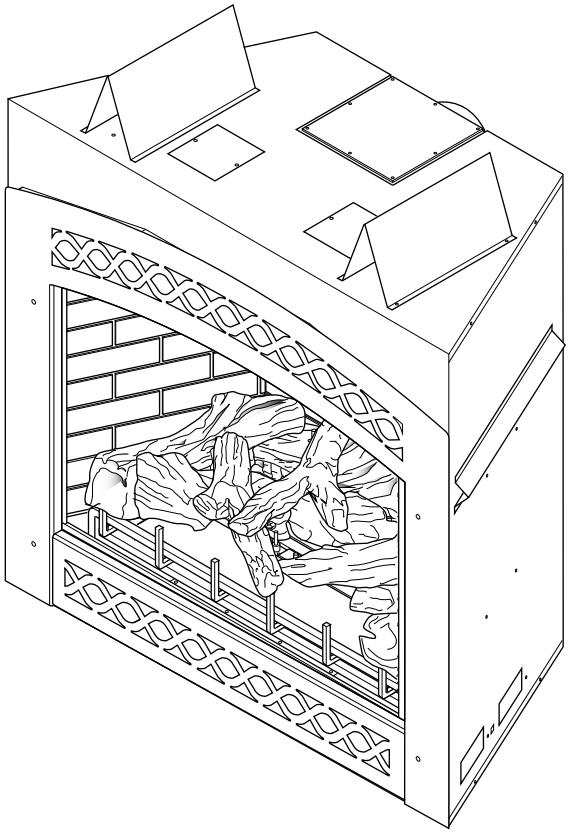
LEXINGTON FORGE

LEXINGTON DIRECT VENT GAS FIREPLACE

INSTALLATION AND OPERATING INSTRUCTIONS

MODELS:
LX32DV
LX36DV



WARNINGS

IF THE INFORMATION IN THESE INSTRUCTIONS ARE NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **WHAT TO DO IF YOU SMELL GAS**
  - **Do not try to light any appliance.**
  - **Do not touch any electrical switch; do not use any phone in your building.**
  - **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, services or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

This appliance 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.

This appliance may be installed in an aftermarket*, permanently located, manufactured home, where not prohibited by local codes.
***Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.**

DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION.

YOUNG CHILDREN SHOULD BE SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.

KEEP THE ROOM AREA CLEAR AND FREE FROM COMBUSTIBLE MATERIALS, GASOLINE, AND OTHER FLAMMABLE VAPORS AND LIQUIDS.

READ BEFORE INSTALLING. SAVE THESE INSTRUCTIONS

CONTENTS

CONGRATULATIONS!

You have purchased a state-of-the-art gas appliance featuring the LEXFIRE BURN SYSTEM™ technology available exclusively on Lexington Forge gas appliances.
The LEXFIRE BURN SYSTEM™ technology sets a new standard for flame appearance through log innovative design, burner technology and ember placement. Each element effecting combustion and flame appearance was carefully scrutinized and strategically balanced during the design process to provide a product that was truly

"BORN TO BURN."

INSTALLER
Please leave these instructions with the owner.

OWNER
Please retain these instructions for future reference.

WARNING

- **Read this owner's manual carefully and completely before trying to assemble, operate, or service this fireplace.**
- **Any change to this fireplace or its controls can be dangerous.**
- **Improper installation or use of this fireplace can cause serious injury or death from fire, burns, explosions, electrical shock and carbon monoxide poisoning.**

This fireplace is a vented product. This fireplace must be properly installed by a qualified service person. The glass door must be properly seated and sealed. If this unit is not properly installed by a qualified service person with glass door properly seated and sealed, combustion leakage can occur.

CARBON MONOXIDE POISONING: Early signs of carbon monoxide poisoning are similar to the flu with headaches, dizziness and/or nausea. If you have these signs, the fireplace may not have been installed properly. Get fresh air at once! Have the fireplace inspected and serviced by a qualified service person. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Propane/LP gas and natural gas are both odorless. An odor-making agent is added to each of these gases. The odor helps you detect a gas leak. However, the odor added to these gases can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

1. 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.
2. For propane/LP fireplace, do not place propane/LP supply tank(s) inside any structure. Locate propane/LP supply tank(s) outdoors. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lbs. capacity.
3. If you smell gas
   - shut off gas supply.
   - 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.
4. Never install the fireplace
   - in a recreational vehicle
   - where curtains, furniture, clothing, or other flammable objects are less than 42" from the front, top, or sides of the fireplace
   - in high traffic areas
   - in windy or drafty areas
5. This fireplace reaches high temperatures. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Fireplace will remain hot for a time after shutdown. Allow surfaces to cool before touching.
6. Carefully supervise young children when they are in the room with fireplace.
7. Do not modify fireplace under any circumstances. Any parts removed for servicing must be replaced prior to operating fireplace.
8. Turn fireplace off and let cool before servicing, installing, or repairing. Only a qualified service person should install, service, or repair the fireplace. Have burner system inspected annually by a qualified service person.
9. You must keep control compartments, burners, and circulating air passages clean. More frequent cleaning may be needed due to excessive lint and dust from carpeting, bedding material, pet hair, etc. Turn off the gas valve and pilot light before cleaning fireplace.
10. Have venting system inspected annually by a qualified service person. If needed, have venting system cleaned or repaired. See *Cleaning and Maintenance*, page 40.
11. Keep the area around your fireplace clear of combustible materials, gasoline, and other flammable vapor and liquids. Do not run fireplace where these are used or stored. Do not place items such as clothing or decorations on or around fireplace.

Continued on page 4

Continued from page 3

12. Do not use this fireplace to cook food or burn paper or other objects.
13. Never place anything on top of fireplace.
14. Do not use any solid fuels (wood, coal, paper, cardboard, etc.) in this fireplace. Use only the gas type indicated on rating plate.
15. This appliance, when installed, must be electrically grounded in accordance with local codes or in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70*, or the *Canadian Electrical Code, CSA C22.1*.
16. Do not obstruct the flow of combustion and ventilation air in any way. Provide adequate clearances around air openings into the combustion chamber along with adequate accessibility clearance for servicing and proper operation.
17. When the appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, you must set appliance on a metal or wood panel or hearth pad extending the full width and depth of the appliance.
18. Do not use fireplace if any part has been exposed to or under water. Immediately call a qualified service person to arrange for replacement of the unit.
19. Do not operate fireplace if any log is broken.
20. Do not use a blower insert, heat exchanger insert, or any other accessory not approved for use with this fireplace.
21. Do not operate the fireplace with glass door removed, cracked, or broken.
22. **For Massachusetts Residents Only:** This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts. Flexline installation must not exceed 36".

IMPORTANT:
PLEASE READ THE FOLLOWING CAREFULLY

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

IMPORTANT:
PLEASE READ THE FOLLOWING CAREFULLY

It is not unusual for gas fireplace to give off some odor the first time it is burned. This is due to the manufacturing process.

Please ensure that your room is well ventilated during burn off — open all windows.

It is recommended that you burn your fireplace for at least ten (10) hours the first time you use it. Place the fan switch in the “OFF” position during this time.

WARNING

Never connect unit to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED
www.nficertified.org

We suggest that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as Gas Specialists.

PRODUCT SPECIFICATIONS

- This appliance has been certified for use with either natural or propane gas. See appropriate data plates.
- This appliance is not for use with solid fuels.
- The appliance is approved for bedroom or bedsitting room installations.
- The appliance must be installed in accordance with local codes if any. If none exist use the current installation code. ANSI Z223.1/ NFPA 54 in the USA, CAN/CGA B149 in Canada.
- This appliance is mobile home approved.
- The appliance must be properly connected to a venting system.

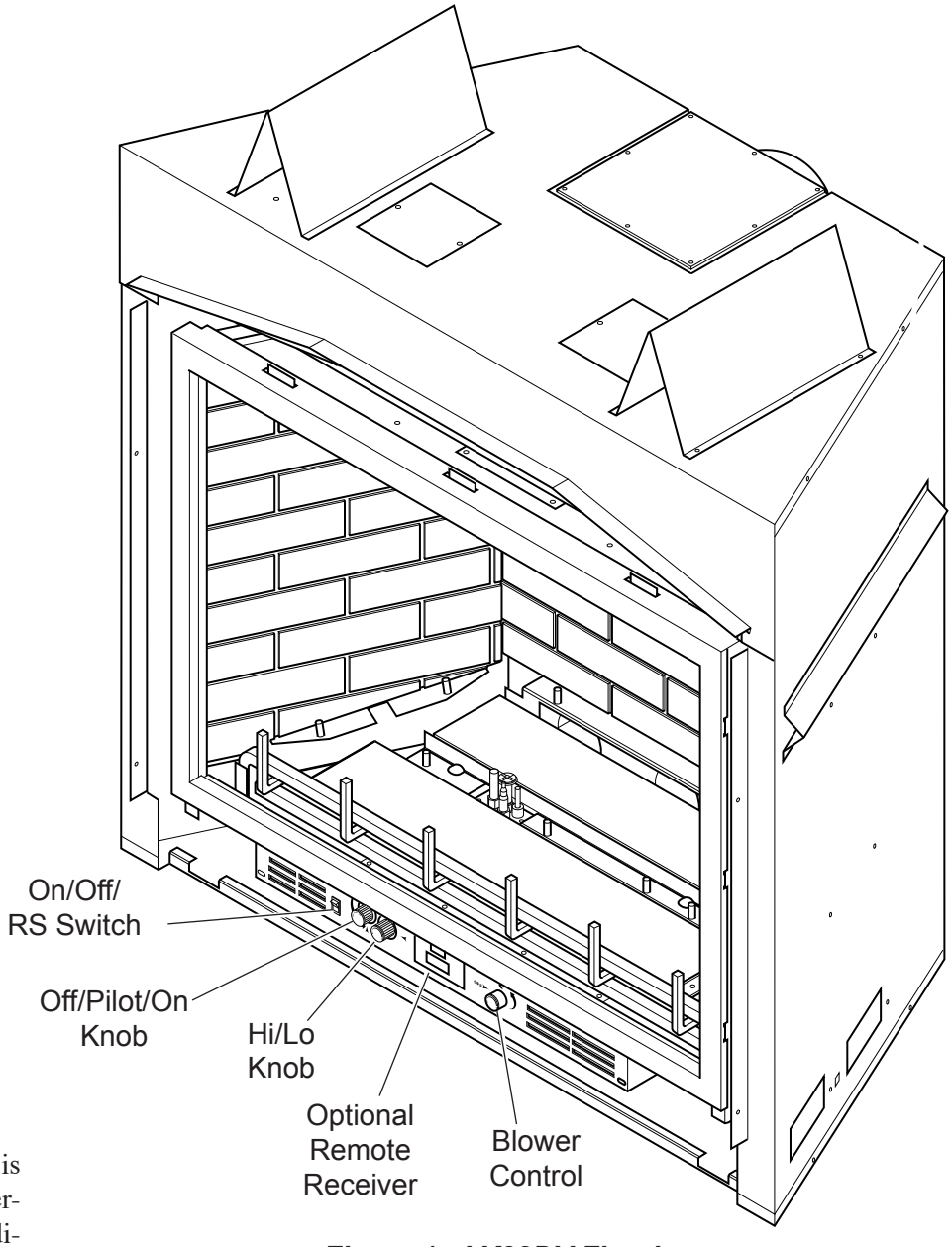


Figure 1 - LX32DV Fireplace

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

Thermal Efficiency = up to 80%

CODE APPROVAL

Direct Vent type appliances draw all combustion air from outside of the dwelling through the vent pipe.

These appliances have been tested by CSA and found to comply with the established standards for DIRECT VENT GAS FIREPLACE HEATERS in the USA and Canada as follows:

LISTED VENTED GAS FIREPLACE HEATER

TESTED TO: ANSI Z21.88-2002/CSA 2.33-2002 STANDARDS

PRE-INSTALLATION INFORMATION

INSTALLING ABOVE 2000 FEET

- In the USA, the appliance must be derated 4% for every 1,000 ft above 2,000 ft elevations.
- In Canada, these appliances are certified for altitudes of 0 – 2000 ft, and must be de-rated by 10 percent for installations between 2000 and 4,500 ft. (derate an additional 4% for every 1,000 ft. above 4,500 ft. elevations).

ORIFICE SIZES, PRESSURES AND BTUs

NATURAL GAS		PROPANE GAS	
Manifold Press: (W.C.)	3.5"	Manifold Press: (W.C.)	10"
Maximum Supply Pressure	10.5"	Maximum Supply Pressure	13"
Minimum Supply Pressure	4.5"	Minimum Supply Pressure	11"

Model Number	LX32		LX36	
	NATURAL	PROPANE	NATURAL	PROPANE
Max. Btu/hr Input	36000	36000	44000	44000
Min. Btu/hr Input	26000	22000	30000	32000
Orifice size (as shipped) Front	#46	#3/64	#41	#55
Orifice size (as shipped) Rear	#43	#55	#38	#53

BEFORE YOU START

Read this homeowner manual thoroughly and follow all instructions carefully. Inspect all contents for shipping damage and immediately inform your dealer if any damage is found. Do not install any unit with damaged, incomplete, or substitute parts. Check your packing list to verify that all listed parts have been received. You should have the following:

- Fireplace (Firebox and Burner System)
- Propane Conversion Kit
- Deflector Shield (to be used with Simpson Horizontal Termination – P/N 985)
- Log Set
- Rock Wool

ITEMS REQUIRED FOR INSTALLATION

Tools:

- Phillips Screwdriver
- Hammer
- Saw and/or saber saw
- Level
- Measuring Tape
- Electric Drill and Bits
- Pliers
- Square
- Pipe Wrench

Building Supplies:

- Framing Materials
- Wall Finishing Materials
- Caulking Material (Noncombustible)
- Fireplace Surround Material (Noncombustible)
- Piping Complying with Local Codes
- Tee Joint
- Pipe Sealant Approved for use with Propane/LPG (Resistant to Sulfur Compounds)

FIREPLACE FRAMING

Firebox framing can be built before or after the appliance is set in place. Construct firebox framing following *Figures 2 through 5* and the chart below for your specific installation requirements. *See Pages 8 and 9* for firebox dimensions. The framing headers may rest on the top of the firebox standoffs.

The firebox may be installed directly on a combustible floor or raised on a platform of an appropriate height. When the firebox is installed directly on carpeting, tile, or other combustible material, other than wood flooring, the firebox shall be installed on a metal or wood panel extending the full width and depth of the enclosure.

To access control door, build a platform to make the bottom of appliance equal to or higher than top of finished hearth extension, or elevate unit a minimum of $^{7}/_{8}$" above subfloor.

WARNING

Do not fill spaces around firebox with insulation or other materials. This could cause a fire.

WARNING

The 1" standoffs on back and sides and 6" standoffs on top of fireplace are designed to separate fireplace from framing. These standoffs may contact framing but no material may be placed between standoff and side of fireplace.

Fireplace must be raised minimum $^{7}/_{8}$" to allow door to open.

	LX32DV	LX36DV
A	$39^{11}/_{16}$"	$43^{11}/_{16}$"
B	$40^{3}/_{4}$"	$46^{3}/_{4}$"
C	$20^{5}/_{16}$"	$24^{5}/_{16}$"
D	10"	10"
E	$62^{1}/_{2}$"	$66^{1}/_{2}$"
F	$31^{3}/_{16}$"	$33^{1}/_{2}$"
G	$21^{3}/_{4}$"	$21^{3}/_{4}$"
H	$44^{1}/_{4}$ "	47"

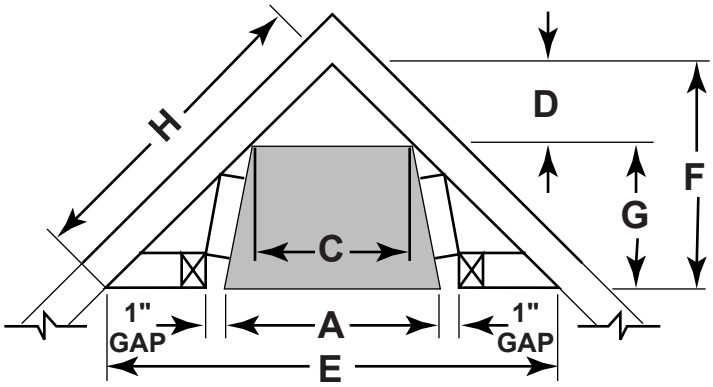


Figure 2 - Corner Installation

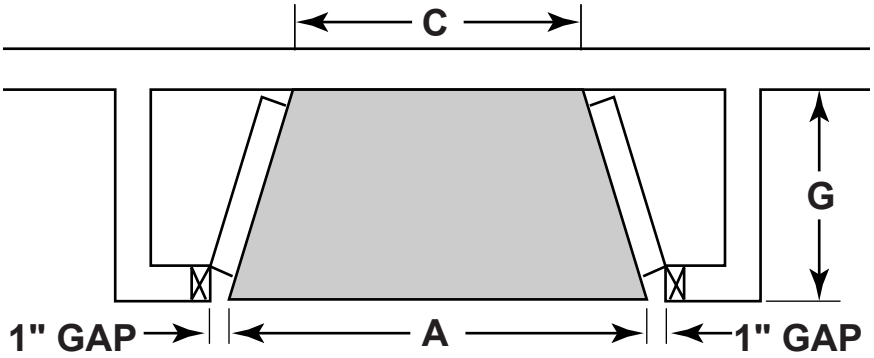


Figure 3 - Inside Chase Installation

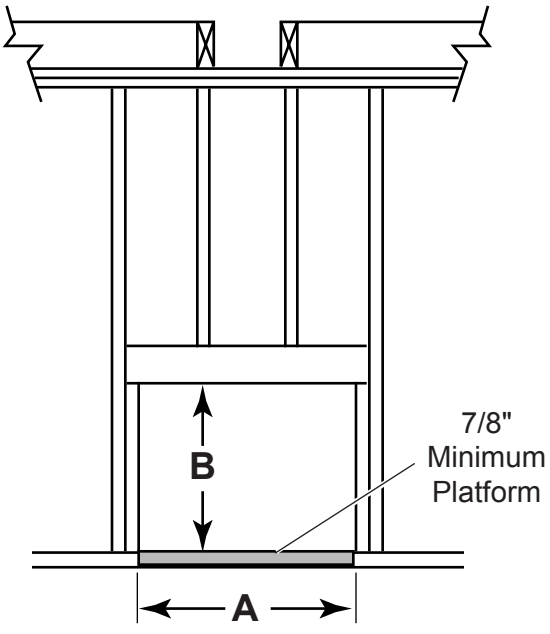


Figure 4 - Stud Location

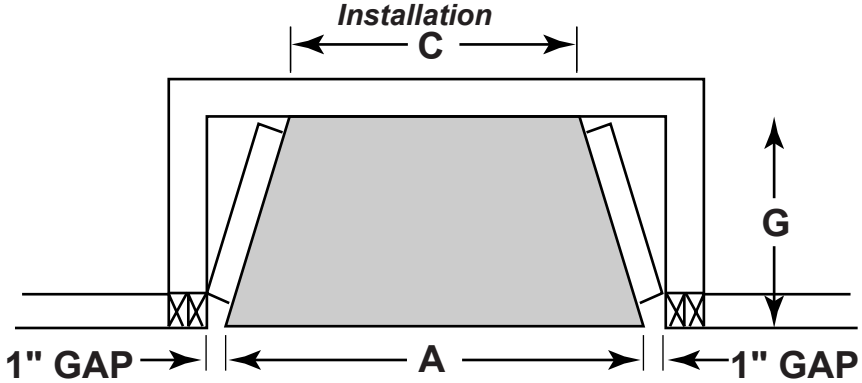


Figure 5 - Recessed Installation

LX32 FIREPLACE DIMENSIONS

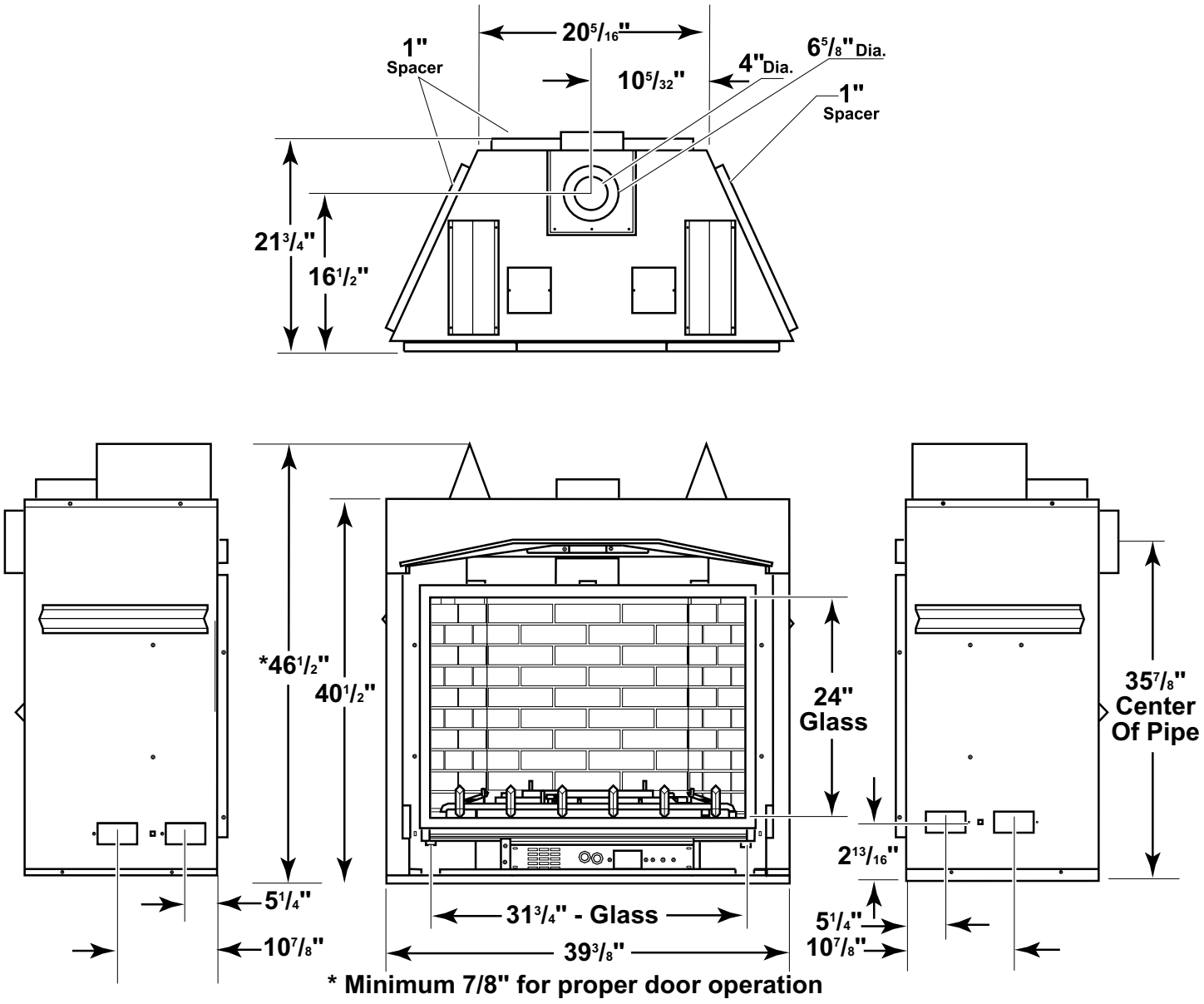


Figure 6 - Fireplace Dimensions

LX36 FIREPLACE DIMENSIONS

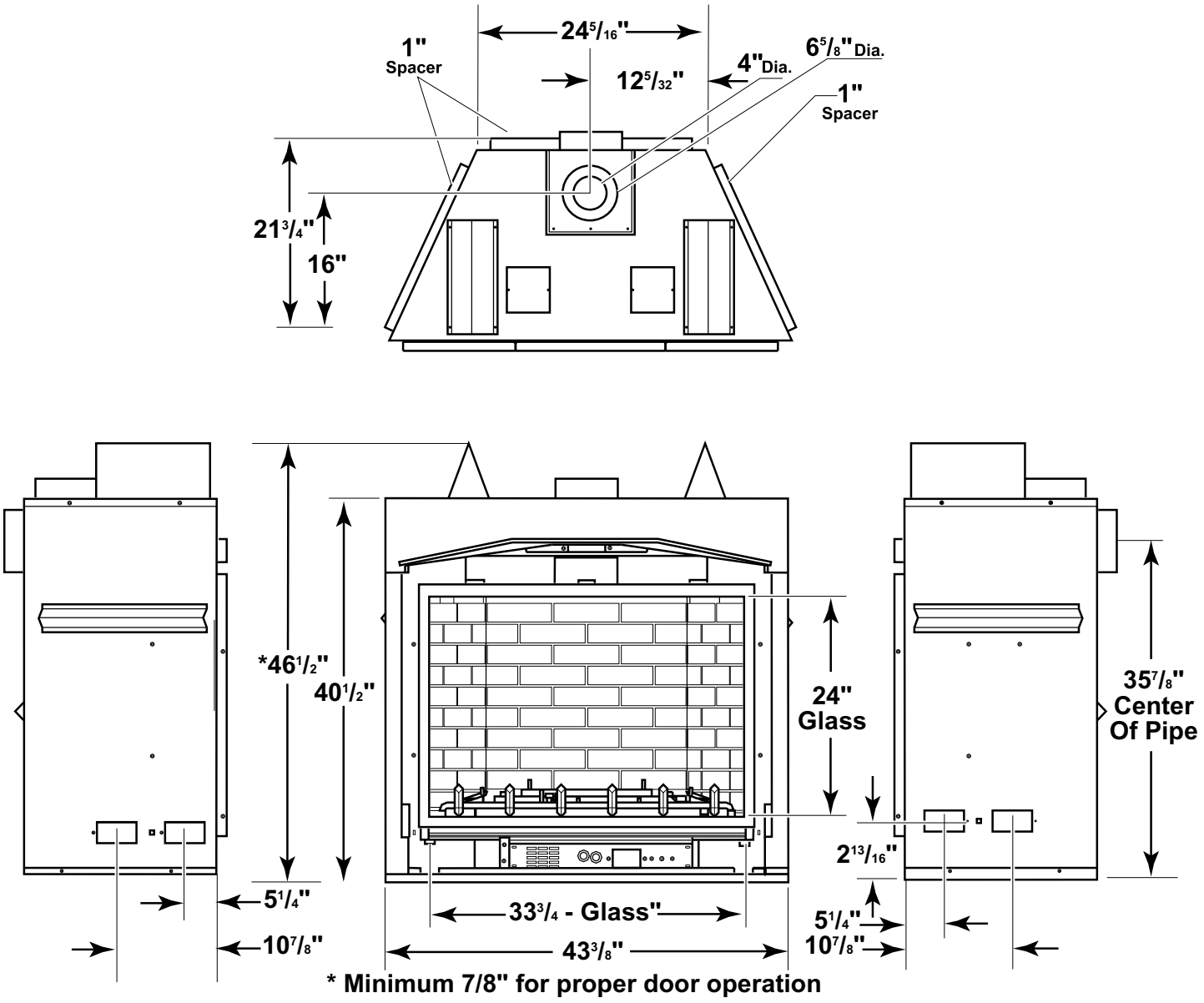


Figure 7 - Fireplace Dimensions

PRE-INSTALLATION INFORMATION

FIREPLACE LOCATION

Plan for the installation of your appliance. This includes determining where the unit is to be installed, the vent configuration to be used, framing and finishing details, and whether any optional accessories (i.e. blower, wall switch, or remote control) are desired. Consult your local building code agency to ensure compliance with local codes, including permits and inspections.

The following factors should be taken into consideration:

- Clearance to side-wall, ceiling, woodwork, and windows. Minimum clearances to combustibles **must be maintained.**
- This fireplace may be installed along a wall, across a corner, or use an exterior chase. *See Figure 8* for suggested locations.
- Location should be out of high traffic areas and away from furniture and draperies due to heat from appliance.
- Never obstruct the front opening of the fireplace.
- Do **not** install in the vicinity where gasoline or other flammable liquids may be stored.
- Vent pipe routing. See VENTING section found in this manual for allowable venting configurations.
- These units can be installed in a bedroom. See National Fuel Gas Code ANSI Z233.1/NFPA 54 — (current edition), the Uniform Mechanical Code — (current edition), and Local Building Codes for specific installation requirements.

A	Flat on Wall
B	Cross Corner
C	Island**
D	Room Divider*
E	Flat on Wall Corner*
F	Chase Installation
Y	9" Minimum

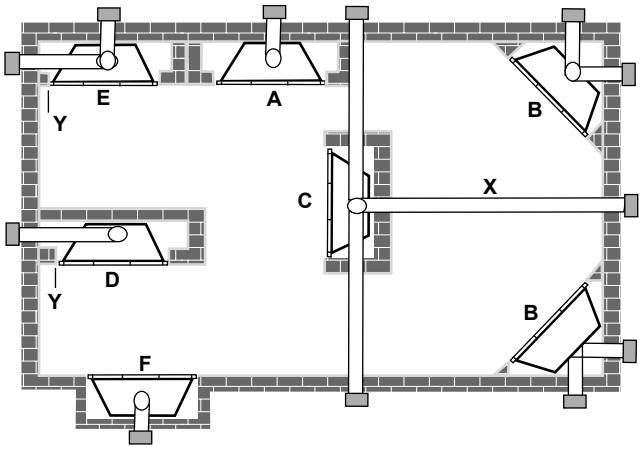


Figure 8 - Locating Gas Fireplace

** Island (C) and room divider (D) installation is possible as long as the horizontal portion of vent system (X) does not exceed 20'. See *Installing Horizontal Termination Configuration* on pages 20 and 21.

* When you install your fireplace in (D) room divider or (E) flat on wall corner positions (Y), a minimum of 6" clearance must be maintained from perpendicular wall and front of fireplace.

The fireplace must be secured to the floor and/or to framing studs as shown in *Figure 9*. Use two (2) wood screws or masonry/concrete screws to secure fireplace to the floor. Use four (4) screws to attach fireplace to framing. The side brackets are adjustable from $^{1}/_{2}$" to $^{5}/_{8}$" to accommodate different thickness of noncombustible material.

NOTE: **Do not allow combustibles (drywall) to touch top and side edges of black-painted metal face of fireplace.** Only use noncombustibles. A 4" wide or more cement board may touch the top and side edges of black-painted metal face of fireplace.

Do not allow any combustible to overlap the black-painted face of fireplace.

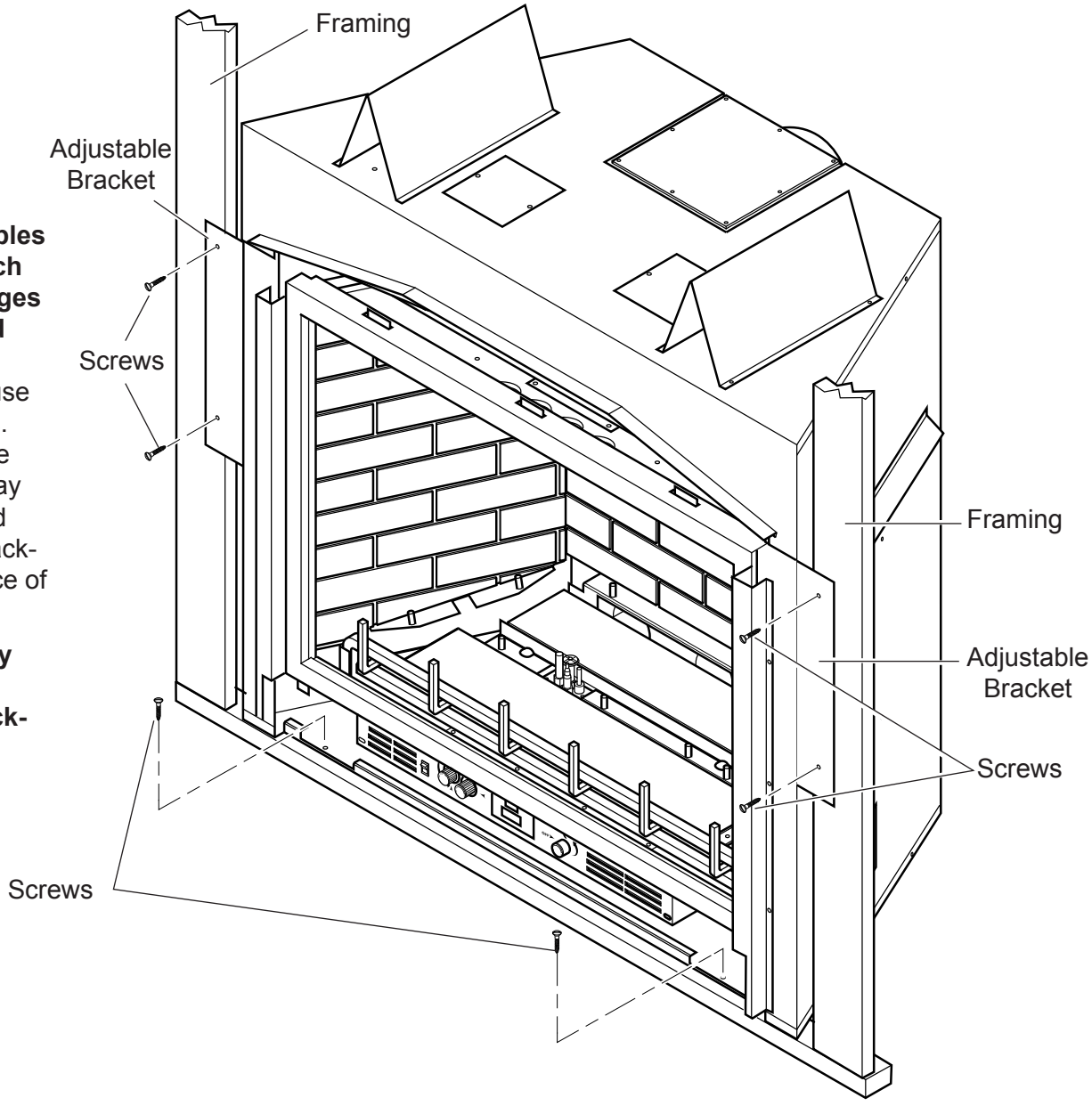


Figure 9 - Securing Fireplace to Floor and Framing Studs

CLEARANCES

CLEARANCES TO COMBUSTIBLES

WARNING

Follow these instructions carefully to ensure safe installation. Failure to follow instructions exactly can create a fire hazard.

The appliance cannot be installed on a carpet, tile or other combustible material other than wood flooring. If installed on carpet or vinyl flooring, the appliance shall be installed on a metal, wood or noncombustible material panel extending full width and depth of the appliance.

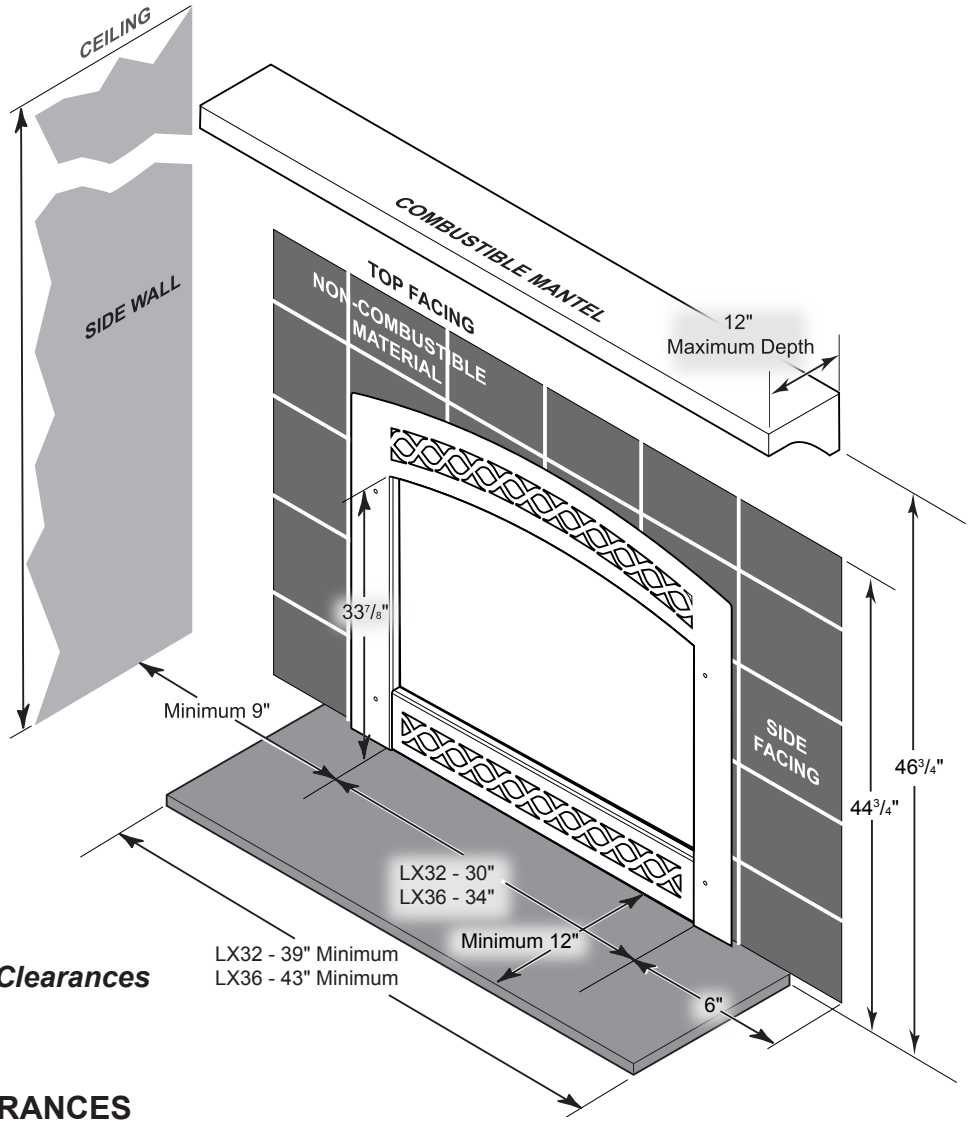


Figure 10 - Clearances

MANTEL CLEARANCES

NOTE: The combustible area above the facing must not protrude more than 3/4" from the facing. If it does, it is considered a mantel and must meet the mantel requirements listed in this manual.

HEARTH REQUIREMENTS

The fireplace must be installed on a non-combustible hearth extending a minimum of 12" from the fireplace opening (local codes may require a larger hearth). The hearth must also extend to both sides of the face (see the table above for the exact width of the face).

FINISHING MATERIAL

NOTE: Any remote wiring (i.e. remote control, wall switch, and optional fan) must be done prior to final finishing to avoid costly reconstruction.

WARNING

Never obstruct or modify the air inlet or outlet grills (louvers). This may create a fire hazard.

Only noncombustible materials (i.e. brick, tile, slate, steel, or other materials with a UL fire rating of Zero) may be used to cover the black surface of the appliance. A 300°F minimum adhesive may be used to attach facing materials to the black surface. If joints between the finished wall and the fireplace surround are sealed, a 300°F minimum sealant material (General Electric RTV103 or equivalent) must be used.

VENT INSTALLATION

WARNING

Read all instructions completely and thoroughly before attempting installation. Failure to do so could result in serious injury, property damage or loss of life. Operation of improperly installed and maintained venting system could result in serious injury, property damage or loss of life.

NOTICE

Failure to follow these instructions will void the warranty.

INSTALLATION PRECAUTIONS

Consult local building codes before beginning the installation. The installer must make sure to select the proper vent system for installation. Before installing vent kit, the installer must read this fireplace manual and vent kit instructions.

Only a qualified installer/service person should install venting system. The installer must follow these safety rules:

- Wear gloves and safety glasses for protection.
- Use extreme caution when using ladders or when on rooftops.
- Be aware of electrical wiring locations in walls and ceilings.

The following actions will void the warranty on your venting system:

- Installation of any damaged venting component.
- Unauthorized modification of the venting system.
- Installation of any component part not manufactured or approved by Lexington Forge.
- Installation other than permitted by these instructions.

VENT INSTALLATION

COMBUSTIBLE CLEARANCES FOR VENT PIPE

WARNING

This fireplace must be vented to the outside. The venting system must NEVER be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance must use a separate vent system. Do not use common vent systems.

Horizontal sections of this vent system require a minimum of 3" clearances to combustibles at the top of the flue and 1" clearance at the sides and bottom *until the flue penetrates the outside wall.* A minimum 1" clearance all around the flue is acceptable at this point of penetration.

Vertical sections of this vent system require a minimum of 1" clearance to combustibles on all sides of the pipe.

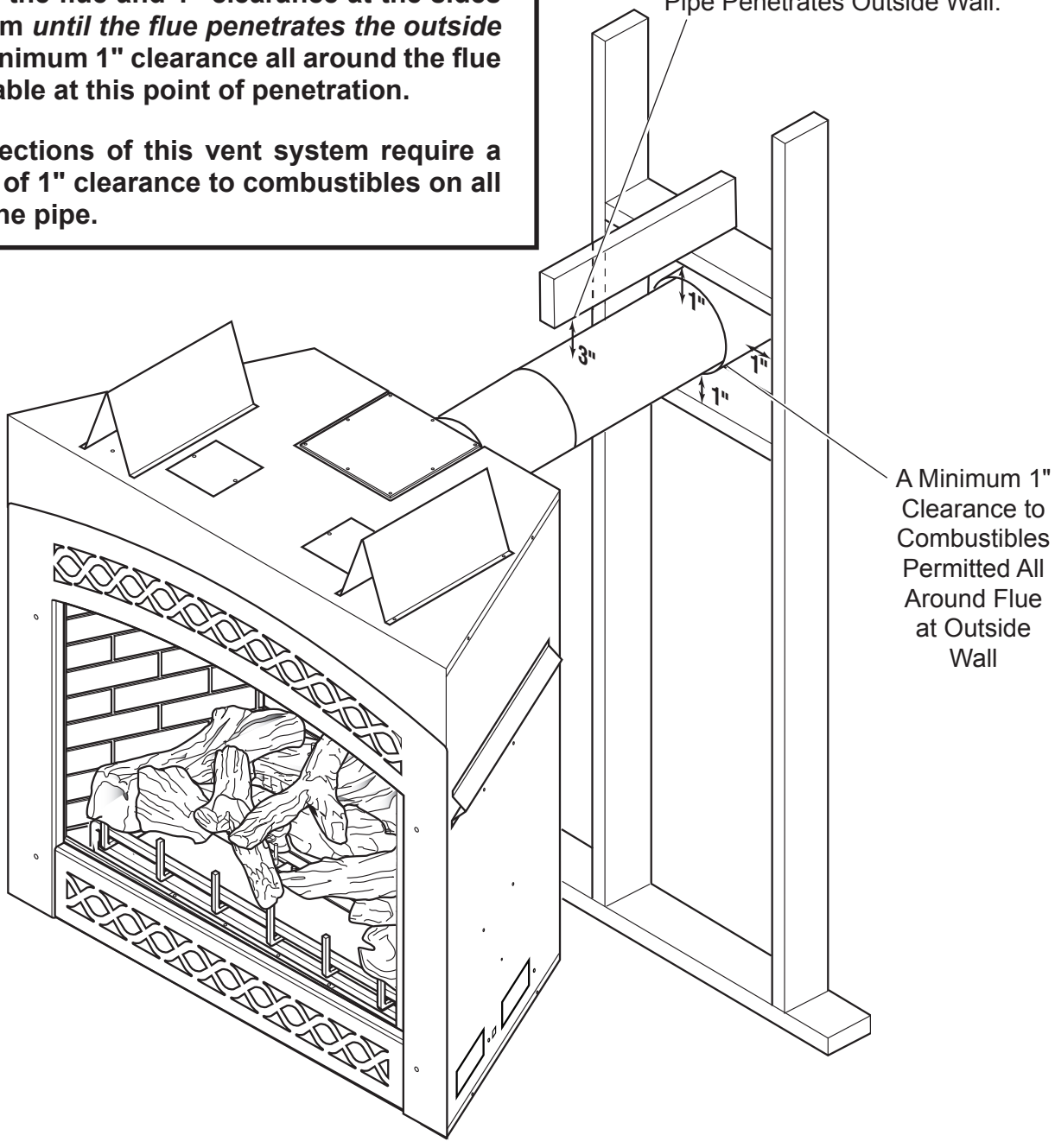


Figure 11 - Combustible Clearances for Vent Pipe

OPTIONAL TOP VENT APPLICATION

The appliance is shipped as a rear vent unit. If the installation layout requires the unit to be a top vent configuration the appliance can be converted by the following steps.

When removing and refitting the plates and adapter be sure the associated gaskets are undamaged and refitted as required.

1. Remove the eight (8) screws securing the flue pipe adapter to the fireplace body. *See Figure 12*.
2. Set the flue pipe adapter aside, complete with the gasket. Do not damage the gaskets as the adapter and gasket must be refitted.
3. Remove the eight (8) screws securing the flue pipe cover to the top of the intake box and remove the cover and gasket. *See Figure 12*.
4. Remove eight (8) screws securing the flue pipe to the back of the intake box and remove the pipe and gasket. *See Figure 13*.
5. Replace flue pipe to top of firebox. Ensure the gasket is in place and undamaged. Secure with eight (8) screws. *See Figure 13*.
6. Place the flue pipe cover and gasket removed in step 3 over the flue opening in bottom of the intake box.
7. Refit the flue pipe adapter and gasket to the top of fireplace. Secure the adapter with eight (8) screws removed in step 1.

WARNING

After conversion to top vent configuration the 4" (100mm) flue pipe should be concentric within the $6\frac{5}{8}$" (175mm) outer collar (within $\frac{1}{4}$").

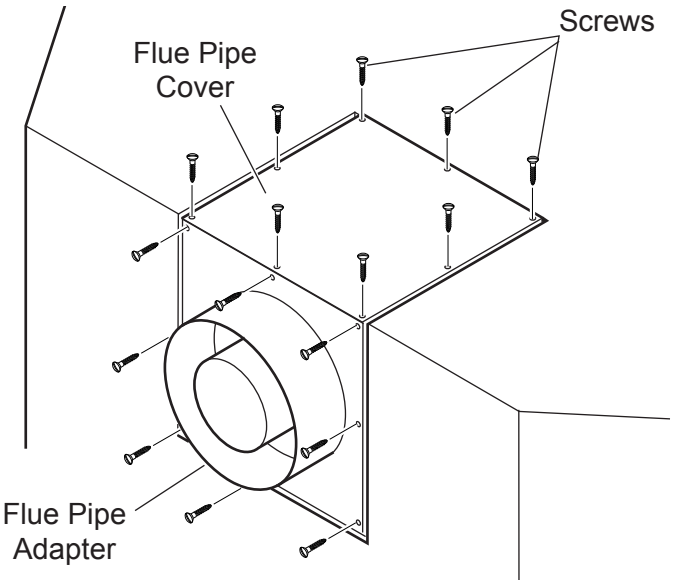


Figure 12 - Removing sixteen (16) Screws from Flue Pipe Adapter and Flue Pipe Cover

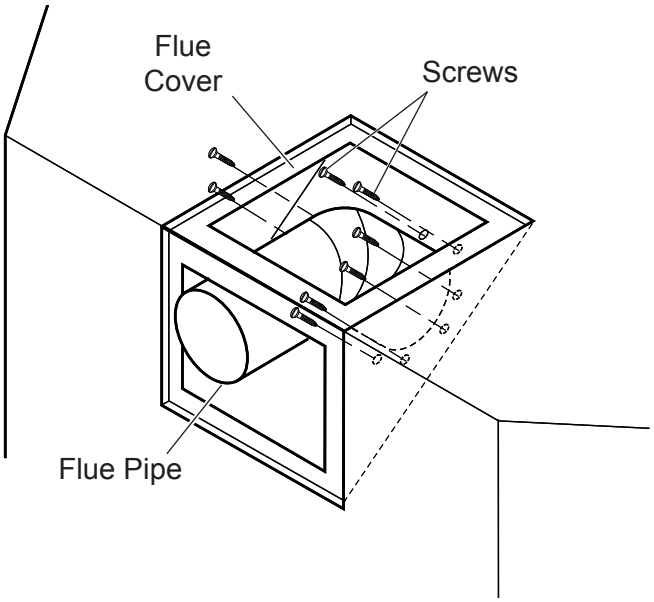


Figure 13 - Removing Flue Pipe

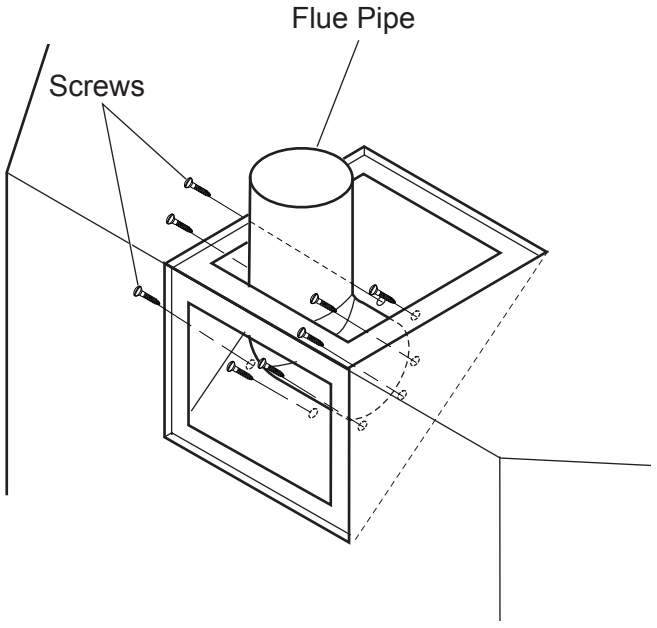


Figure 14 - Attaching Flue Pipe to Top Vent Configurations

VENT INSTALLATION

INSTALLATION PLANNING

There are two basic types of direct-vent installation:

- Horizontal Termination
- Vertical Termination

It is important to select the proper length of vent pipe for the type of termination you choose. It is also important to note the wall thickness.

FOR HORIZONTAL TERMINATION

Select the amount of vertical rise desired. All horizontal run of venting must have minimum $^1/_4$" rise for every 12" of run towards the termination.

You may use up to three 90° elbows in this vent configuration. See *Horizontal (Through the Wall) Termination Configurations* on pages 21 and 22.

WARNING

Never run the vent pipe level or downward. This may cause excessive temperatures which could cause a fire.

FOR VERTICAL TERMINATION

Measure the distance from the fireplace floor to the ceiling. Add the ceiling thickness, the vertical rise in an attic or second story, and allow for sufficient vent height above the roof line.

NOTE: You may use two 45° elbows in place of a 90° elbow. You must follow rise to run ratios when using 45° elbows. The appliance is approved for use with three 90° elbows maximum or a combination of 90° and 45° elbows up to a maximum of 270°.

For two-story applications, firestops are required at each floor level. If an offset is needed in the attic, additional pipe and elbows will be required.

You may use a chase with a vent termination with exposed pipe on the exterior of the house. See *Installing Vent System in a Chase* below. If pipe is enclosed in chase, it is not exposed.

It is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust. Certain limitations apply to vent configurations and must be strictly followed.

INSTALLING A VENT SYSTEM IN AN OUTSIDE CHASE

A chase is a vertical boxlike structure built to enclose venting that runs along the outside of a building. A chase is required for such venting.

NOTICE

Treatment of firestops and construction of the chase may vary from building type to building type. These instructions are not substitutes for the requirements of local building codes. You must follow all local building codes.

NOTICE

When installing in a chase, you should insulate the chase as you would the outside walls of your home. This is especially important in cold climates. Insulation should be considered a combustible material. Maintain proper clearances to all combustible materials.

FOR HORIZONTAL TERMINATION

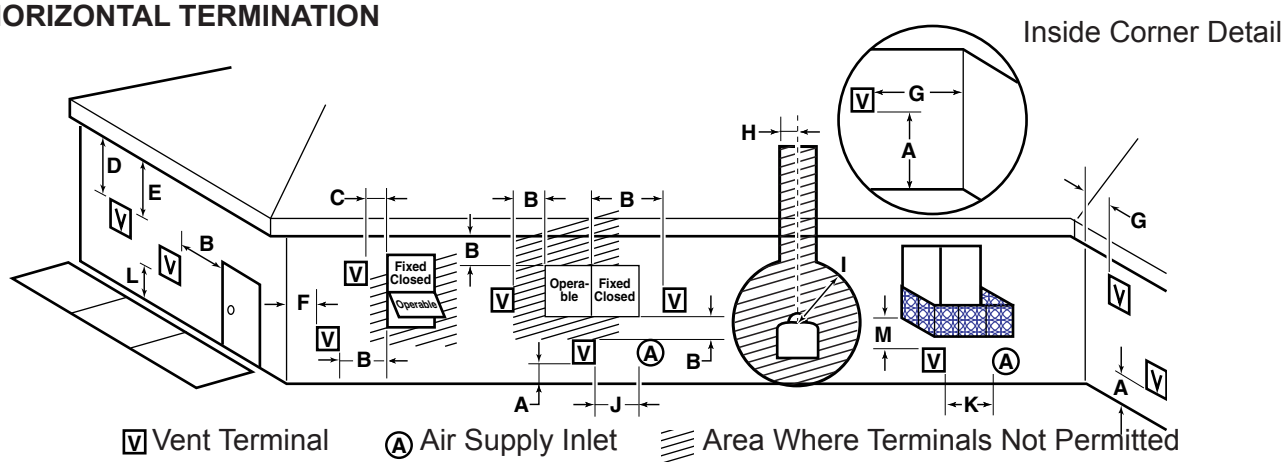


Figure 15 - Horizontal Vent Termination Location

MINIMUM DISTANCES

A = Clearance above the grade, a veranda, porch, deck, or balcony [*12" (305mm) minimum].
B = Clearance to window or door that may be opened [*12" (305mm) minimum].
C = Clearance to permanently closed window [*minimum 12" (305mm) recommended to prevent condensation on window]
D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of two (2) feet (610mm) from the centerline of the terminal [18" (457mm) minimum].
E = Clearance to unventilated soffits [12" (305mm) minimum]. **Clearance to vinyl soffit [30" (762mm)].**
F = Clearance to an outside corner. See page 12.
G = Clearance to an inside corner. See page 12.
H = *Not to be installed above a gas meter/regulator assembly within three (3) feet (914mm) horizontally from the centerline of the regulator.
I = Clearance to service regulator vent outlet [*3' (914mm) minimum].
J = Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance [*12" (305mm)minimum].
K = Clearance to a mechanical air supply inlet [*6' (1829mm) minimum].
L = Clearance above a paved sidewalk or paved driveway located on public property [**7' (2133mm) minimum].
M = Clearance under veranda, porch, deck, or balcony [*12" (305mm) minimum***].
N = Clearance above a roof shall extend a minimum of 24" (610mm) above the highest point when it passes through the roof surface and any other obstruction within a horizontal distance of 18" (457mm).

* As specified in CAN/CGA B149 Installation Codes. Note: Local codes or regulations may require different clearances.
** A vent must not terminate directly above a sidewalk or paved driveway, which is located between two single-family dwellings and serves both dwellings.
*** Only permitted if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

WARNING

Always maintain minimum clearances around vent systems. The minimum clearances to combustibles for horizontal vent pipe are 3" at the top and 1" at the sides and bottom of the vent system until the pipe penetrates the nearest vertical wall. A 1" minimum clearance all around the pipe must be maintained. Do not pack the open air spaces with insulation or other materials. This could cause high temperatures and may present a fire hazard.

TERMINATION CLEARANCES FOR BUILDINGS WITH COMBUSTIBLE AND NONCOMBUSTIBLE EXTERIORS

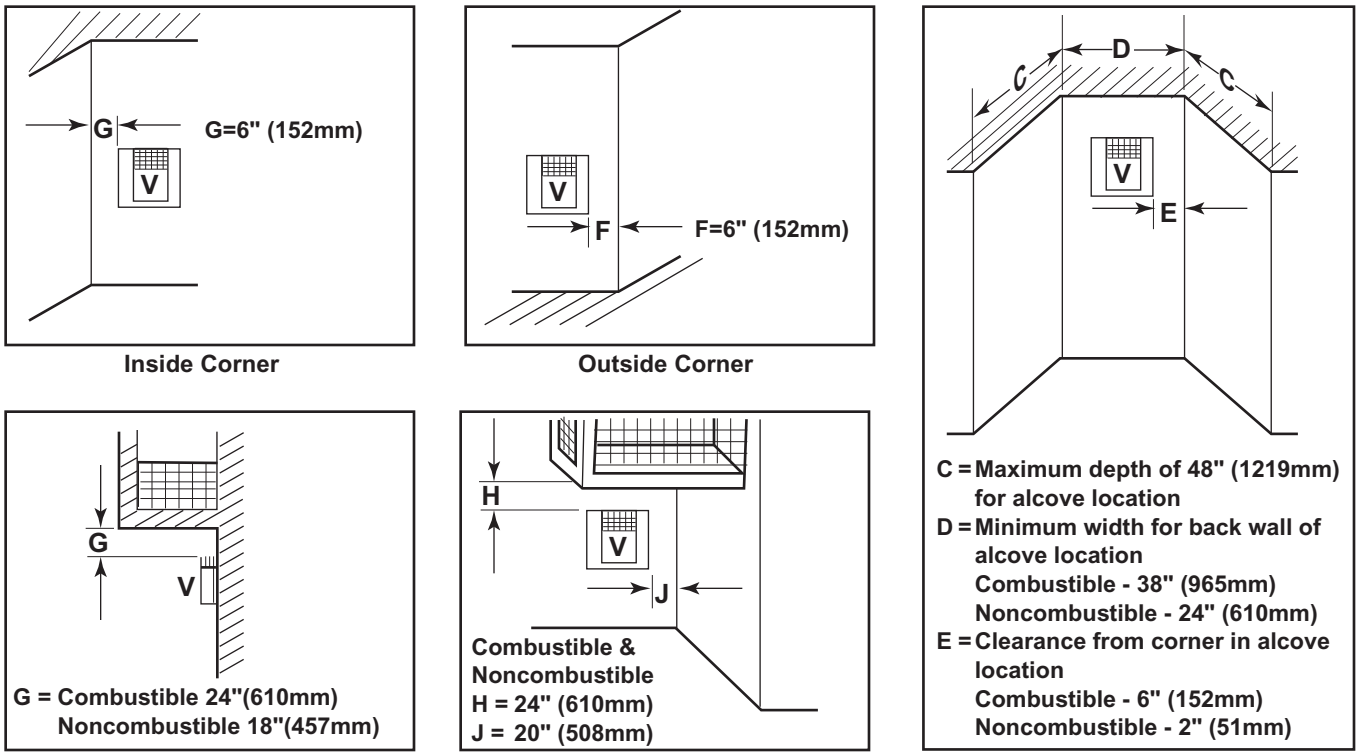


Figure 16 - Allowable Venting Chart

HOW TO USE THE VENT GRAPH

The Vent Graph should be read in conjunction with the following vent installation instructions to determine the relationship between the vertical and horizontal dimensions of the vent system.

1. Determine the height of the center of the horizontal vent pipe exiting through the outer wall. Using this dimension on the Sidewall Vent Graph below, locate the point intersecting with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the fireplace in accordance with same.

   Example: If the vertical dimension from the floor of the fireplace is 11' (3.4m) the horizontal run to the face of the outer wall must not exceed 14' (4.3m).

   Example: If the vertical dimension from the floor of the unit is 7' (2.14m), the horizontal run to the face of the outer wall must not exceed 8½' (2.6m).

Sidewall Vent Graph showing the relationship between vertical and horizontal dimensions for a Direct Vent flue system.

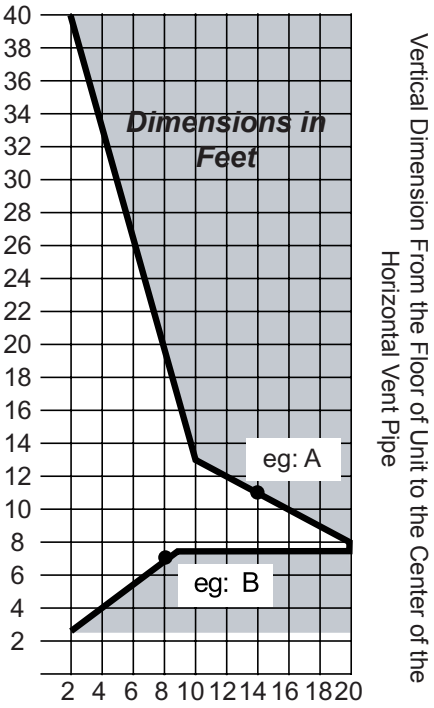


Figure 17 - Rear Wall Venting Graph

REAR WALL VENT INSTALLATION

When installed as a rear vent unit this appliance may be vented directly to a termination located on the rear outside termination behind the appliance

- 45° elbows may only be attached to rear when used to direct the flue skyward (to achieve additional rise). Do not attach 45° elbows to rear of appliance in which the flue turns either left or right and terminates horizontal.
- The maximum horizontal distance between the rear of the appliance and the outside face of the outside termination is 20" (508 m). *See Figure 18.*

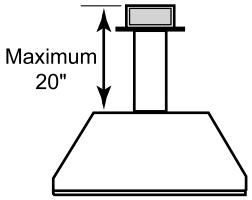


Figure 18 - Rear Vent Application, Maximum Horizontal Distance

1. Locate and cut the vent opening in the wall. For combustible walls first frame in opening. *See Figure 17.*

   Combustible Walls: Cut a 11½"H x 9½" W (292mm x 24mm) hole through the exterior wall and frame as shown. *See Figure 19.*

   Noncombustible Walls: Hole opening should be 7½" (190mm) in diameter.

2. Rigid vent pipes and fittings have special twist-lock connections. Assemble the desired combination of pipe and elbows to the appliance adaptor with pipe seams oriented towards the wall or floor.

   Twist-lock Procedure: The female ends of the pipes and fittings have three locking lugs (indentations). These lugs will slide straight into matching slots on the male end of adjacent pipes and fittings. Push the pipe sections together and twist one section clockwise approximately one-quarter turn until the sections are fully locked. *See Figure 20.*

3. Attach vent pipe assembly to the fireplace. Set fireplace in front of its permanent location to insure minimum clearances. Mark the wall for a 11½"H x 9½"W (292mm x 24mm) rectangle hole (for noncombustible material such as masonry block or concrete, a 7½" [190mm] diameter hole is acceptable). *See Figure 19.* The center of the hole should line up with the center line of the horizontal rigid vent pipe end. Be sure to allow for minimum rise. Cut a 11½"x9½" (292mm X 241mm) rectangle hole through combustible exterior wall (7½" [190mm] diameter hole if noncombustible). Frame as necessary. Allow ¼" minimum rise per foot. *See Figure 19.*

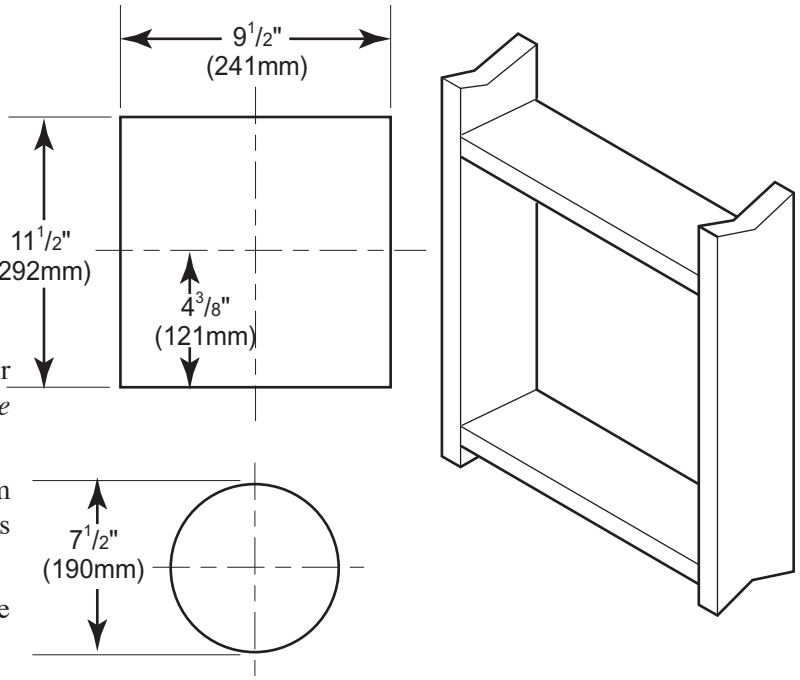
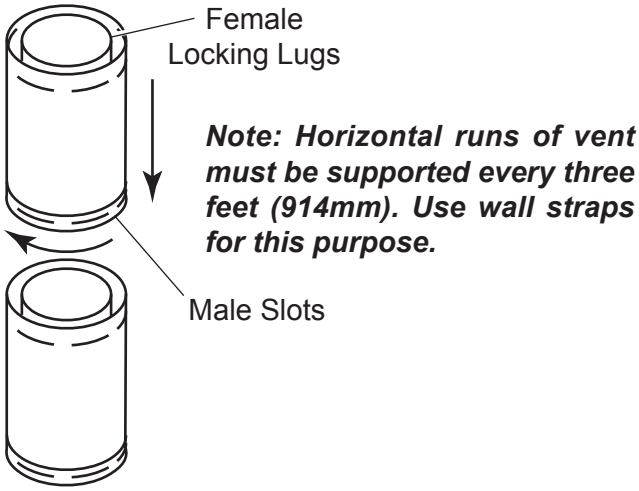


Figure 19 - Vent Opening Requirements



Note: Horizontal runs of vent must be supported every three feet (914mm). Use wall straps for this purpose.

Figure 20 - Rigid Vent Pipe Connections

Continued on Next Page

REAR WALL VENT INSTALLATION *(continued)*

4. Apply a bead of non-hardening mastic around the outside edge of vent cap. Position the vent cap in the center of hole on the exterior wall with the word "UP" on the vent cap facing up. Insure proper clearance of 1" to combustibles is maintained. Attach the vent cap with four wood screws supplied. *See Figure 21.*

WARNING

Do not recess vent termination into any wall. This will cause a fire hazard.

NOTE: Replace the wood screws with appropriate fasteners for stucco, brick, concrete, or other types of siding.

For vinyl siding, stucco, or wood exterior use vinyl siding standoffs between vent cap and exterior wall. The vinyl siding standoff prevents excessive heat from melting the vinyl siding material. Bolt the vent cap to the standoff. Apply non-hardening mastic around outside edge of the standoff instead of the vent cap assembly. Use wood screws provided to attach the standoff. *See Figure 22.*

5. Slide fire stop over the vent pipe before connecting the horizontal run to the vent cap. *See Figure 23.*
6. The pipe overlap should be a minimum of $1^1/_4$". Apply silicone to the outer pipe connection. Fasten all vent connections with screws provided.
7. Slide fire stop against the interior wall surface and attach with srews. *See Figure 23.*

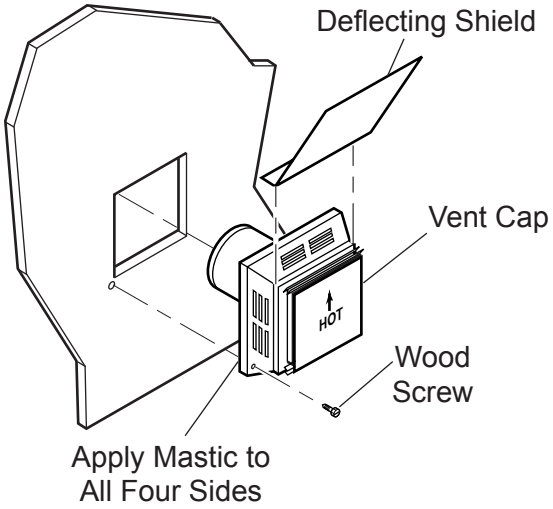


Figure 21 - Installing Horizontal Vent Cap

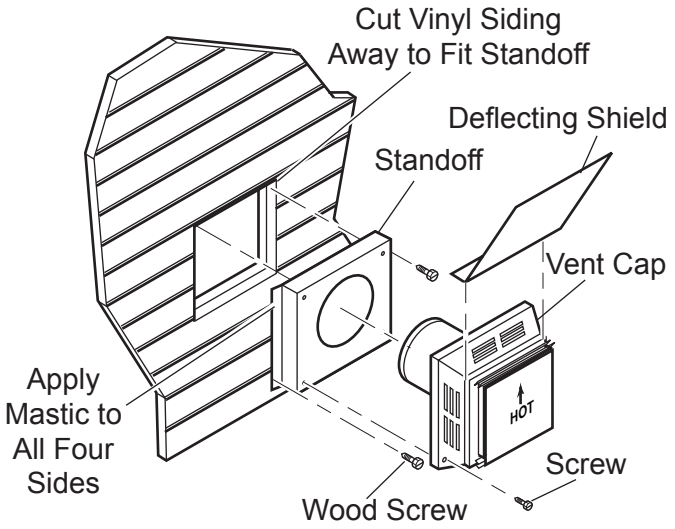


Figure 22- Installing Vinyl Siding Standoff

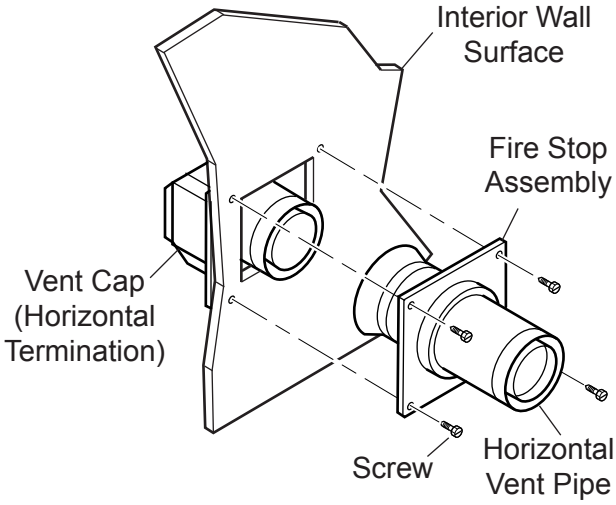


Figure 23 - Connecting Vent Cap with Horizontal Vent Pipe

HORIZONTAL (THROUGH THE WALL) TERMINATION CONFIGURATIONS

Since it is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The Vent Graph, showing the relationship between vertical and horizontal side wall venting, will help to determine the various dimensions allowable. *See page 18.*

Minimum clearance between vent pipes and combustible materials is 3" on top and 1" from bottom and sides unless otherwise noted.

When vent termination exits through foundations less than 20" below siding outcrop, the vent pipe must flush up with the siding.

It is best to locate the fireplace in such a way that minimizes the number of offsets and horizontal vent length.

The horizontal vent run refers to the total length of vent pipe from the flue collar of the fireplace (or the top of the Transition Elbow) to the face of the outer wall.

WARNING

When installing the appliance as a rear vent unit, the 90° or 45° transition elbow attached directly to the rear of the unit is NOT INCLUDED in the following criteria and calculations, and unless specifically mentioned should be ignored when calculating venting layouts.

- The maximum number of 90° elbows per side wall installation is three (3). *See Figure 24.*
- If a 90° elbow is fitted directly on top of the fireplace flange the maximum horizontal vent run before the termination or a vertical rise is 36” (914 mm). *See Figure 25.*

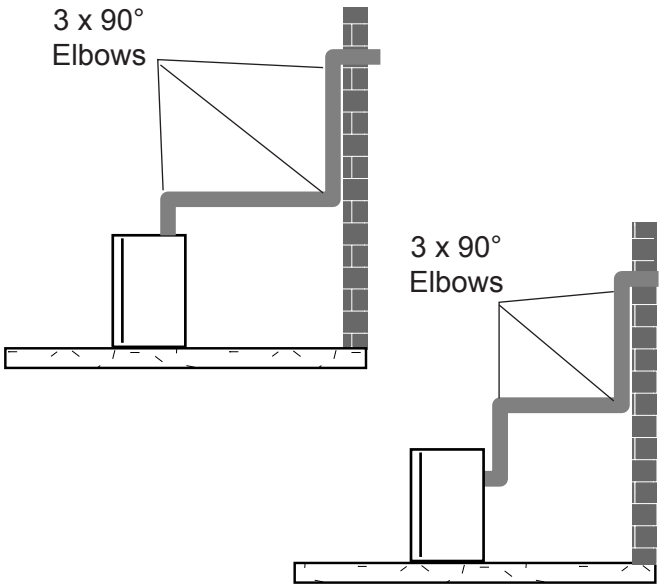


Figure 24 - Maximum Three (3) 90° Elbows Per Installation

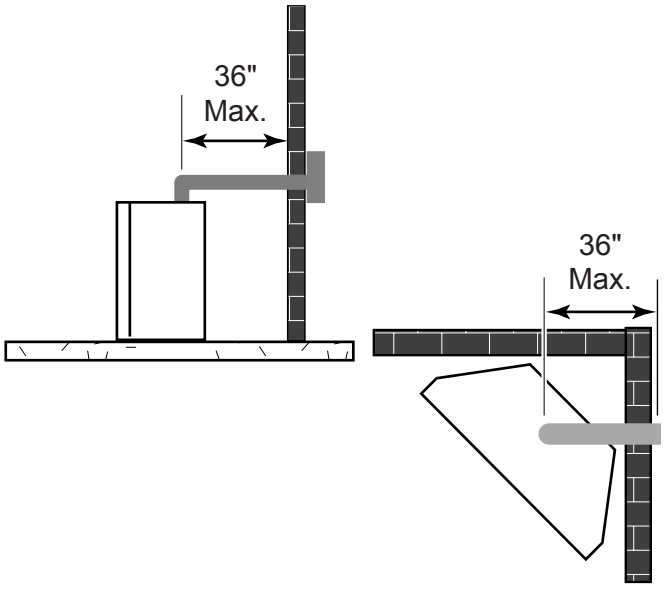


Figure 25 - Maximum Horizontal Run with No Rise

HORIZONTAL (THROUGH THE WALL) TERMINATION CONFIGURATION *(Continued)*

- If a 90° elbow is used in the horizontal vent run (level height maintained) the horizontal vent length is reduced by 36" (914 mm). This does not apply if the 90° elbows are used to increase or redirect a vertical rise. *See Figure 27.*

Example: According to the vent graph (page 16) the maximum horizontal vent length in a system with a 7.5' vertical rise is 20' (6m). If a 90° elbow is required in the horizontal vent it must be reduced to 17' (5.2 m).

In Figures 25 and 26, Dimension A plus B must not be greater than 17' (5.2m).

- The maximum number of 45° elbows permitted per side wall installation is two (2). These elbows can be installed in either the vertical or horizontal run.
- For each 45° elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18" (45cm). This does not apply if the 45° elbows are installed on the vertical part of the vent system.
- The maximum number of elbow degrees in a system is 270°. *See Figure 28.*

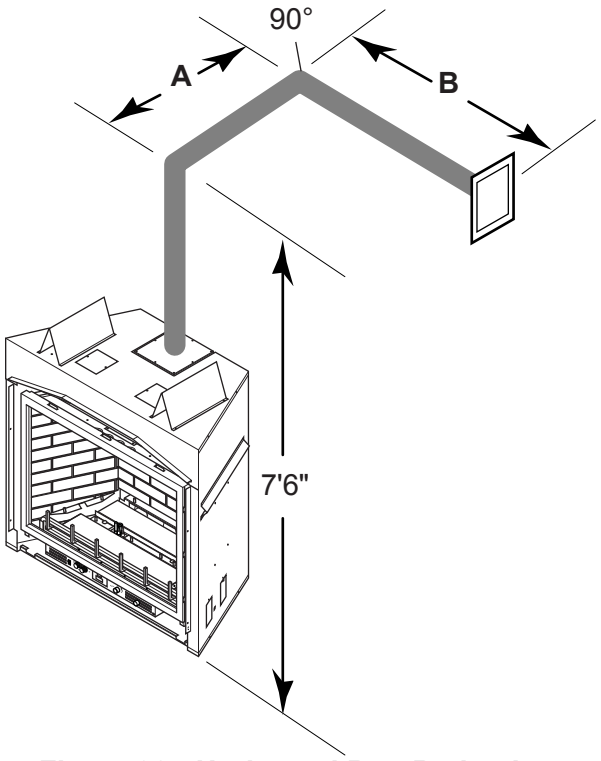


Figure 26 - Horizontal Run Reduction

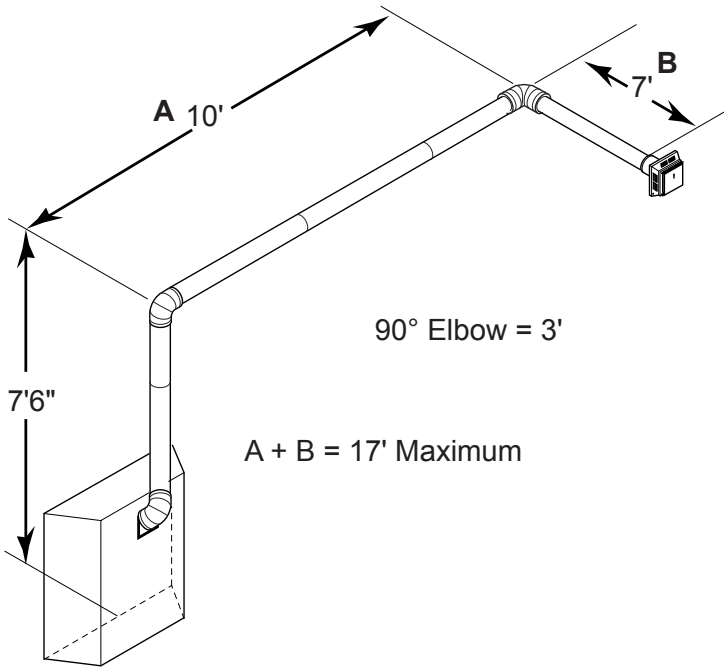


Figure 27 - Maximum Vent Run with Elbows

Example:	Elbow 1	=	90°
	Elbow 2	=	45°
	Elbow 3	=	45°
	Elbow 4	=	90°
Total Angular Variation		=	270°

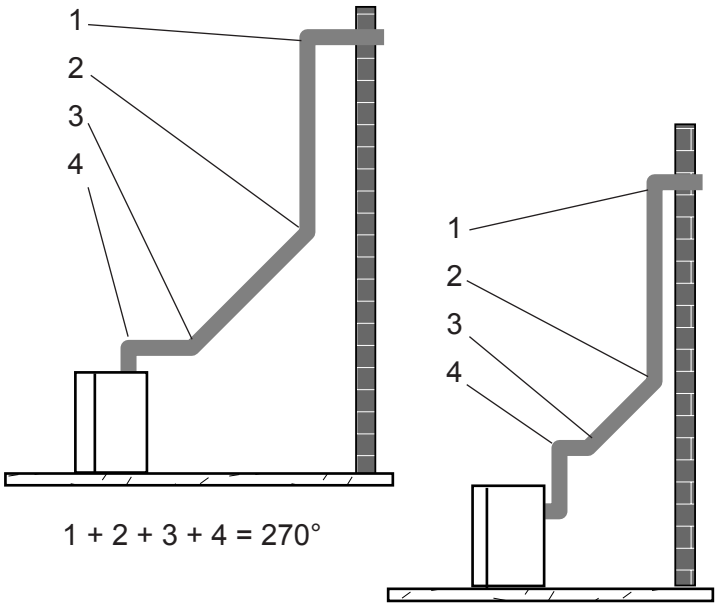


Figure 28 - Maximum Elbow Usage

BELOW GRADE INSTALLATIONS

When it is not possible to meet the required vent terminal clearances of 12" above grade level, a snorkel kit is recommended. It allows installation depth down to 7" (178mm) below grade level. The 7" (178mm) is measured from the center of the horizontal vent pipe as it penetrates through the wall.

Ensure that sidewall venting clearances are observed. If venting system is installed below ground, we recommend a window well with adequate and proper drainage to be installed around the termination area.

If installing a snorkel, a minimum 24" vertical rise is necessary. The maximum horizontal run with the 24" vertical pipe is 36". This measurement is taken from the collar of the fireplace (or transition elbow) to the face of the exterior wall. See the Sidewall Venting Graph for extended horizontal run if the vertical exceeds 24".

1. Establish vent hole through the wall. *See Figure 22, page 20.*
2. Remove soil to a depth of approximately 16" below base of snorkel. Install drain pipe. Install window well (not supplied). Refill hole with 12" of coarse gravel leaving a clearance of approximately 4" below snorkel. *See Figure 29.*
3. Install vent system.
4. Ensure a watertight seal is made around the vent pipe coming through the wall.
5. Apply high temperature sealant caulking (supplied) around the 4" and 7" snorkel collars.
6. Slide the snorkel into the vent pipes and secure to the wall.
7. Level the soil so as to maintain a 4" clearance below snorkel. *See Figure 29.*

WARNING

- **Do not back fill around snorkel.**
- **A clearance of at least 4" must be maintained between the snorkel and the soil.**

If the foundation is recessed, use recess brackets (not supplied) for securing lower portion of the snorkel. Fasten brackets to wall first, then secure to snorkel with self drilling #8x1/2 sheet metal screws. It will be necessary to extend vent pipes out as far as the protruding wall face. *See Figure 30.*

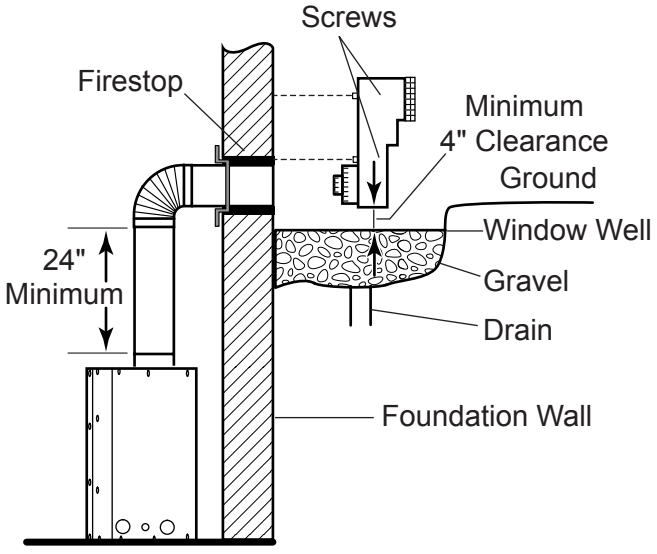


Figure 29 - Below Grade Installation

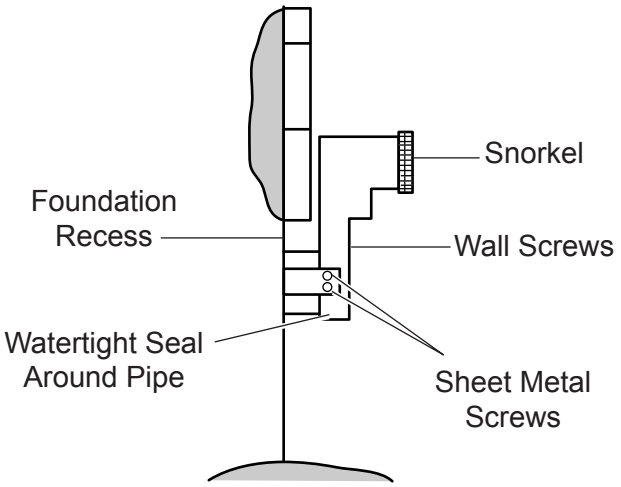


Figure 30 - Snorkel Installation, Recessed Foundation

VERTICAL THROUGH-THE-ROOF APPLICATIONS

This Gas Fireplace has been approved for,

- Vertical installations up to 40' (12m) in height. Up to a 10' (3m) horizontal vent run can be installed within the vent system using a maximum of two 90° elbows. *See Figure 31.*
- Install restrictor disk on vertical runs of 10' or more.

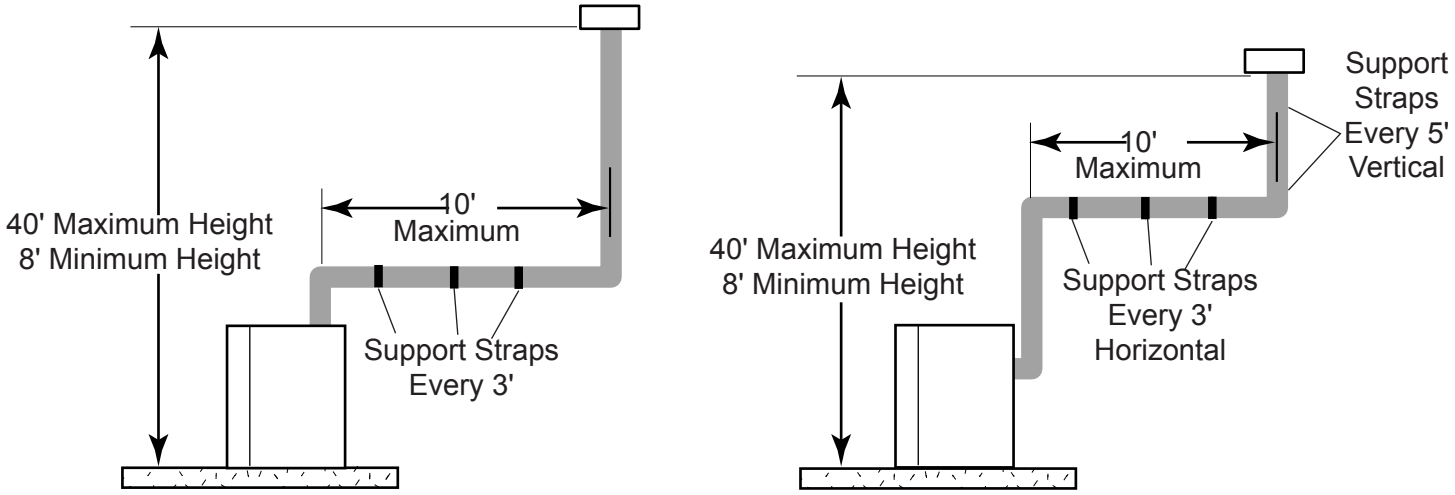


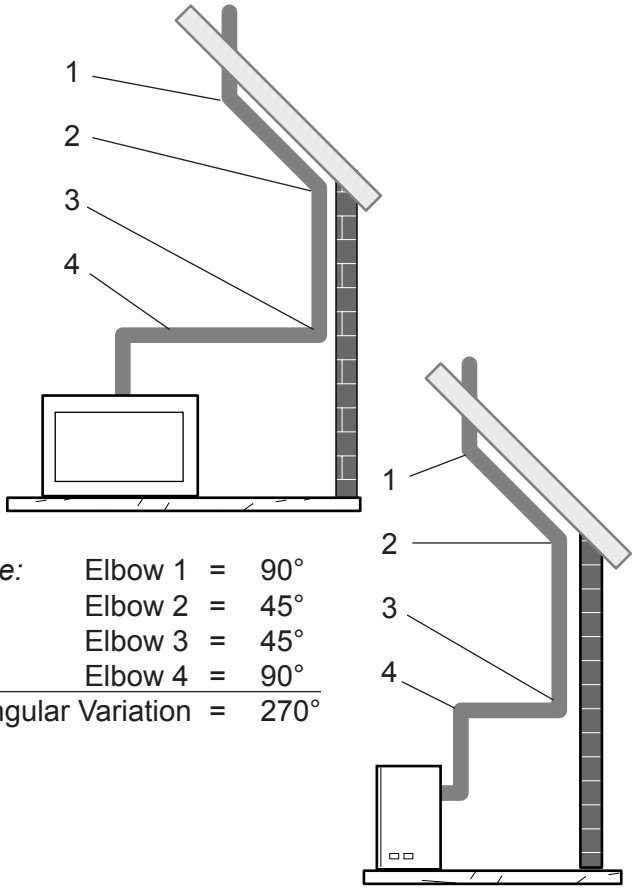
Figure 31 - Support Straps for Horizontal Runs

- Up to two 45° elbows may be used within the horizontal run. For each 45° elbow used on the horizontal plane, the maximum horizontal length must be reduced by 18" (450mm).

Example: Maximum horizontal length

No elbows	=	10’ (3m)
1x45° elbows	=	8.5’ (2.6m)
2x45° elbows	=	7’ (2.1m)

- A minimum of an 8' (2.5m) vertical rise is required.
- Two sets of 45°elbows offsets may be used within the vertical sections. From 0 to a maximum of 8' (2.5 m) of vent pipe can be used between elbows. *See Figure 32.*
- The maximum angular variation allowed in the system is 270°. *See Figure 32.*
- See termination height on page 26.



Example:

Elbow 1	=	90°
Elbow 2	=	45°
Elbow 3	=	45°
Elbow 4	=	90°
Total Angular Variation	=	270°

Figure 32 - Maximum elbow Usage

INSTALLATION FOR VERTICAL TERMINATION

1. Determine the route your vertical venting will take. If ceiling joist, roof rafters or other framing will obstruct the venting system, consider an offset. *See Figure 33* to avoid cutting load bearing members.

NOTE: Pay special attention to these installation instructions for required clearances (air space) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, etc. Do not pack air spaces with insulation. Also note maximum vertical rise of the venting system and any maximum horizontal offset limitations. Offsets must fall within the parameters shows in Figure 17, page 18.

2. Set fireplace in desired location. Drop a line plumb down from the ceiling to the position of the flue exit. Mark the center point where the vent will penetrate the ceiling. Drill a small locating hole a this point.

   Drop a plumb line from the inside of the roof to the ceiling locating hole in the ceiling. Mark the center point where the vent will penetrate the roof. Drill a small locating hole at this point.

FLAT CEILING INSTALLATION

1. Cut a $9^1/_2$" (241mm) square hole in the ceiling using the locating hole as a center point The opening should be framed to $9^1/_2$"x$9^1/_2$" (241mm x 241mm) inside dimensions as shown in *Figure 35* using framing lumber the same size as the ceiling joist. If the area above the ceiling is an insulated ceiling or a room, nail firestop from the top side. This prevents loose insulation from falling into the required clearance space. *See Figure 34*. Otherwise, install firestop below the framed hole. The firestop should be installed with no less than three nails per side. *See Figure 35*.
2. Assemble the desired lengths of pipe and elbows necessary to reach from the burner system flue up through the firestop. Be sure pipe and elbow connections are fully twist-locked. *See Figure 20, page 19*.
3. Cut a hole in the roof using the locating hole as a center point. (Cover any exposed open vent pipes before cutting hole in roof). The $9^1/_2$"x$9^1/_2$" (241mm x 241mm) hole must be measured on the horizontal. Actual length may be larger depending on the pitch of the roof. There must be a 1" minimum clearance from the vent pipe to combustible materials. (Insulation should be considered a combustible material) Frame the opening as shown in *Figure 19 on page 19*.

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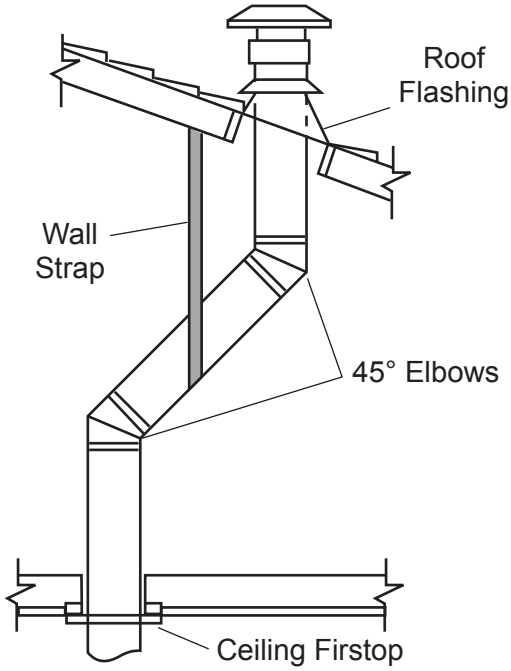

Figure 33 - Offset with Wall Strap and 45° Elbows

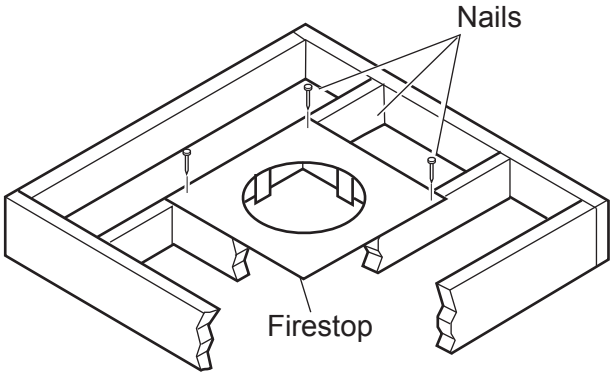

Figure 34 - If area above is a room, install firestop above framed hole as shown

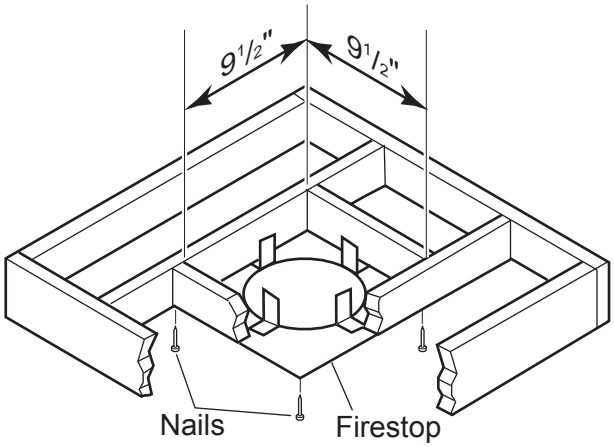

Figure 35 - If area above is not a room, install firestop below framed hole as shown

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INSTALLATION FOR VERTICAL TERMINATION *(CONTINUED)*

4. Connect a section of pipe and extend up through the hole.

NOTE: If an offset is needed to avoid obstructions, you must support the vent pipe every three (3) feet. Use wall straps for this purpose. See Figure 32, page 24. Whenever possible, use 45° elbows instead of 90° elbows. The 45° elbow offers less restriction to the flow of the flue gases and intake air.

5. Place the flashing over the pipe section(s) extending through the roof. Secure the base of the flashing to the roof and framing with roofing nails. Be sure roofing material overlaps the top edge of the flashing. There must be a 1" clearance from the vent pipe to combustible materials.
6. Continue to add pipe sections until the height of the vent cap meets the minimum requirements below.

NOTE: You must increase vent height for steep roof pitches. Nearby trees, adjoining roof lines, steep pitched roofs, and other similar factors may cause poor draft or down-drafting in high winds. Increasing the vent height may solve this problem.

NOTE: If the vent pipe passes through any occupied areas above the first floor, including storage spaces and closets, you must enclose pipe. You may frame and sheetrock the enclosure with standard construction material. Make sure to meet the minimum allowable clearances to combustibles. Do not fill any of the required clearance spaces with insulation.

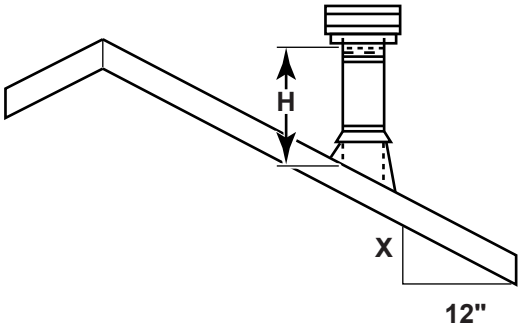


Figure 36 - Minimum Chimney Clearance

TERMINATION HEIGHT TABLE
Use this table to determine the minimum height above the roof.

	Minimum Height	
Roof Pitch	**Feet**	**Meters**
Flat to 7/12	1	0.3
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4	1.22
Over 12/12 to 14/12	5	1.52

CHECK GAS TYPE

Use proper gas type for the insert you are installing. If you have conflicting gas type, do not install insert. See dealer where you purchased the insert for proper insert according to your gas type.

INSTALLING GAS PIPING TO INSERT LOCATION

INSTALLATION ITEMS NEEDED

Before installing insert and burner system, make sure you have the items listed below.

- External regulator (supplied by installer)
- Piping (check local codes)
- Sealant (resistant to propane/LP gas)
- Test gauge connection*
- Sediment trap (optional but recomended)
- approved flexible gas line with gas connector (if allowed by local codes — not provided)
- Tee joint
- Pipe wrench

* A CSA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the CSA design-certified equipment shutoff valve from your dealer.

WARNING

A qualified installer or service person must connect appliance to gas supply. Follow all local codes.

CAUTION

For propane/LP units, never connect insert directly to the propane/LP supply. This burner system requires an external regulator (not supplied). Install the external regulator between the burner system and propane/LP supply.

For propane/LP connections only, the installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11 and 13 inches of water. If you do not reduce incoming gas pressure, burner system regulator damage could occur. Install external regulator with the vent pointing down as shown in *Figure 37*. Pointing the vent down protects it from freezing rain or sleet.

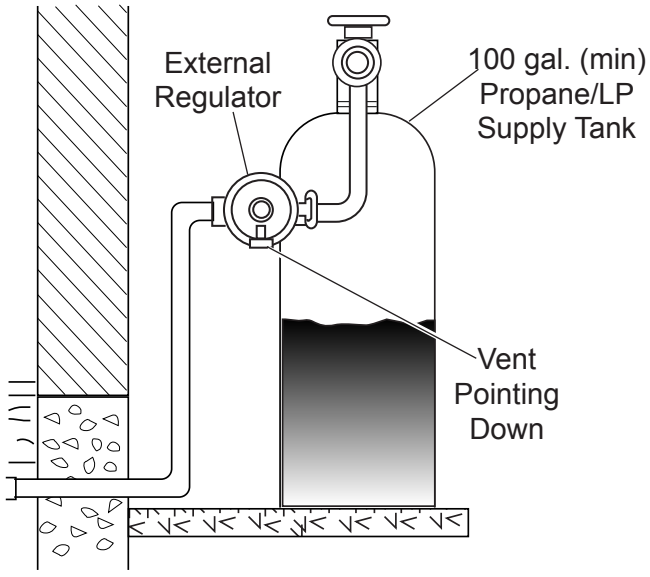


Figure 37 - External Regulator with Vent Pointing Down (Propane/LP Only)

When using copper or flex connectors use only fittings approved for gas connections. The gas control inlet is 3/8" NPT.

CAUTION

Use only new black iron or steel pipe. Internally tinned copper or copper tubing can be used per National Fuel Code, section 2.6.3, providing gas meets hydrogen sulfide limits, and where permitted by local codes. Gas piping system must be sized to provide minimum inlet pressure (listed on data plate) at the maximum flow rate (BTU/hr). Undue pressure loss will occur if the pipe is too small.

WARNING

External regulators may be necessary for natural gas. One- or two-pound systems will damage this appliance and may cause fire hazzard.

WARNING

Only persons licensed to work with gas piping may make the necessary gas connections to this appliance.

CAUTION

A manual shutoff valve must be installed upstream of the appliance. Union tee and plugged 1/8" NPT pressure tapping point should be installed upstream of the appliance. *See Figure 38.*

NOTE : The gas line connection may be made using 1/2" rigid tubing or an approved flex connector. Since some municipalities have additional local codes it is always best to consult your local authorities and the current edition of the National Fuel Gas Code ANSI.Z223.1, NFPA54. In Canada CAN/CGA-B149 (1 or 2) Installation Code.

A listed manual shutoff valve must be installed upstream of the appliance. Union tee and plugged 1/8" NPT pressure tapping point should be installed upstream of the appliance. *See Figure 38.*

IMPORTANT: Install main gas valve (equipment shutoff valve) in an accessible location. The main gas valve is for turning on or shutting off the gas to the fireplace.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged burner system valves.

CAUTION

Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

We recommend that you install a sediment trap/drip leg in supply line as shown in *Figure 38*. Locate sediment trap/drip leg where it is within reach for cleaning. Install in piping system between fuel supply and burner system. Locate sediment trap/drip leg where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into the burner system gas controls. If sediment trap/drip leg is not installed or is installed wrong, burner system may not run properly.

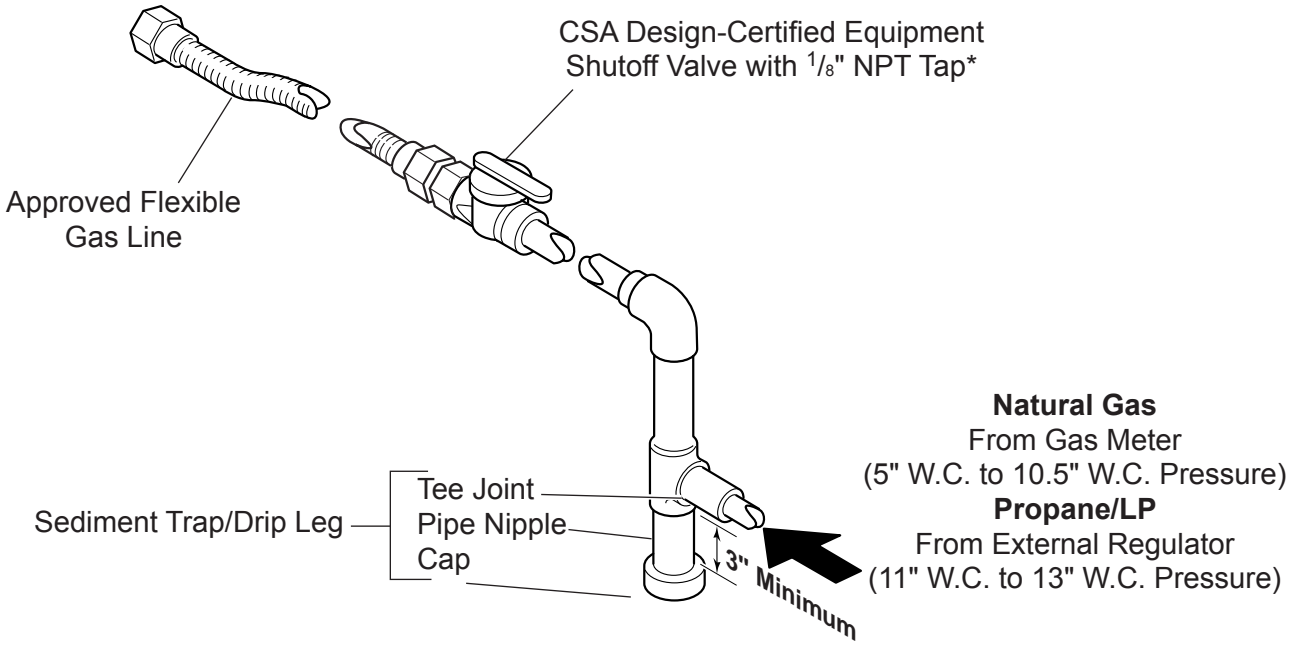


Figure 38 - Gas Connection

1. Check gas type. The gas supply must be the same as stated on the appliance's rating decal. If the gas supply is different from the fireplace, STOP! Do not install the appliance. Contact your dealer immediately.
2. To ease installation, a 30" (mm) flex line with manual shut-off valve has been provided with on this appliance. Install and attach 1/2" gas line onto shut-off valve.
3. After completing gas line connection, purge air from gas line and test all gas joints from the gas meter to the fireplace for leaks. Use a solution of 50/40 water and soap or a gas sniffer.
4. To adjust flame height, turn HI/LO knob to HI to get maximum pressure to burner. Turn HI/LO knob to LO to get minimum pressure.
5. To check gas pressures at valve, turn captured screw counter clockwise 2 or 3 turns and then place tubing to pressure gauge over test point. Turn unit to high. *See Figure 39*. After taking pressure reading, be sure and turn captured screw clockwise firmly to reseal. Do not over torque. Check test points for gas leaks.

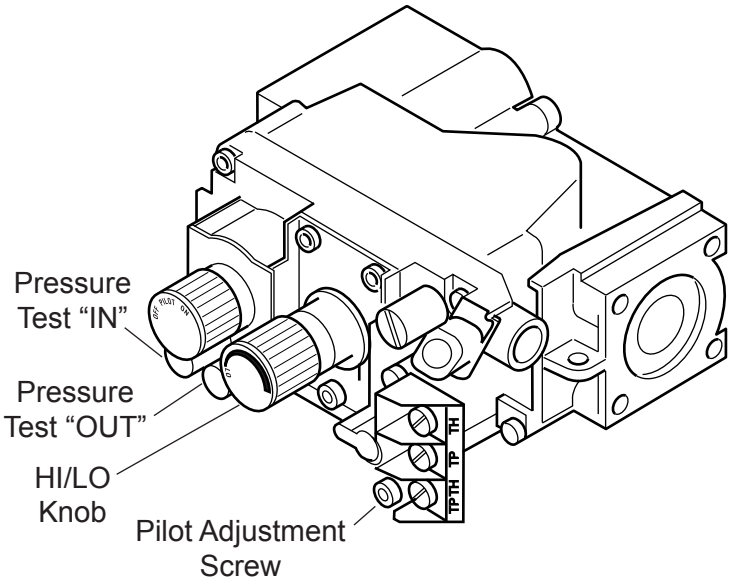


Figure 39 - Gas Pressure Check at Gas Valve

WARNING

Do not use open flame to check for gas leaks.

ELECTRICAL INSTALLATION

ELECTRICAL WIRING

This fireplace will work without any electrical supply. Electricity is only needed to operate blower.

NOTE: If installed in mobile home, fireplace must be bolted securely to floor.

WARNING

Electrical connections should only be performed by a qualified, licensed electrician. Main power must be off when connecting to main electrical power supply or performing service. All wiring shall be in compliance with all local, city, and state codes. The appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the *National Electrical Code ANSI/ NFPA 70 (latest edition)* and *Canadian Electrical Code, CSA C22.1.*

CAUTION

Label all wires before disconnecting when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing.

REMOTE WALL MOUNTED SWITCH

A remote wall switch and up to fifteen (15) feet of 18 Ga. wire may be used with this appliance. Attach the wall switch in a junction box at the desired location on the wall. *See Figure 40*. Do not extend beyond the wall switch wire length provided.

***NOTE:* Extended lengths of wire may cause the fireplace not to function properly. Longer length of wire is permitted if the wire is made out of larger gauge (diameter) wire. Always check with local code.**

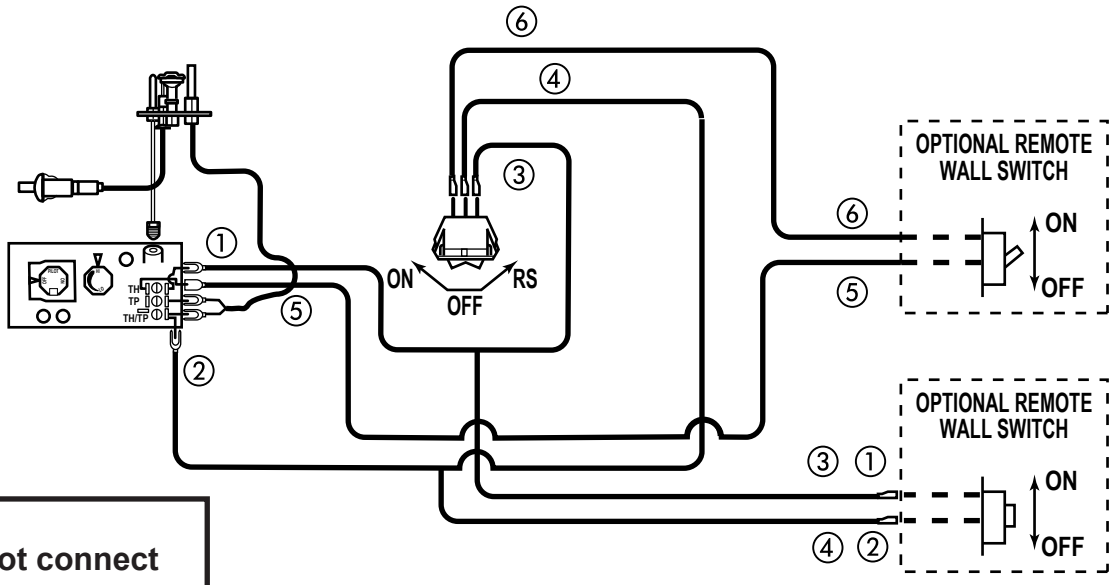


Figure 40 - Wiring Diagram for Wall Switch

WARNING

Do not connect wall switch to heater (110V) circuit.

GLASS FRAME REMOVAL

1. Release two clamps on bottom of fireplace. *See Figure 41*.
2. Tilt glass frame out and lift glass frame up until it clears three tabs on top of fireplace.
3. Set glass frame aside.

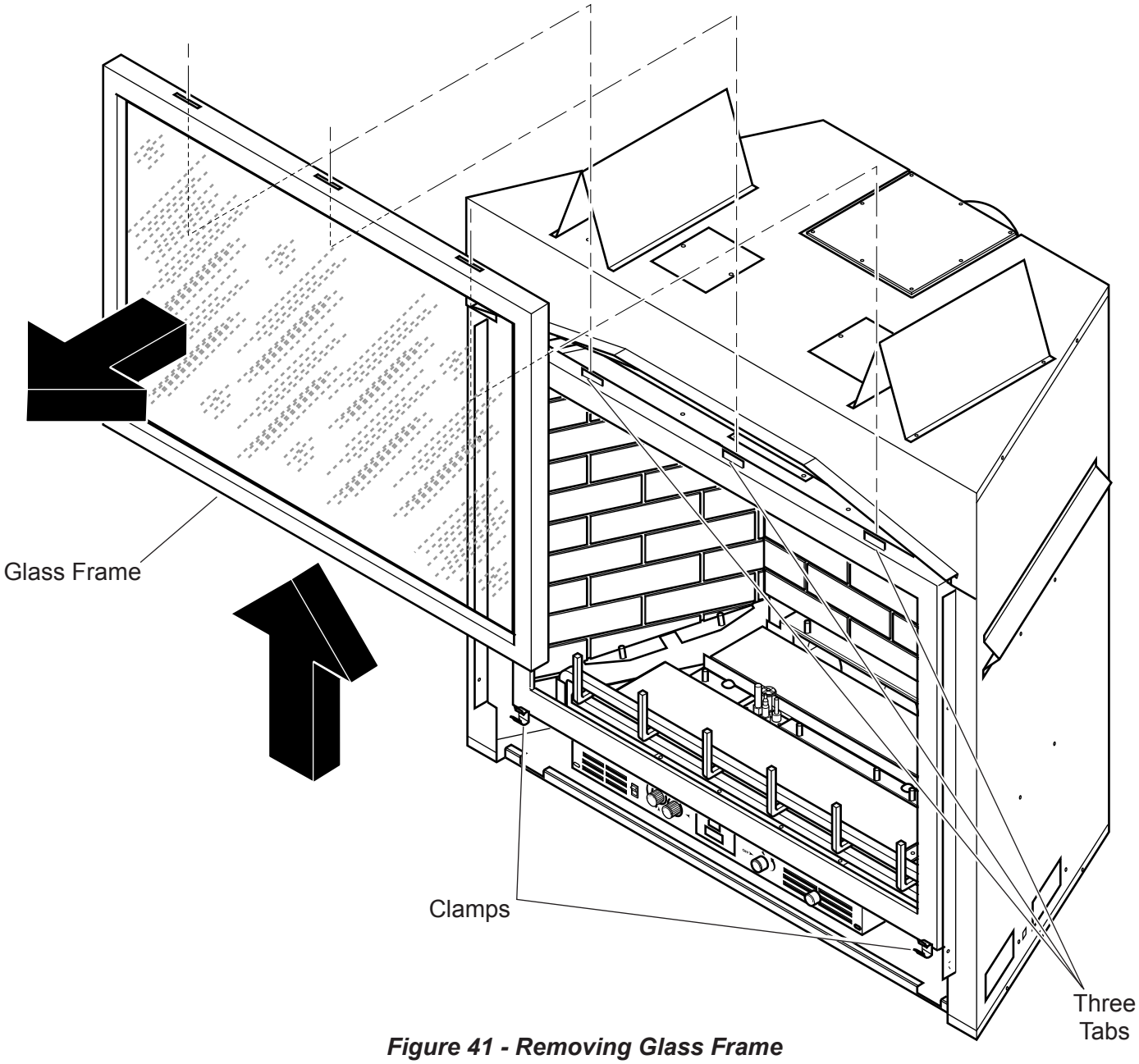


Figure 41 - Removing Glass Frame

CAUTION

Each clamp has a quick spring force. When reinstalling clamps, keep fingers clear.

LOG PLACEMENT

Before you begin — This unit is supplied with eight ceramic fiber logs. Do not handle these logs with your bare hands. **Always wear gloves to prevent skin irritation from ceramic fibers.** After handling the logs, wash your hands gently with soap and water to remove any traces of fibers.

WARNING

The positioning of the logs is critical to the safe and clean operation of this heater. Excessive sooting and other problems may result if the logs are not properly and firmly positioned in the appliance. Never add additional logs or embellishments such as pine cones or vermiculite to the heater. Only use the logs supplied with the unit.

Failure to position the parts in accordance with diagrams below or to use only parts specifically approved for this heater may result in property damage or personal injury.

INSTALLING LOGS AND ROCK WOOL (EMBER MATERIAL) IN FIREBOX

1. Carefully remove logs from wrapping.
2. Remove glass frame. *See Glass Frame Removal, page 30.*
3. Place bottom right log (#3) on two pins against right side of firebox. *See Figure 42*.
4. Place rear log (#1) on two pins against back side of firebox. *See Figure 43*.

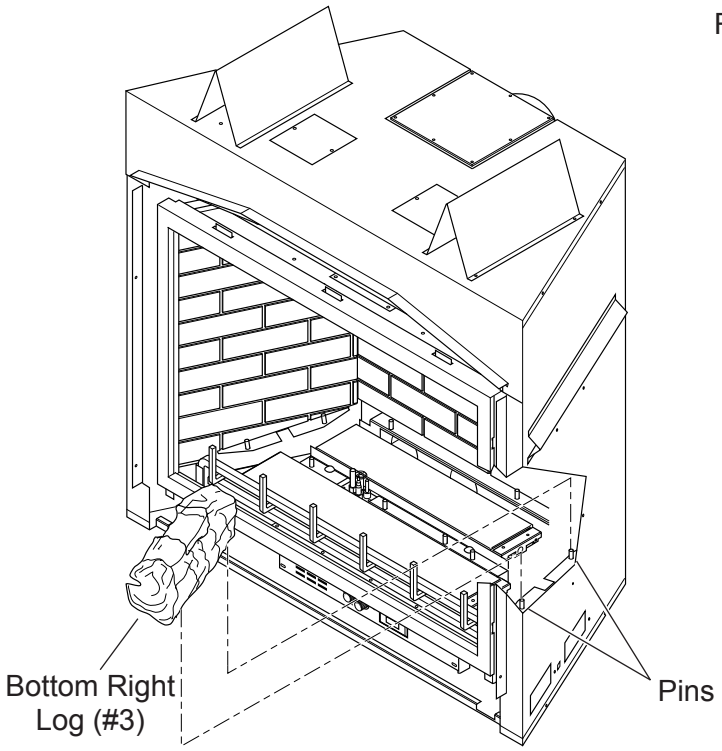


Figure 42 - Installing Bottom Right Log (#3)

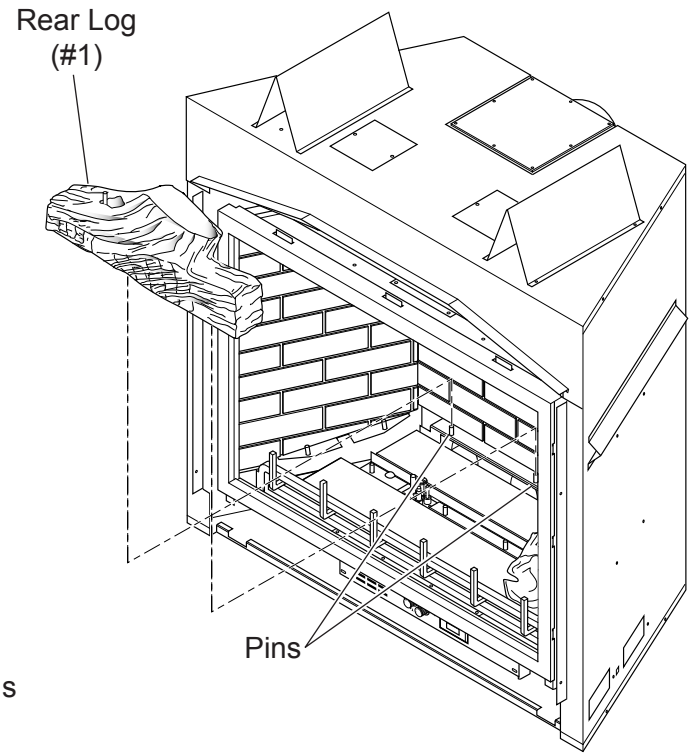


Figure 43 - Installing Rear Log (#1)

5. Place bottom left log (#2) on two pins against left side of firebox. *See Figure 44*.
6. Place left mid log (#6) on two left pins on burner assembly. *See Figure 45*.

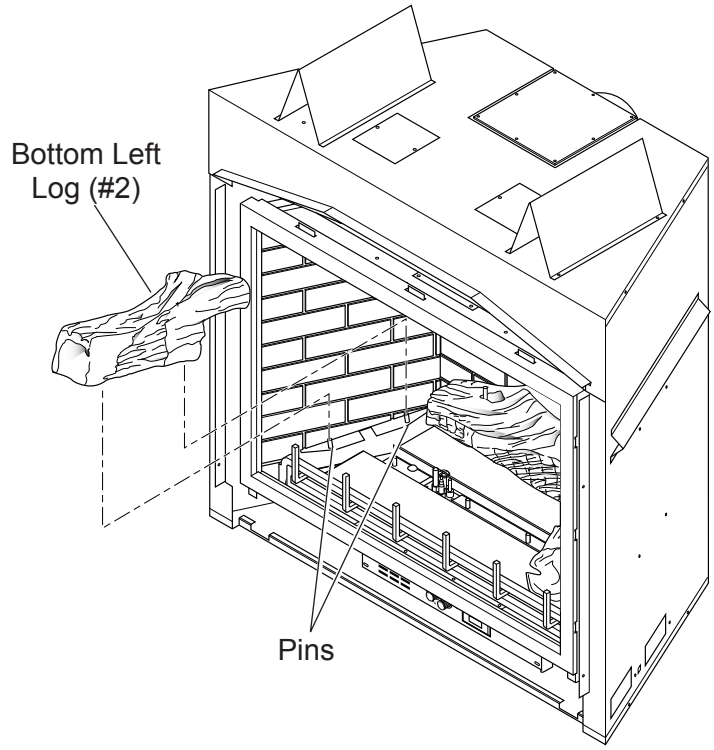


Figure 44 - Installing Bottom Left Log (#2)

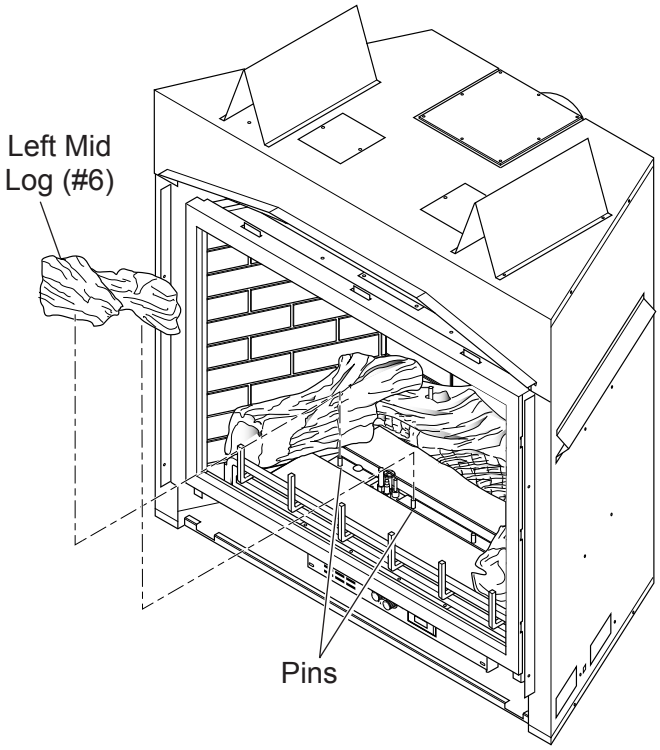


Figure 45 - Installing Left Mid Log (#6)

7. Place right mid log (#7) on two right pins on burner assembly. *See Figure 46*.
8. Place top left log (#4) on two pins on left mid log. *See Figure 47*.

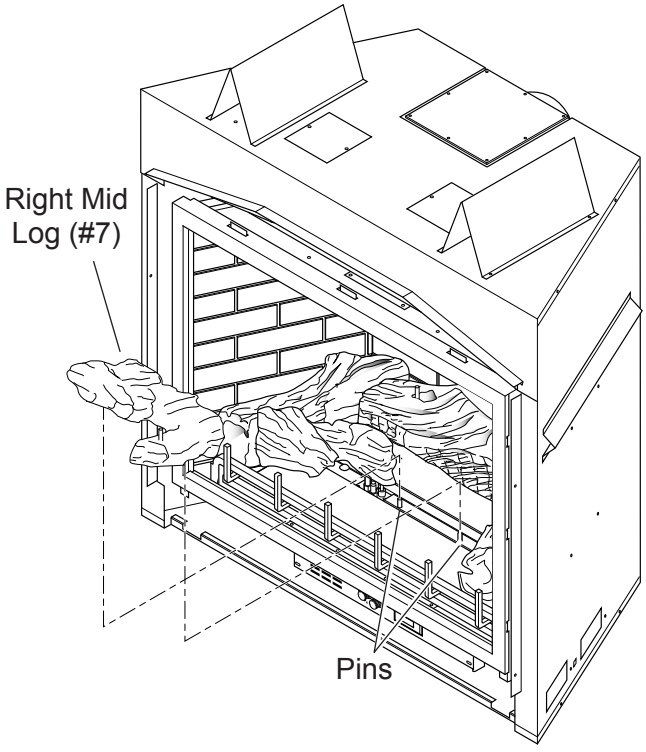


Figure 46 - Installing Right Mid Log (#7)

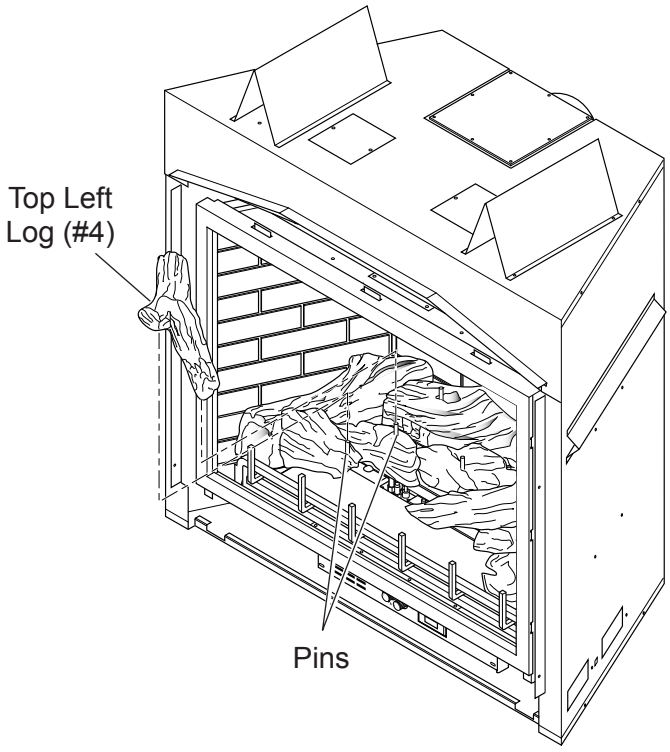


Figure 47 - Installing Top Left Log (#4)

Continued on next page

9. Place right top log (#5) on two pins on middle left log. *See Figure 48.*
10. Place top center log (#8) across rear log (#1) pin and left mid log (#6) pin. *See Figure 49.*

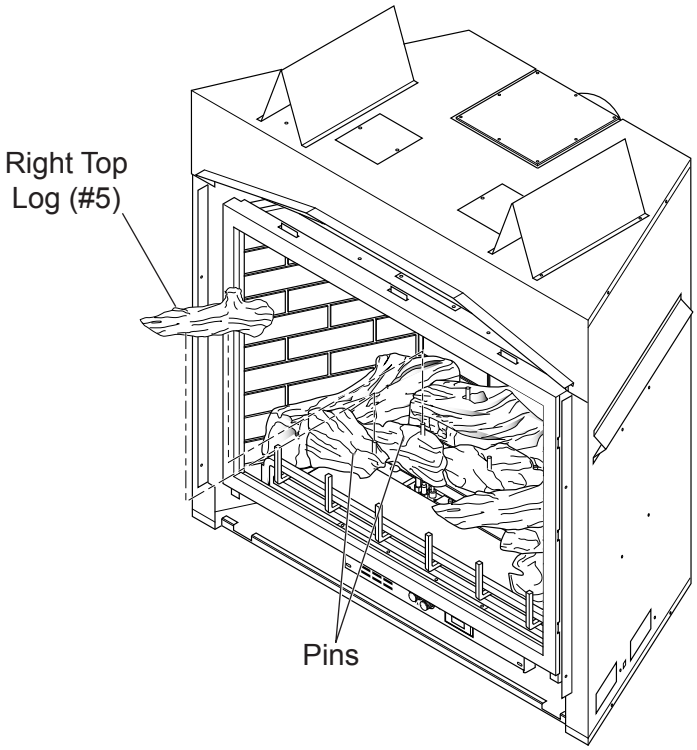


Figure 48 - Installing Right Top Log (#5)

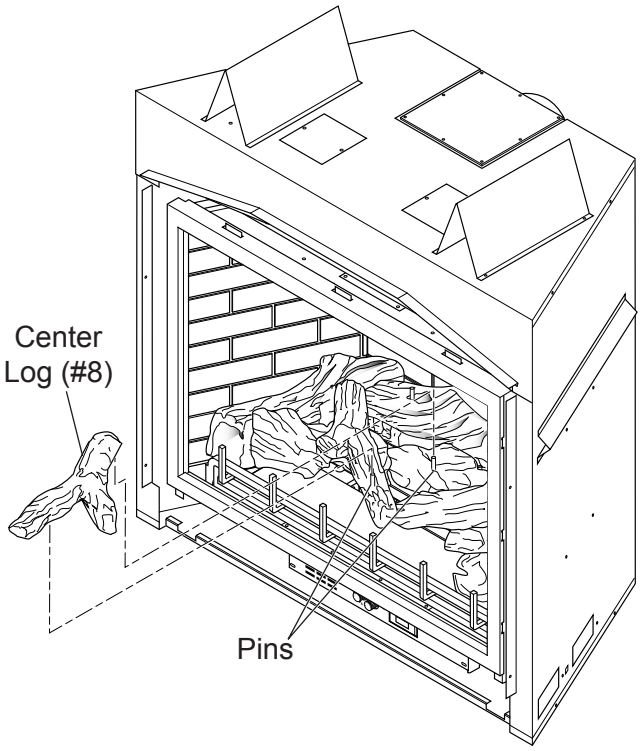


Figure 49 - Installing Center Top Log (#8)

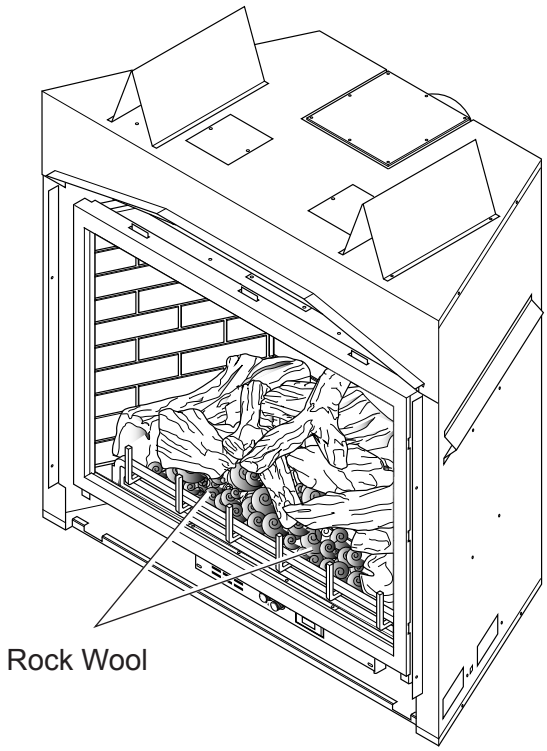


Figure 50 - Rock Wool Placement

11. Break up rock wool (ember material) into dime-sized pieces. Place evenly across both burner surfaces. *See Figures 49 and 50*. Do not exceed $^1/_2$" depth of coverage. **For best flame and glow, do not block air space between burners and logs with rock wool.**

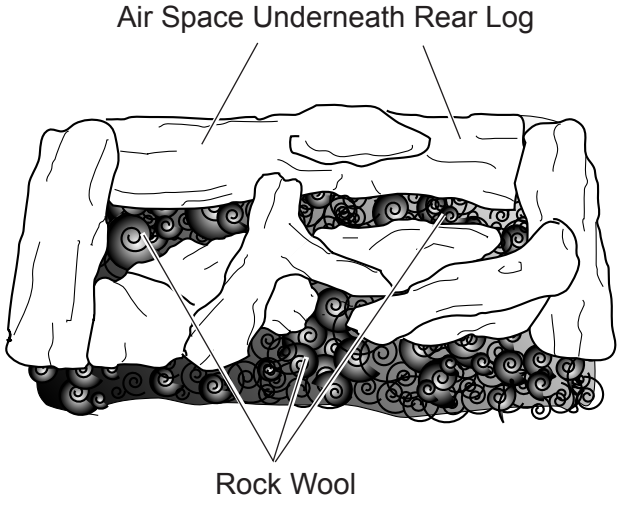


Figure 51 - Rock Wool Placement (Top View)

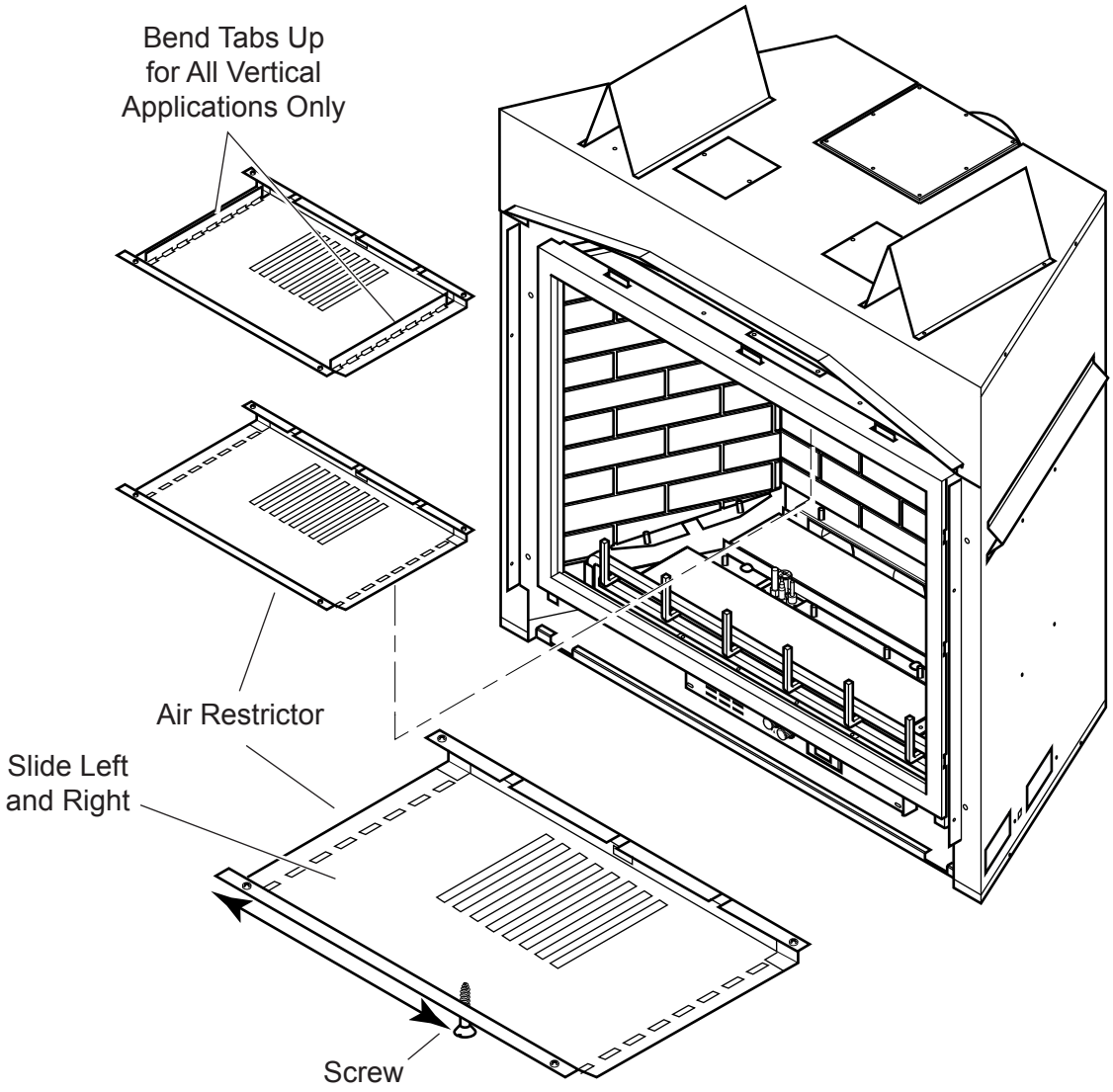


Figure 52 - Adjusting Baffle on Air Restrictor Plate

The fireplace is equipped with a restrictor plate that is located inside the top chamber of the fireplace. Depending upon the vent configuration, you may be required to adjust the restrictor position

1. Remove glass frame. *See Glass Frame Removal, page 31.*
2. Using a Phillips screw driver, loosen the screw that secures the air restrictor. Do not back the screw all the way out.
3. Slide the baffle on top of the restrictor plate such that it blocks a percentage of the grill opening. Refer to the chart below for recommended settings.

Venting Height (feet)	% of Grill Opening
8 to 20	100% (Factory Setting)
20 to 30	50%
30 to 40	0%

Note: All the settings above are based on the testing at the factory and provided as a guide for startup. On certain applications, adding a restrictor disc will help to achieve flame aesthetics.

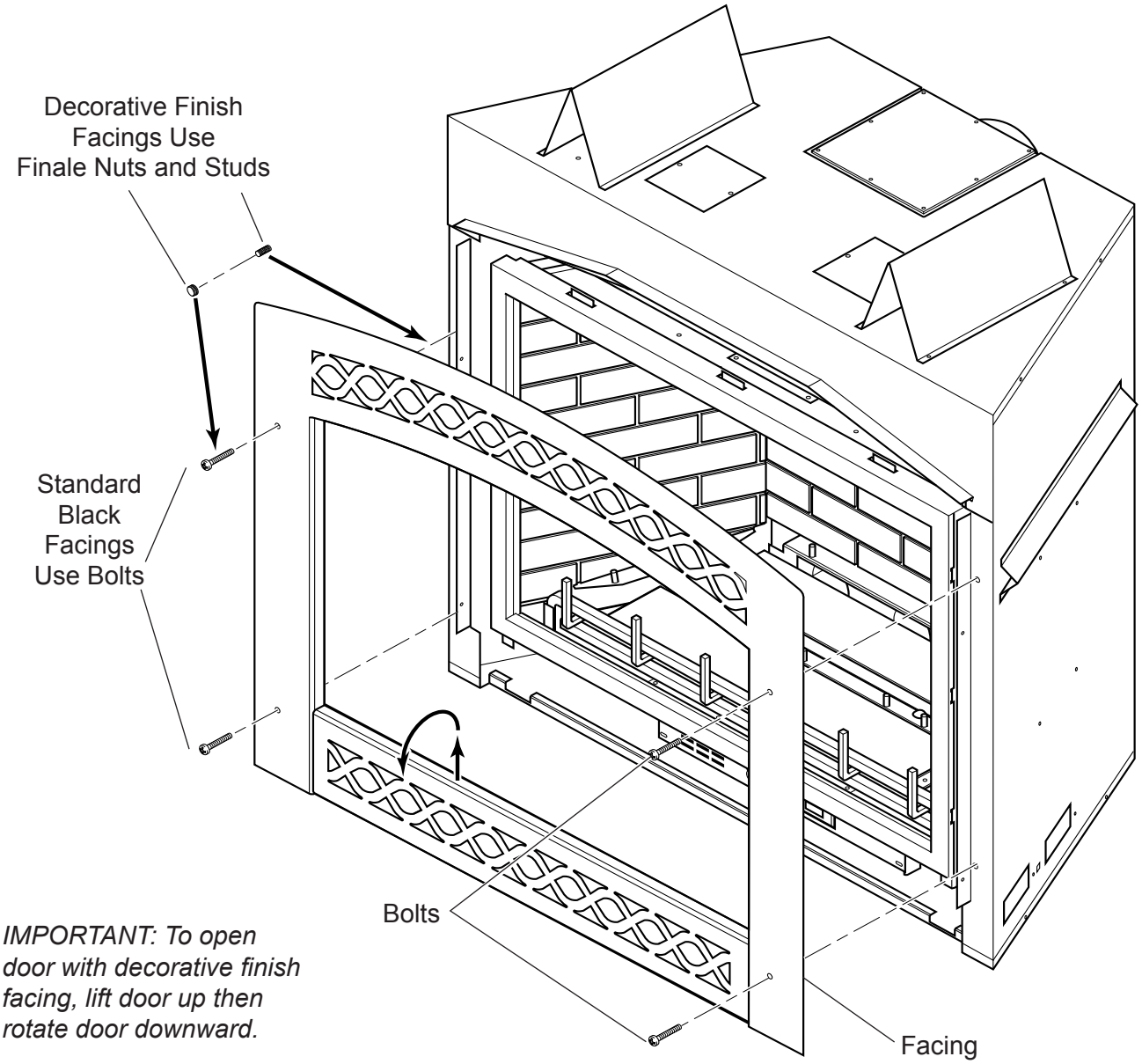
FACING INSTALLATION

INSTALLING FACING

1. Line up four (4) holes on facing with four (4) holes on fireplace. *See Figure 53*.
2. Attach facing with four (4) fasteners provided. *See Figure 53*.

NOTICE

Your firescreen's finish has been covered at the factory with a protective enamel coating and should never be polished, nor should it ever need to be polished. Instead of polishing, clean with a mild soap solution using a clean cotton terry cloth, then dry. To remove any stubborn stains from the glass, use a mild soap solution, followed by a dampened towel (dampened with clean water only), followed by a dry towel without using soap. Do not use ammonia or ammonia-based glass cleaner on the firescreen, as these types of cleaners may damage the finish of your firescreen. Minor finish scratches and fingerprints can be removed by applying 50/50 vinegar and water solution before lighting the heater. Any fingerprints left on the facing will be permanent when heater is lit.



IMPORTANT: To open door with decorative finish facing, lift door up then rotate door downward.

Figure 53 - Installing Filigree Facing

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING

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

A. This appliance is equipped with a pilot which must be lit with built-in battery ignitor while following these instructions exactly.

B. BEFORE OPERATING 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:

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

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

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

LIGHTING PILOT FOR THE FIRST TIME

INITIAL LIGHTING

Purge air from the supply line as follows:

- Open main shutoff valve.
- Unscrew main pressure test point.
- Leave inlet test screw open until gas comes in.
- When gas is flowing, tighten inlet screw immediately.

WARNING

Never use an open flame to check for gas leak.

LEAK TESTING

1. Follow the pipe from the gas supply line connection to the gas valve. Check connection for leaks with soap and water mixture.
2. Next check for gas leaks at the burner with soap and water mixture.
3. Check the pilot for gas leaks with soap and water mixture.

Continued on next page

LIGHTING PILOT FOR THE FIRST TIME

APPROVED LEAK TESTING METHOD

You may check for gas leaks with the following methods only:

- Soap and water solution
- An approved leak testing spray
- Electronic sniffer

DANGER

Never check for gas leak with open flame!

WARNING

If using a soap and water solution to test for leaks, DO NOT spray solution onto control body.

NOTE: Remove any excessive pipe compound from the connections. Excessive pipe compound can set off electronic sniffers.

Check for gas leaks in each of the following locations:

- Pipe from the gas supply line connection to the gas valve
- Burner connections
- Pilot
- Each joint or connection
- Field made joints / gas shutoff valve
- Factory made joints
- All joints on valve and control body

LIGHTING PILOT

WARNING

The control has an interlock device that does not allow the lighting of the fireplace up to the moment the safety device of the flame has not interrupted the gas flow. After that period of time (when the magnet is closed), it is possible to start the lighting operation.

The gas control knob is designed to be operated by hand. DO NOT use any tools during this operation. Damaged knobs may result in serious injury.

1. Depress and turn knob counterclockwise to pilot position.
2. Depress fully and hold pilot gas knob. The electronic ignitor will automatically ignite the pilot. Keep knob fully depressed for a few seconds. Release and check that pilot continues to burn.

If the pilot does not stay lit, repeat steps 1 and 2.

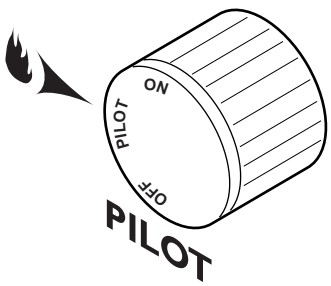


Figure 54 - Pilot Position

LIGHTING BURNER

MAIN BURNER SWITCH

The "ON/OFF/RS" switch for the main burner can be found behind door of the fireplace. This switch allows you to turn on and to turn off the main burner without using the gas valve knob. Make sure the button is in the "ON" position to light the main burner. *See Figure 55*.

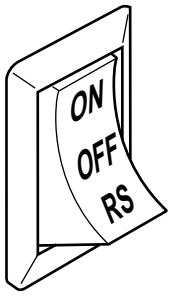


Figure 55 - On/Off/RS Switch

LIGHTING THE BURNER

Depress and turn the knob counterclockwise ↶ to the "ON" position. *See Figure 56*. It will take less than four (4) seconds for the burner to ignite.

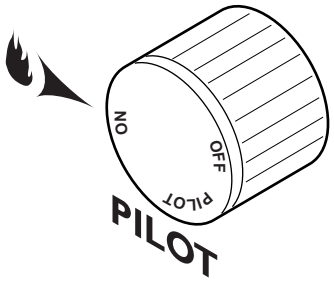


Figure 56 - On Position

PILOT POSITION

Depress and turn knob to pilot position to keep burner off while maintaining the pilot light. *See Figure 57*.

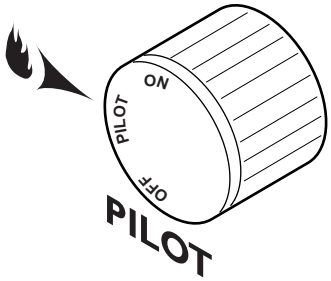


Figure 57 - Pilot Position

TO TURN OFF GAS

Depress and turn knob clockwise ↷ to "OFF" position. *See Figure 58*.

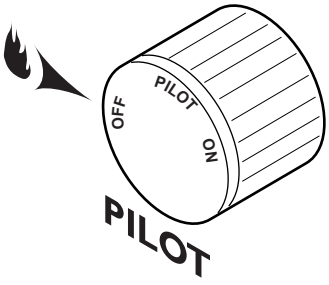


Figure 58 - Off Position

CLEANING AND MAINTENANCE

Make sure the gas valve knob is in the "OFF" position. Wait at least five (5) minutes before start-ing maintenance. Fireplace must be cold before starting maintenance.

VENTING SYSTEM

A qualified agency should examine the venting system annually.

CLEANING GLASS

Clean the ceramic glass periodically. Condensation will sometimes form on the glass during a cold startup. This is normal for all gas fireplaces. This condensation often attracts dust and lint to the surface of the glass. The initial paint curing of the appliance can also leave a slight film on the glass.

CAUTION

Let glass cool before cleaning. Do not clean glass when it is hot. Damage could occur.

Your should clean the glass after the first two weeks of use. After that, you should clean the glass no more than two or three times a season. Use a mild glass cleaner to clean the door.

DO NOT USE ABRASIVE CLEANERS. THEY WILL DAMAGE THE GLASS SURFACE.

PILOT AND BURNER FLAMES

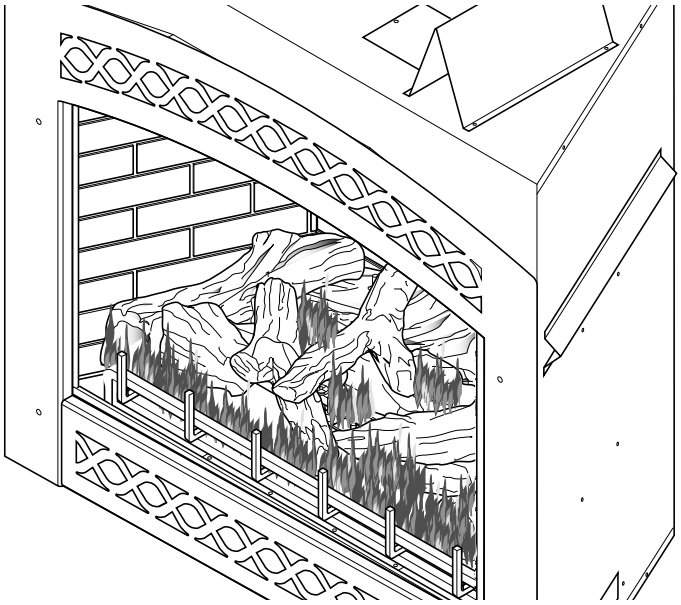


Figure 59 - Typical Burner Flame

Visually check pilot and burner flames periodically. *See Figure 59* for typical burner flame. *See Figure 60* for typical pilot flame.

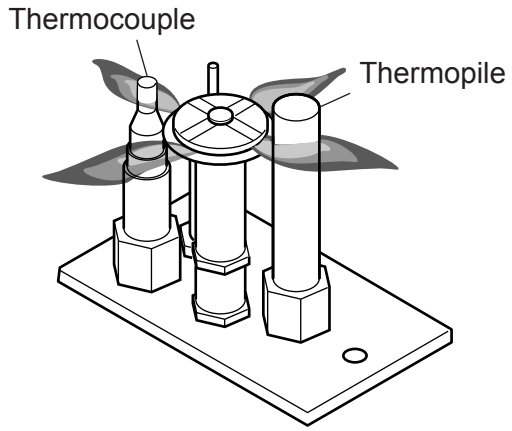


Figure 60 - Typical Pilot Flame

FIREBOX CLEANING

1. Carefully remove log set, and embers from combustion chamber.
2. Vacuum burner compartment thoroughly.
3. Vacuum any dust off logs.
4. Remove any lint from main burner and pilot.
5. Carefully replace log set, and embers in their correct positions. *See pages 32 through 34*.
6. Replace door (if it has been removed).
7. Relight pilot. *See page 38*.
8. Turn on main burner.

WARNING

Make sure clearances to combustibles leave room for maintenance and service.

WARNING

Carefully reassemble and reseal fireplace properly after any cleaning or servicing.

CAUTION

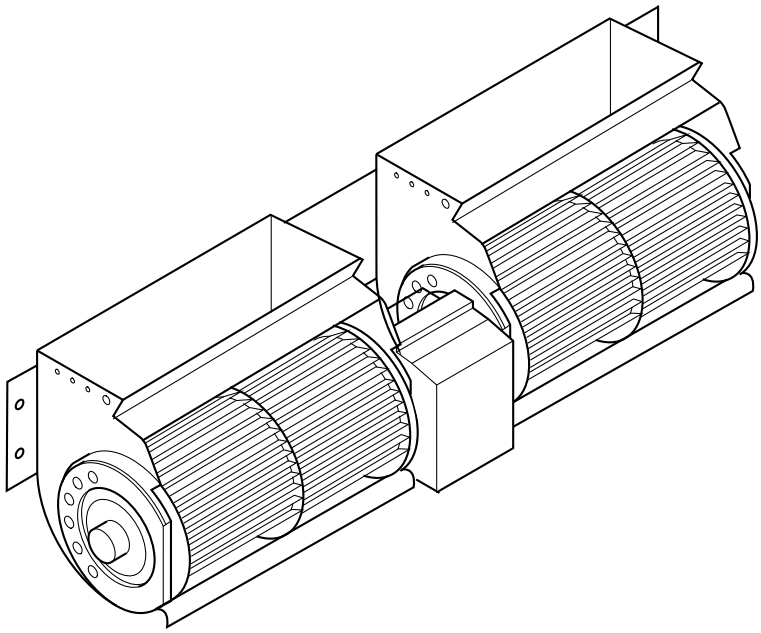
Always use gloves when handling broken glass.

WARNING

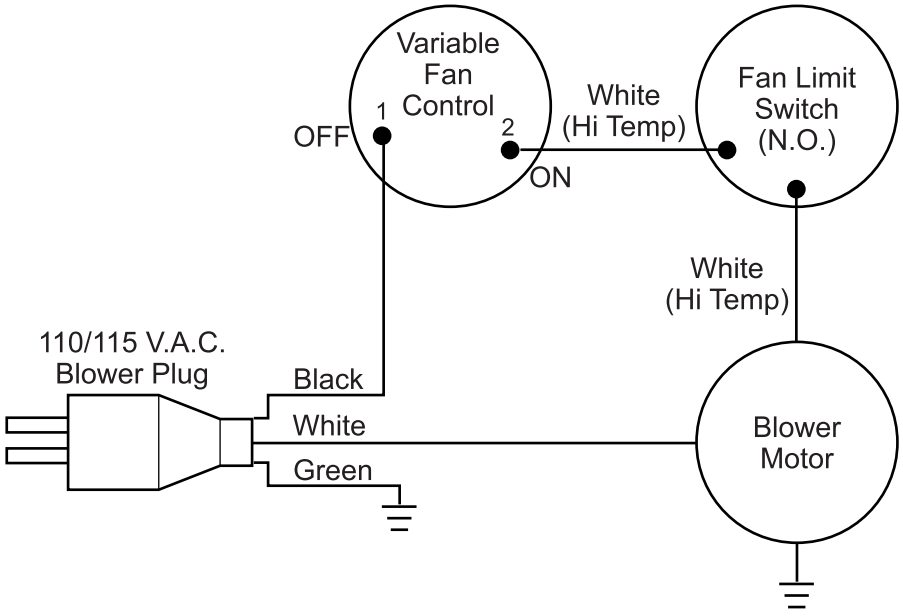
Make sure the glass panel edges do not touch any metal parts during thermal expansion.

- Never operate fireplace if glass is broken.
- Replace any glass that is chipped, cracked, or broken. Replacement glass assemblies MUST be supplied by fireplace manufacturer — **No substitute materials may be use.**

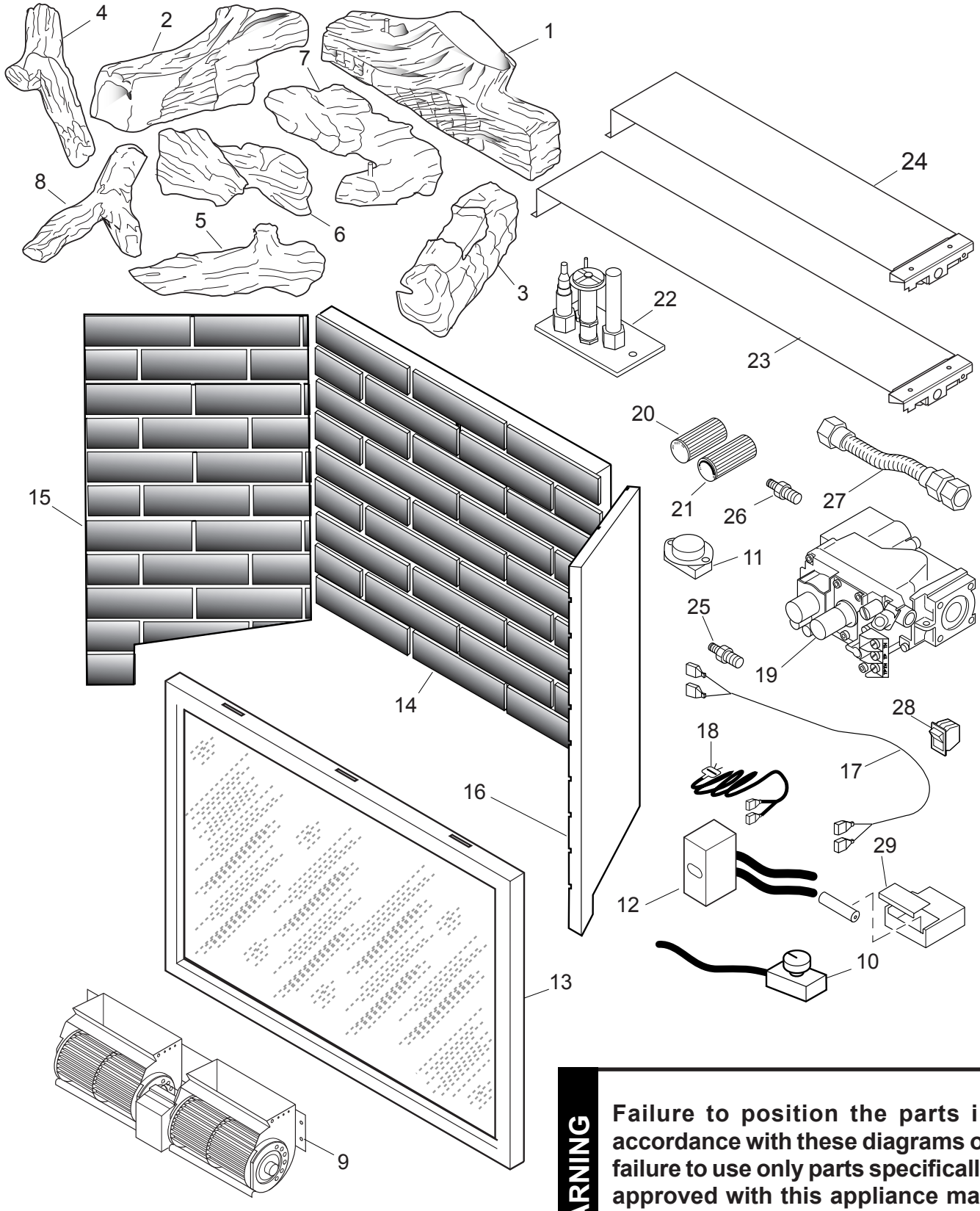
BLOWER



WIRING DIAGRAM FOR BLOWER



REPLACEMENT PARTS



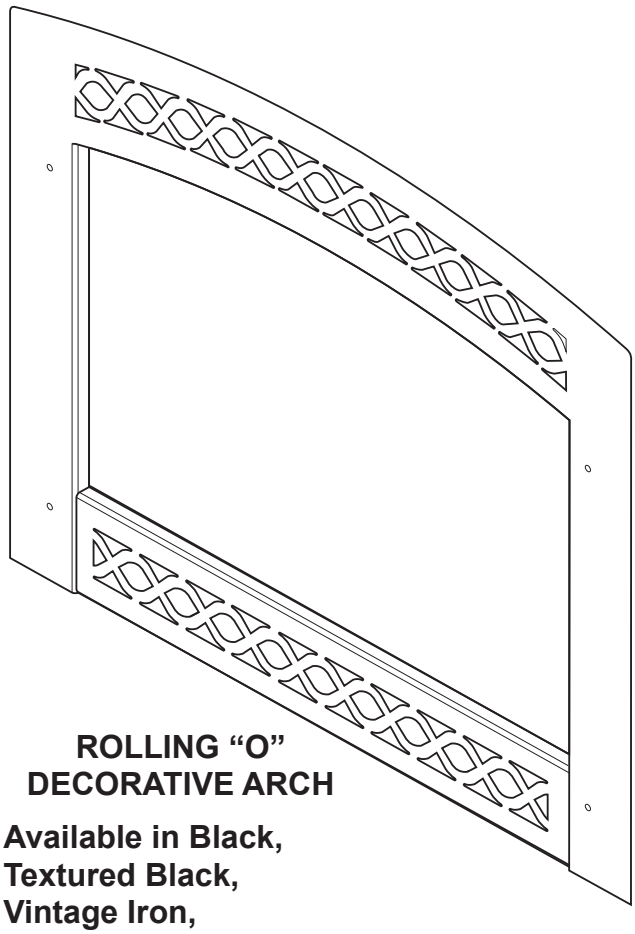
WARNING

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

REPLACEMENT PARTS ARE AVAILABLE THROUGH YOUR RETAILER

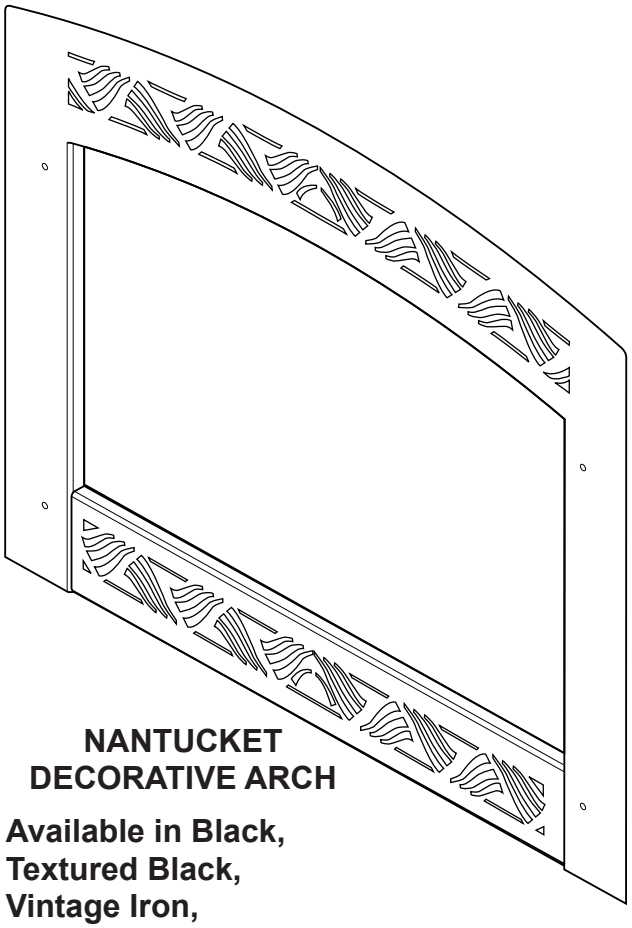
			LX32DV		LX36DV	
Item	**Description**	**Qty**	**Natural**	**Propane**	**Natural**	**Propane**
1	Rear Log	1	51D0402	51D0402	51D0002	51D0002
2	Bottom Left Log	1	51D0403	51D0403	51D0003	51D0003
3	Bottom Right Log	1	51D0404	51D0404	51D0004	51D0004
4	Left Top Log	1	51D0405	51D0405	51D0005	51D0005
5	Right Top Log	1	51D0406	51D0406	51D0006	51D0006
6	Left Mid Log	1	51D0407	51D0407	51D0007	51D0007
7	Right Mid Log	1	51D0408	51D0408	51D0008	51D0008
8	Center Log	1	51D0409	51D0409	51D0009	51D0009
Fireplace						
9	Blower UPPCO	1	26D0748	26D0748	51D0011	51D0011
10	Speed Control	1	26D0746	26D0746	26D0746	26D0746
11	Thermostat Sensor	1	26D2870	26D2870	26D2870	26D2870
12	Junction Box	1	26D2128K	26D2128K	26D2128K	26D2128K
13	Glass Assembly	1	51D0417K	51D0417K	51D0024K	51D0024K
14	Firebrick Center	1	51D0411	51D0411	51D0012	51D0012
16	Firebrick Left	1	51D0013	51D0013	51D0013	51D0013
16	Firebrick Right	1	51D0192	51D0192	51D0192	51D0192
Engine Assembly						
17	Wire Harness Male	1	44D0501	44D0501	44D0501	44D0501
18	Wire Harness Female	1	44D0500	44D0500	44D0500	44D0500
19	Sit 820 Nova Valve	1	37D0117	37D0118	37D0117	37D0118
20	Knob Extension Hi/Lo	1	43D0095	43D0095	43D0095	43D0095
21	Knob Extension On/Off	1	43D0094	43D0094	43D0094	43D0094
22	Pilot Assembly	1	37D0018	37D0019	37D0018	37D0019
23	Front Burner Assembly	1	51D0037K	51D0037K	51D0037K	51D0037K
24	Rear Burner Assembly	1	51D0431K	51D0431K	51D0041K	51D0041K
25	Injector Front Burner	1	51D0425K	51D0423K	51D0032K	51D0030K
26	Injector Rear Burner	1	51D0425K	51D0422K	51D0031K	51D0029K
27	Flexhose With Shutoff Valve	1	23D6046	23D6046	23D6046	23D6046
28	Rocker Switch	1	41D0048	41D0048	41D0048	41D0048
29	Ignitor Battery Assembly	1	45D0242K	45D0242K	45D0242K	45D0242K
Accessories (Not Shown)						
	Thermostatic Remote Control	1	RCT	RCT	RCT	RCT
	Remote Control On/Off	1	RCM	RCM	RCM	RCM
	Wall Switch Kit	1	MVWS	MVWS	MVWS	MVWS
	Wall Thermostat Kit	1	MVWTS	MVWTS	MVWTS	MVWTS
	Deflector Shield	1	37D0115K	37D0115K	37D0115K	37D0115K
	Propane Gas Conversion Kit	1	LX32HAKP	—	LX36HAKP	—
	Natural Gas Conversion Kit	1	—	LX32HAKN	—	LX36HAKN

OPTIONAL ACCESSORIES



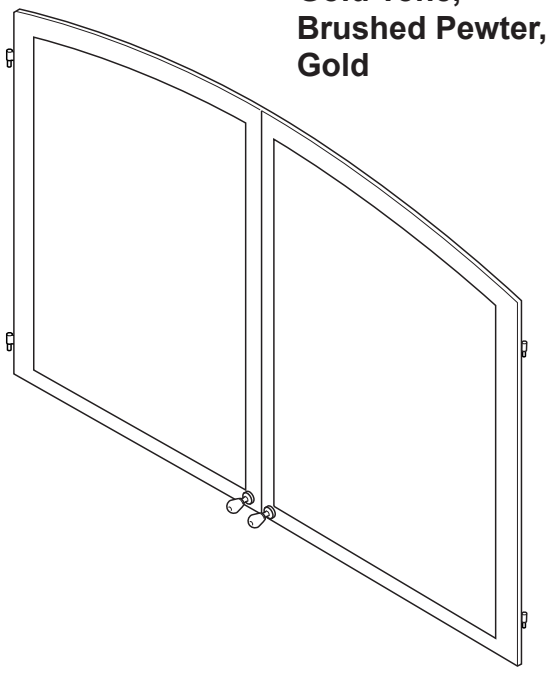
**ROLLING "O"
DECORATIVE ARCH**

**Available in Black,
Textured Black,
Vintage Iron,
Gold Tone,
Brushed Pewter, and
Gold**



**NANTUCKET
DECORATIVE ARCH**

**Available in Black,
Textured Black,
Vintage Iron,
Gold Tone,
Brushed Pewter, and
Gold**



**FIRESCREEN
DOORS**

**Available in Black,
Textured Black,
Vintage Iron,
Gold Tone,
Brushed Pewter, and
Gold**

Facing and Door Option for Model LX32		
Part Number	**Description**	**Door Option Available**
LX32RBL	Black Rolling “O” Decorative Arched Facing	—
LX32NBL	Black Nantucket Decorative Arched Facing	—
LX32RTB	Textured Black Rolling “O” Decorative Arched Facing	✓
LX32NTB	Textured Black Decorative Arched Facing	✓
LX32RVI	Vintage Iron Rolling “O” Decorative Arched Facing	✓
LX32NVI	Vintage Iron Nantucket Decorative Arched Facing	✓
LX32RGT	Gold Tone Rolling “O” Decorative Arched Facing	✓
LX32NGT	Gold Tone Nantucket Decorative Arched Facing	✓
LX32RBP	Brushed Pewter Rolling “O” Decorative Arched Facing	✓
LX32NBP	Brushed Pewter Nantucket Decorative Arched Facing	✓
LX32RGD	Gold Rolling “O” Decorative Arched Facing	✓
LX32NGD	Gold Nantucket Decorative Arched Facing	✓
LX32FDDTB	Textured Black Fire Screen Doors	n/a
LX32FDDGT	Gold Tone Fire Screen Doors	n/a
LX32FDDVI	Vintage Iron Fire Screen Doors	n/a
LX32FDDBP	Brushed Pewter Fire Screen Doors	n/a
LX32FDDGD	Gold Fire Screen Doors	n/a

Facing and Door Option for Model LX36		
Part Number	**Description**	**Door Option Available**
LX36RBL	**Black Rolling “O” Decorative Arched Facing**	**—**
LX36NBL	**Black Nantucket Decorative Arched Facing**	**—**
LX36RTB	**Textured Black Rolling “O” Decorative Arched Facing**	✓
LX36NTB	**Textured Black Decorative Arched Facing**	✓
LX36RVI	**Vintage Iron Rolling “O” Decorative Arched Facing**	✓
LX36NVI	**Vintage Iron Nantucket Decorative Arched Facing**	✓
LX36RGT	**Gold Tone Rolling “O” Decorative Arched Facing**	✓
LX36NGT	**Gold Tone Nantucket Decorative Arched Facing**	✓
LX36RBP	**Brushed Pewter Rolling “O” Decorative Arched Facing**	✓
LX36NBP	**Brushed Pewter Nantucket Decorative Arched Facing**	✓
LX36RGD	**Gold Rolling “O” Decorative Arched Facing**	✓
LX36NGD	**Gold Nantucket Decorative Arched Facing**	✓
LX36FDDTB	**Textured Black Fire Screen Doors**	**n/a**
LX36FDDGT	**Gold Tone Fire Screen Doors**	**n/a**
LX36FDDVI	**Vintage Iron Fire Screen Doors**	**n/a**
LX36FDDBP	**Brushed Pewter Fire Screen Doors**	**n/a**
LX36FDDGD	**Gold Fire Screen Doors**	**n/a**

TROUBLESHOOTING

WARNING

Turn appliance OFF and allow to cool before servicing. Only a qualified service person should service and repair the heater.

Note: All troubleshooting items are listed in order of operation.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Spark ignitor will not light the pilot after repeated pressing of spark ignitor.	1. Battery needs replacing 2. Defective ignitor 3. Misaligned spark electrode 4. Bad wire.	1. Replace battery 2. Check connections to ignitor. Replace ignitor if ignitor connections are good, but there is no spark. 3. Check for spark arcing from the electrode to pilot. Adjust and retighten. 4. Replace with new wire.
Pilot will not stay lit.	1. Defective thermocouple. Loose thermocouple 2. Air in gas line 3. No gas	1. A. Check for proper connection of thermocouple to rear of valve. B. Check thermocouple output. 2. Bleed line. Contact dealer 3. Check shutoff valve and gas supply (LPG tank)
Burner will not light when valve and burner switch are both on.	1. Defective switch 2. Defective thermopile 3. Thermostat set too low/defective	1. Check switch connections. Jump wires at switch. 2. A. Check thermopile output. B. Check connections to valve. Contact dealer. 3. Turn up thermostat to start unit. Check thermostat connections.
Glass fogs up	1. Normal condition	1. Allow appliance to warm up. Glass will clear. Additives in the gas may dirty glass. Clean glass when cool.
Blue flames	1. Normal during start up	1. Flames will yellow as appliance heats up. Adjust rock wool placement per instructions.
Sooting	1. Flame impingement	1. Check log position. Open shutters to increase primary air.

INSTALLATION RECORDS

THE FOLLOWING INFORMATION MUST BE RECORDED BY THE INSTALLER FOR WARRANTY PURPOSES AND FUTURE REFERENCE.

LEXINGTON FORGE

Model: _____

Name of Owner: Address: Phone:	Name of Installer: Address: Phone:
Name of Dealer: Address: Phone:	

Manufactured by
LEXINGTON FORGE
149 Cleveland Drive
Paris, Kentucky 40361, U.S.A.

Lexington Forge warrants its products to be free of defects in material and workmanship and backs each product with a Limited Lifetime Warranty. This warranty is to the original purchaser of a Lexington Forge product and is not transferable.

LIFETIME WARRANTY

Covered under this warranty are the fireplace body, combustion chamber, door frame, gold plating (manufacturing defects only), glass (thermal breakage only), heat exchange system, and burner. This coverage includes parts and reasonable labor during the first five years of ownership and parts only thereafter.

FIVE YEAR WARRANTY

Ceramic fiber logs, firebrick panels and secondary air tubes are covered for a period of five years from the date of purchase.

TWO YEAR WARRANTY

Gas valves, pilot assemblies, thermopiles, thermocouples, regulators, electrical components, cast iron grates and blowers are covered for a period of two years from the date of purchase.

EXCLUSIONS

Items that are not covered under this warranty include but are not limited to damage or chipping to any component surfaces, gasketing, refractory material, or trim. It does not cover installation or operational problems related to venting systems, inadequate draft, inadequate gas pressure, adjustments to the appliance, the cost of inspection, components which have been altered or modified, labor costs, removal and re-installation costs, shipping to or from the factory or authorized service center, shipping damage, damage from improper use or neglect, installation damage, damage from unauthorized service, incidental or consequential damage or negative pressure caused by mechanical systems such as furnaces, fans, clothes dryers etc.

TERMS

This warranty shall be void if the appliance is not installed by qualified installer in accordance with the installation instructions provided with the appliance and state and local codes. The warranty shall also be void if the appliance is not operated and maintained in accordance with the operating instructions supplied with the appliance. All service work must be performed by an authorized service representative. Any part or parts, which we deem defective, will be repaired or replaced at Lexington Forge's option, through an authorized dealer or service provider.

This warranty is expressly in lieu of other warranties, express or implied, including the warranty of merchantability of fitness for purpose and of all other obligations or liabilities. Lexington Forge does not assume for it any other obligations or liability in connection with the sale or use of the appliance. In states that do not allow limitations on how long an implied warranty lasts, or do not allow exclusion of indirect damages, those limitations of exclusions may not apply to you. You may also have additional rights not covered in this Limited Warranty.

Lexington Forge reserves the right to investigate any and all claims against the Limited Warranty and decide upon the method of settlement.

Lexington Forge • 149 Cleveland Drive • Paris, KY • 40361