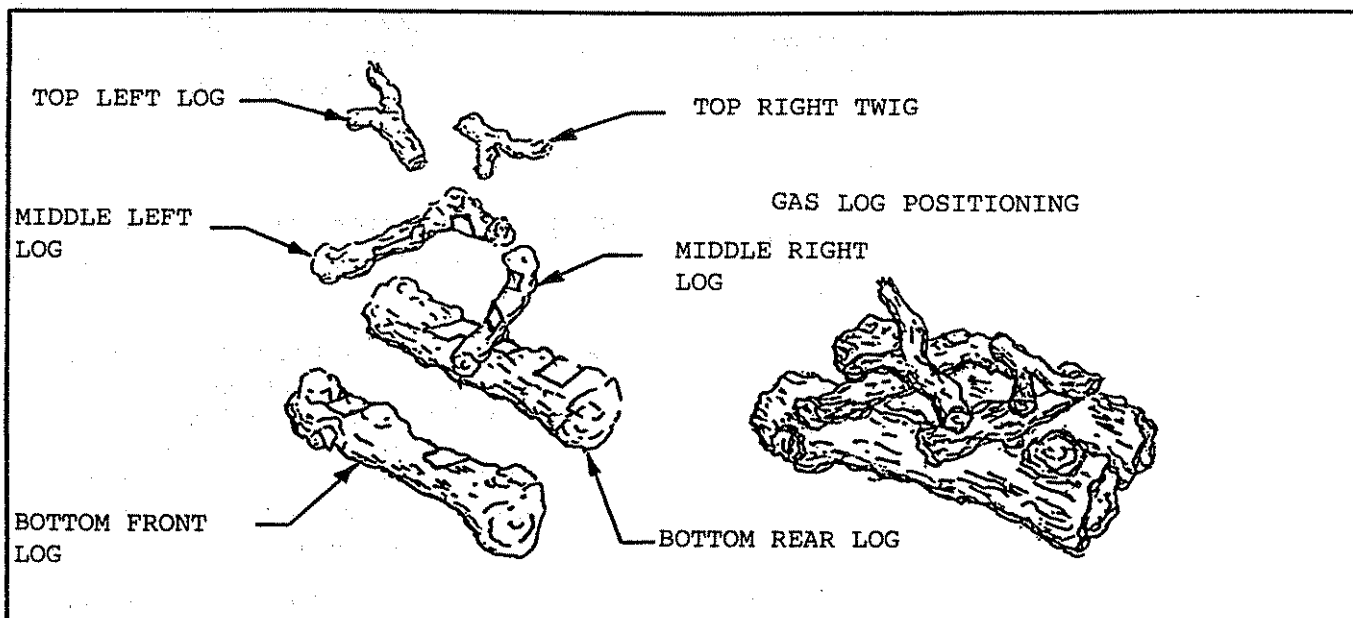


FIGURE 2

WARNING: THE GLASS DOOR ASSEMBLY 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 underwater.

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.

3.0 INSTALLATION INSTRUCTIONS

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

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

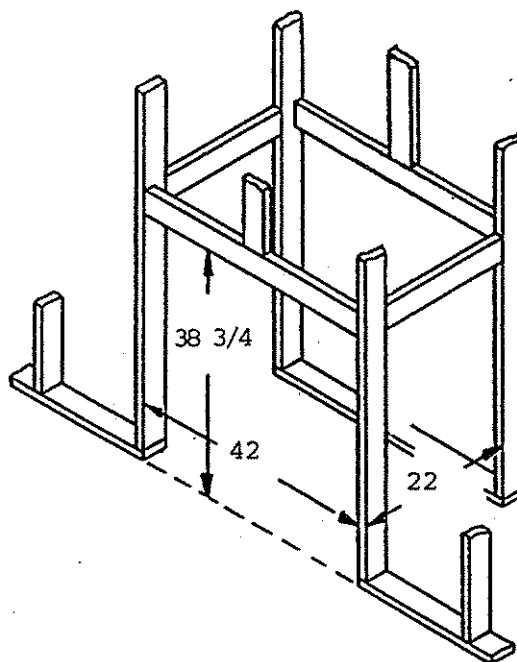
1. A flat combustible surface other than carpeting.
2. A raised wooden platform.
3. Four (4) corner supports.

(Example: Four (4) concrete masonry blocks). These supports must be positioned so they contact all four (4) perimeter edges on the bottom of the unit.

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.

Fireplace 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 fireplace standoffs. 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.





*MINIMUM DIMENSIONS

FIGURE 4

MODEL	VENT TERMINATION APPROVALS				
6000SGDV	DVK-01D DVK-01TRD	DVK-02D DVK-02TRD	DVK-01SD	DVK-02SD	DVK-TVCD

TABLE 1

3.1 VENT SYSTEM APPROVALS

This model is approved to use D-Series direct vent pipe components.

Tables 1 through 6 and Figures 5 through 8 show the vent systems approved for use with Model 6000SGDV. 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.

HORIZONTAL VENTING

Table 2 and Figure 5 show the horizontal vent termination kits approved for use on this model.

ELBOWS

The vent systems installed on this gas fireplace may also include one (1), two (2), or three (3) 90-degree elbow assemblies. The following relationships of vertical rise to horizontal run in vent configurations using 90-degree elbows **MUST** be strictly adhered to.

NOTE: 45-DEGREE ELBOWS (DV-45D) MAY BE USED IN PLACE OF 90 -DEGREE ELBOWS.

ONE (1) 90-DEGREE ELBOW

Figure 6 and Table 3 show examples of possible installations using one (1) 90-degree elbow. Dimension V is listed as **MINIMUM** vertical dimensions and dimension H is listed as corresponding **MAXIMUM** horizontal dimensions. Vertical dimensions are based on centerline of pipe to end of termination. Horizontal dimensions are based on back of unit to centerline of pipe. A vent system using one 90-degree elbow will result in a vertical termination.

If straight sections of vent pipe are first attached to the unit, there must be at least a 1-foot vertical rise for each 2-feet of horizontal run. The maximum vertical rise is 40-feet, and the maximum horizontal run is 8-feet.

TWO (2) 90-DEGREE ELBOWS

Figure 7 and Table 4 show examples of possible installations using two (2) 90-degree elbows. Dimension V is listed as **MINIMUM** vertical dimensions, dimension H is listed as **MAXIMUM** beginning horizontal dimensions, and dimension $H+H_1$ is listed as corresponding **TOTAL MAXIMUM** horizontal dimensions. Vertical dimensions are based on centerline to centerline of pipe. Horizontal dimensions H are based on back of unit to centerline of pipe. Horizontal dimensions H_1 are based on centerline of pipe to end of termination.

Elevated vent systems using two (2) 90-degree elbows, **MUST** have at least a 1-foot vertical rise for each 6-feet of horizontal run. The **MAXIMUM** vertical rise is 20-feet and the **MAXIMUM** beginning horizontal run H is 8-feet. The **MAXIMUM TOTAL** horizontal run $H+H_1$ is 24 feet (20-feet in Canada). A vent system using two 90-degree elbows will result in a horizontal termination.

THREE (3) 90-DEGREE ELBOWS

Figure 8 and Table 5 show examples of possible installations using three (3) 90-degree elbows and a horizontal termination. Figure 8 and Table 6 show examples of possible installations using three (3) 90-degree elbows and a vertical termination. Dimensions V are listed **MINIMUM** first vertical dimensions and dimensions H are listed as beginning **MAXIMUM** horizontal dimensions. Dimensions $H+H_1$ (vertical termination) and $H+H_1+H_2$ (horizontal termination) are listed as **TOTAL MAXIMUM** horizontal dimensions. A vent system using three (3) 90-degree elbows can terminate either horizontally or vertically.

Elevated vent systems using three (3) 90-degree elbows **MUST** maintain the following relationships.

1. There **MUST** be at least a 1-foot vertical rise V for each 2-feet of beginning horizontal run H.
2. There **MUST** be at least a 1-foot total vertical rise V or $V+V_1$ for each 5-feet of total horizontal run $H+H_1$ or $H+H_1+H_2$.
3. The **MAXIMUM** vertical rise V is 20-feet, the **MAXIMUM** beginning horizontal run H is 8-feet, and the **MAXIMUM TOTAL** horizontal run $H+H_1+H_2$ is 20-feet for systems terminating horizontally. (See Table 5)
4. The **MAXIMUM** beginning horizontal run H is 8-feet and the **TOTAL MAXIMUM** horizontal run $H+H_1$ is 20-feet for systems terminating vertically. The **TOTAL MAXIMUM** vertical rise $V+V_1$ is 40-feet. (See Table 6)

3.2 VENT SYSTEM INSTALLATION PRECAUTIONS

Before starting installation of vent kits, the installer should read the Gas Fireplace Instructions and the D-Series Vent Kit Instructions to insure that the proper vent system has been selected for the installation.

Determine the exact position of the fireplace so the direct vent pipe is centered (if possible) between two building framing members. This will avoid any extra framing. Using a level, make sure the fireplace is properly positioned and squared. The 1/2 inch stand-offs on the sides and back of the fireplace may be positioned directly against combustible walls.

Consult your local Building Codes before beginning the installation.

WARNING: 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.

CAUTION: UNDER NO CONDITION SHOULD COMBUSTIBLE MATERIAL BE CLOSER THAN 3 INCHES (2 1/2 INCHES AT WALL FIRESTOPS) FROM THE TOP OF THE 8 5/8-INCH PIPE OR 1-INCH TO THE SIDES AND THE BOTTOM FOR HORIZONTAL SECTIONS OF THIS VENT SYSTEM. VERTICAL SECTIONS OF THIS SYSTEM REQUIRE A MINIMUM OF 1-INCH CLEARANCE TO COMBUSTIBLE MATERIALS ALL AROUND THE 8 5/8-INCH PIPE.

HORIZONTAL VENTING	
Kit No.	H MAX. RUN
DVK-01D	24"
DVK-01SD	
DVK-01TRD	
DVK-02D	24"
DVK-02SD	
DVK-02TRD	

TABLE 2

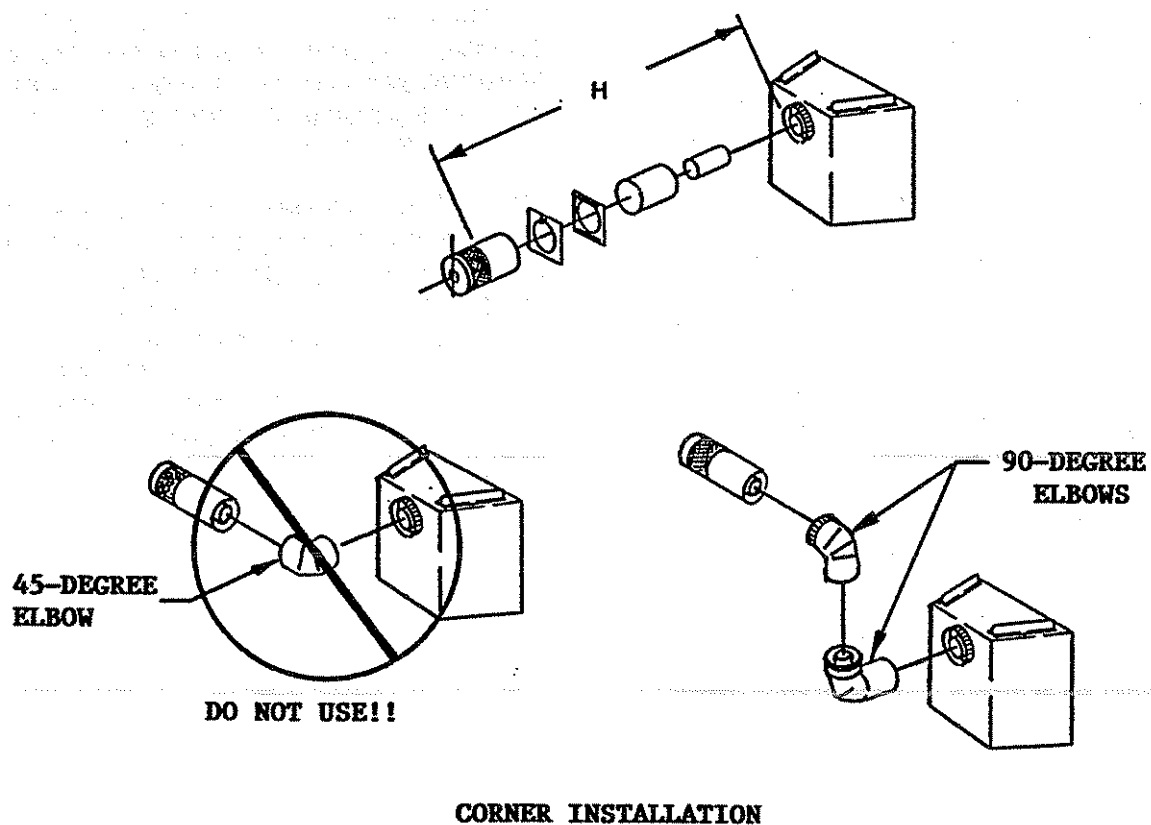


FIGURE 5

VENTING WITH ONE (1) 90° ELBOW

V (FT.)	H (FT.)
1' MINIMUM	2' MAXIMUM
2' MINIMUM	4' MAXIMUM
3' MINIMUM	6' MAXIMUM
4' MINIMUM	8' MAXIMUM
5' MINIMUM	8' MAXIMUM
40' MAXIMUM	8' MAXIMUM

TABLE 3

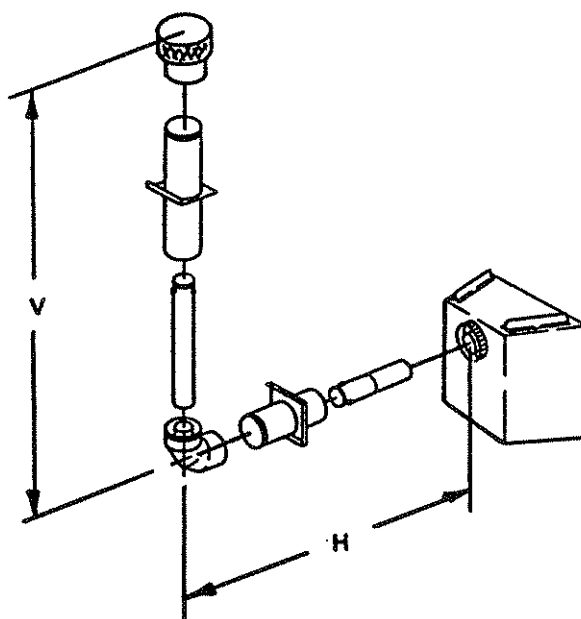


FIGURE 6

VENTING WITH TWO (2) 90° ELBOWS

V (FT.)	H (FT.)	H+H ₁ (FT.)
1' MIN.	2' MAX.	6' MAX.
2' MIN.	4' MAX.	12' MAX.
3' MIN.	6' MAX.	18' MAX.
4' MIN.	8' MAX.	24' MAX.
5' MIN.	8' MAX.	24' MAX.
20' MAX.	8' MAX.	24' MAX. (20' IN CANADA)

TABLE 4

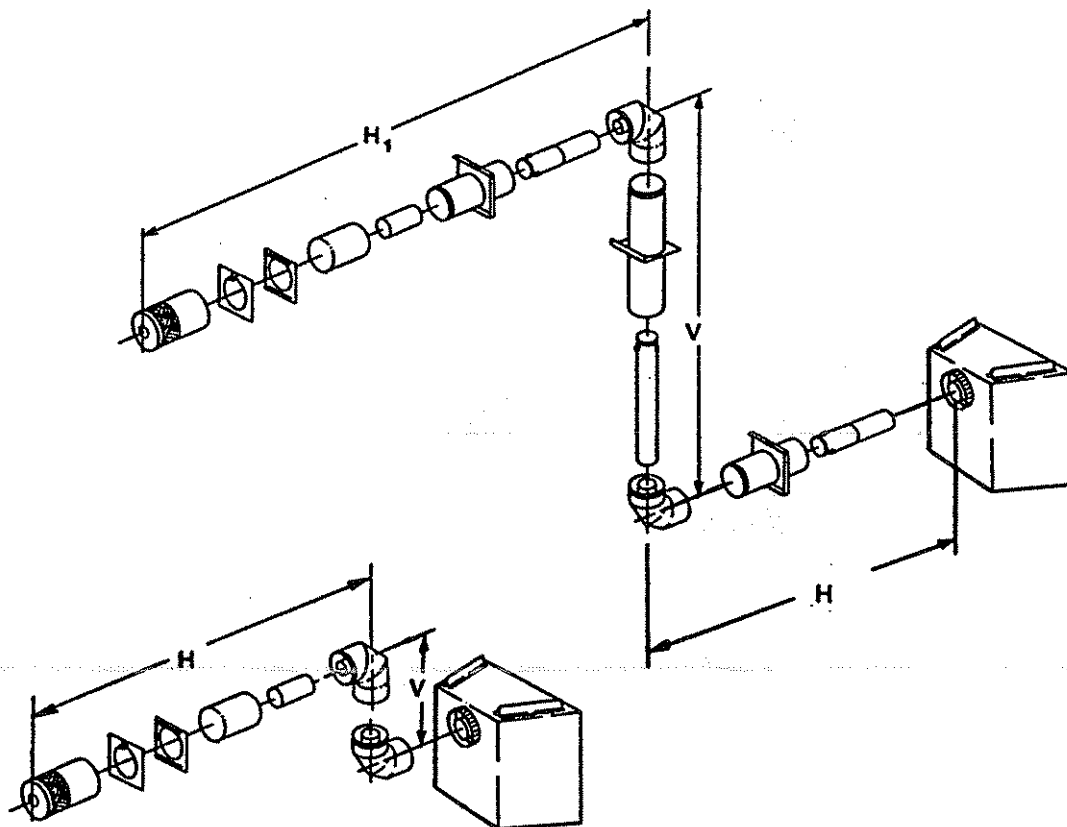
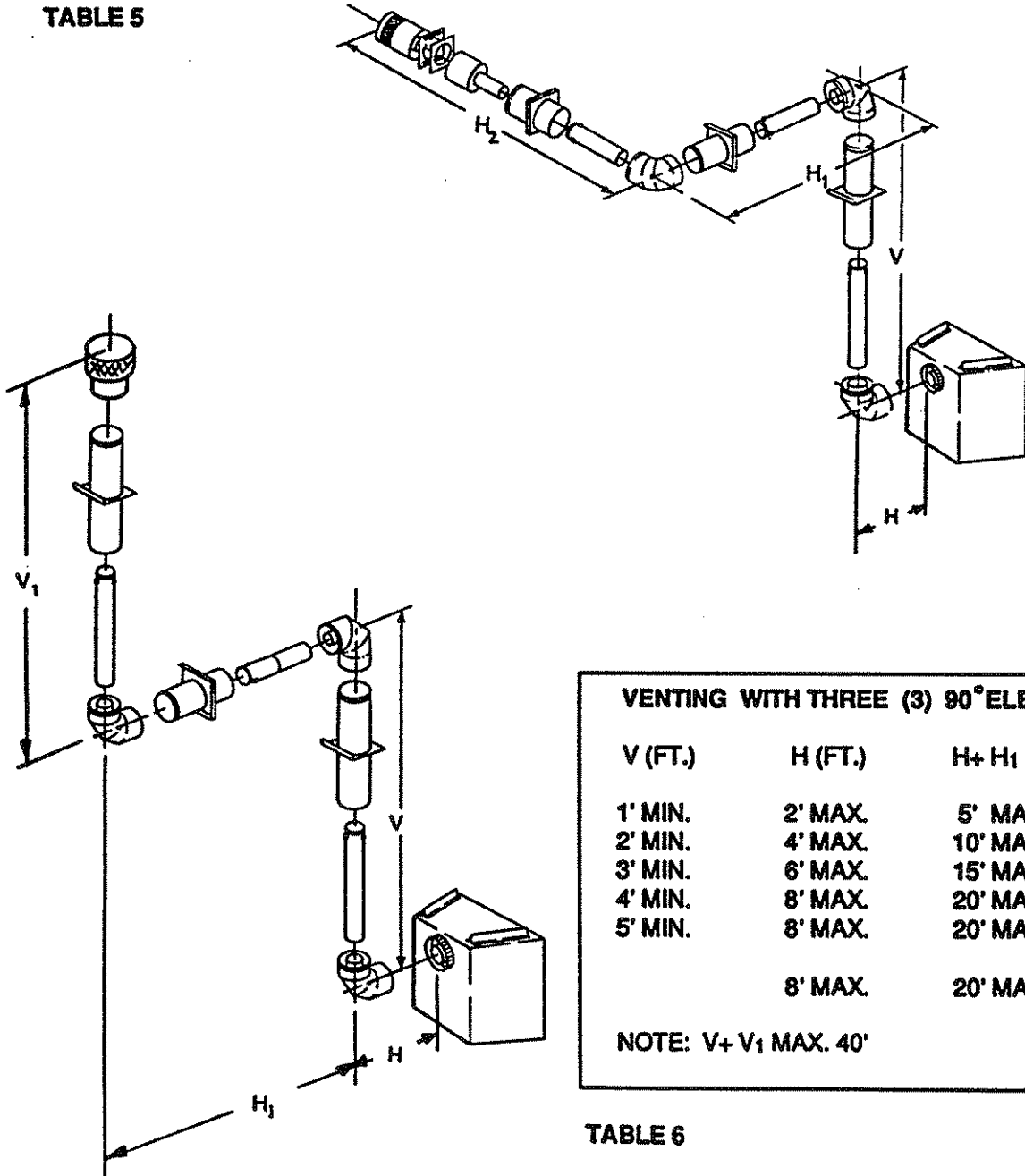


FIGURE 7

VENTING WITH THREE (3) 90° ELBOWS		
V (FT.)	H (FT.)	H+H ₁ +H ₂ (FT.)
1' MIN.	2' MAX.	5' MAX.
2' MIN.	4' MAX.	10' MAX.
3' MIN.	6' MAX.	15' MAX.
4' MIN.	8' MAX.	20' MAX.
5' MIN.	8' MAX.	20' MAX.
20' MAX.	8' MAX.	20' MAX.

TABLE 5



VENTING WITH THREE (3) 90° ELBOWS		
V (FT.)	H (FT.)	H+ H ₁ (FT.)
1' MIN.	2' MAX.	5' MAX.
2' MIN.	4' MAX.	10' MAX.
3' MIN.	6' MAX.	15' MAX.
4' MIN.	8' MAX.	20' MAX.
5' MIN.	8' MAX.	20' MAX.
	8' MAX.	20' MAX.

NOTE: V+ V₁ MAX. 40'

TABLE 6

FIGURE 8

3.2.1 INSTALLING THE VENT SYSTEM IN A CHASE

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.

3.3 INSTALLING VENT SYSTEM COMPONENTS

Attach the first vent component to the starting collars of the fireplace.

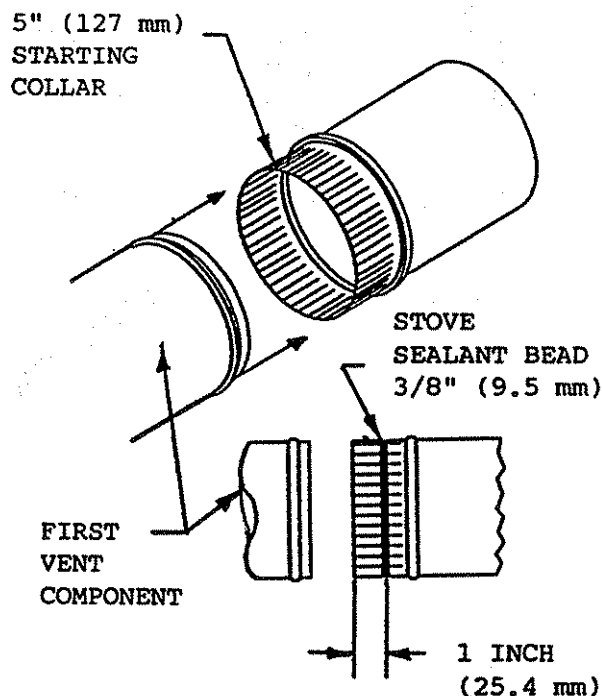
WARNING: A 3/8-inch bead of stove cement **MUST** be placed around the 5-inch fireplace starting collar before attaching the first vent component. Failure to seal this joint, may cause the fireplace to not operate properly.

All vent system components lock into place by sliding the concentric pipe section with four (4) equally spaced interior beads into the appliance collar or previously installed component end with four (4) equally spaced indented sections. When the internal beads of each starting 8 5/8-inch outer pipe line up, rotate the pipe section clockwise approximately 3 inches. The vent pipe is now locked together.

WARNING: MAKE CERTAIN THAT THE FIBER-GLASS ROPE GASKET SUPPLIED WITH THE FIREPLACE, SEALS BETWEEN THE FIRST VENT COMPONENT AND THE OUTER FIREPLACE WRAP.

90 degree 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) 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.



3.3.1 INSTALLING SUPPORT BRACKETS

A horizontal pipe support (DV-HPSD) **MUST BE** used for each 5 feet of horizontal run. The pipe supports should be placed around 8 5/8-inch diameter pipe and nailed in place to framing members. There **MUST** be a 3-inch clearance to combustibles above 8 5/8-inch diameter pipe and elbows and 1-inch clearance on both sides and bottom of 8 5/8-inch to combustibles on all horizontal pipe sections and elbows.

Vertical runs of this vent system must be supported every 4 feet above the fireplace flue outlet by wall brackets (DV-WBD) attached to the 8 5/8-inch vent pipe and secured with nails or screws to structural framing members. See Figure 9.

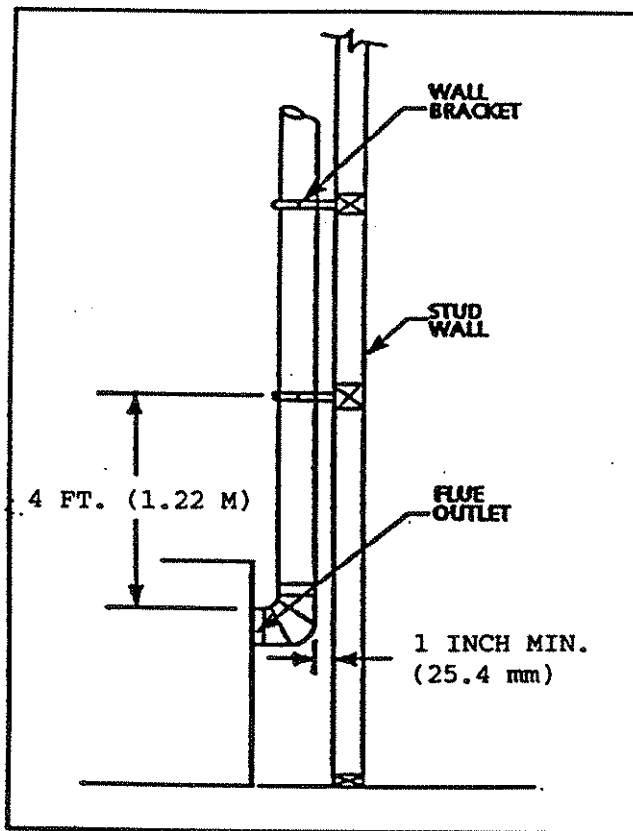


FIGURE 9

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 clearances are maintained to the vent system.

Horizontal runs in the vent system which pass through either interior or exterior walls, require the use of wall firestops (DV-FWD) on both sides of the wall through which the vent passes.

Cut a 12-inch X 12-inch hole through the wall-the center of the hole is 1-inch above the center of the horizontal vent pipe. See Figure 10.

Position the firestops on both sides of the 12-inch x 12-inch hole, previously cut. Secure with nails or screws. The heat shields of the firestops **MUST** be placed towards the top of the hole. (See Figure 11.) Continue the vent run through the firestops.

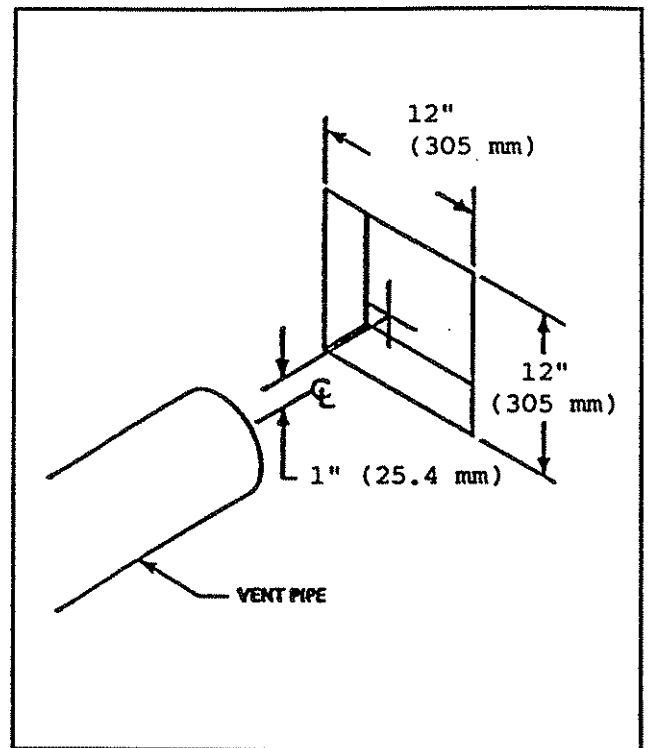


FIGURE 10

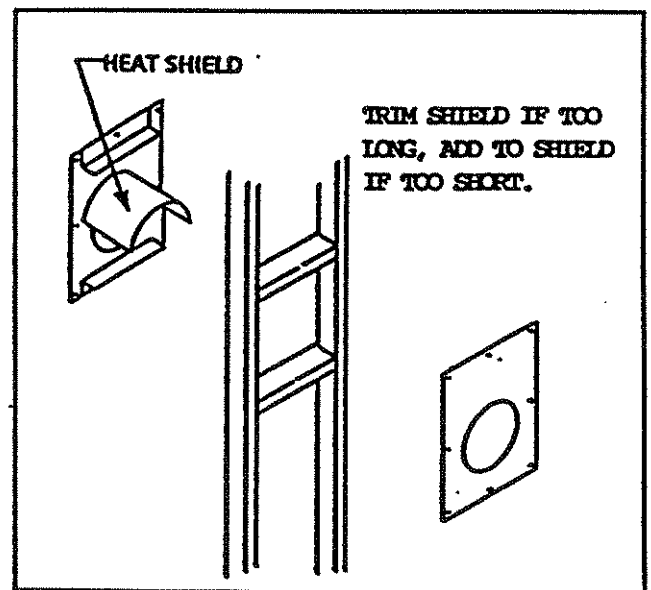


FIGURE 11

Vertical runs of this vent system which pass through ceilings require the use of one (1) ceiling firestop (DV-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 an 11-inch X 11-inch hole through the ceiling, using the center point previously marked. Frame the hole with framing lumber the same size as the ceiling joists. See Figure 12.

If the area above the ceiling is NOT an attic, position and secure the ceiling firestop (DV-FCD) on the ceiling side of the previously cut and framed hole. (See Figure 13.) If the area above the ceiling IS an attic, position and secure the firestop on top of the previously framed hole. (See Figure 14.)

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

WARNING: INSULATION MUST BE AT A 1-INCH MINIMUM CLEARANCE TO THE VENT PIPE AND MUST NEVER CONTACT THE PIPE.

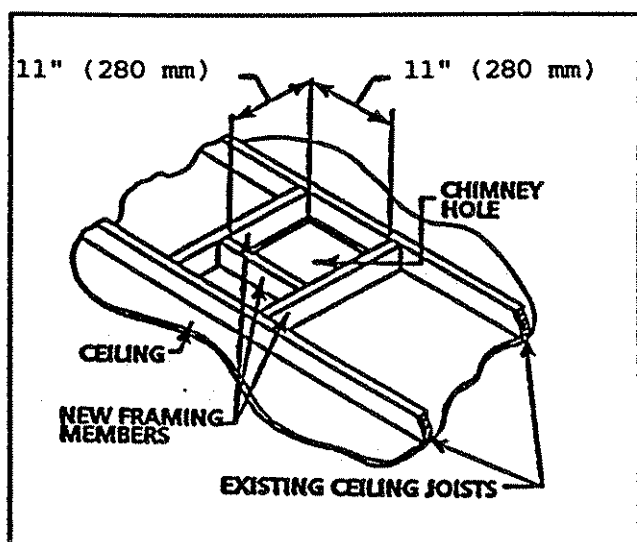


FIGURE 12

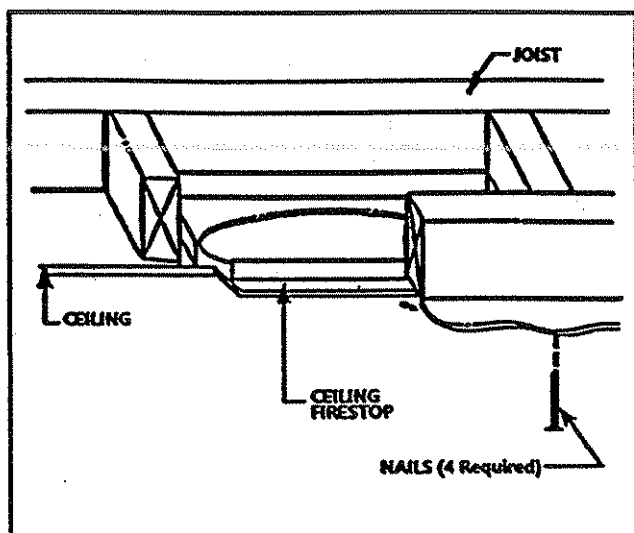


FIGURE 13

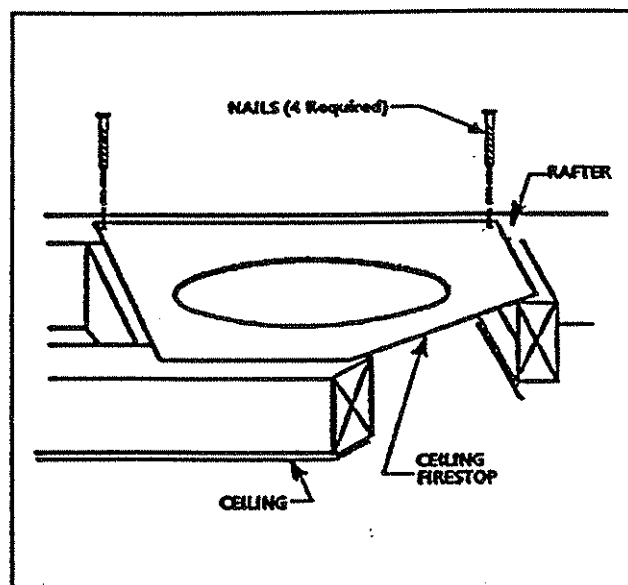


FIGURE 14

3.4 HORIZONTAL TERMINATIONS

DVK-01D, DVK-02D, DVK-01TRD, DVK-02TRD, DVK-01SD and DVK-02SD are telescoping vent kits which are used to terminate a vent system in a horizontal position. DVK-01D and DVK-02D have pre-assembled round termination caps. DVK-01SD and DVK-02SD have pre-assembled square termination caps. DVK-01TRD and DVK-02TRD have pre-assembled trapezoidal termination caps.

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

NOTE: 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 the vent holes are on the bottom and the arrow is pointing UP. (See Figure 15.)

For round cap termination kits use the exterior pipelock hole provided on the round flange of the wall firestop (DV-FWD) to secure the 8 5/8-inch pipe in place. For square and trapezoidal cap termination kits, secure the cap with screws to the exterior wall through the flanges built into the cap. Use a high temperature fiberglass rope gasket to seal between the 8 5/8-inch pipe and exterior firestop.

CAUTION: Under **NO** condition should combustible material be closer than 3 inches (2 2 1/2 inches at wall firestops) from the top of the 8 5/8-inch pipe with a 1-inch 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 16 for Vent Termination Clearances.

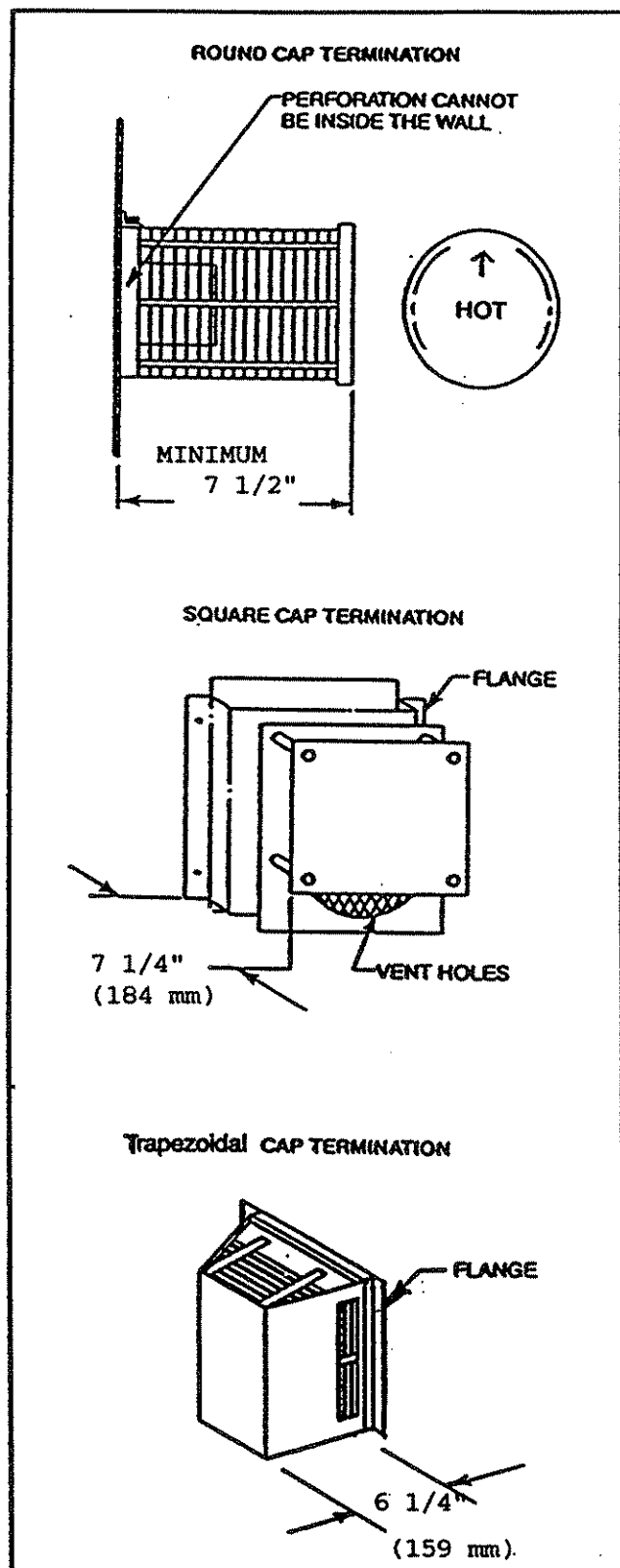


FIGURE 15

3.5 VERTICAL TERMINATIONS

A DVK-TVCD termination cap **MUST** be used to terminate a vent system in a vertical position.

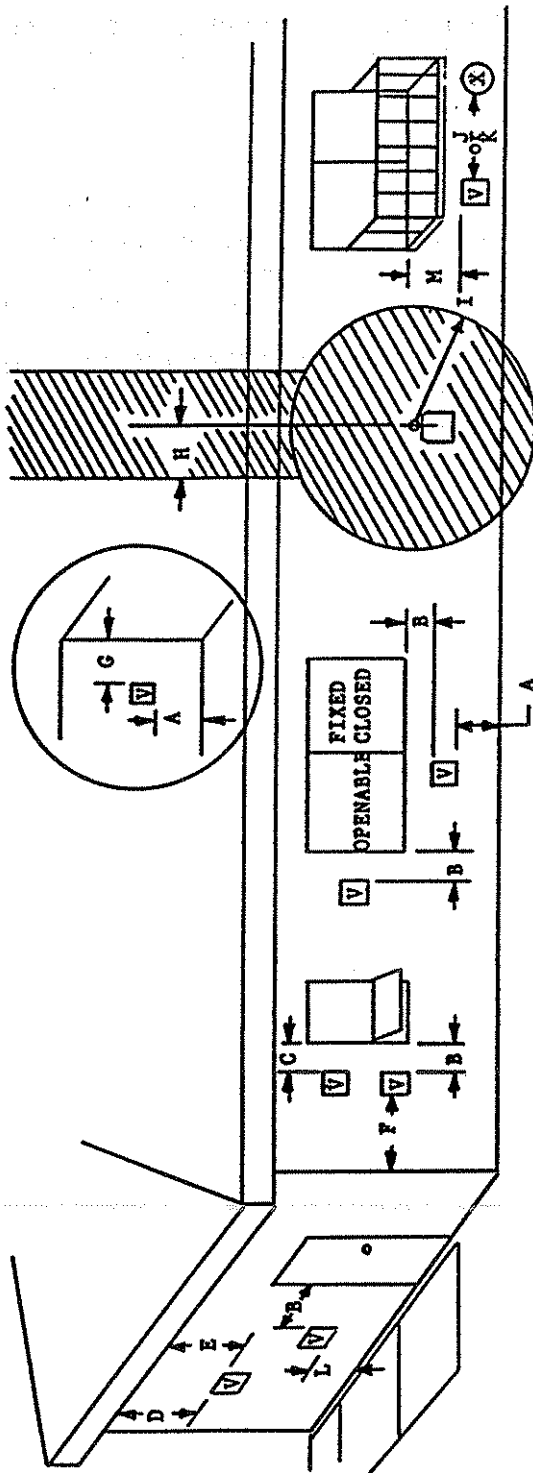
3.5.1 PENETRATING THE ROOF

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.

VENT TERMINATION MINIMUM CLEARANCES FOR MODEL 6000 SGDV



[V] = vent terminal (X) = air supply inlet [Hatched Box] = area where terminal is not permitted

A = 12"	(U.S.A.)
B = 12"	(Canada)
C = 9"	
D = 12"	
E = 18"	
F = 9"	
G = 6"	

clearances above grade, veranda, porch, deck or balcony
clearance to window or door that may be opened
clearance to permanently closed window

vertical clearance to ventilated soffit located above the terminal within
a horizontal distance of 2 feet (60 cm) from the centre-line of the terminal
clearance to unventilated soffit
clearance to outside corner
clearance to inside corner

H = 3 feet
I = 3 feet (U.S.A.) 6 feet (Canada)
J = 9" (U.S.A.) 12" (Canada)
K = 3 feet (U.S.A.) 6 feet (Canada)
L = 7 feet
M = 18"

not to be installed above a meter/regulator assembly within 3 feet
(90 cm) horizontally from the centre-line of the regulator
clearance to service regulator vent outlet
clearance to non-mechanical air supply inlet to building or the combustion
air inlet to any other appliance
clearance to a mechanical air supply inlet
clearance above paved side-walk or a paved driveway located on public property
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 16

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. These specifications are summarized in the ten foot rule. (See Figure 17.)

The key points of this rule are:

1. If the horizontal distance from the edge of the vent or chimney to the peak of the roof is 10 feet or less, the bottom of the vent cap must be at least 2 feet above the peak of the roof, but never less than 3 feet in height above the highest point where it passes through the roof.
2. If a horizontal distance from the edge of the vent of chimney to the peak of the roof is more than 10 feet, a vent or chimney height reference point is established that is on the surface of the roof a distance of 10 feet from the edge of the vent or chimney in a horizontal plane. (See Figure 17.) The bottom of the vent cap must be at least 2 feet above this reference point, but never less than 3 feet in height above the highest point where it passes through the roof.

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

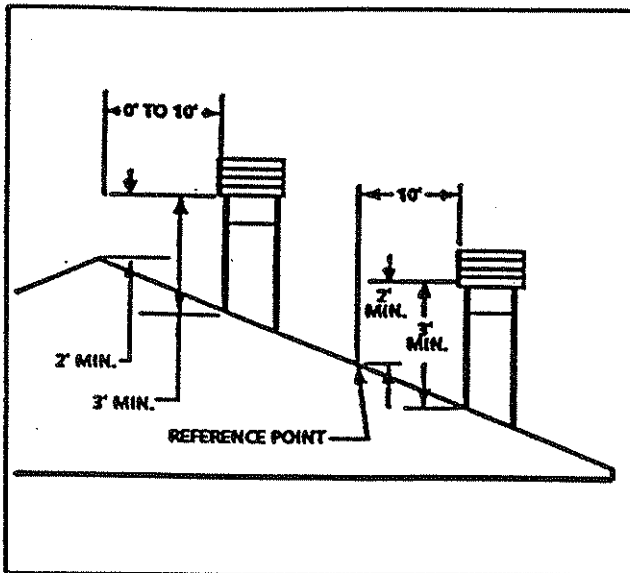


FIGURE 17

Continue to install concentric 8 5/8-inch diameter 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.

Install an 8 5/8-inch diameter flashing (to seal the roof hole) and an 8 5/8-inch diameter storm collar (to divert rain and snow away from the vent system). 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 pipe.

Slide the termination cap (Model DVK-TVCD) over the ends of the vent pipe and rotate clockwise. (See Figure 18.)

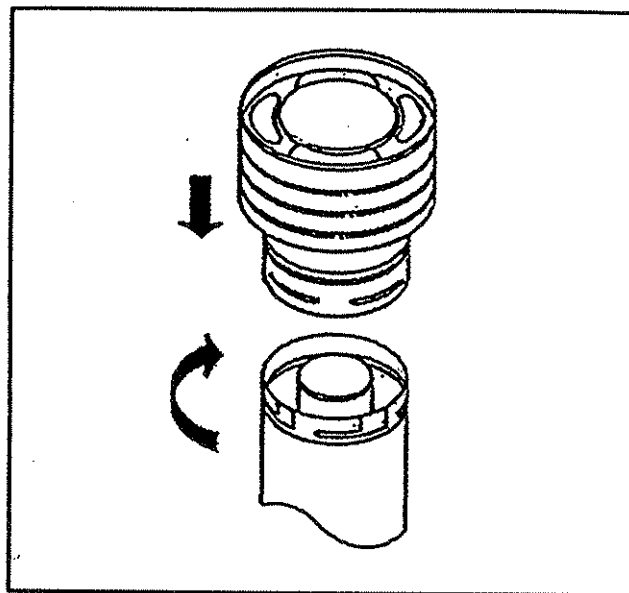


FIGURE 18

3.6 PERMANENTLY ANCHORING THE FIREPLACE

To prevent the unit from shifting, the fireplace must be anchored. Two methods are possible: use the nailing tabs 's shown in Figure 19, or use the standoffs on the top of the fireplace. A nail may be driven through or a screw inserted through the framing headers into the top standoffs as shown in Figure 19.

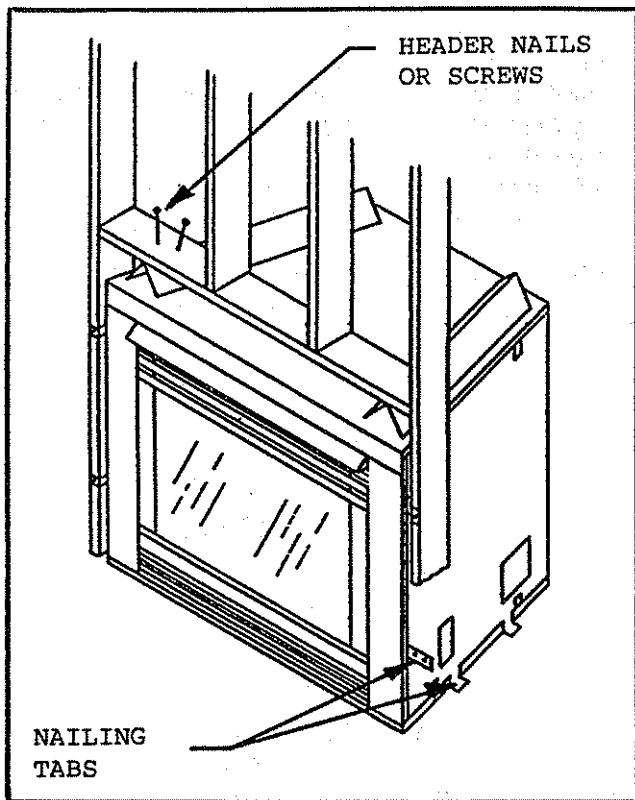


FIGURE 19

3.7 CONNECTING THE GAS LINE

The gas fireplace is designed to accept a 1/2 inch gas line for a listed gas appliance. Have the gas line installed by a qualified service person in accordance with all building codes. Consult local building codes to properly size the gas supply line leading to the 1/2 inch hook-up at the unit.

A listed 1/2-inch manual shut-off valve and a swivel-nut fitting are connected to the 3/8-inch inlet of the control valve. A 1/8-inch N.P.T. plugged tapping, accessible for test gauge connection, should be provided for in the gas supply line leading to the unit's shut-off valve.

Locate the gas line access hole in the rear outer casing of the fireplace (Figure 20). Insert the gas supply line through the gas line hole from the outside of the fireplace and connect it to the gas valve. 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.** Use insulation to repack the space around the pipe. This should be inserted from the outside of the fireplace and packed tightly to totally seal between the pipe and the outer casing.

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.

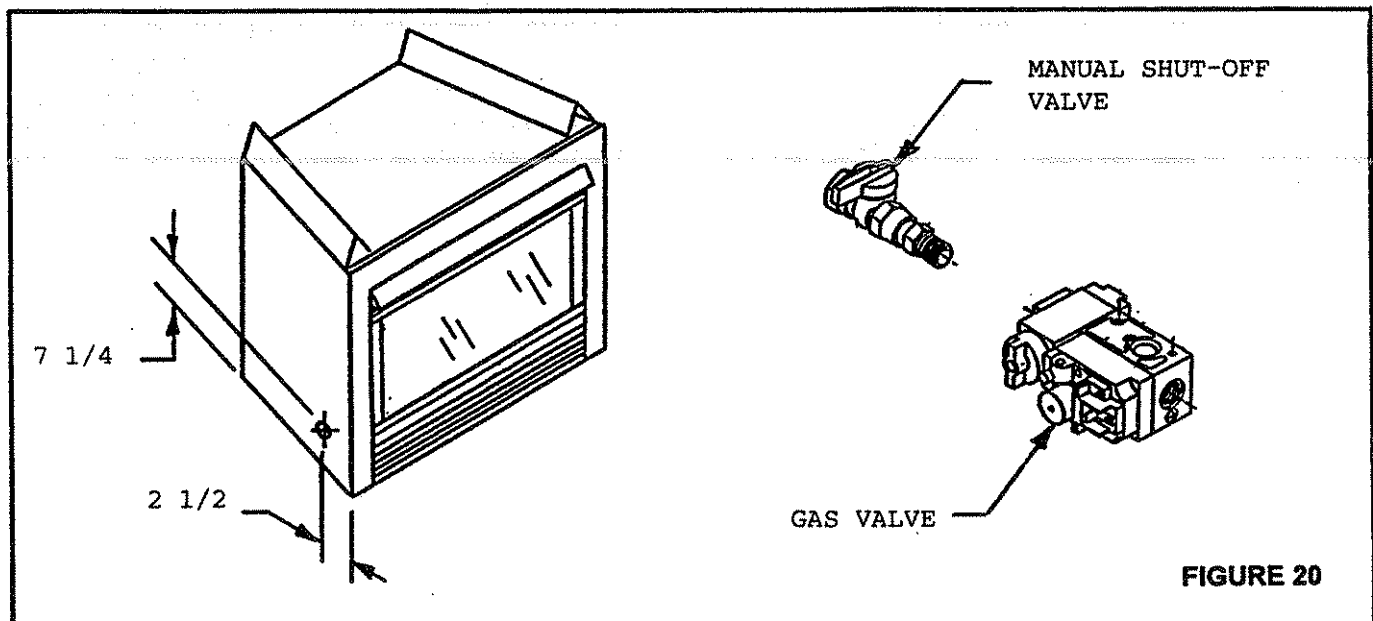


FIGURE 20

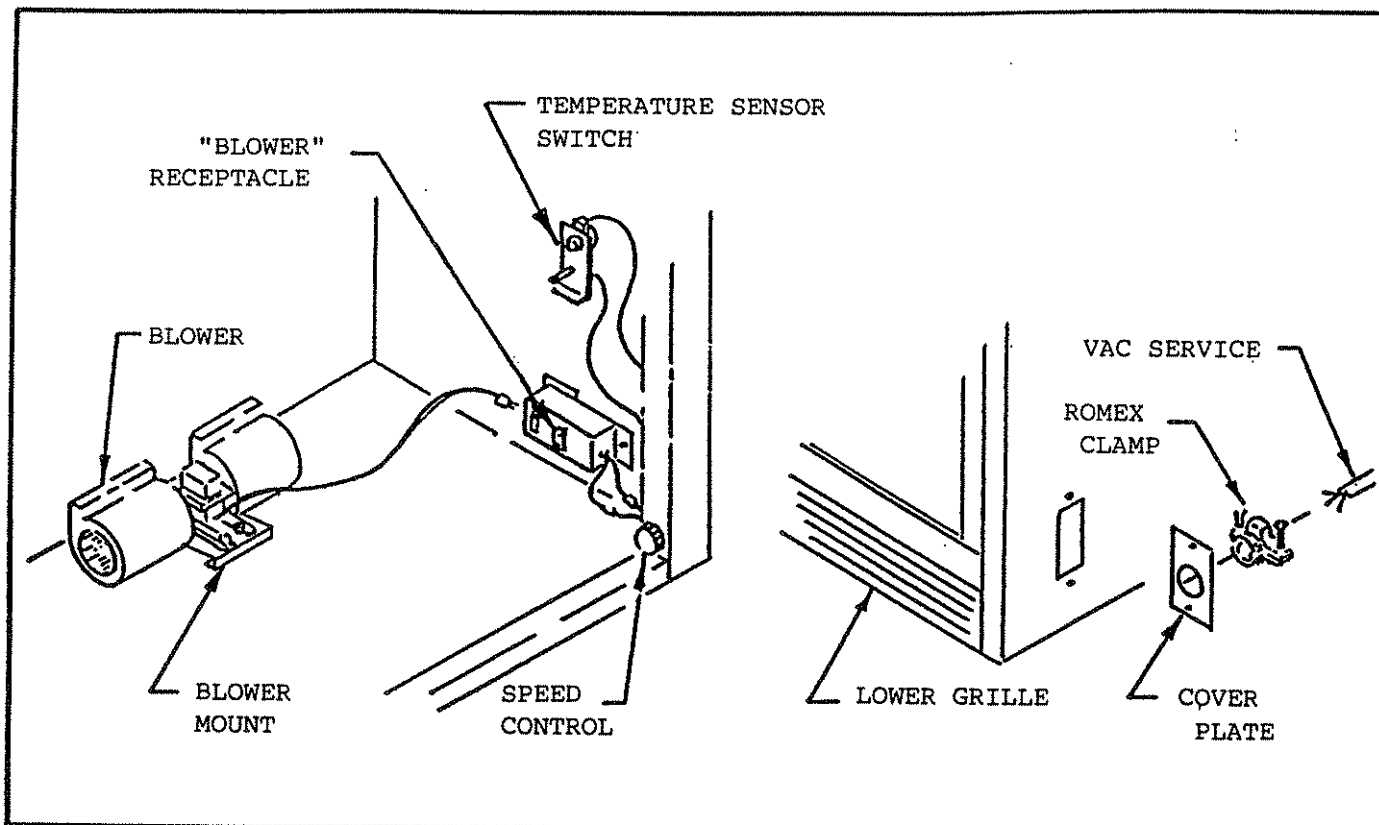


FIGURE 21

3.8 ELECTRICAL WIRING FOR OPTIONAL KITS

Model 6000SGDV Gas Fireplaces 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), hand held remote control kit (RCH-09A), and remote control/thermostat (RC-STAT) or (RC-MLT) 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 110 VAC service wires is found on 21.

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).

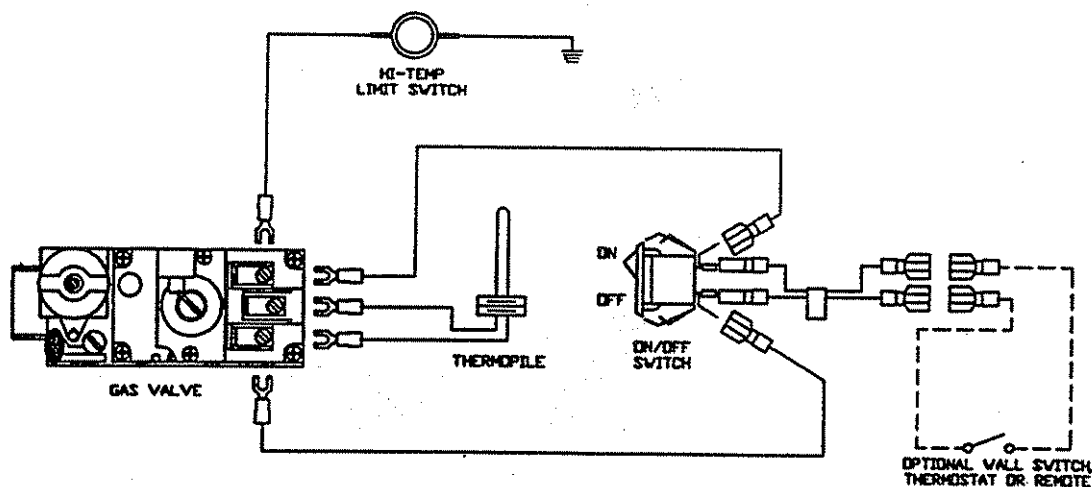
2. Feed the electrical service wires through the Romex clamp and secure the wires to the clamp.

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.



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

FIGURE 22 .

3.9 WALL SWITCH AND THERMOSTAT WIRING

An Optional Wall Switch Kit (WSK-21) and thermostat kit (WH-STAT) for turning the fireplace ON/OFF are also available. These kits do NOT require 110 VAC.

Connect the low voltage wires from the wall switch or thermostat to the red and brown pigtail wires from the ON/OFF rocker switch. These wires are labeled "FOR REMOTE OR WALL SWITCH ONLY". Turn the unit's ON/OFF rocker switch to the "OFF" position to use the optional switch. See Figure 22 - Unit Wiring Diagram.

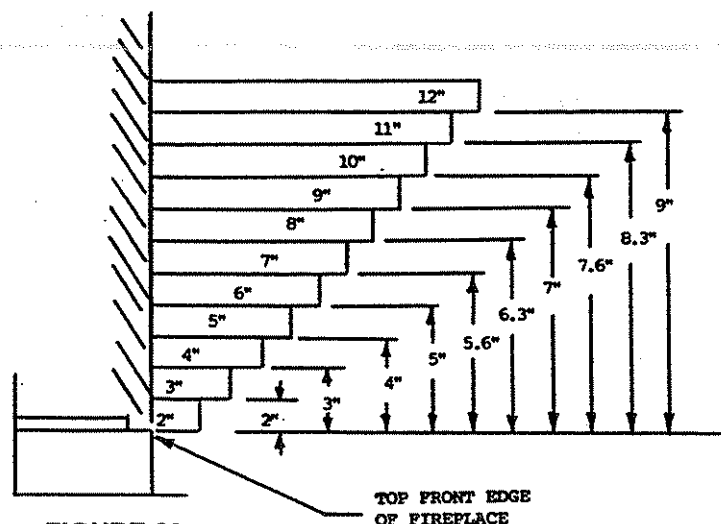
NOTE: POSITION THE WALL SWITCH OR THERMOSTAT SO THAT A MAXIMUM OF 25 FEET OF WIRING FROM THE SWITCH TO THE FIREPLACE IS USED.

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

3.10 FINISHING

Finish the walls with the material of your choice. Figure 23 shows the minimum vertical and corresponding maximum horizontal dimensions of mantles 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.



CAUTION: ALL JOINTS BETWEEN THE FINISHED WALL AND THE FIREPLACE SURROUND (TOP AND SIDES) CAN ONLY BE SEALED WITH A 300° F MINIMUM SEALANT MATERIAL. ONLY NON-COMBUSTIBLE MATERIAL USING A 300° F MINIMUM ADHESIVE IF NEEDED, CAN BE APPLIED AS FACING TO THE FIREPLACE SURROUND. SEE FIGURE 24.

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 16).

3.11 HEARTH EXTENSION

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

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 the thermopile, when heated with the pilot light, will provide approximately 350 to 500 millivolts. This activates the gas control valve. Additionally, a high temperature limit switch is wired to ground and will shut-off the pilot and burner should a high surface temperature condition occur. The pilot and main burner must be re-lit when the fireplace cools. See Figure 25 and Figure 22-Unit Wiring Diagram.

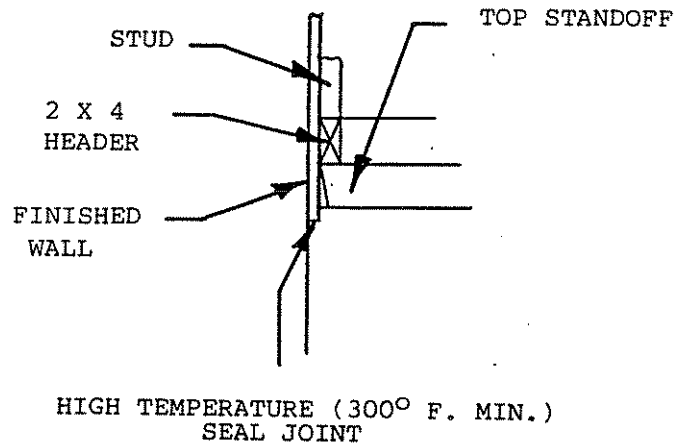


FIGURE 24

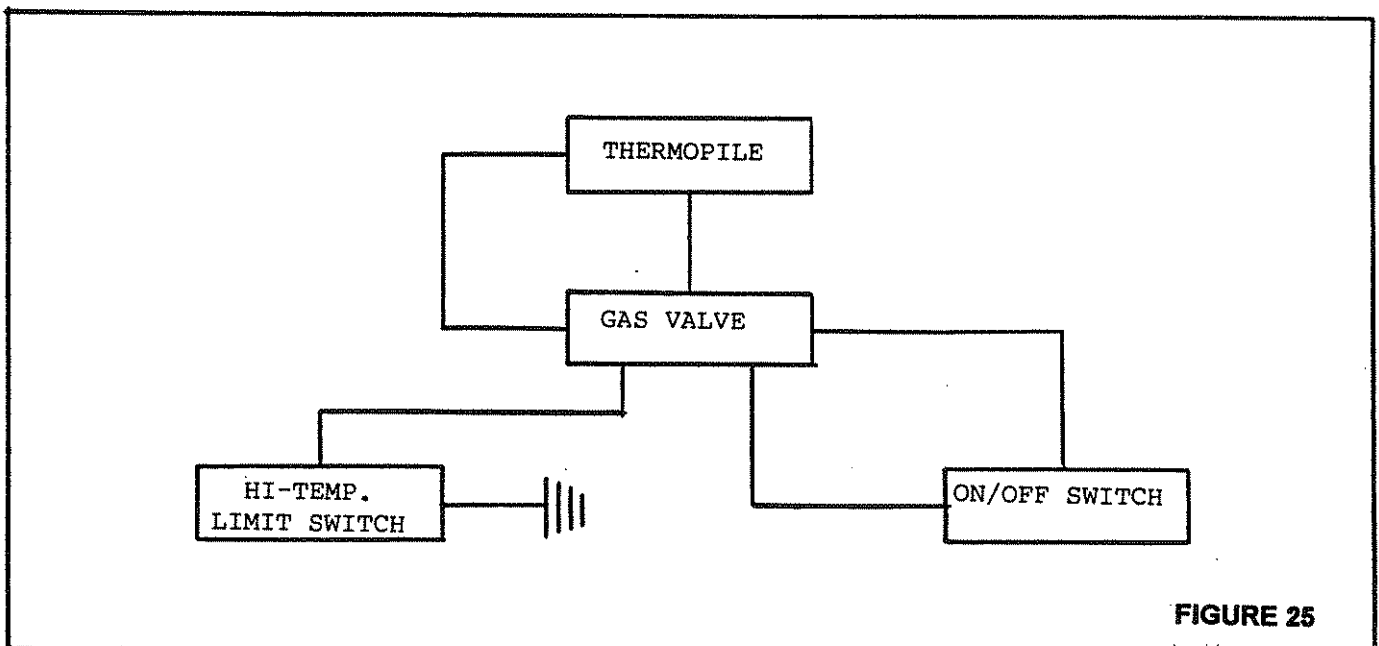


FIGURE 25

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 DE-PRESSED 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 generator should be engulfed in the pilot flame (Figure 26).

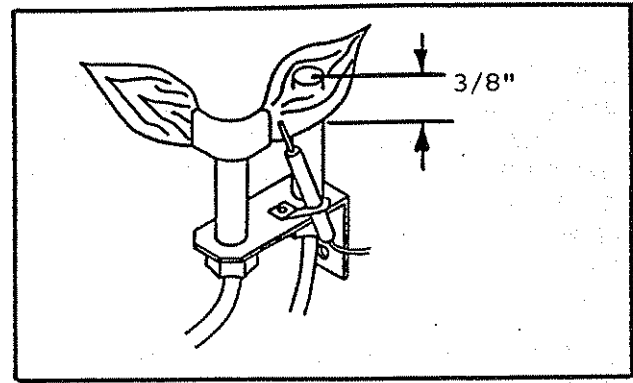


FIGURE 26

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.

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.

WARNING: DO NOT USE ABRASIVE CLEANERS ON THE GLASS DOOR ASSEMBLY. DO NOT ATTEMPT TO CLEAN THE GLASS DOOR WHEN IT IS HOT.

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 mesh trim front panel by lifting it up off the retainer pins on the side surrounds and pulling it away from the unit.
2. Remove the heat tube cover by sliding it forward off the top of the firebox.
3. Noting carefully how the brackets fit on the glass, remove wing nuts and brackets from the glass door.
4. 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 27.

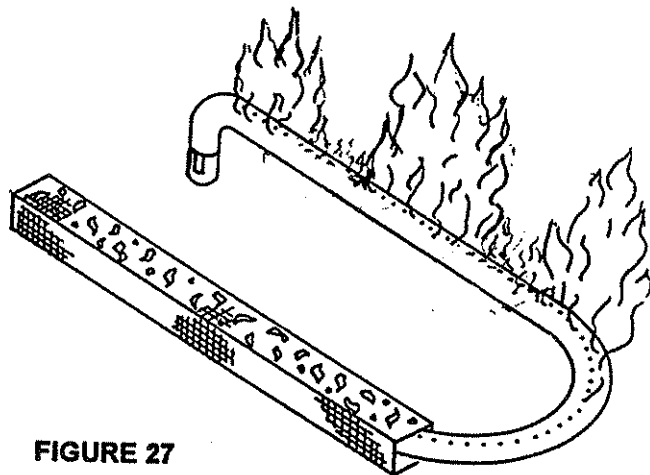


FIGURE 27

5.3 LOG REPLACEMENT

1. Remove the mesh 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 mesh trim.

5.4 GLASS DOOR REPLACEMENT

1. Before replacing the glass door make sure the vermiculite material is spread evenly over the bottom of the firebox and the logs are properly positioned.
2. Place the bottom edges of the glass door on the rubber spacers of the bottom mounting studs on the fireplace.
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 heat tube cover and the mesh trim front proceeding in reverse order of step 1 under Glass Door Removal.

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.

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.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician. 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.

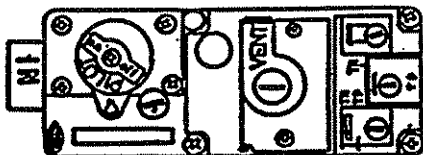
7.0 LIGHTING INSTRUCTIONS

LIGHTING INSTRUCTIONS

1. "STOP!" Read the safety information above first.

2. To access controls rotate the bottom grille down.

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

4. WAIT FIVE (5) MINUTES TO CLEAR OUT ANY GAS. 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 glass door removal and replacement.

THERMOPILE



PILOT BURNER

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 pilot will not stay lit after two tries, turn the control knob to the "OFF" position and call your service technician or gas supplier. 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.

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 bottom grille.

TO TURN OFF GAS TO APPLIANCE

1. Open the bottom grille.

2. Turn ON/OFF switch to "OFF".

3. Turn the valve control knob clockwise to the "Pilot" position then depress knob and continue turning to "OFF" position.

4. Close the bottom grille.

After the unit has warmed up (i.e. approx. 15 min.), flame height must not be higher than 2" below the top of the mesh trim assembly (Figure 28). If the flame height is higher than this, adjustments must be made to prevent overheating the gasket and glass. Please contact your dealer or a qualified service person to replace the orifice or adjust the valve.

NOTE: THE TIPS OF THE FLAMES SHOULD NEVER HIT THE TOP OF THE FIREBOX.

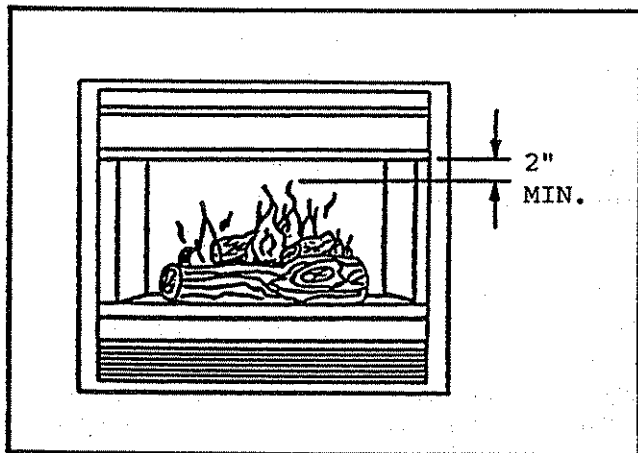


FIGURE 28

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 the proper orifice size.

When installing this unit at an elevation between 0-4500 feet (in Canada) the input rating does not need to be reduced.

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 - 6000SGDV

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 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. Check L.P. (propane) tank. You may be out of fuel.
II. Pilot will not stay lit after carefully following lighting instructions.	A. Defective thermopile.	1. Check pilot flame. Must impinge on thermopile. Clean and or adjust pilot for maximum flame impingement on thermopile. 2. Be sure wire connections from thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
III. Pilot burning, no gas burner, valve knob "ON", "on-off" switch "ON".	B. Open wire connection in pilot circuit.	1. Check wire continuity and connection in pilot circuit.
	C. Defective valve.	1. Turn green knob to pilot position, depress and light pilot light. If meter reading is less than 325 m.v. after 30 seconds, or if the pilot does not stay lit, the valve is defective.
	A. "ON-OFF" 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. (325m.v.)	2. Recheck Symptom #2. 2. Pilot flame not physically close enough to the thermopile.
	C. Defective valve.	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.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
	D. Plugged burner orifice.	1. Check burner orifice for stoppage and remove.
	E. Wall switch or wires defective.	1. Follow corrective action in A.1 above; check switch and wiring. Replace where defective.
IV. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high), causing the pilot safety to drop out.	1. Clean and adjust pilot flame for maximum flame impingement on thermopile.
V. Pilot and main burner go out while being in operation.	A. High limit switch is defective or has reached its maximum temperature.	<p>1. Allow unit to cool. Then repeat lighting instructions. If pilot and burner remain lit, after the fireplace warms up, the switch is good.</p> <p>2. If 1 above does not allow for ignition, or the fireplace continues to shut-off, disconnect the limit switch wire from the gas valve and repeat lighting instructions. If the pilot and 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.</p>
	B. No L.P. in tank.	1. Check L.P. (Propane) tank. You may be out of fuel.
	C. Inner 5-inch pipe leaking exhaust gases back into system.	1. Check for leaks.
	D. Horizontal vent improperly pitched.	1. Horizontal vent termination should slope down only enough to prevent water from entering unit. The maximum downward slope of the vent termination is 1/4" for any horizontal run.
	E. Glass too loose and air tight gasket leaks in corners after usage.	1. Tighten corner.
	F. Bad thermopile	1. Replace if necessary.
	G. Improper vent cap installation.	1. Check for proper installation & freedom from debris or blockage.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
VI. Glass soots.	<p>A. Flame impingement on logs.</p> <p>B. Improper venturi setting.</p> <p>C. Debris around venturi.</p>	<p>1. Adjust the log set so that the flame does not impinge on it.</p> <p>1. Adjust the air shutter at the base of the burner.</p> <p>1. Inspect the opening at the base of the burner. It is imperative that <u>NO</u> material be placed in this opening.</p>
VII. Flame burns blue and lifts off burner.	<p>A. Insufficient oxygen being supplied.</p>	<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 in the opening at the burner base or in the area of the air holes in the center of the base pan beneath the burner.</p> <p>3. Be sure glass is tightened properly on unit, particularly on top corners.</p>

LIMITED WARRANTY POLICY FOR HEAT-N-GLO FIREPLACE PRODUCTS, INC. GAS FIREPLACES

The limited two year warranty will not become effective until the completed warranty card has been mailed to HEAT-N-GLO FIREPLACE PRODUCTS, INC., Savage, MN 55378.

This card must be mailed within 60 days of the fireplace installation.

Subject to the conditions set forth herein, HEAT-N-GLO FIREPLACE PRODUCTS, INC. extends the following warranty with respect to HEAT-N-GLO FIREPLACE PRODUCTS, INC. Decorative Gas Fireplaces.

If HEAT-N-GLO FIREPLACE PRODUCTS, INC. is 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 FIREPLACE PRODUCTS, INC. will take the following actions:

1. Within the first year from the date of installation, HEAT-N-GLO FIREPLACE PRODUCTS, INC. shall, at its option, replace or repair any such defect in material or workmanship, at HEAT-N-GLO FIREPLACE PRODUCTS, INC. expense. HEAT-N-GLO FIREPLACE PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY OTHER LABOR COSTS, OR EXPENSES, INCLUDING INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.
2. During the second year after the date of installation, HEAT-N-GLO FIREPLACE PRODUCTS, INC. shall supply replacement parts at the current minimum wholesale price, but HEAT-N-GLO FIREPLACE PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY LABOR, TRANSPORTATION, OR OTHER INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.
3. During the first six months after installation, HEAT-N-GLO FIREPLACE PRODUCTS, INC. shall, at its option, replace or repair the glass door if operation is faulty (this does not include glass panels broken during shipping, misuse, or careless handling). HEAT-N-GLO FIREPLACE PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY LABOR, TRANSPORTATION OR OTHER INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. IF GLASS DOORS OTHER THAN FACTORY DOORS ARE USED, ALL WARRANTY AND LIABILITY ON THE FIREPLACE IS VOIDED.
4. All electrical, manual, and optional components or accessories found to be defective will be repaired or replaced without charge during the first year after installation.

HEAT-N-GLO FIREPLACE PRODUCTS, INC. may discharge its entire warranty liability by refunding the price of the product.

Products made by other manufacturers, sold with the fireplace or 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 be void if the appliance is not installed by a qualified installer and according to the installation instructions. The limited warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished.

EXCEPT TO THE EXTENT PROVIDED BY LAW, NO IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND NO IMPLIED WARRANTIES SHALL APPLY TO THE FIREPLACE AFTER THE ABOVE LIMITED WARRANTY HAS EXPIRED.

In states that do not allow limitations on how long 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 FIREPLACE PRODUCTS, INC. reserves the right to make changes at anytime, without notice, in design, material, specifications, and prices and the right to discontinue styles and products.