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Monessen Hearth WDV500NTSC Owner's Manual

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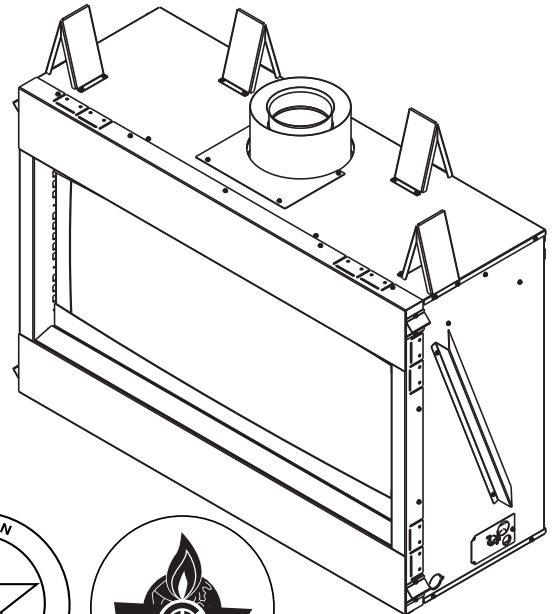
80D0018	Control Box NG SCS
SCSACM	SCS AC Module (Optional Blower, Light &
SRV78D0007	BULB, 35W, 120V WDV50
SRV80D0001	Valve NG SCS



Monessen

WDV Wideview Direct Vent Gas Fireplace

Model: WDV500
Installation and Operating
Instructions



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 may be installed in an aftermarket*, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type(s) of gas indicated on the rating plate unless a certified kit is used.

*Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.



WARNING



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.

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

**Thank you and congratulations on your purchase of a
Monessen Fireplace.**

PLEASE READ THE INSTALLATION AND OPERATION INSTRUCTIONS BEFORE USING THE APPLIANCE!

IMPORTANT: Read all instructions and warnings carefully before starting installation.

Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

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INSTALLER

Please leave these instructions with the appliance.

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. 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. Refer to *Cleaning and Maintenance, Page 36*.
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.
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 has been under water. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and any gas control which as been submerged in water.
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.

**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.


WARNING



HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

**NATIONAL
FIREPLACE
INSTITUTE**



CERTIFIED

www.nficertified.org

We recommend 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 NFI Gas Specialists.

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 VENTED GAS FIREPLACES in the USA and Canada as follows:

LISTED VENTED GAS FIREPLACES

TESTED TO: ANSI Z21.50b-2009 / CSA 2.22b-2009 STANDARDS

A manufactured home (USA only) or mobile home OEM installation must conform with the **Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280**, or when such a standard is not applicable, the **Standard for Manufactured Home Installations, ANSI/NCSCBS A225.1**, or **Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4**.

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, CSA B149 in Canada.
- This appliance is mobile home approved.
- The appliance must be properly connected to a venting system.
- The appliance is not approved for closet or recessed installations.

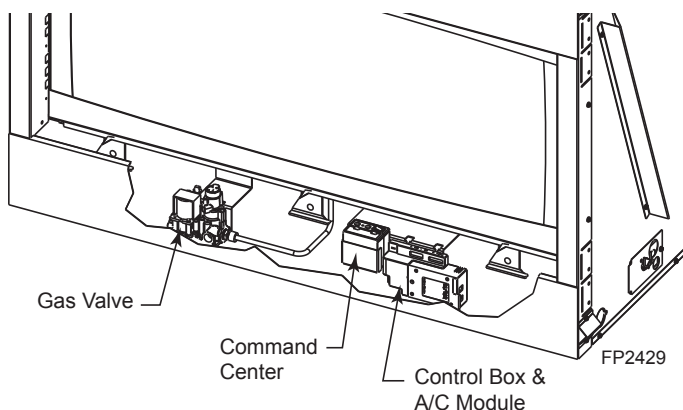


Figure 1 - WDV Fireplace Features

HIGH ELEVATIONS

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 feet (1,370 m) above sea level.

For elevations above 4,500 feet (1,370 m) in USA, installation must be in accordance with the current ANSI Z223.1/NFPA 54 and/or local codes having jurisdiction.

In Canada, please consult provincial and/or local authorities having jurisdiction for installation at elevations above 4,500 feet (1,370 m).

GAS PRESSURES

	Natural	Propane (LP)
Inlet Minimum	4.5" w.c.	11.0" w.c.
Inlet Maximum	10.5" w.c.	13.0" w.c.
Manifold Pressure	3.5" w.c.	10.0" w.c.

GAS SPECIFICATIONS & ORIFICE SIZE

Model	Fuel	Max. Input BTU/h	Min. Input BTU/h	Orifice Size (2)
WDV500NTSC	Nat.	34,000	23,000	#43
WDV500PTSC	LP	33,000	25,500	1.28 mm

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)
- Reflective Glass
- Stone Set

ITEMS REQUIRED FOR INSTALLATION

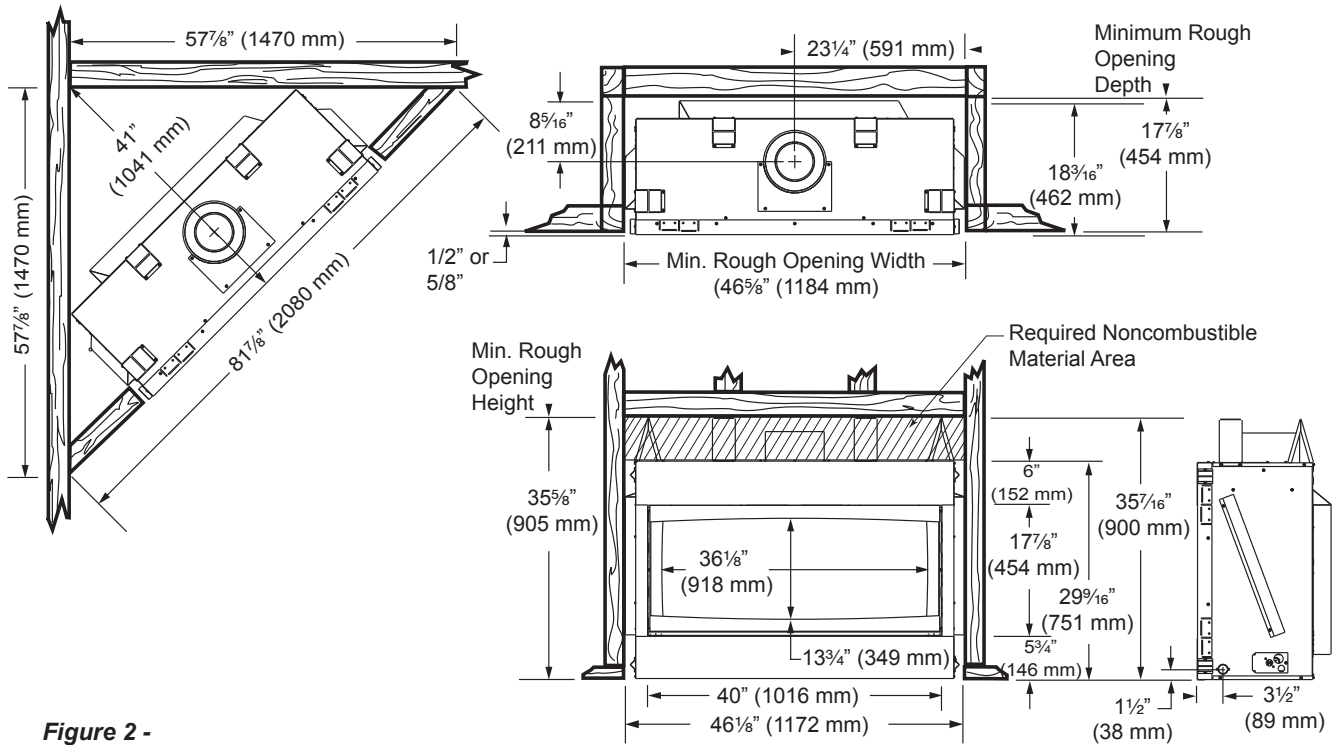
- Phillips Screwdriver
- Hammer
- Saw and/or saber saw
- Measuring Tape
- Electric Drill and Bits
- Pipe Wrench
- Caulking Material (noncombustible)
- Fireplace Surround Material (noncombustible)
- Piping Complying with Local Codes
- Pipe Sealant Approved for use with Propane/LPG (Resistant to sulfur compounds)
- Noncombustible finishing material or dura-rock*
- Framing Materials
- Wall Finishing Materials
- Level
- Pliers
- Square
- Tee Joint

* Only used if desired to cover painted face other than using tiles or marble. If tiles or marble are used around the face, the noncombustible material is not needed.

FIREBOX FRAMING

Firebox framing can be built before or after the appliance is set in place. Refer to *Figure 2* for fireplace and framing dimensions. The framing headers may rest on the top of the firebox standoffs. Do not bring headers below top of standoffs. **NOTE:** When planning your framing and installation, keep in mind that your gas line can come in on the right or left side of the firebox (as you are facing it) and your electricity will come in on the right side.

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.



**Figure 2 -
Fireplace and Framing Dimensions**

WARNING

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

WARNING

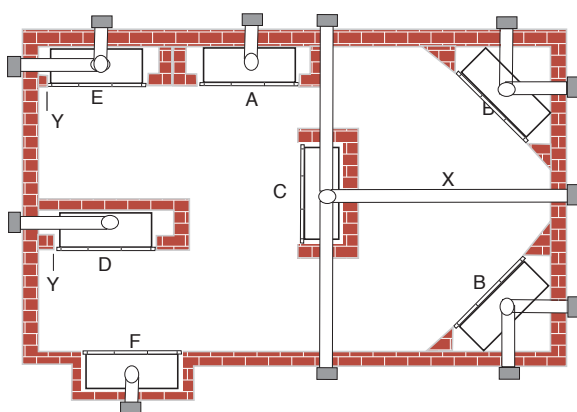
Unit framing is to be rectangular front to back. Failure to do so will cause fire and damage to property.

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 3* 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. Refer to the 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.
- These units can be installed in a bathroom.



- A Flat on Wall
- B Cross Corner
- C Island**
- D Room Divider*
- E Flat on Wall Corner*
- F Chase Installation
- Y 4" Minimum

** Island (C) and room divider (D) installation is possible as long as the horizontal portion of vent system (X) does not exceed 20'. Refer to *Installing Horizontal Termination Configuration* on Page 12.

* 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.

Figure 3 - Possible Fireplace Locations

COLD CLIMATE INSULATION

NOTE

If you live in a cold climate, seal all cracks around your appliance, and wherever cold air could enter the room, with noncombustible material. It is especially important to insulate the outside chase cavity between the studs and under the floor on which the appliance rests, if the floor is above ground level.

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.

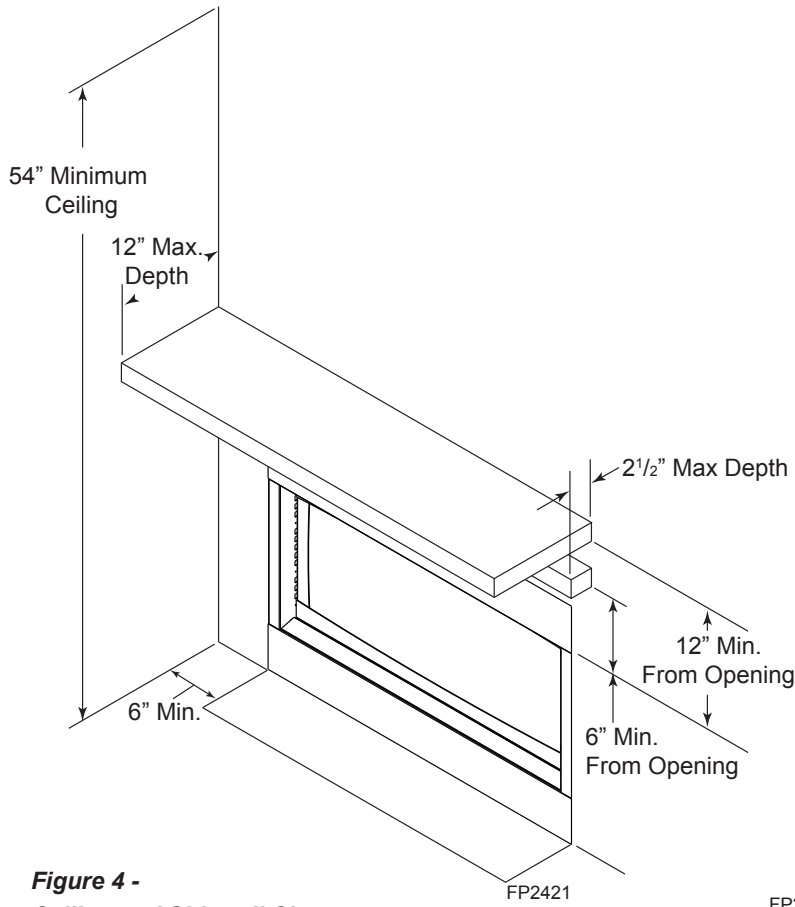
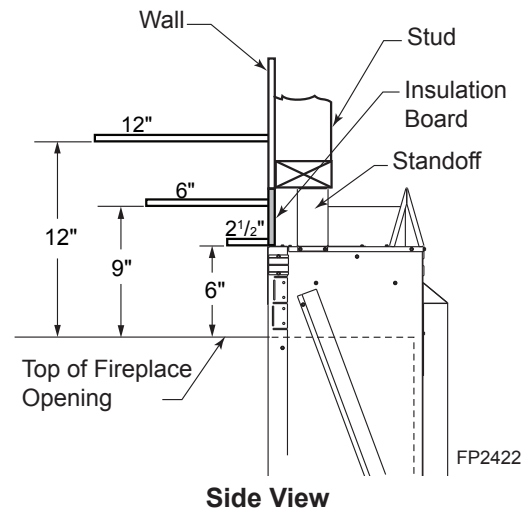


Figure 4 -
Ceiling and Sidewall Clearances



Side View

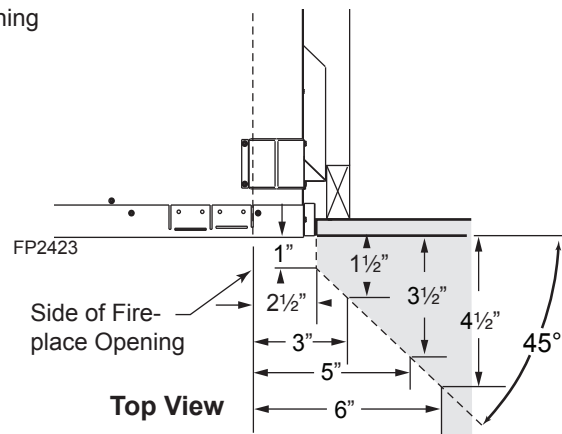
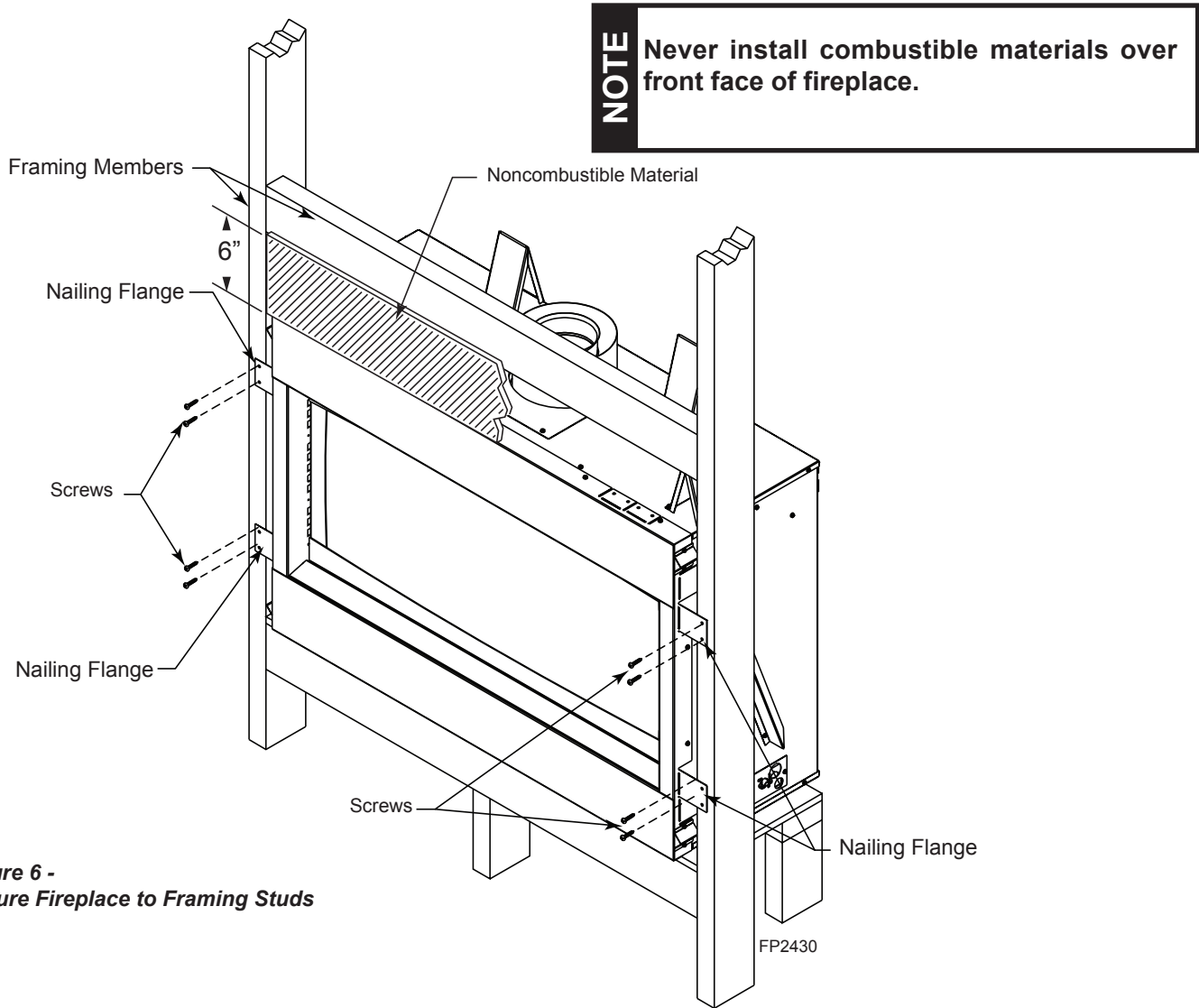


Figure 5 -
Mantel clearances

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.

The fireplace must be secured to the floor and/or to framing studs as shown in *Figure 6*. 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 nailing flanges are 1/2" or 5/8" to accommodate different wall thickness.



**Figure 6 -
Secure Fireplace to Framing Studs**

NOTE: Fireplace may be installed on top of framing or platform constructed of combustible materials which do not protrude beyond 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.

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 painted face of the appliance. It is permissible to bring combustible wall board to the top of the standoffs on the top and the sides of the unit. 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.

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.

INSTALLATION PRECAUTIONS

Consult local building codes before beginning the installation. The installer must make sure to select the proper vent system for installation. The approved 5 x 8 venting components are Simpson Duravent and Selkirk products listed on Page 41. UL1777 flexible venting is also approved for use on these models. 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 MHSC.
- Installation other than permitted by these instructions.

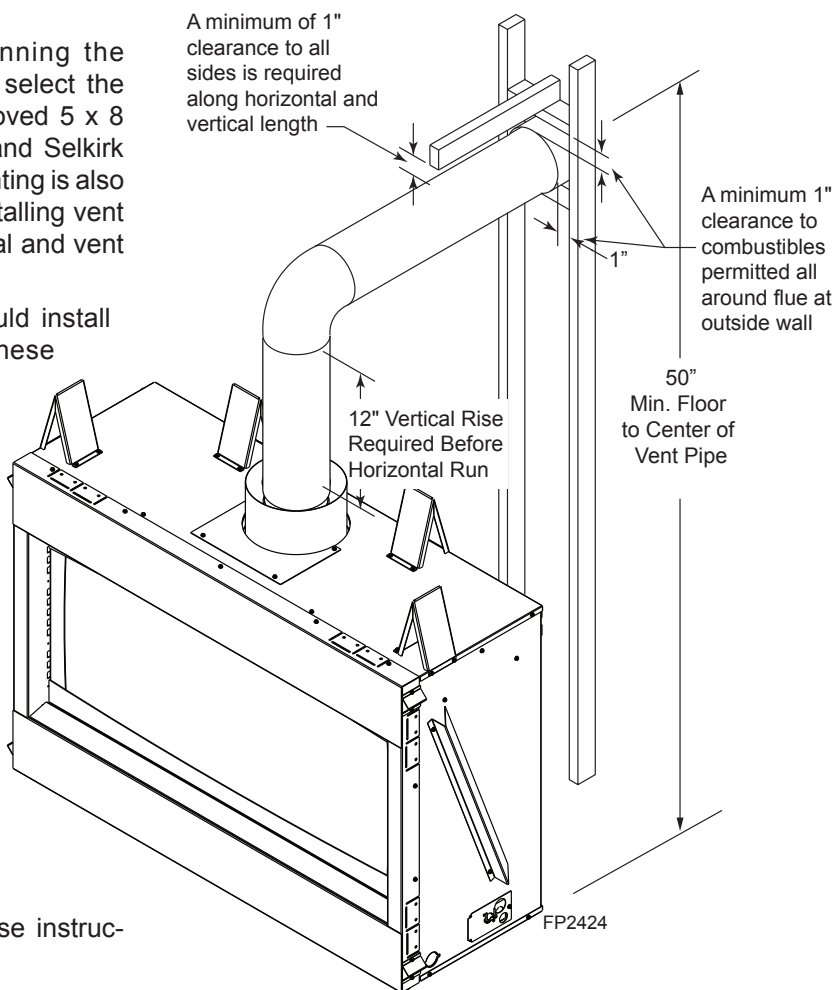


Figure 7 - Combustible Clearances for Vent Pipe

NOTICE

Failure to follow these instructions will void the warranty.

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.

WARNING

Horizontal and vertical sections of this vent system require a minimum of 1" clearance to combustibles on all sides, top and bottom.

INSTALLATION PLANNING

There are two basic types of direct-vent installation:

- Horizontal Termination
- Vertical Termination

WARNING

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

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 1/4" rise for every 12" of run towards the termination below 7½ feet of vertical rise. With 7½ feet or more vertical rise off top of fireplace, the horizontal run may run level. NEVER run vent piping down.

You may use up to three 90° elbows in this vent configuration. Refer to Vertical/Horizontal Termination Configurations on *Page 14*.

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.

Refer to *Installing A Vent System in an Outside 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

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.

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.

FOR HORIZONTAL TERMINATION

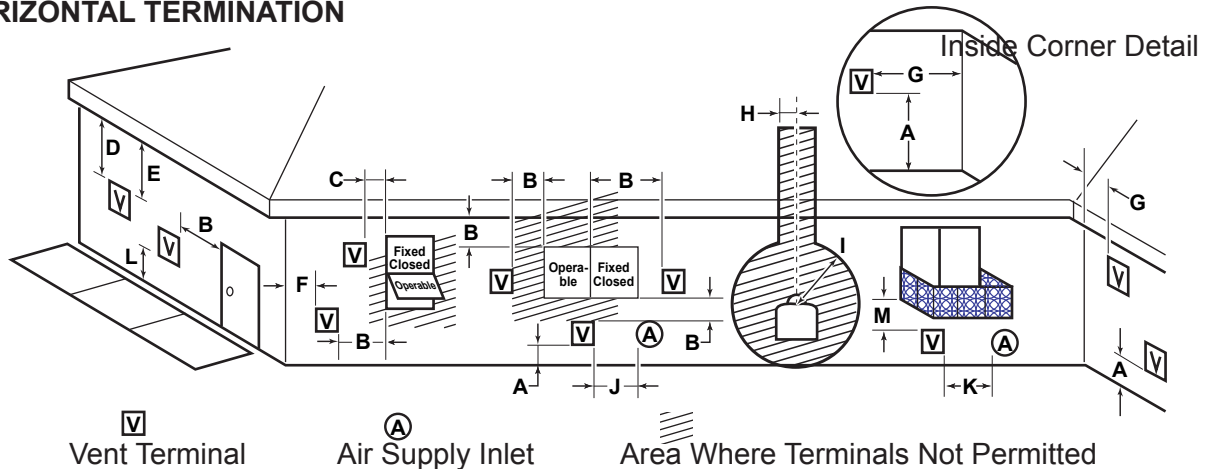





Figure 8 -  Vent Terminal  Air Supply Inlet  Area Where Terminals Not Permitted
Horizontal Vent Termination Location

MINIMUM DISTANCES

- A = Clearance above the grade, a veranda, porch, deck, or balcony [*12" (305 mm) minimum].
- B = Clearance to window or door that may be opened [*12" (305 mm) minimum].
- C = Clearance to permanently closed window [*minimum 12" (305 mm) recommended to prevent condensation on window]
- D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of two (2) feet (610 mm) from the centerline of the terminal [18" (457 mm) minimum].
- E = Clearance to unventilated soffits [12" (305 mm) minimum]. Clearance to vinyl soffit [30" (762 mm)].
- F = Clearance to an outside corner. *Figure 9*
- G = Clearance to an inside corner. *Figure 9*
- H = *Not to be installed above a gas meter/regulator assembly within three (3) feet (914 mm) horizontally from the centerline of the regulator.
- I = Clearance to service regulator vent outlet [*3' (914 mm) minimum].
- J = Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance [*12" (305 mm) minimum].
- K = Clearance to a mechanical air supply inlet [*6' (1829 mm) minimum].
- L = Clearance above a paved sidewalk or paved driveway located on public property [*7' (2133 mm) minimum].
- M = Clearance under veranda, porch, deck, or balcony [For Canada 12" (305 mm) minimum***] *Figure 9*

* As specified in CSA B149 Installation Codes. Note: Local codes or regulations may require different clearances.

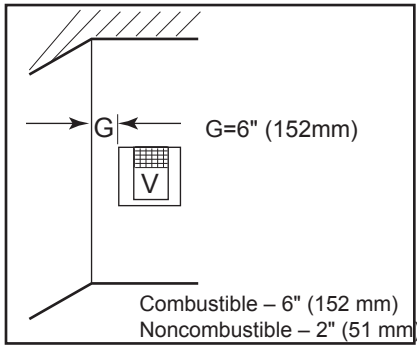
** A vent must not terminate directly above a sidewalk or paved driveway, which is located between two single-family dwellings and serves both dwellings.

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

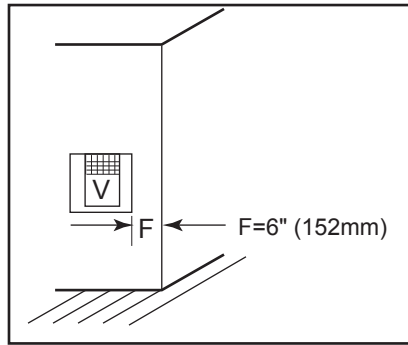
WARNING

Always maintain minimum clearances around vent systems. The minimum clearances to combustibles for horizontal and vertical vent pipe are 1" at the top, sides and bottom of the vent system. Do not pack the open air spaces with insulation or other materials. This could cause high temperatures and may present a fire hazard.

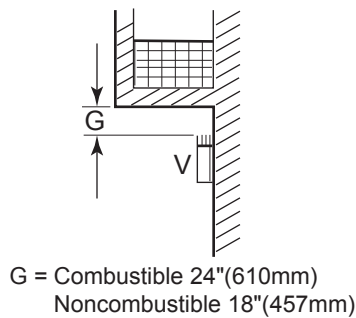
TERMINATION CLEARANCES FOR BUILDINGS WITH COMBUSTIBLE AND NONCOMBUSTIBLE EXTERIORS



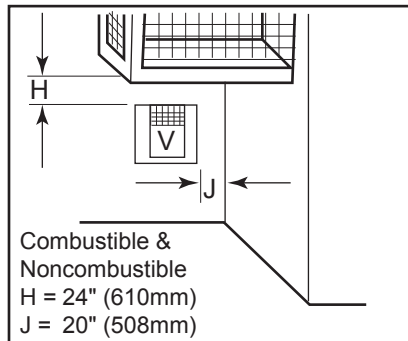
Inside Corner



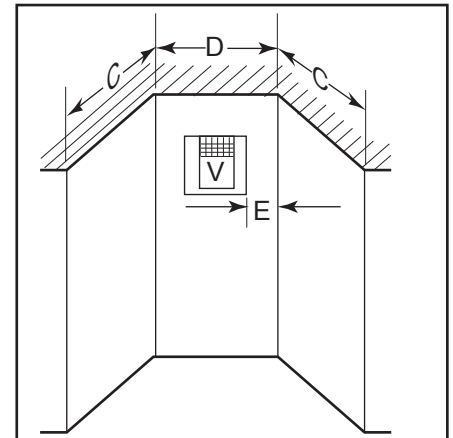
Outside Corner



Balcony with No Side Wall



Balcony with Perpendicular Side Wall



C = Maximum depth of 48" (1219mm) for alcove location
 D = Minimum width for back wall of alcove location
 Combustible - 38" (965mm)
 Noncombustible - 24" (610mm)
 E = Clearance from corner in alcove location
 Combustible - 6" (152mm)
 Noncombustible - 2" (51mm)

Alcove Location

Figure 9 - 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' (3.4 m) the horizontal run to the face of the outer wall must not exceed 16' (4.9 m).

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

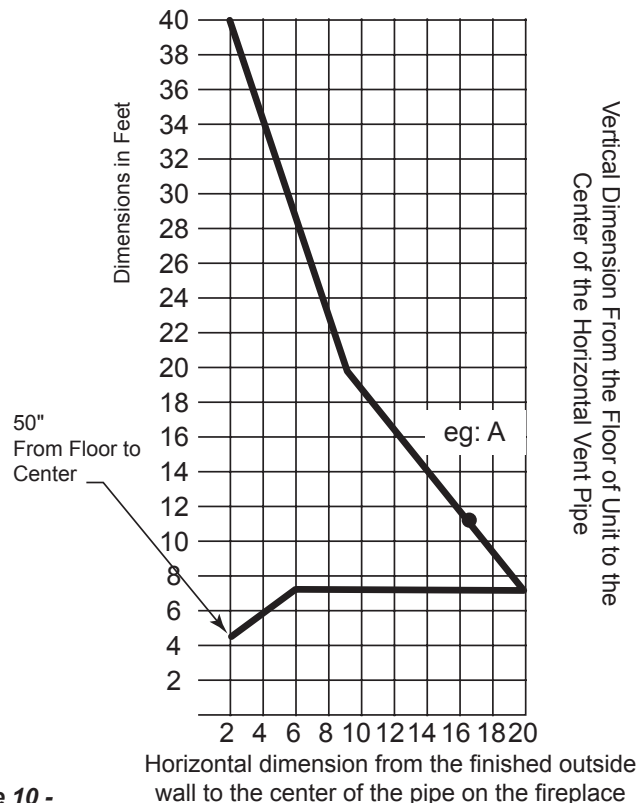


Figure 10 - Rear Wall Venting Graph

VERTICAL/HORIZONTAL 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. *Figure 10*

NOTE: Horizontal and vertical sections of this vent system require a minimum of 1" clearance to combustibles at the top, sides and bottom.

When vent exits through foundations less than 20" below outcrop, the termination must be flush up with outcropped wall above.

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 finished outside wall.

- The maximum number of 90° elbows per side wall installation is three (3). *Figure 11*
- A minimum of 12" is required before a 90° elbow. If a 90° elbow is fitted directly after 12" vertical section mounted to the top of the fireplace, the maximum horizontal vent run before the termination or a vertical rise is 36" (914 mm). *Figure 12*

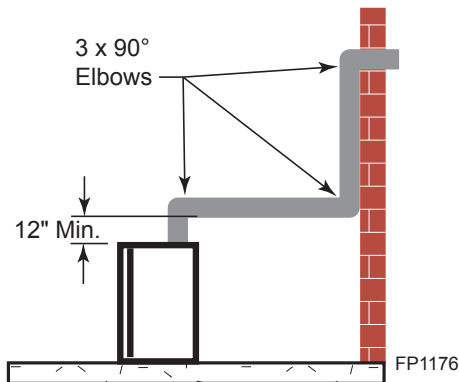


Figure 11 -
Maximum Three (3) 90° Elbows Per Installation

- If a 90° elbow is used in the horizontal vent run (level height maintained) the horizontal vent length is reduced by 36". Refer to Page 17, *Figures 11 and 12*. This does not apply if the 90° elbows are used to increase or redirect a vertical rise. *Figure 14*

Example: According to the vent graph (Page 13) the maximum horizontal vent length in a system with a 10' vertical rise is 17½' (5.3 m) and if a 90° elbow is required in the horizontal vent it must be reduced to 14½' (4.4 m).

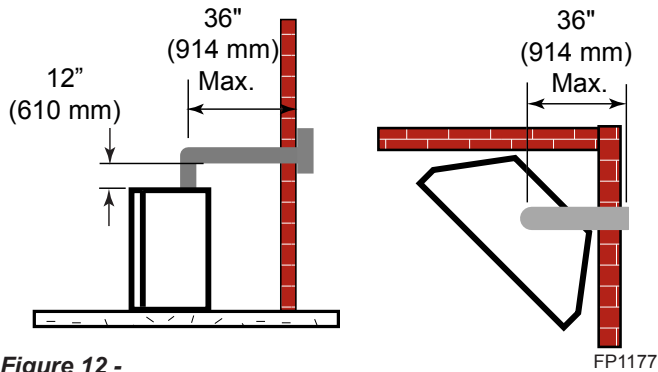


Figure 12 -
Maximum Horizontal Run with No Rise

In *Figures 13 and 14* dimension A plus B must not be greater than 17' (5.2 m).

- 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" (45 cm). 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°. *Figure 15*

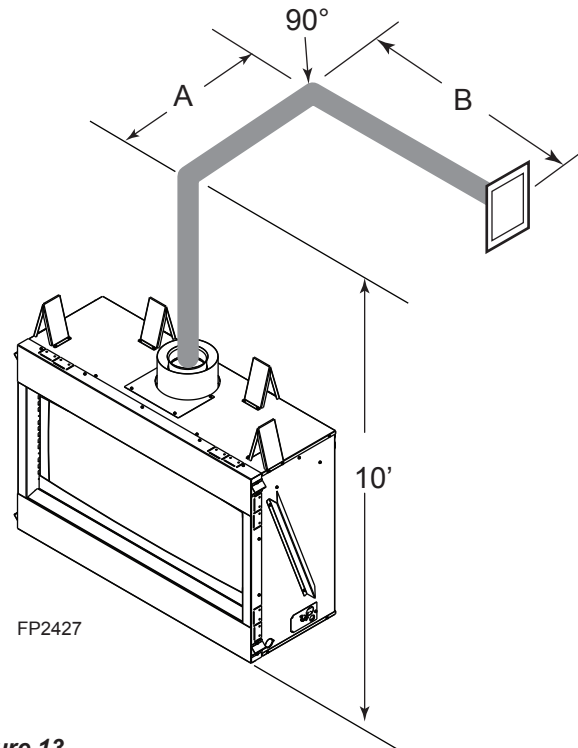
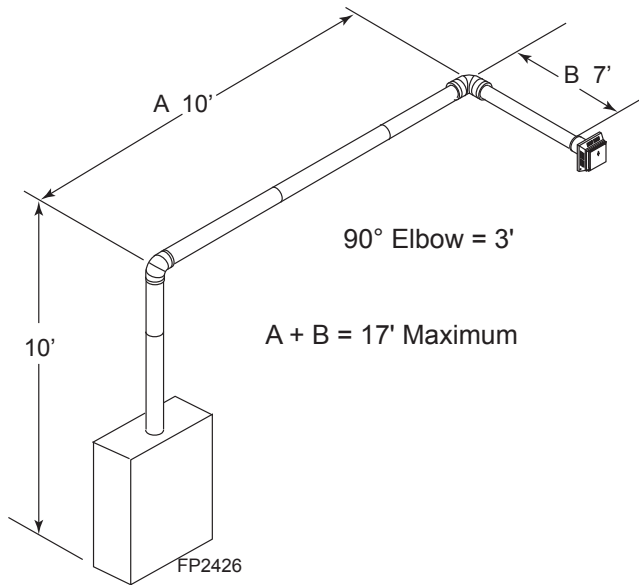


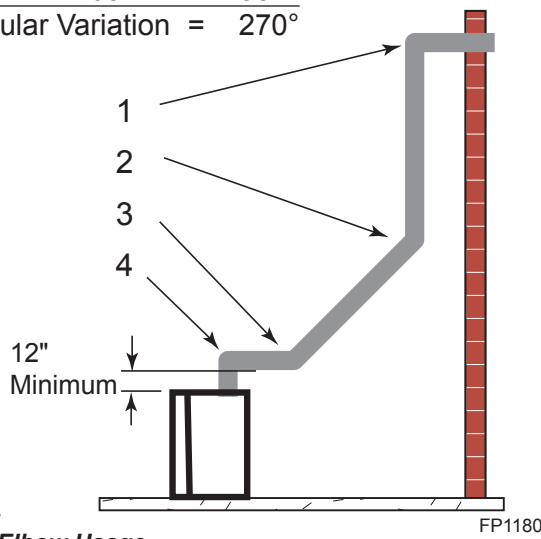
Figure 13 -
Horizontal Run Reduction



**Figure 14 -
Maximum Vent Run with Elbows**

Example: Elbow 1 = 90°
 Elbow 2 = 45°
 Elbow 3 = 45°
 Elbow 4 = 90°

 Total Angular Variation = 270°



**Figure 15 -
Maximum Elbow Usage**

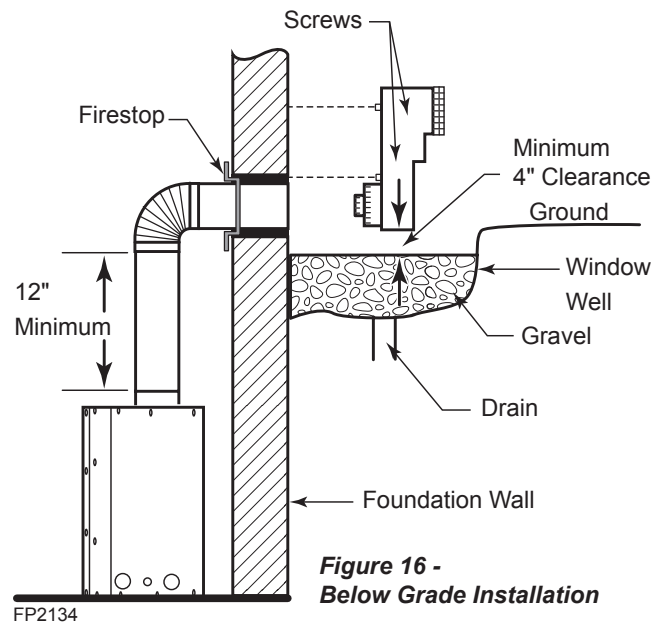
BELOW GRADE INSTALLATIONS

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" (178 mm) below grade level. The 7" (178 mm) 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 12" vertical rise is necessary. The maximum horizontal run with the 12" 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 12".

1. Establish vent hole through the wall.
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. *Figure 16*
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 5" and 8" 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. *Figure 16*



**Figure 16 -
Below Grade Installation**

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 #8 x 1/2" sheet metal screws. It will be necessary to extend vent pipes out as far as the protruding wall face. *Figure 17*

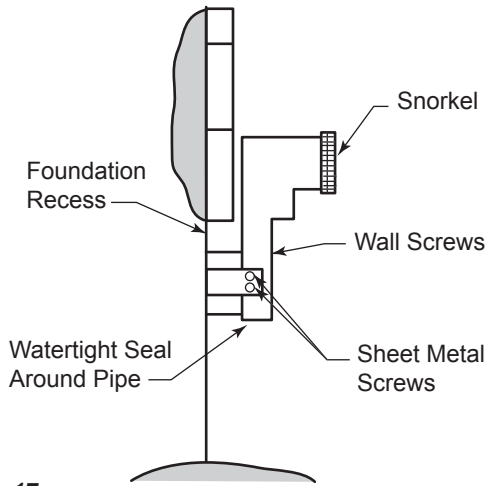


Figure 17 - Snorkel Installation, Recessed Foundation

WARNING

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

VERTICAL (THROUGH-THE-ROOF) APPLICATIONS

This gas fireplace has been approved for,

- Vertical installations up to 40' (12 m) in height. Up to a 10' (3 m) horizontal vent run can be installed within the vent system using a maximum of two 90° elbows. *Figure 18*

NOTE: Horizontal and vertical sections of this vent system require a minimum 1" clearance to combustibles at the top, sides and bottom.

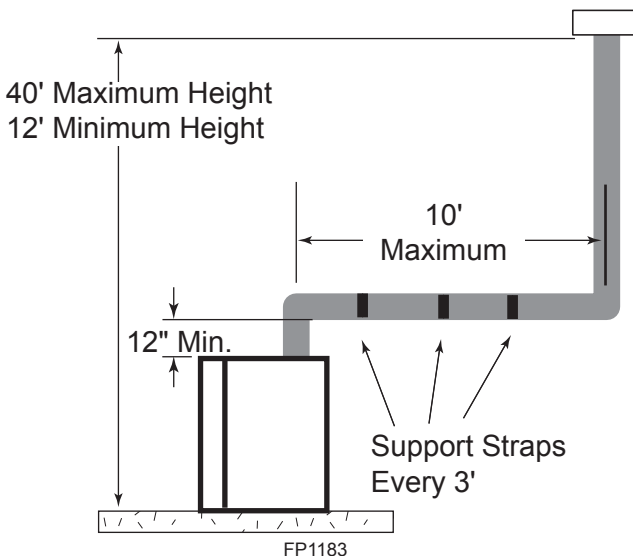


Figure 18 - Support Straps for Horizontal Runs

- 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" (450 mm).

Example: Maximum horizontal length

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

- A minimum of an 12' (3.6 m) 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. *Figure 19*
- The maximum angular variation allowed in the system is 270°. *Figure 19*

Example:

Elbow 1 =	90°
Elbow 2 =	45°
Elbow 3 =	45°
Elbow 4 =	90°
<hr/>	
Total Angular Variation =	270°

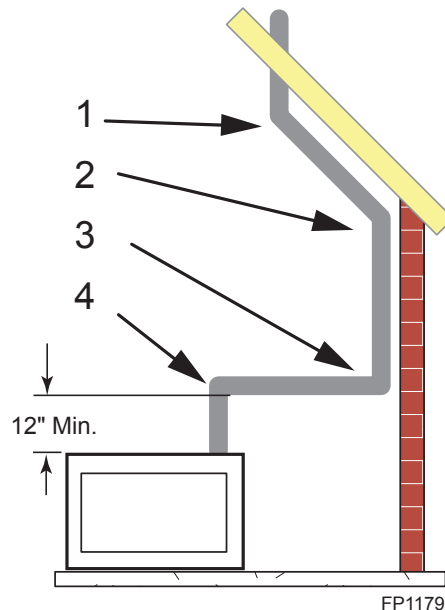


Figure 19 - Maximum Elbow Usage

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. Refer to Figure 20 to avoid cutting load bearing members.

For optimal flame appearance, a restrictor disk is necessary on straight vertical runs of 10' or more.

- Runs may not incorporate elbows.
- The disk is part number 56D3027 and is included in installation manual packet.
- Drop the disk into a 5" inner collar before installing the first section of flue or install at the last section before installing the termination.
- An additional disk may be installed on runs of 35' or more. Rotate disks perpendicular to each other.

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 shown in Figures 19 and 20.

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 at 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 10½" (241 mm) square hole in the ceiling using the locating hole as a center point. The opening should be framed to 10½" x 10½" (241 x 241 mm) inside dimensions as shown in Figure 22 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. Figure 21. Otherwise, install firestop below the framed hole. Figure 22
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.

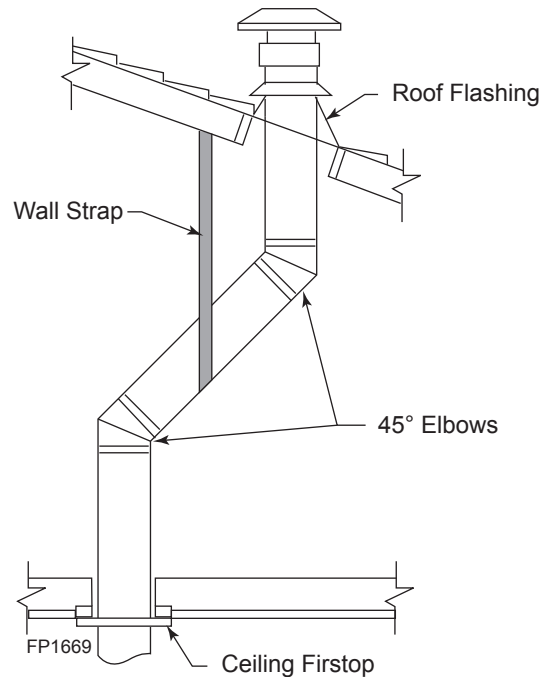


Figure 20 - Offset with Wall Strap and 45° Elbows

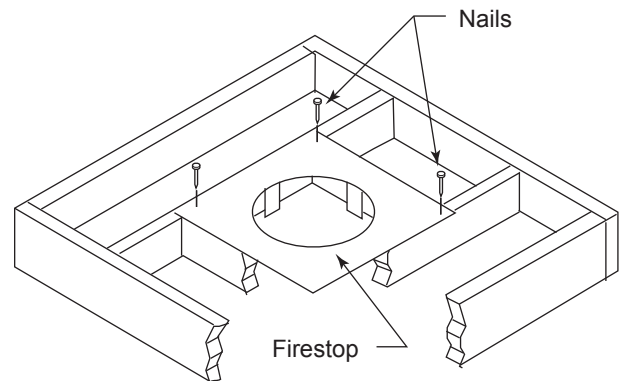


Figure 21 - If Area Above is a Room, Install Firestop above Framed Hole as Shown

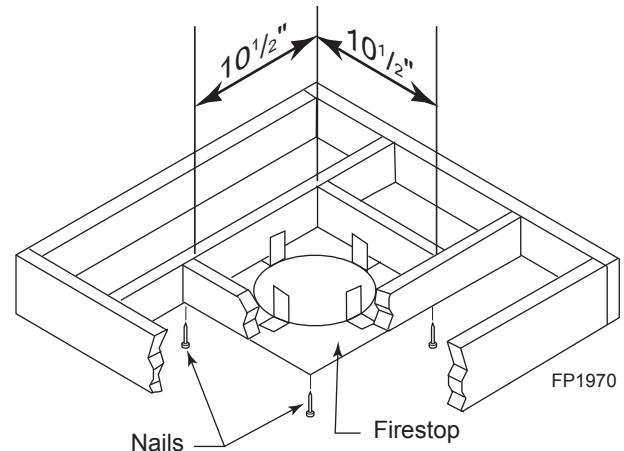


Figure 22 - If Area Above is Not a Room, Install Firestop below Framed Hole as Shown

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 10½"x10½" (241 x 241 mm) 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).
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 18, page 19. 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 building code requirements.

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.

TERMINATION HEIGHTS FOR VENTS ABOVE FLAT OR SLOPED ROOFS

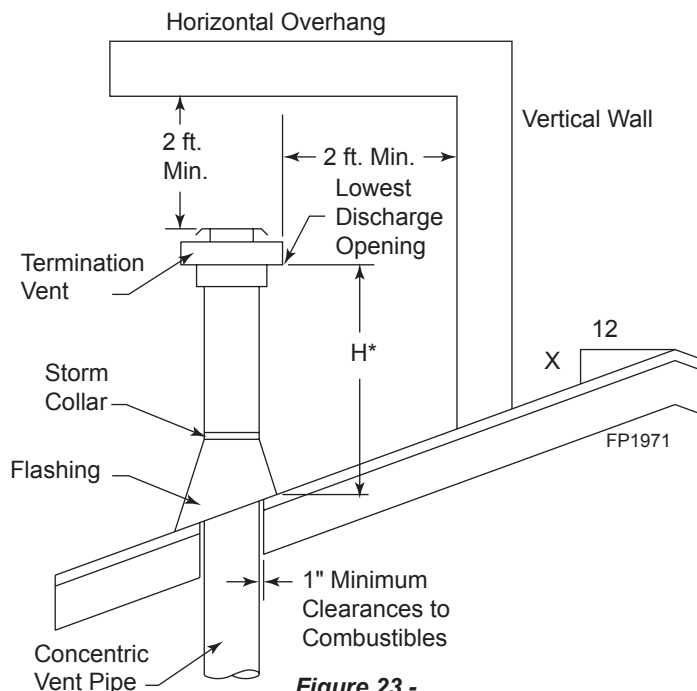


Figure 23 - Minimum Chimney Clearance

Roof Pitch	H (feet)
Flat to 6/12	1.0
Over 6/12 to 7/12	1.25
Over 7/12 to 8/12	1.5
Over 8/12 to 9/12	2.0
Over 9/12 to 10/12	2.5
Over 10/12 to 11/12	3.25
Over 11/12 to 12/12	4.0

*H - Minimum height from roof to lowest discharge opening of vent

1. Flexible UL1777 listed venting may be used in any venting application where rigid direct vent components can be used. **All restrictions, clearances and allowances that pertain to the rigid piping apply to the flexible venting.** Flex kits may not be modified. Flex kits may be added to the end of a vent run made of rigid vent sections using pipe manufacturer's approved flex to pipe adapters. This may occur only if doing so does not violate any of the venting length, height, routing, horizontal to vertical ratio requirements or clearance considerations detailed in this manual.

2. The flex adapter starter kit (DVF8A/8) is used to attach flex venting to the appliance starting collar. It includes 5" inner and 8" outer adapter rings. *Figure 24*

- The inner and outer adapter rings are required to start all flex runs.
- Never install damaged or torn flexible venting.
- Over tightening clamps may rip, tear, or otherwise damage flexible venting.
- The adapter kit does not include individual pipe sections which may be purchased separately. (UL1777 listed type venting only.)

3. Start the flexible vent as follows:

A. Installing the inner flex adapter and pipe. *Figure 24*

1. Insert the long side of the 5" inner ring into exhaust pipe, gently tap to seat into place, and secure with screws.
2. Slide the small gear clamp over the inner flexible vent pipe, and push out of the way.
3. Pull and extend the inner flexible vent.
4. Slide the inner vent onto the adapter collar, for a minimum 1 3/4" overlap.
5. Locate the clamp at approximately 3/4" from the flex end and tighten.
6. Secure the clamped inner section with three self-tapping screws, drilled equidistant, just above the clamp perimeter.

B. Installing the outer flex pipe. *Figure 24*

1. Firmly insert the 8" outer adapter ring into the outer appliance starting collar and secure with screws.
2. Slide the large gear clamp over the outer flexible vent pipe, and push out of the way.
3. Pull and extend the outer flexible vent.
4. Slide the outer vent onto the appliance collar outer adapter for a minimum 1 3/4" overlap.
5. Locate the clamp at approximately 3/4" from the flex end and tighten.
6. Secure the clamped outer section with three self-tapping screws, drilled equidistant, just above the clamp perimeter.

C. Routing UL1777 flex pipe.

1. Always maintain the required clearance when routing the flex vent assembly.

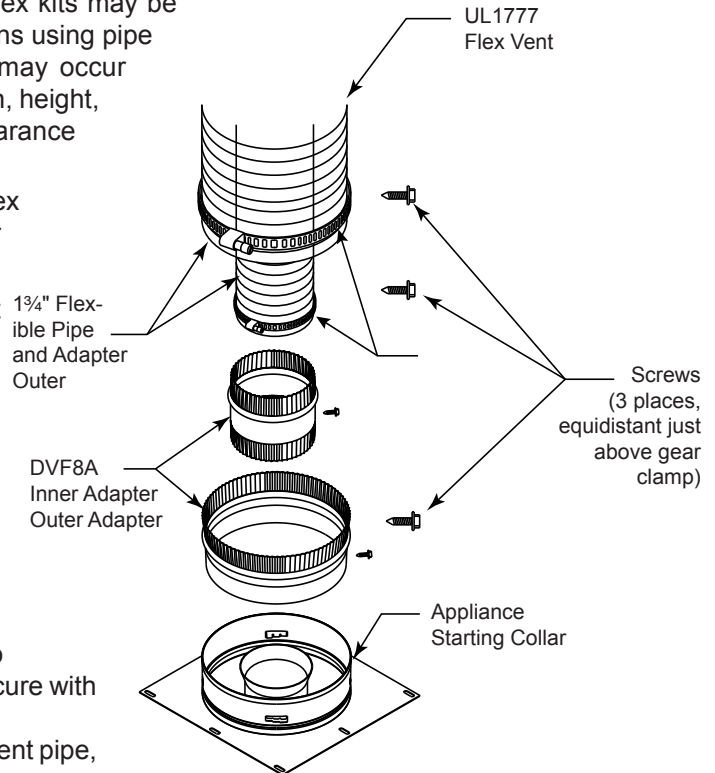


Figure 24 - Typical Appliance Connection

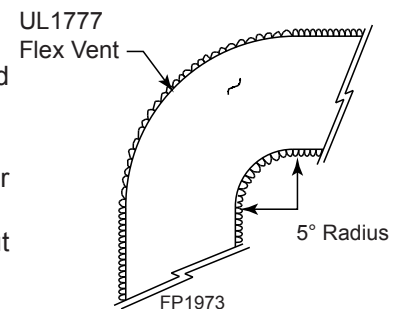


Figure 25 - Minimum Radius for Flex Vent Section

NOTE

Flex vent pipe spacers: Refer to manufacturer's specifications for correct positioning of the spacer springs to maintain proper distance between inside and outside pipe.

2. Install firestop spacers, *Figure 26*, when penetrating ceiling, attic spaces, or walls.
 3. Do not allow the flexible vent to bend in radius tighter than 5" (127 mm). *Figure 25*
 4. Horizontal runs of flexible vent shall be supported at maximum 2 foot intervals; vertical runs, five feet intervals. Metal strapping, properly secured, is an acceptable means to support the flexible vent.
 5. Flexible vent spacers are to be installed at intervals prescribed by the flexible vent manufacturer; and in such a way as to maintain concentric inner and outer vent spacing.
- D. Attaching flexible venting to vertical termination assemblies.
1. When using Simpson pipe, an MHSC flex-to-pipe adapter (FPA) and/or rigid pipe section(s) is required to connect the flexible vent assembly to the vertical termination by using three self-penetrating screws.
 2. Review *Figure 27* and corresponding instructions for proper overlap, clamp and screw placement.
 3. Three each self-penetrating screws are drilled opposite one another and below the gear clamp.
 4. Use only listed and approved terminations and accessories, installed per the installation instructions and *Figure 26*.
- E. Installing flexible venting to horizontal termination assemblies.
1. Connect the 5" flexible vent to the horizontal termination as in *Figure 28*.
 2. Connect the 8" flexible vent to the termination ring as in *Figure 28*.
 3. Review *Figure 28* for proper overlap and clamp placement.
 4. Three each self-penetrating screws are drilled opposite one another and below the gear clamp.
 5. Use only listed and approved terminations and accessories, installed per the termination instructions and *Figure 28*.

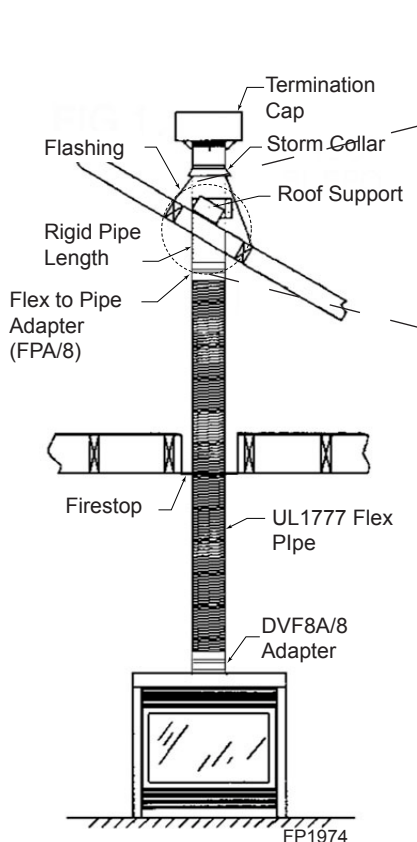


Figure 26 - Typical Vertical Flex Vent Installation

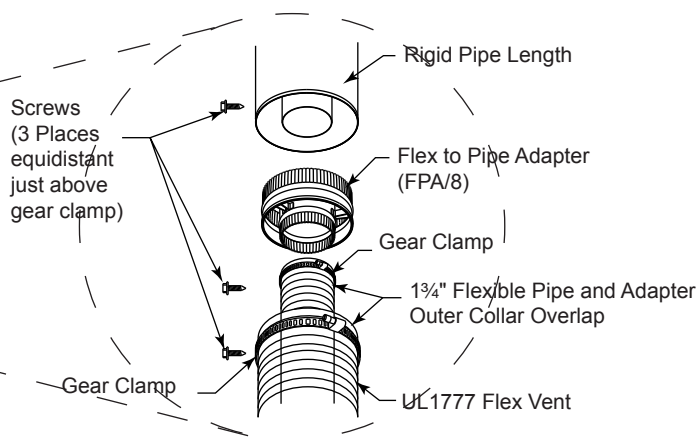


Figure 27 - Typical Pipe Connection

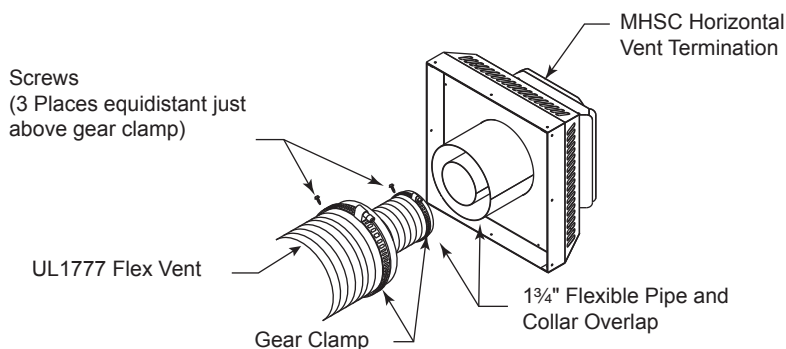


Figure 28 - Typical Horizontal Flex Vent Installation

CHECK GAS TYPE

Use proper gas type for the fireplace you are installing. If you have conflicting gas type, do not install fireplace. See dealer where you purchased the fireplace for proper fireplace for your gas type or conversion kit.

INSTALLING GAS PIPING TO FIREPLACE LOCATION

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

CAUTION For propane/LP units, never connect fireplace 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.

INSTALLATION ITEMS NEEDED

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

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

* 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.

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 29*. Pointing the vent down protects it from freezing rain or sleet.

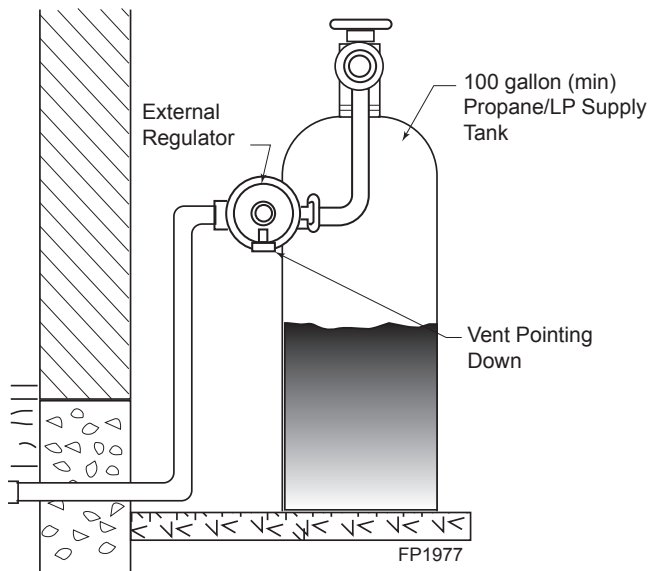


Figure 29 - External Regulator with Vent Pointing Down (Propane/LP Only)

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.

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

The gas control is equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8" test point up stream of the control.

Always provide a union when using black iron pipe so the gas line can be easily disconnected for burner or fan servicing. Refer to gas specifications for pressure details and ratings.

The fireplace valve must not be subjected to any test pressures exceeding 1/2 psi. Isolate or disconnect this and any other gas appliance control from the gas line when pressure testing.

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. *Figure 30*

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 CSA-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. *Figure 30*

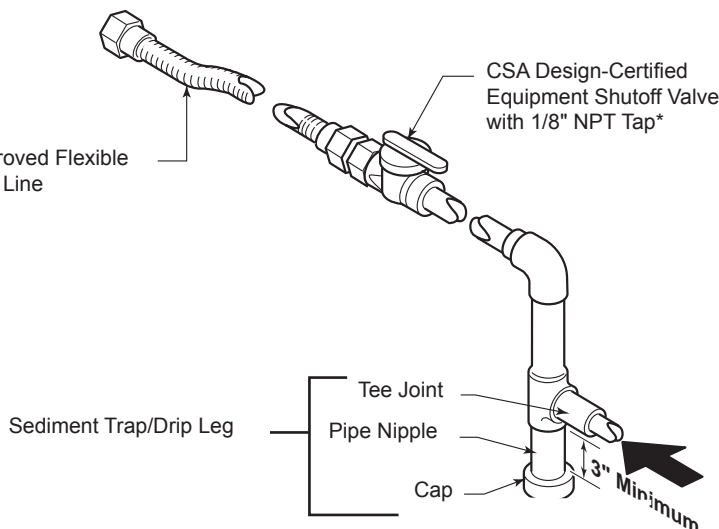
IMPORTANT: Install main gas valve (equipment shutoff valve) in an accessible location. The main gas valve is for turning on or shutting off the gas to the fireplace.

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 30*. 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 collects moisture and contaminants and 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.

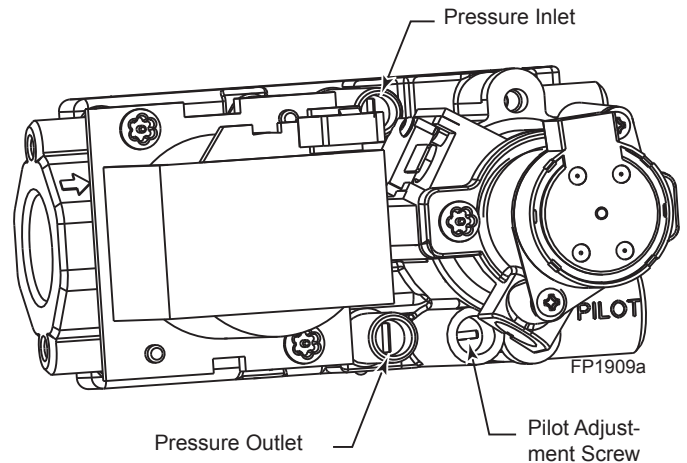


Natural Gas
From Gas Meter
(4.5" w.c. to 10.5" w.c. Pressure)
Propane/LP
From External Regulator
(11" w.c. to 13" w.c. Pressure)

Figure 30 - Gas Connection

SIGNATURE COMMAND - CHECK GAS PRESSURE and ELECTRICAL INSTALLATION

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 24" (610 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 50/50 water and soap solution or a gas sniffer.
4. 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. *Figure 31* 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 31 -
Signature Command Valve**

WARNING

Do not use open flame to check for gas leaks.

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

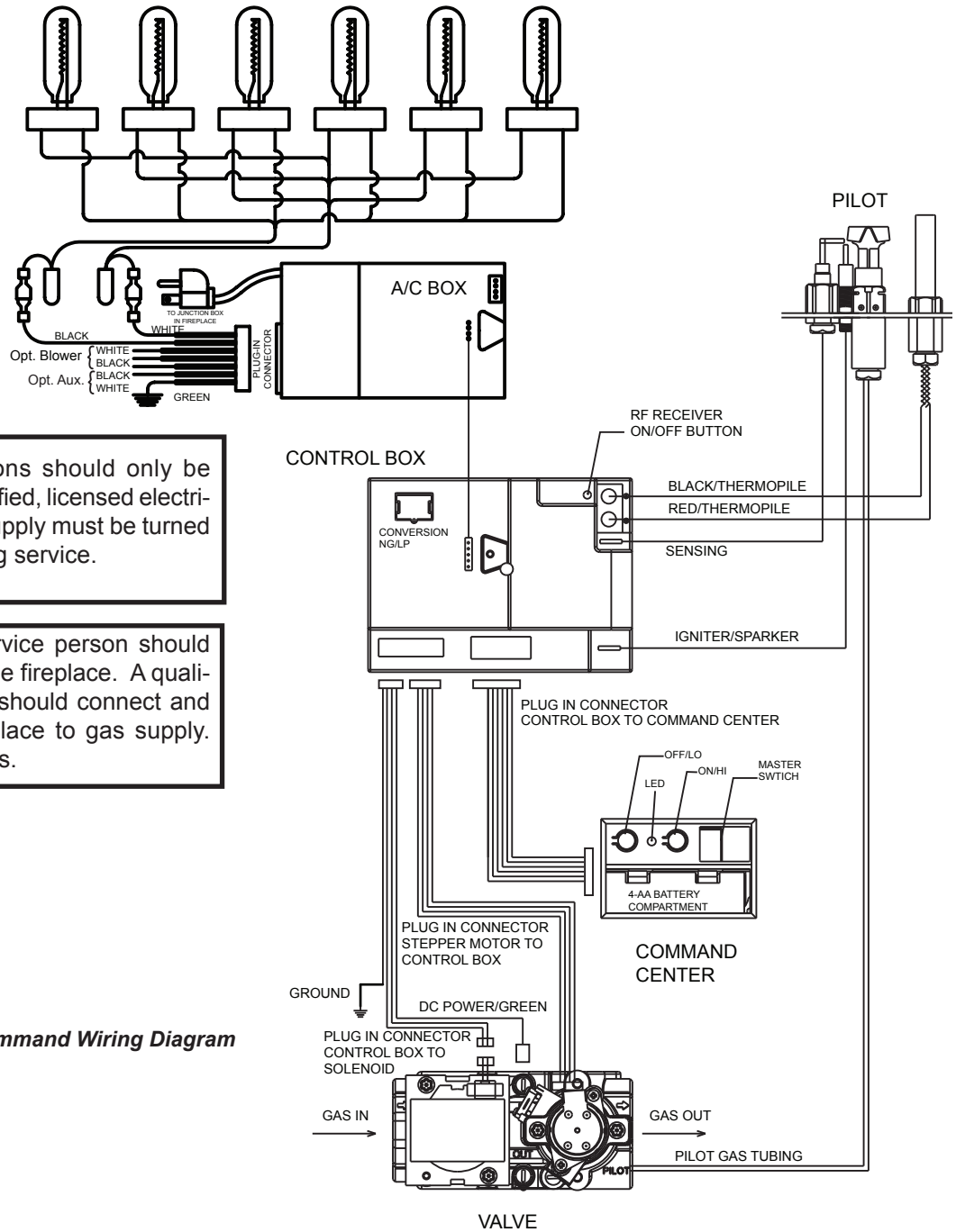
Electrical connections should only be performed by a qualified, licensed electrician. Main power must be off when connecting to main electrical power supply or performing service. All wiring shall be in compliance with all local, city, and state codes. The appliance, when installed, must be electrically 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.

SIGNATURE COMMAND OPTIONAL WALL COMMAND CENTER and BLOWER SYSTEM



CAUTION

Electrical connections should only be performed by a qualified, licensed electrician. Main power supply must be turned off before performing service.

WARNING

Only a qualified service person should service and repair the fireplace. A qualified service person should connect and disconnect the fireplace to gas supply. Follow all local codes.

**Figure 32 -
Signature Command Wiring Diagram**

COMMAND CENTER WALL INSTALLATION

The Command Center may be mounted on the wall with the use of the SCSWEK Kit. (15' cable, junction box and wall cover).

Mount the junction box provided at the desired location on the wall. Do not extend beyond the 15' wire cable provided.

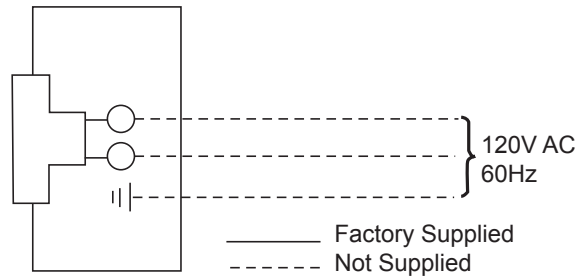
Route wire from junction box to lower control area at bottom of fireplace. Unplug the 12' cable from control box and command center. Plug the 15' extension cable into the control box. Remove command center from the fireplace and plug the other end of the extension cable into the command center. Snap on wall cover provided and screw to junction box.

A/C WIRING TO JUNCTION BOX

IMPORTANT: Always check local building codes. This installation must comply with local regulations as well as the National Electric Code.

WIRING

1. Before installing the blower, wire the receptacle into an electrical circuit. This should be done before framing the fireplace. Wire with minimum 60° C wire in accordance with prevailing codes.
2. Remove the external junction box cover by removing the screw from the right side of the outside firebox wall. Junction box was installed at the factory.
3. The junction box cover has a factory installed “romex” style strain relief connector. After connecting the wires, route the wire leads through this connector. Refer to the wiring diagram in *Figure 33*.



Junction Box

Figure 33 - Junction Box Wiring Diagram

WARNING Before installing the blower, turn off the fireplace and allow to cool. Only a qualified service person should service and repair the fireplace. A qualified service person should connect and disconnect the fireplace to gas supply. Follow all local codes.

OPTIONAL FAN/BLOWER SYSTEM (BLOTBLDVSC)

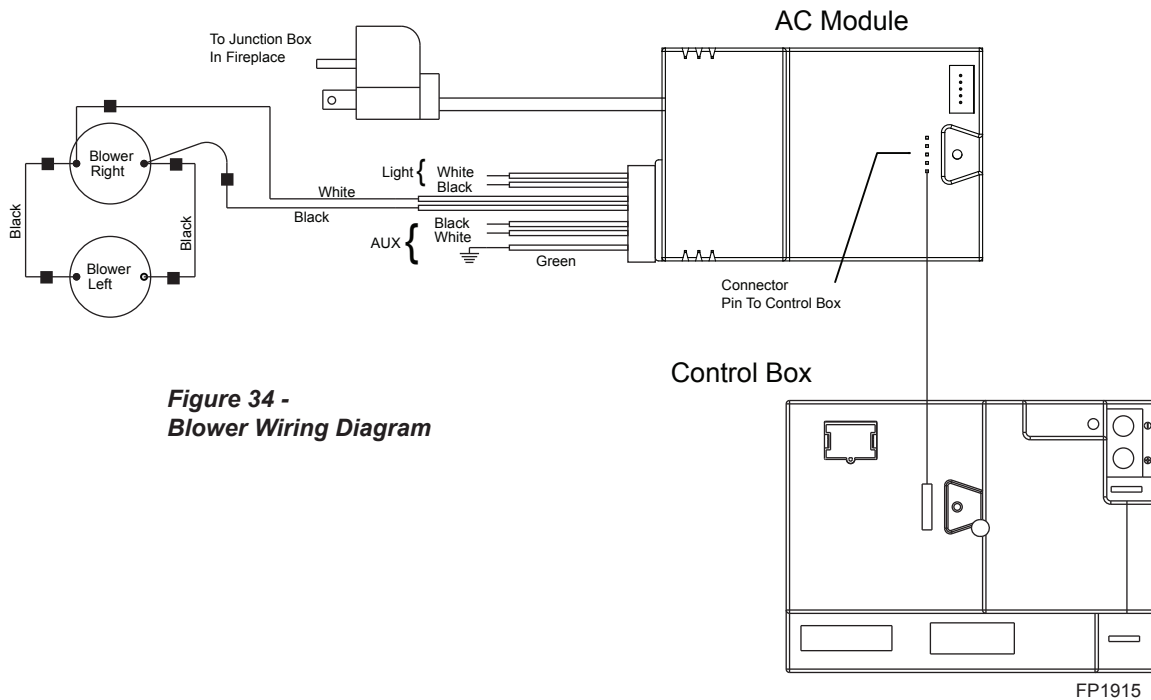
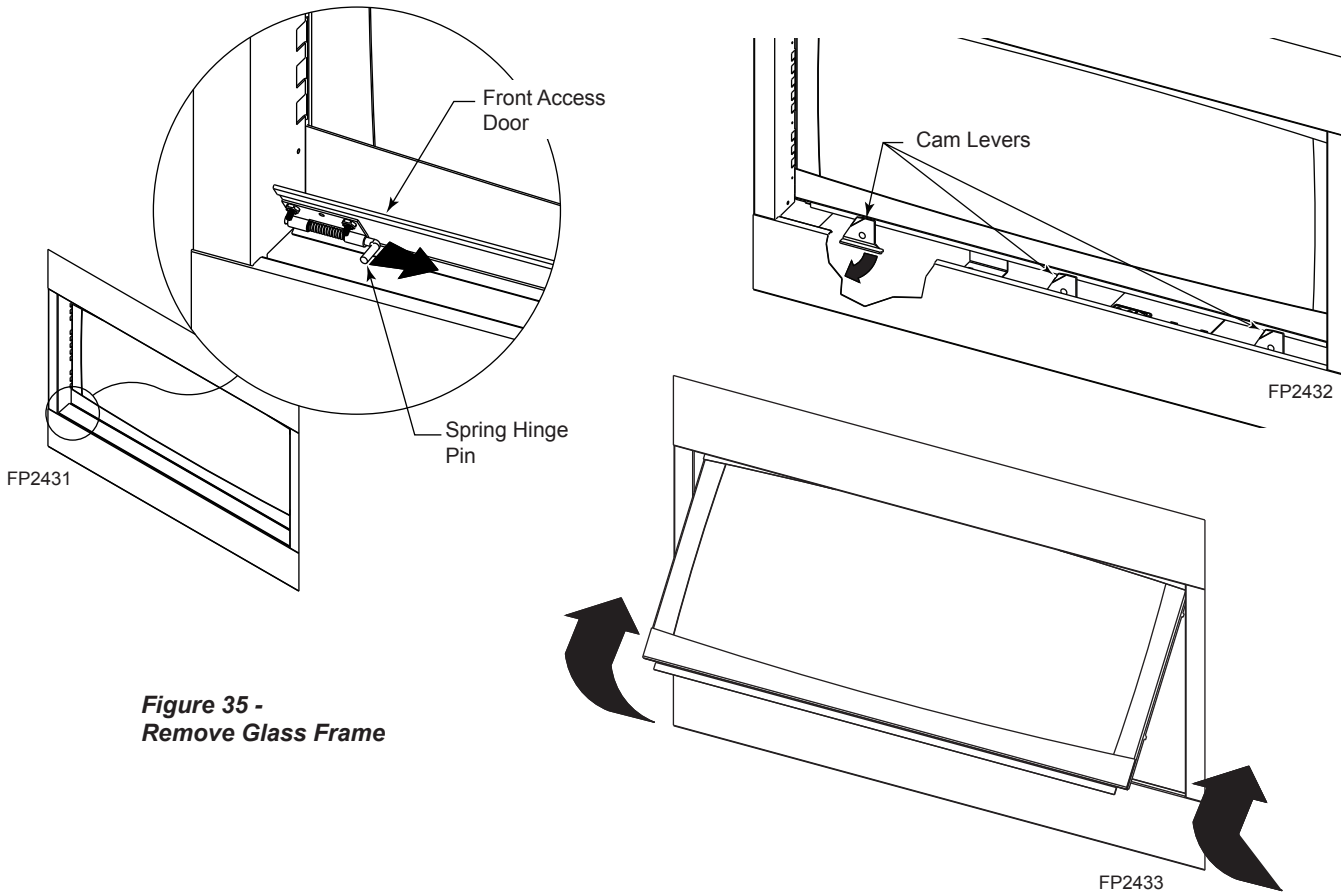


Figure 34 - Blower Wiring Diagram

WARNING Electrical Grounding Instructions: This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three prong receptacle.

GLASS FRAME REMOVAL

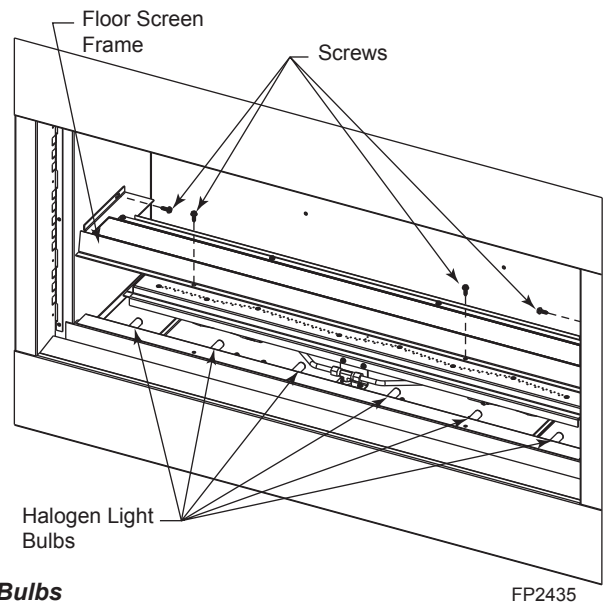
1. Remove the front access door by lifting up and sliding the two (2) spring hinge pins inward and lifting off.
2. Rotate the three (3) cam levers in the lower access area 90° clockwise.
3. Tilt glass away from unit. Lift glass frame up and away from unit.



**Figure 35 -
Remove Glass Frame**

LIGHT INSTALLATION

1. Remove the front floor screen frame by unfastening the four (4) screws securing the front and sides.
2. Install the six (6) halogen light bulbs provided. Do not touch light bulbs directly with fingers.
3. Replace the front floor screen frame. Be sure wires do not get pinched below the light channel.



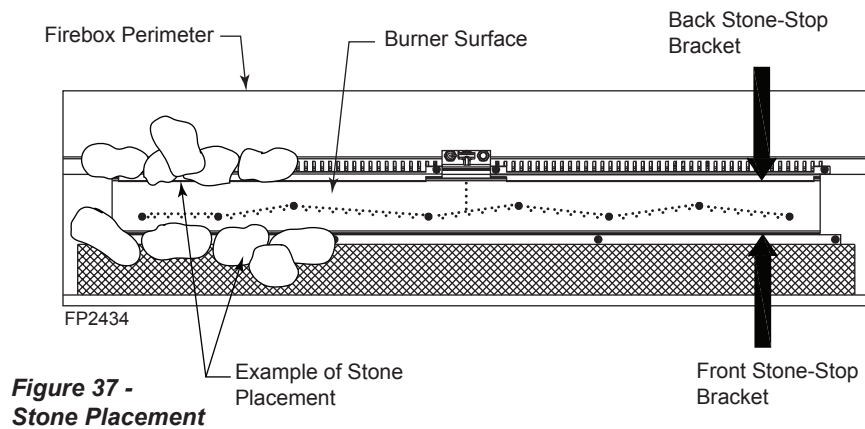
**Figure 36 -
Install Light Bulbs**

STONE & GLASS PLACEMENT

1. For best results, place the stones first.
2. Place the stones randomly against the stone stop bracket, in front of and behind the burner.
CAUTION: Do not allow stones to sit directly on burner or in flame. *Figure 37*
3. Cover the outer front back and side floor with glass covering the entire surface evenly. Sprinkle lightly over the burner area and in between the stones. Covering the black stone stop brackets is important to not have glass too heavy on the burner. You should have glass left over.
4. Turn burner on and adjust glass over the ported area to achieve an even, clean flame. *Page 36, Figure 52*
5. Replace glass frame and access door in reverse order of removal.

GLASS ONLY PLACEMENT

1. Remove the three (3) front and rear stone stop brackets by removing screws. Discard brackets. The brackets are not used with glass only placement.
2. Spread glass evenly in one layer over the entire floor and burner. It is important to not have the glass too heavy on ported area.
3. Turn burner on and adjust glass over ported areas to achieve an clean flame.
4. Replace glass frame and access door in reverse order of removal.



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.

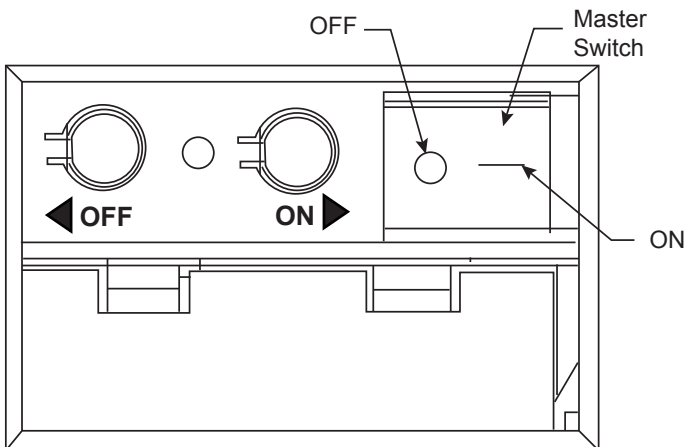
- A. This appliance is equipped with an ignition device which automatically lights the pilot. Refer to the instructions for match lighting.
- B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

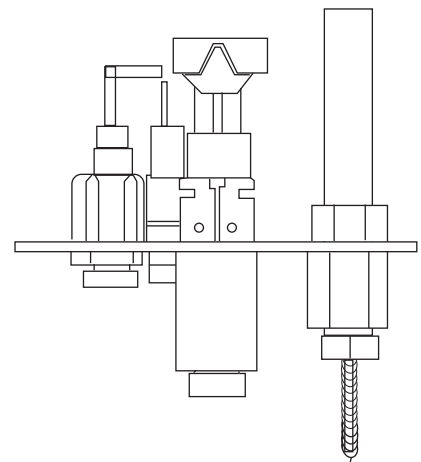
- Do not attempt to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. Use only your finger to push in the master switch. Never use tools. If the switch will not function by hand, do not 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.

OPERATING INSTRUCTIONS

1. **STOP!** Read the safety information above.
2. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
3. With five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "B" in the safety information on Page 26. If you do not smell gas, go to next step.
4. Install four (4) "AA" batteries (provided in your Homeowner's Manual bag) into the command center box. Make sure the batteries orientation match.
5. Press the master switch to the "ON" (-) position. Within eight (8) seconds it will beep once. This indicates the system is ready.
6. Press "ON " button. Sparker will spark and pilot flame will light.
7. Once pilot flame is established, the main burner flame will light automatically.
8. If the pilot will not stay lit after several tries, turn the master switch to "OFF" and call your service technician or gas supplier.



Switch Box



TO TURN OFF GAS TO APPLIANCE

1. Turn master switch to "OFF".
2. Turn off all electrical power to the appliance if service is to be performed.

FEATURES

Command Center

- Easy Access Function Operation and System Configuration
- Operation Confirmation/Fault Diagnostic Indications (LED/Buzzer)
- ON/OFF/Hi/Low Operation

Control Board

- Electronic Ignition
- Pilot Lockout safety feature
- Electric Power Regeneration from Thermopile to save battery
- 6-hour Automatic Shut Down Option
- Convenient NG/LP Gas Type Conversion
- Standing Pilot/Intermittent pilot Conversion
- Previous settings Restoration Ability
- Uninterrupted Operation During Power Outage (Automatic Battery Backup)
- ON/OFF RF Remote Receiver
- Optional Transmitter Learn Capability

AC Module

- Easy Snap-on Design
- Embedded Compact 120 V AC Adapter with Auto Battery Back up Feature
- Remote Controlled Blower, Lighting, and Auxiliary AC Outputs

Transmitter

RFSC

Three Flame Height Settings	X
Low battery Indication for Transmitter	X
Child Proof Lock-out	X
LCD Backlight	X
Security Codes	X
Thermostatic Control Mode	X
Three Brightness Settings for Lights	X
Three Speed Control for Blower	X
On/Off AUX Control	X
Programmable Timer to turn blower on and off	X

BATTERY INSTALLATION

The Command Center uses four (4) "AA" batteries.

To Install Batteries:

1. Press down the battery door tabs and pull out to remove battery door.
2. Install the batteries as indicated on Command Center.
3. Close battery door by snapping in place.
4. When the four (4) batteries are installed the system is ready for use.
5. The batteries should be replaced when the LED indicates low battery.

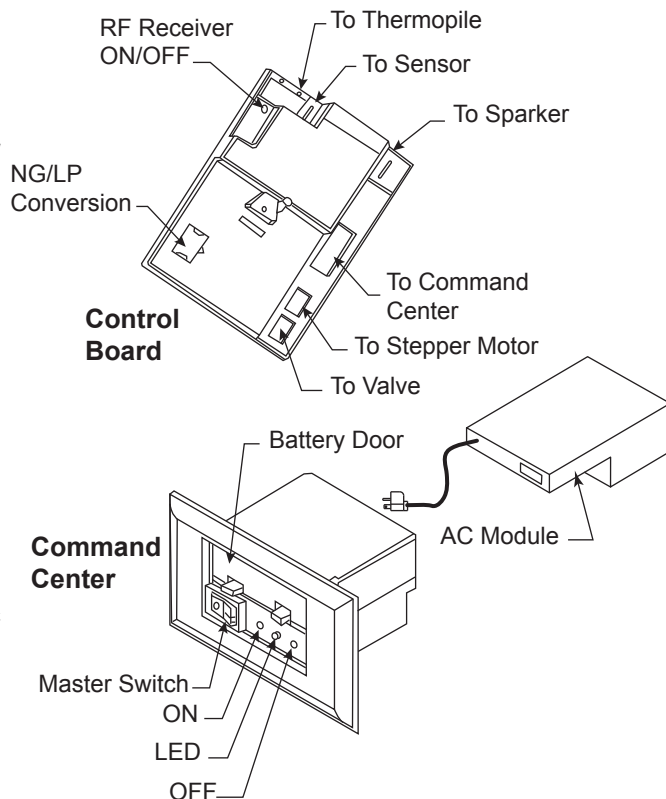


Figure 38 - Signature Command System Components

SYSTEM CONFIGURATION/SETUP

System configuration/setup is done on the Command Center.

Intermittent/Standing Pilot Setup (Default intermittent)

1. Holding the ON button on the Command Center while turning on the master switch will toggle between standing pilot and intermittent pilot.
2. After the above operation, one beep (for standing pilot) or two beeps (for intermittent pilot) will be given as confirmation.

Six-hour Safety Shutdown Option (Default ON)

1. The system comes preset from the factory with a six (6) hour shutdown from its last command of operation. This is done to prevent the fireplace from continuing to operate if unattended. You may disable this feature if you wish.

NOTE: By disabling this feature, your fireplace may continue to operate unattended.

2. When the master switch is in the ON position ("—"), pressing the ON button and the OFF button on the Command Center simultaneously will toggle between enabling and disabling the six-hour shutdown option.
3. After the above operation, one beep (for enabling the six-hour shutdown option) or two beeps (for disabling the six-hour shutdown option) will be given as confirmation.

Remote Transmitter Learn Function (Default ON)

1. The RF receiver button located on the control board must be in the on position before the learn function can begin. Use paper clip to depress button. One beep for RF receiver ON or two beeps for RF receiver OFF will be given as confirmation.
2. After the RF receiver is ON, holding the OFF button on the Command Center while turning on the master switch will activate the learn function for the transmitter.
3. After the above operation, two beeps will be given and the green LED on the Command Center will flash for 10 seconds.
4. During the 10 seconds, press the OFF button on a transmitter to learn. Another two beeps will be given to confirm a successful learning.

Shutting Off the Standing Pilot

To shut off the standing pilot for service or summer shut down, press and hold the ON button on the Command Center for 3 seconds when the master switch is in the ON position ("—") and the main burner is off.

Note: Pilot will resume the next time system is turned on.

Key Combinations for System Settings

Function	Operation	Default Setting
Intermittent/Standing Pilot Setup	Hold the ON ▲ button while turning on the master switch (Beep once for standing pilot, twice for intermittent pilot)	Intermittent Pilot
Standing Pilot Temp. Shutoff	Hold the ON ▲ button 3 seconds (when the master switch on the main burner is off)	
RF Remote Receiver On/Off	Push the RF receiver On/Off button on the control board Beep once for ON and beep twice for OFF	RF ON
Learn Remote Transmitter	Hold the OFF ▼ button while turning on the master switch (Beep twice then press any handheld remote button)	
6-hour safety shutdown setup	Press the ON ▲ button and OFF ▼ button simultaneously (Beep once for ON, twice for OFF)	ON

COMMAND CENTER FUNCTIONS/OPERATION

Turning on the fireplace

1. Turn on the master switch and wait for a beep.
2. Press the ON button on the Command Center. Pilot will light and burner will come on High setting.

Pilot Safety Lockout Function

1. If the pilot doesn't light after sparking for 30 seconds, pilot trial lockout happens. The LED on the Command Center flashes Green once every 2 seconds, until reset.
2. If the pilot flame is lost during normal operation, flame loss lockout happens. The LED on the Command Center flashes Red-Green once every 2 seconds, until reset.
3. Turning the master switch OFF, then ON again will reset the system.

Flame Height Control

1. Press the ON button (on the Command Center) once to turn on the main burner with maximum flame height.
2. Press the OFF button to decrease flame height. The first two presses will decrease the flame height to medium and low.
3. The third press on OFF will turn off the main burner. In standing pilot configuration, the pilot will stay; in intermittent pilot configuration, the pilot will be shut off.

Turning the Fireplace Off

There are three ways to turn the fireplace off. (This will turn the entire system OFF.)

1. Flip the master switch to the off ("O") position
2. Press the OFF button to Medium, Low, then Off.
3. Hold the OFF button anytime for three seconds. This command of OFF will remember all last settings before turning off. The next time the fireplace is turned on, all settings will resume. (Memory OFF)

Command Center Operations:

The following functions are available on the Command Center.

Function	Operation
Power Up	Flip the master switch to the ON (" ") position to power up the system
Fireplace ON	Press the ON ▲ button on the Command Center to turn the fireplace on
Fireplace OFF	Flip the master switch to the OFF ("o") position OR press the OFF ▼ button 3 times OR hold the OFF ▼ button 3 seconds (Memory OFF)
Flame Height Up	Press the ON ▲ button once to turn on the fireplace with maximum flame height
Flame Height Down	Press the OFF ▼ button to lower the flame height to Medium and Low

Self Diagnostics Chart:

The Command Center has a self-diagnostic LED enabling you to troubleshoot problems and potentially avoid a service call. Please refer to the charts below for indicator reference.

Fault	LED Indication
Conversion Cover Missing	One RED (1 time)
Spark Fail	Two RED (1 time)
No Sensor Signal	Three RED (1 time)
Pilot Lockout - trial	One GREEN, every 2 sec. (until manual reset)
Pilot Lockout - flame loss	One RED-GREEN, every 2 sec. (until manual reset)
Low Battery	One RED, every 10s (continuously)
No or Low Thermopile Power	Two RED, every 10s (continuously)
Learning	GREEN Flashes, every 1 sec. (for 10 sec.)
AC Power On	GREEN solid

REMOTE TRANSMITTER OPERATIONS

General

Figure 39

The RFSC Remote Control has two (2) operating modes: Manual and Thermostatic. The control system can be set to a temperature range between 45° F and 90° F. The blower speed, light, rear burner shut down and flame height can be adjusted in either the manual and thermostatic mode.

The transmitter will operate the remote receiver from 12" to a maximum of 30'. **NOTE:** The distance decreases when the batteries are low.

Initial Startup

Figure 40

1. After initial power up or when RESET button is pressed, the transmitter is reset. The reset button is located behind the battery door of transmitter.
2. During system reset, all features of the LCD DISPLAY will be visible. After one second, the LCD will be initialized. A typical reset display is shown in *Figure 49*. Note that the temperature scale is degree F.
3. Press ON button to select between °C and °F display. It will exit setting mode automatically after 10 seconds if no key is pressed. The transmitter will send an OFF signal after reset.
4. After reset, the transmitter is operating in manual mode. The room temperature is shown.

Manual Mode

Figure 41

1. Press the ON button once to turn on the appliance with max flame height.
2. Press the OFF button to decrease flame height. The first two (2) presses will decrease flame height to lower level. The third press will turn off the fireplace.
3. If OFF button is held for more than three (3) seconds, the fireplace will be shut off and remembers the last flame height setting. It will also remember light and auxiliary settings. To reset, change setting and hold OFF button for 3 seconds. New setting is now remembered.

Thermostatic Mode

Figure 42

1. Press the AUTO button to enter the thermostatic mode.
2. In thermostatic mode, press the ON / ▲ button or OFF / ▼ button to set the desired set temperature.
3. Once the setting is completed, the transmitter will automatically turn on the fireplace when the room temperature is below the set temperature and turn off the fireplace when the room temperature is above the set temperature within 1 degree.
4. There will be a slight delay in the response of the unit (on/off) to a temperature. Room temperature is monitored every three (3) minutes.
5. Press AUTO button to exit the thermostatic mode. The transmitter will be in the manual off mode and the fireplace will be shut off.

NOTE: When thermostat mode is used, the command center ON/OFF buttons will not function, only the master switch will function.

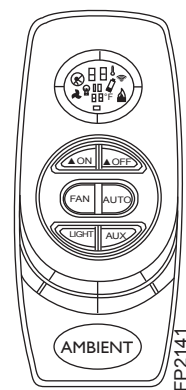


Figure 39 - Remote Transmitter

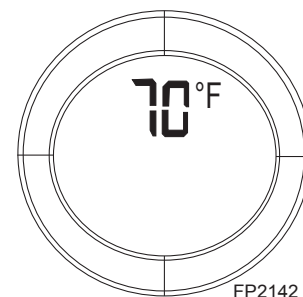


Figure 40 - Typical Reset Display

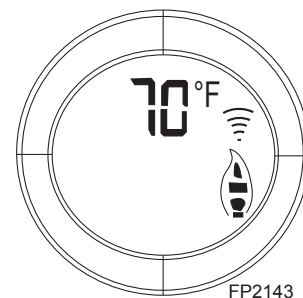


Figure 41 - Manual Mode

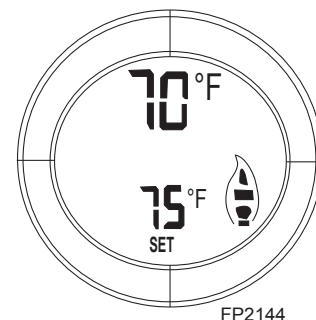


Figure 42 - Thermostatic Mode

Flame Height Setting for Thermostatic Mode

Figure 43

1. Hold AUTO button for five (5) seconds and one number and flame icon will appear in LCD screen.
2. Use the ON / ▲ or OFF / ▼ button to set the desired flame height to 1 (min.) 2 (medium) or 3 (max.).
3. If there is no input within three (3) seconds, the new setting will be transmitted to the receiver. This setting only affects auto mode operation.
4. The default setting for transmitter is 2 (medium).

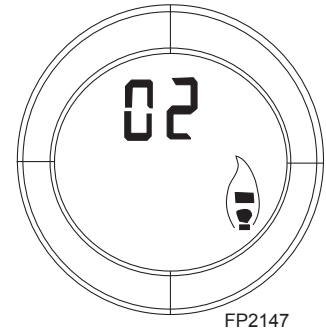


Figure 43 -
Flame Height Setting Display

3-Speed Blower Control (Optional)

Figure 44

NOTE: Blower works automatically with flame.

1. Press FAN button once to enter blower speed setup mode at low speed initially and one of the three blade icons will display darken on LCD display. *Figure 53*
2. Continue to press FAN button to set up the blower speed you desire.
3. If there is no input within three (3) seconds, the new setting will be transmitted to receiver. If the fireplace is on, the blower speed will take effect right away; if the fireplace is off, the receiver will remember this setting and blower is still off.
4. If you continue to press FAN button to the position that all blades are gone, the FAN icon will disappear and turn the blower off.

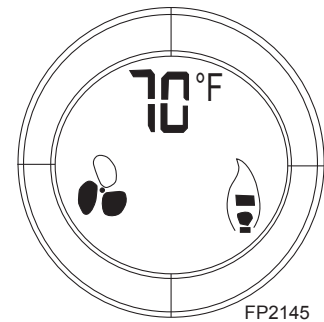


Figure 44 -
3 Speed Blower Control

Blower On Delay Time and OFF Delay Time Setting (Default 5 ON / 8 OFF)

Figure 45

1. Hold FAN button for three (3) seconds and two (2) numbers will appear in the LCD screen. The upper one is ON Delay Time and the bottom is OFF Delay Time in minutes.
2. Use the ON / ▲ button to set the desired On Delay Time from 0 to 15 minutes.
3. Use the OFF / ▼ button to set the desired Off Delay Time from 0 to 15 minutes.

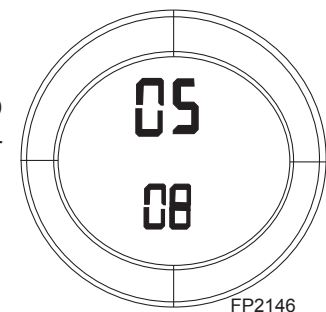


Figure 45 -
Blower Delay Timer Display

3-Level Light Brightness Control

Figure 46

1. Press LIGHT button once to change light brightness to low and one of the three levels will display dark on LCD.
2. Continue to press LIGHT button to set up the light brightness you desire.
3. If there is no input within three (3) seconds, the new setting will be transmitted to the receiver.
4. If you continue to press LIGHT button, the LIGHT icon will disappear and turn the light off.

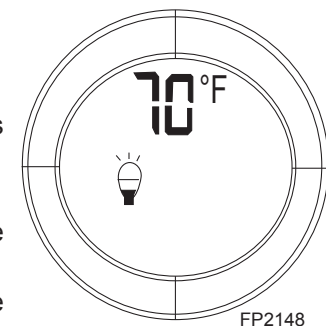


Figure 46 -
Light Brightness Display

ON/OFF AUX Control (Optional)

Figure 47

1. Press AUX button once to turn ON. AUX shows on the LCD.
2. Press AUX button again to turn OFF. AUX icon disappears.

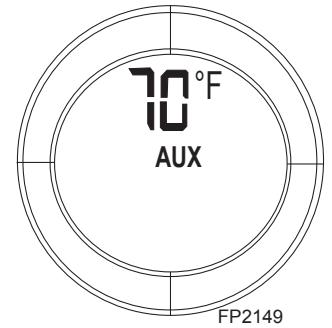


Figure 47 -
AUX Display

Low Battery Detection

Figure 48

1. Battery voltage is checked once a minute. When the battery voltage drops to a certain level, the low-battery icon will display on LCD, and the transmitter will turn off the fireplace. The transmitter will not function anymore until fresh batteries are installed.
2. When the batteries are low, the LCD displays a low battery indicator. The low battery indicator will be displayed in any mode.
3. The transmitter will not operate with low batteries. Change the batteries before the batteries are too weak for normal operation. Turn the unit OFF before replacing batteries.

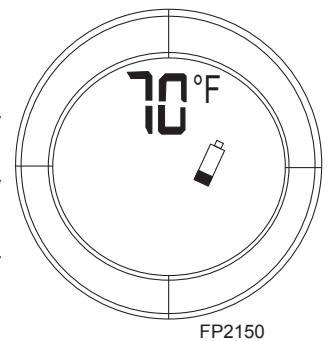


Figure 48 -
Low Battery Display

Child-Proof Protection

Figure 49

1. Press and hold the ON and OFF buttons simultaneously for three (3) seconds to enter child proof mode. Figure K
2. The transmitter will not send a signal again until the childproof mode is deactivated by pressing the ON and OFF buttons simultaneously for three (3) seconds to exit child proof mode and the Childproof indicator disappears from LCD.

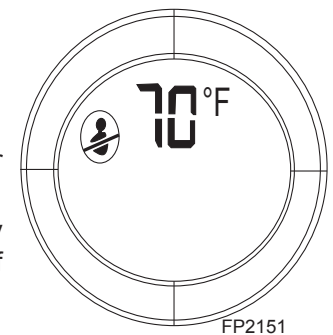


Figure 49 -
Child Protection Display

Transmitter Thermal Shutdown

Figure 50

1. If transmitter measures a room temperature exceeding 99° F, the LCD will display "HI" and the transmitter will turn off the fireplace.
2. Transmitter will not function until the room temperature has dropped below 99° F. If transmitter measures a room temperature less than 40° F, the LCD will display "LO" and NO SIGNAL will be sent to turn on the fireplace.

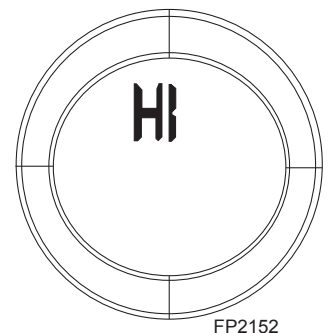


Figure 50 -
Thermal Shutdown Display

WARNING

Turn off gas before servicing fireplace. It is recommended that a qualified service technician perform these check-ups at the beginning of each heating season

BURNER, PILOT AND CONTROL COMPARTMENT

Keep the control compartment, stones and burner areas surrounding the stones clean by vacuuming or brushing at least twice a year. Make sure the burner porting, pilot air opening and burner air opening are free of obstructions at all times.

PILOT FLAME

The flames from the pilot should be visually checked as soon as the heater is installed and periodically during normal operation. **The pilot flame must always be present when the fireplace is in operation.** *Figure 51.* The pilot flame has three distinct flames, one engulfing the sensor, one engulfing the thermocouple, and the other reaching to the main burner.

BURNER

Inspect area around the injector. Remove any lint or foreign material with a brush or vacuum.

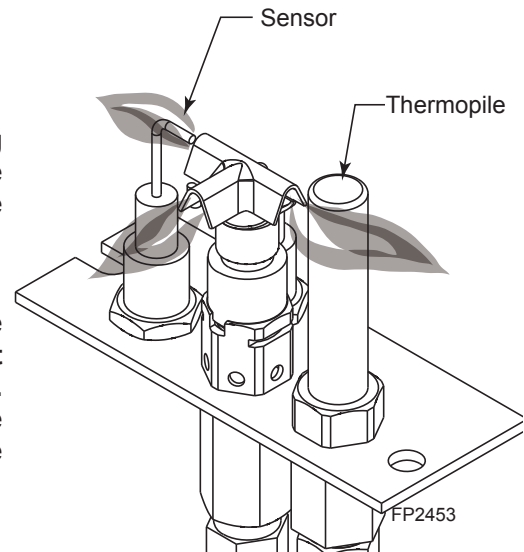


Figure 51 - Pilot Flame

BURNER FLAME

The flames from the burner should be visually checked as soon as the heater is installed and periodically during normal operation. In normal operation, at full rate, and after operating for about 15 to 30 minutes, the flame should be yellow. *Figure 52*

If the flame is blue and candle-like in appearance, adjust glass or add more glass over ports.

NOTE: The type of installation, vent system configuration, and wind effects may cause the flame patterns to vary.



Figure 52 - Burner Flame Appearance

FP2436

VENT SYSTEM

The fireplace and venting system should be inspected before initial use and at least annually by a qualified field service person. Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the airflow. Inspect entire venting system to ensure proper function.

GLASS DOOR

Thoroughly clean the inside of the glass door after using the fireplace for two hours. Periodically clean the glass door as necessary.

When cleaning the glass, remember:

- **Do not remove the glass when hot.** Allow glass to cool before removal.
- NEVER use abrasive materials.
- Keep children and pets a safe distance away.
- Never operate the fireplace without the glass door properly secured.
- Never operate the fireplace if the glass is broken.
- Replace any glass that is chipped, cracked, or broken. Replacement glass door assemblies MUST be supplied by the fireplace manufacturer – **No substitute materials may be used.**
- Handle glass door with care to avoid striking or scratching it on hard objects.

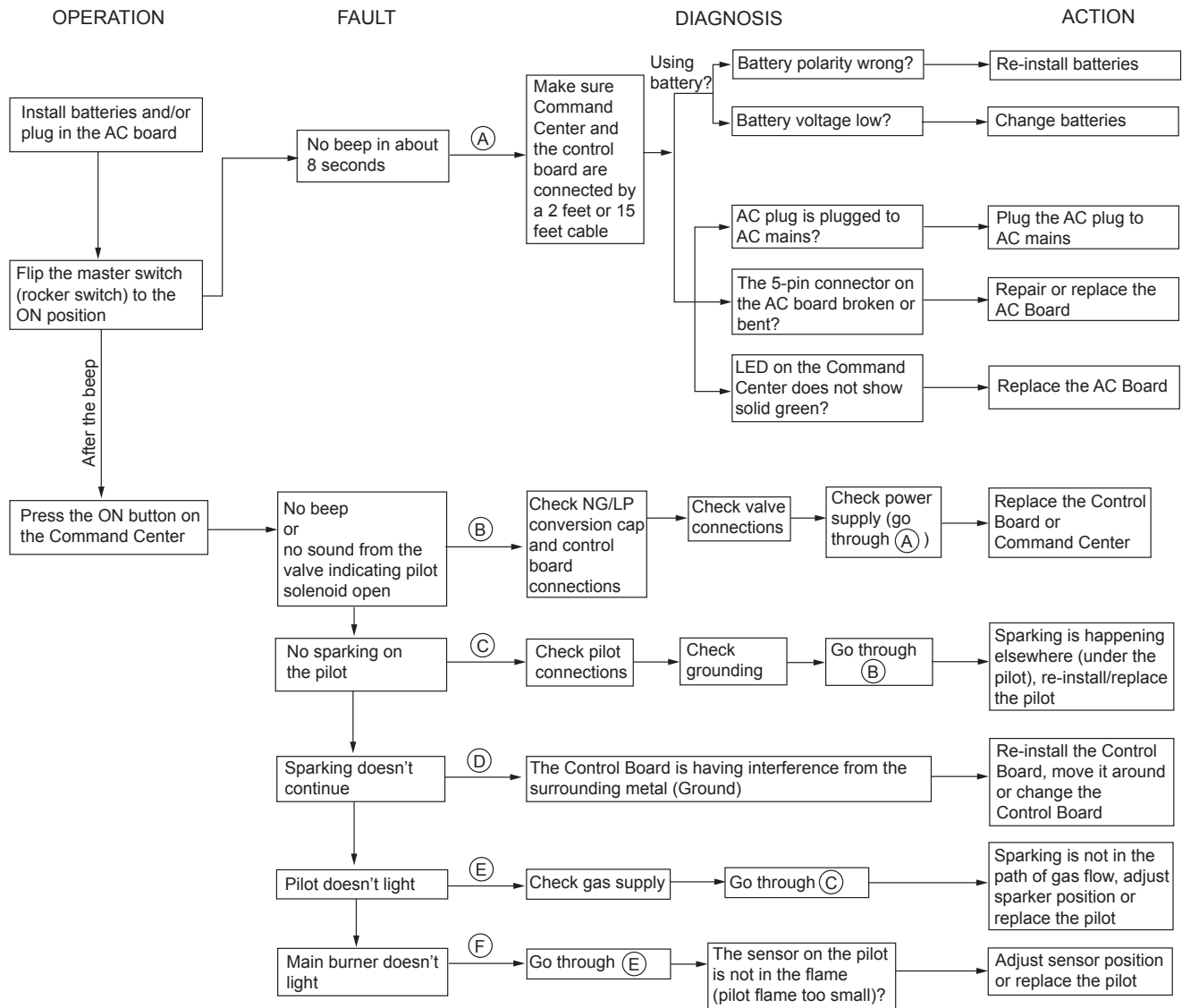
To clean glass door, follow “Glass Removal” procedure outlined in the *Final Installation* section. Film deposit on the inside of the glass should be cleaned off using a nontoxic, non-corrosive, non-abrasive, mild-cleaning solution. Simply apply an adequate amount to the glass and wipe off with a damp cloth. After all maintenance has been completed, re-install glass door.

STONES

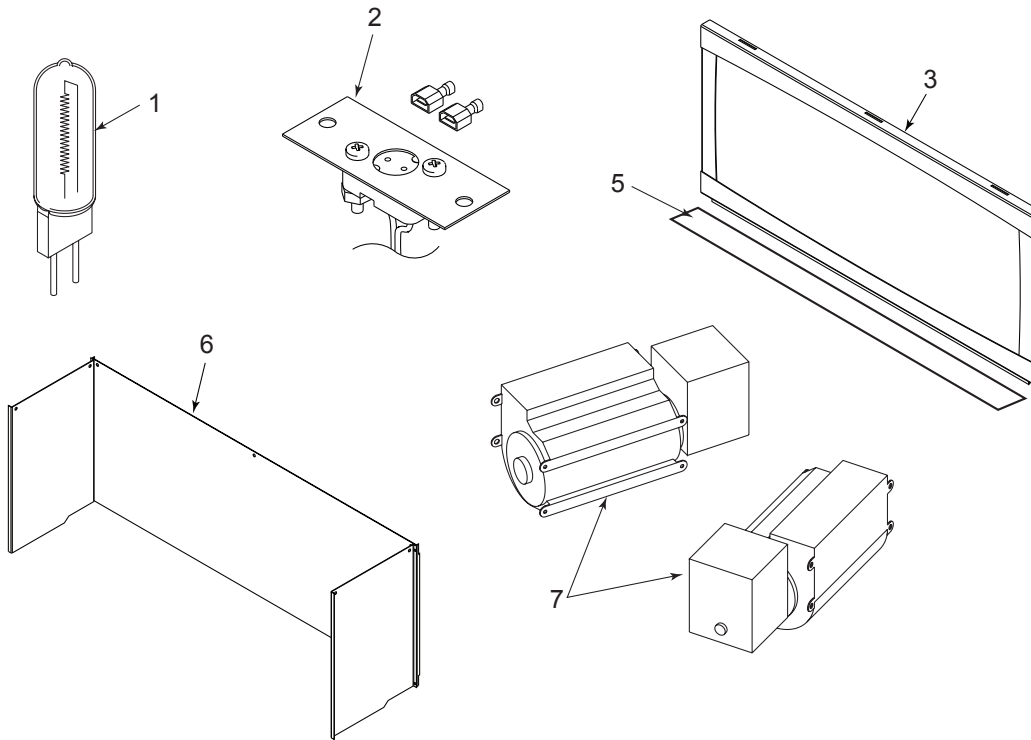
Vacuum surface of the stones with a brush attachment. If stones must be removed for cleaning, handle carefully by holding gently at each end. Gloves are recommended to prevent skin irritation from ceramic fibers. If skin becomes irritated, wash gently with soap and water. Vacuum surface of stones with brush attachment or brush logs with a soft bristly (i.e. clean, dry paintbrush). To place stones in the fireplace, refer to Stone Placement section on *Page 27*.

NOTE: Do not use fluids to clean ceramic fiber stones.

SIGNATURE COMMAND SYSTEM

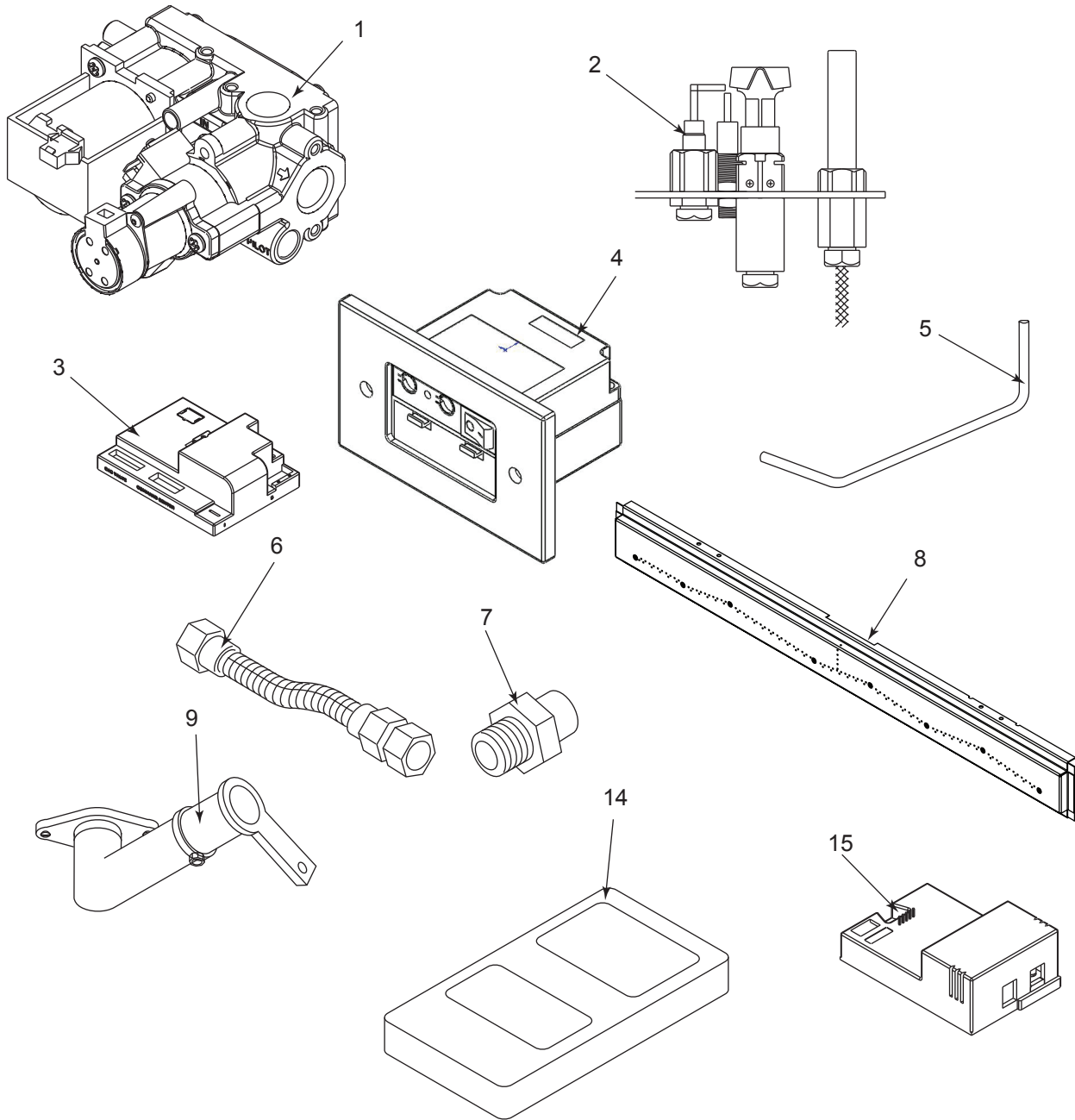


FIREBOX COMPONENTS AND ACCESSORIES



Item	Description	Qty.	WDV500
1.	Bulb	6	78D0007
2.	Bulb Socket	6	73D4521
3.	Glass Frame Assembly	1	78D0027
4.	Junction Box Assembly (not shown)	1	26D2128
5.	Panel, Access, Door	1	78D0040
Accessories / Field Installed Options			
6.	Porcelain Panels	1	FBWDV500CR
7.	Blower Kit (Signature Command System)	1	BLOTBLDVSC
8.	Aged Driftwood	1	ADW500

SIGNATURE COMMAND SYSTEM



SIGNATURE COMMAND SYSTEM

Item	Description	Qty.	WDV500NTSC	WDV500PTSC
1.	Gas Valve Assembly	1	80D0001	80D0002
2.	Pilot Assembly	1	80D0006	80D0007
3.	Control Box	1	80D0018	80D0018
4.	Command Center	1	80D0005	80D0005
5.	Tube, Tee to Venturi	2	78D0090	78D0090
5.	Tube, Tee to Valve	1	78D0091	78D0091
6.	Flexhose w/Shutoff Valve	1	69D0030	69D0030
7.	Injector	2	59D0062	69D0226
8.	Burner Assembly	1	78D0033	78D0033
9.	Venturi	2	69D1026	69D1026
10.	Air Shutter (not shown)	2	69D1027	n/a
11.	Wire Valve/Control (not shown)	1	80D0010	80D0010
12.	Wire AC Module (not shown)	1	80D0009	80D0009
13.	Wire Command Ctr. (not shown)	1	80D0008	80D0008
14.	Remote Transmitter (full function)	1	RFSC	RFSC
15.	AC Module	1	SCSACM	SCSACM

Fuel Conversion Kits - Signature Command System

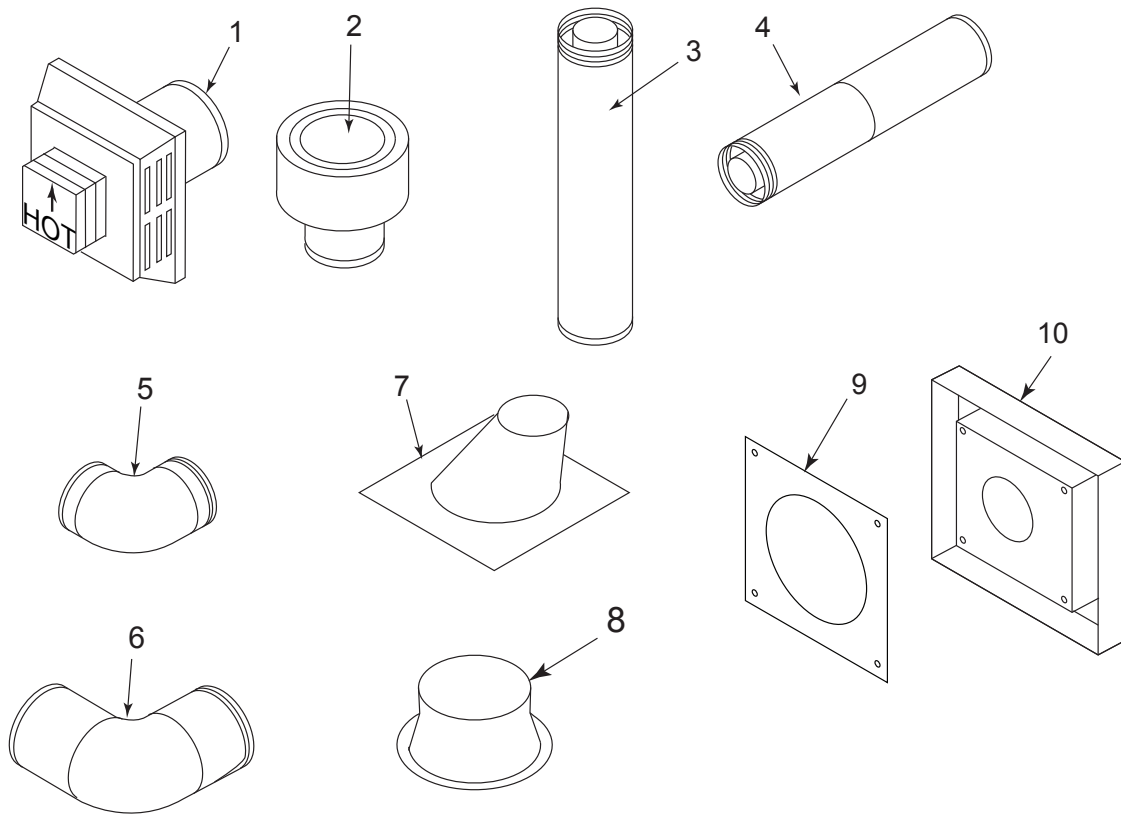
Natural Gas to LP

WDV500 Kit #KHL500CKPS

LP to Natural Gas

WDV500 Kit #KHL500CKNS

VENT COMPONENTS



VENT COMPONENTS FOR 5" X 8"

Item	Qty./ Box	Description	Current Simpson Duravent or MHSC Part no.	Old Simpson Duravent or MHSC Part no.	Selkirk Part no.
1	1	Horizontal High Wind Termination Cap	58DVA-HC	1285	5DT-HC
1	1	Horizontal Termination Cap Built-In Vinyl Siding Standoff, Heat Deflector, Firestop, 90° Elbow and Adjustable Pipe 11" to 14 ^{5/8} "		BHS8TK	
1	1	Horizontal Termination Cap w/Built-In Vinyl Siding Standoff, Heat Deflector, Firestop, Flexible Pipe 20" to 48", Adapter		BHSF8TKA	
1	8	Horizontal Termination w/ 1" Firestop		BHRST/8	
2	1	Vertical Termination	58DVA-VC	1280	5DT-VC
3	4	6" Pipe Length	58DVA-06	1208	5DT-06
3	4	9" Pipe Length	58DVA-09	1207	5DT-09
3	4	12" Pipe Length	58DVA-12	1206	5DT-12
3	4	24" Pipe Length	58DVA-24	1204	5DT-24
3	4	36" Pipe Length	58DVA-36	1203	5DT-36
3	4	48" Pipe Length	58DVA-48	1202	5DT-48
4	4	8 ^{1/2} " Pipe Extension	58DVA-08A	--	5DT-AJ
4	4	16" Pipe Extension	58DVA-16A	--	--
5	4	45° Elbow	58DVA-E45	1245	5DT-EL45
5	4	45° Swivel Elbow	--	--	5DT-EL45
6	4	90° Elbow	58DVA-E90	1290	5DT-EL90S
6	4	90° Swivel Elbow	--	1290G	5DT-EL90S
7	6	Flashing, 0/12 to 6/12 Roof Pitch	58DVA-F6	1243	5DT-AF6
7		Steep Roof Flashing	58DVA-F12	1243S	--
8	6	Storm Collar	58DVA-SC	1253	5DT-SC
9	4	Firestop	58DVA-FS	1263	5DT-FS
9	1	1" Firestop	58DVA-FS	--	--
10	1	Vinyl Siding Standoff	58DVA-VSS	1250	5DT-VS
11		Attic Insulation Shield (not shown)	58DVA-IS	--	--
12	8	Flex Adapter Starter (not shown)	DVF8A/8	--	--

STONES

Item	Description	Qty.	WDV500
1.	White Stone #1	5	78D0122
2.	Light Gray Stone #2	5	78D0123
3.	Dark Gray Stone #3	5	78D0124
4.	Brown Stone #4	5	78D0125
5.	Sand Stone #5	5	78D0126
6.	Tan Stone #6	5	78D0127

Requirements for the Commonwealth of Massachusetts

This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts.

Note Regarding Vented Products

Flex line installation must not exceed 36 inches and must have a T shutoff valve.

Any residence with a direct vent product must have a CO detector installed in the residence.

Installation of the fireplace or vented gas log in the State of Massachusetts requires the damper to be permanently removed or welded in the fully open position.

In addition, neither a naturally vented gas log nor a vent-free product may be installed in a bedroom or bathroom in the State of Massachusetts.

All gas fitting and installation of this heater shall only be done by a licensed gas fitter or licensed plumber.

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and ANSI/UL 2034 listed and IAS certified.

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, **“GAS VENT DIRECTLY BELOW, KEEP CLEAR OF ALL OBSTRUCTIONS”**.

Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled “Equipment Not Required To Be Vented” in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies “special venting systems”, the following requirements shall be satisfied by the manufacturer:

- The referenced “special venting system” instructions shall be included with the appliance or equipment installation instructions; and
- The “special venting systems” shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

LIMITED LIFETIME WARRANTY POLICY

LIFETIME WARRANTY

The following components are warranted for life to the original owner, subject to proof of purchase: Firebox, Combustion Chamber, Heat Exchanger, Grate and Stainless Steel Burners.

FIVE YEAR WARRANTY

The following components are warranted five (5) years to the original owner, subject of proof of purchase: Ceramic Fiber Logs.

BASIC WARRANTY

MHSC warrants the components and materials in your gas appliance to be free from manufacturing and material defects for a period of two years from date of installation. After installation, if any of the components manufactured by MHSC in the appliance are found to be defective in materials or workmanship, MHSC will, at its option, replace or repair the defective components at no charge to the original owner. MHSC will also pay for reasonable labor costs incurred in replacing or repairing such components for a period of two years from date of installation. Any products presented for warranty repair must be accompanied by a dated proof of purchase.

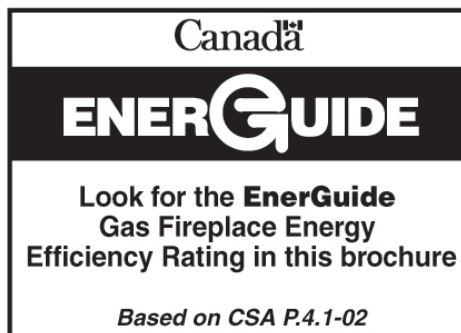
This Limited Lifetime Warranty will be void if the appliance is not installed by a qualified installer in accordance with the installation instructions. The Limited Lifetime Warranty will also be void if the appliance is not operated and maintained according to the operating instructions supplied with the appliance, and does not extend to (1) firebox/burner assembly damage by accident, neglect, misuse, abuse, alterations, negligence of others, including the installation thereof by unqualified installers, (2) the costs of removal, reinstallation or transportation of defective parts on the appliance, or (3) incidental or consequential damage. All service work must be performed by an authorized service representative.

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. MHSC does not assume for it any other obligations or liabilities in connection with sale or use of the appliance. It states that do not allow limitations on how long an implied warranty lasts, or do not allow exclusion of indirect damage, those limitations of exclusions may not apply to you. You may also have additional rights not covered in the Limited Lifetime Warranty.

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

IF WARRANTY SERVICE IS NEEDED...

1. Contact your supplier. Make sure you have your warranty, your sales receipt and the model/serial number of your MHSC product.
2. DO NOT ATTEMPT TO DO ANY SERVICE WORK YOURSELF.



Efficiency Ratings	
Model	EnerGuide Ratings Fireplace Efficiency (%)
WDV500NTSC	n/a
WDV500PTSC	n/a

MHSC

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