

INSTALLER: LEAVE THIS MANUAL WITH THE APPLIANCE.
CONSUMER: RETAIN THIS MANUAL FOR FUTURE REFERENCE.



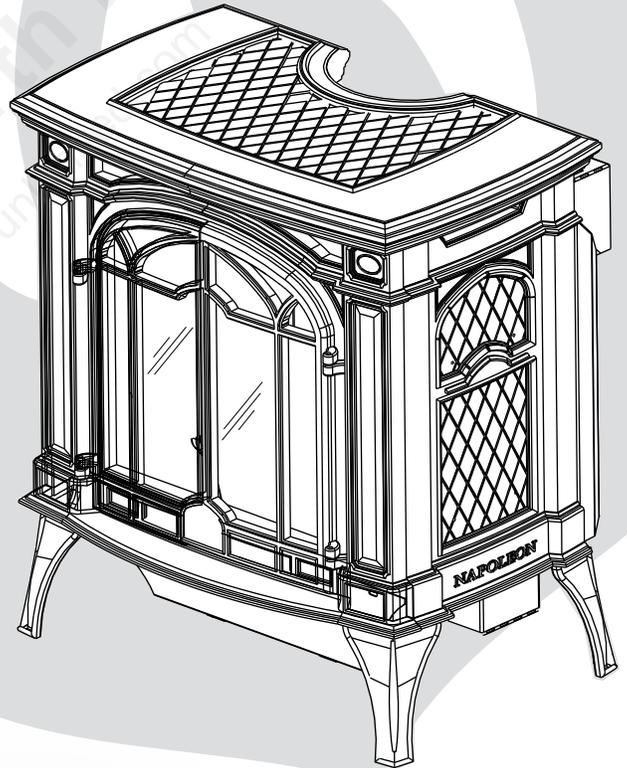
INSTALLATION AND OPERATING INSTRUCTIONS

CERTIFIED UNDER CANADIAN AND AMERICAN NATIONAL STANDARDS: ANSI Z21.88, CSA 2.33 FOR VENTED GAS FIREPLACE HEATERS.

GDS25N
NATURAL GAS

GDS25P
PROPANE

The Bayfield™



CERTIFIED FOR CANADA AND UNITED STATES USING ANSI/CSA METHODS.

SAFETY INFORMATION

WARNING

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 neighbour'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 supplier.



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1.0 INTRODUCTION

WARNING

- Do not operate heater before reading and understanding operating instructions. Failure to operate heater according to operating instructions could cause fire or injury.
- Risk of fire or asphyxiation do not operate heater with fixed glass removed.
- Do not connect 110 volts to the control valve.
- Risk of burns. The heater should be turned off and cooled before servicing.
- Do not install damaged, incomplete or substitute components.
- Risk of cuts and abrasions. Wear protective gloves and safety glasses during installation. Sheet metal edges may be sharp.
- Do not burn wood or other materials in this heater.
- Adults and especially children should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition. Supervise young children when they are in the same room as the heater.
- Clothing or other flammable material should not be placed on or near the heater.
- Due to high temperatures, the heater should be located out of traffic and away from furniture and draperies.
- Ensure you have incorporated adequate safety measure to protect infants/toddlers from touching hot surfaces.
- Even after the heater is out, the glass and/or screen will remain hot for an extended period of time.
- Check with your local hearth specialty dealer for safety screens and hearth guards to protect children from hot surfaces. These screens and guards must be fastened to the floor.
- Any safety screen or guard removed for servicing must be replaced prior to operating the heater.
- It is imperative that the control compartments, burners and circulating blower and its passageway in the heater and venting system are kept clean. The heater and its venting system should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. The heater area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Under no circumstances should this heater be modified.
- This heater must not be connected to a chimney flue pipe serving a separate solid fuel burning appliance.
- Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.
- Do not operate the heater with the glass door removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.
- Do not strike or slam shut the heater glass door.
- Pressure relief doors must be kept closed while the heater is operating to prevent exhaust fumes containing carbon monoxide, from entering into the home. Temperatures of the exhaust escaping through these openings can also cause the surrounding combustible materials to overheat and catch fire.
- Only doors / optional fronts certified with the unit are to be installed on the appliance.
- Keep the packaging material out of reach of children and dispose of the material in a safe manner. As with all plastic bags, these are not toys and should be kept away from children and infants.

NOTE: Changes, other than editorial, are denoted by a vertical line in the margin.

1.1 WARRANTY

NAPOLEON® products are manufactured under the strict Standard of the world recognized ISO 9001 : 2000 Quality Assurance Certificate.

NAPOLEON® products are designed with superior components and materials assembled by trained craftsmen who take great pride in their work. The burner and valve assembly are leak and test-fired at a quality test station. The complete heater is again thoroughly inspected by a qualified technician before packaging to ensure that you, the customer, receives the quality product that you expect from NAPOLEON®.

NAPOLEON® GAS FIREPLACE PRESIDENT'S LIFETIME LIMITED WARRANTY

The following materials and workmanship in your new NAPOLEON® gas heater are warranted against defects for as long as you own the heater. This covers: combustion chamber, heat exchanger, stainless steel burner, phazer™ logs and embers, rocks, ceramic glass (thermal breakage only), gold plated parts against tarnishing, porcelainized enameled components and aluminum extrusion trims.*

Electrical (110V and millivolt) components and wearable parts such as blowers, gas valves, thermal switch, switches, wiring, remote controls, ignitor, gasketing, and pilot assembly are covered and NAPOLEON® will provide replacement parts free of charge during the first year of the limited warranty.*

Labour related to warranty repair is covered free of charge during the first year. Repair work, however, requires the prior approval of an authorized company official. Labour costs to the account of NAPOLEON® are based on a predetermined rate schedule and any repair work must be done through an authorized NAPOLEON® dealer.

* Construction of models vary. Warranty applies only to items available with your specific heater.

CONDITIONS AND LIMITATIONS

NAPOLEON® warrants its products against manufacturing defects to the original purchaser only. Registering your warranty is not necessary. Simply provide your proof of purchase along with the model and serial number to make a warranty claim. NAPOLEON® reserves the right to have its representative inspect any product or part thereof prior to honouring any warranty claim. Provided that the purchase was made through an authorized NAPOLEON® dealer your heater is subject to the following conditions and limitations:

This factory warranty is non-transferable and may not be extended whatsoever by any of our representatives.

The gas heater must be installed by a licensed, authorized service technician or contractor. Installation must be done in accordance with the installation instructions included with the product and all local and national building and fire codes.

This limited warranty does not cover damages caused by misuse, lack of maintenance, accident, alterations, abuse or neglect and parts installed from other manufacturers will nullify this warranty.

This limited warranty further does not cover any scratches, dents, corrosion or discoloring caused by excessive heat, abrasive and chemical cleaners nor chipping on porcelain enamel parts, mechanical breakage of PHAZER™ logs and embers.

NAPOLEON® warrants its stainless steel burners against defects in workmanship and material for life, subject to the following conditions: During the first 10 years NAPOLEON® will replace or repair the defective parts at our option free of charge. From 10 years to life, NAPOLEON® will provide replacement burners at 50% of the current retail price.

In the first year only, this warranty extends to the repair or replacement of warranted parts which are defective in material or workmanship provided that the product has been operated in accordance with the operation instructions and under normal conditions.

After the first year, with respect to this President's Lifetime Limited Warranty, NAPOLEON® may, at its discretion, fully discharge all obligations with respect to this warranty by refunding to the original warranted purchaser the wholesale price of any warranted but defective part(s).

NAPOLEON® will not be responsible for installation, labour or any other expenses related to the reinstallation of a warranted part and such expenses are not covered by this warranty.

Notwithstanding any provisions contained in the President's Lifetime Limited Warranty, NAPOLEON'S responsibility under this warranty is defined as above and it shall not in any event extend to any incidental, consequential or indirect damages.

This warranty defines the obligations and liability of NAPOLEON® with respect to the NAPOLEON® gas heater and any other warranties expressed or implied with respect to this product, its components or accessories are excluded.

NAPOLEON® neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this product.

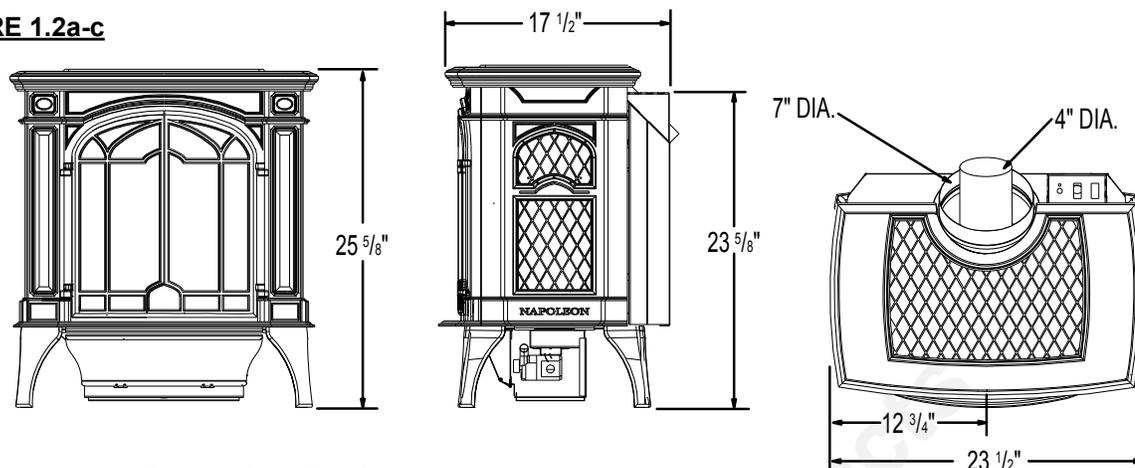
NAPOLEON® will not be responsible for: over-firing, downdrafts, spillage caused by environmental conditions such as rooftops, buildings, nearby trees, hills, mountains, inadequate vents or ventilation, excessive venting configurations, insufficient makeup air, or negative air pressures which may or may not be caused by mechanical systems such as exhaust fans, furnaces, clothes dryers, etc.

Any damages to heater, combustion chamber, heat exchanger, brass trim or other components due to water, weather damage, long periods of dampness, condensation, damaging chemicals or cleaners will not be the responsibility of NAPOLEON®.

ALL SPECIFICATIONS AND DESIGNS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE DUE TO ON-GOING PRODUCT IMPROVEMENTS. NAPOLEON® IS A REGISTERED TRADEMARK OF WOLF STEEL LTD. PATENTS U.S. 5.303.693.801 - CAN. 2.073.411, 2.082.915. © WOLF STEEL LTD.

1.2 DIMENSIONS

FIGURE 1.2a-c



1.3 GENERAL INSTRUCTIONS

! WARNING

Provide adequate accessibility clearance for servicing and operating the fireplace.

Provide adequate ventilation.

Never obstruct the front opening of the fireplace.

Objects placed in front of the fireplace must be kept a minimum of 48" from the front face of the unit.

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

THIS GAS FIREPLACE SHOULD BE INSTALLED AND SERVICED BY A QUALIFIED INSTALLER to conform with local codes. Installation practices vary from region to region and it is important to know the specifics that apply to your area, for example in Massachusetts State:

- The fireplace damper must be removed or welded in the open position prior to installation of a fireplace insert or gas log.
- The appliance off valve must be a "T" handle gas cock.
- The flexible connector must not be longer than 36 inches.
- A Carbon Monoxide detector is required in all rooms containing gas fired appliances.
- The appliance is not approved for installation in a bedroom or bathroom unless the unit is a direct vent sealed combustion product.

The installation must conform with local codes or, in absence of local codes, the National Gas and Propane Installation Code CSA B149.1 in Canada, or the National Fuel Gas Code, ANSI Z223.1 / NFPA 54 in the United States. Suitable for mobile home installation if installed in accordance with the current standard CAN/CSA Z240MH Series, for gas equipped mobile homes, in Canada or ANSI Z223.1 and NFPA 54 in the United States.

The fireplace and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). The fireplace must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).



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

The heater, when installed with a blower, must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA C22.1 CANADIAN ELECTRICAL CODE in Canada or the ANSI/NFPA 70 NATIONAL ELECTRICAL CODE in the United States.

1.4 GENERAL INFORMATION

The blower power cord must be connected into a properly grounded receptacle. The grounding prong must not be removed from the cord plug.

FOR YOUR SATISFACTION, THIS STOVE HAS BEEN TEST-FIRED TO ASSURE ITS OPERATION AND QUALITY!

Minimum inlet gas supply pressure is 4.5 inches water column for natural gas and 11 inches water column for propane. Maximum inlet gas pressure is 7 inches water column for natural gas and 13 inches water column for propane. When the valve is set to "HI", the manifold pressure under flow conditions is 3.5 inches water column for natural gas and 10 inches water column for propane. When the fireplace is installed at elevations above 4,500ft, and in the absence of specific recommendations from the local authority having jurisdiction, the certified high altitude input rating shall be reduced at the rate of 4% for each additional 1,000ft.

Expansion / contraction noises during heating up and cooling down cycles are normal and to be expected.

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.

Maximum input is 24,500 BTU/hr for natural gas. Maximum output for natural gas is 19,600 BTU/hr at an efficiency of 80%. Maximum input is 23,000 BTU/hr for propane. Maximum output for propane gas is 18,400 BTU/hr at an efficiency of 80%.

This stove is approved for closet or recessed installations, as well as for bathroom, bedroom and bed-sitting room installations and is suitable for mobile home installations. The natural gas model can be installed in a mobile home that is permanently positioned on its site and fueled with natural gas.

1.5 CARE OF GLASS AND PLATED PARTS

DO NOT CLEAN GLASS WHEN HOT! DO NOT USE ABRASIVE CLEANERS TO CLEAN GLASS OR PLATED PARTS.

Buff lightly with a clean dry soft cloth. Clean the glass after the first 10 hours of operation with a recommended fireplace glass cleaner.

Thereafter clean as required. If the glass is not kept clean permanent discoloration and / or blemishes may result.

Refer to "REPLACEMENT PARTS" to find out what this product is equipped with. Use only replacement glass available from your Authorized dealer.

DO NOT SUBSTITUTE MATERIALS.



2.0 VENTING

THIS HEATER USES A 4" EXHAUST / 7" AIR INTAKE VENT PIPE SYSTEM.

Refer to the section applicable to your installation.

For safe and proper operation of the heater follow the venting instruction exactly. Deviation from the minimum vertical vent length can create difficulty in burner start-up and/or carboning. Under extreme vent configurations, allow several minutes (5-15) for the flame to stabilize after ignition. Vent lengths that pass through unheated spaces (attics, garages, crawl spaces) should be insulated with the insulation wrapped in a protective sleeve to minimize condensation. Provide a means for visually checking the vent connection to the heater after the heater is installed. Use a firestop, vent pipe shield or attic insulation shield when penetrating interior walls, floor or ceiling.

! WARNING

Risk of fire, maintain specified air space clearances to vent pipe and appliance.

NOTE: If for any reason the vent air intake system is disassembled; reinstall per the instructions provided for the initial installation.

2.1 VENTING LENGTHS AND COMPONENTS

Use only Wolf Steel, Simpson Dura-Vent, Selkirk Direct Temp, American Metal Amerivent or Metal-Fab venting components. Minimum and maximum vent lengths, for both horizontal and vertical installations, and air terminal locations for either system are set out in this manual and must be adhered to. For Simpson Dura-Vent, Selkirk Direct Temp, American Metal Amerivent and Metal-Fab follow the installation procedure provided with the venting components.

A starter adaptor must be used with the following vent systems and may be purchased from the corresponding supplier:

PART	4"/7"	SUPPLIER	WEBSITE
Duravent	GDS924N	Wolf Steel	www.duravent.com
Amerivent	4DSCB-N1	American Metal	www.americanmetalproducts.com
Direct Temp	4DT-AAN	Selkirk	www.selkirkcorp.com
SuperSeal	4DNA	Metal-Fab	www.mtlfab.com

*** For Simpson Dura-Vent, Selkirk Direct Temp, American Metal Amerivent and Metal-Fab follow the installation procedure found on the website for your venting supplier.**

For vent systems that provide seals on the inner exhaust flue, only the outer air intake joints must be sealed using a red high temperature silicone (RTV). This same sealant may be used on both the inner exhaust and outer intake vent pipe joints of all other approved vent systems except for the exhaust vent pipe connection to the heater flue collar which must be sealed using the black high temperature sealant Mill Pac.

When using Wolf Steel venting components, use only approved Wolf Steel rigid / flexible components with the following termination kits: wall terminal kit **GD175** (7-1/2" of venting included), or wall terminal kit **GD176** (24" of venting included), or 1/12 to 7/12 pitch roof terminal kit **GD110**, 8/12 to 12/12 roof terminal kit **GD111**, flat roof terminal kit **GD112** or periscope kit **GD180** (for wall penetration below grade) in conjunction with the appropriate venting components.

For optimum flame appearance and heater performance, keep the vent length and number of elbows to a minimum. It is recommended that all horizontal runs have a minimum 1/4" rise per foot.

The air terminal must remain unobstructed at all times. Examine the air terminal at least once a year to verify that it is unobstructed and undamaged.

Different venting manufacturer components must not be combined.

These vent kits allow for either horizontal or vertical venting of the heater. The maximum number of 4" flexible connections is 3 horizontally or three vertically (excluding the heater and the air terminal connections). When terminating vertically, the minimum vertical rise is 3 feet above the heater and the maximum vertical rise is 40 feet. Deviation from the minimum vertical vent length can create difficulty in burner start-up and/or carboning. Use an adjustable pipe as the final length of rigid piping to the heater for ease of installation.

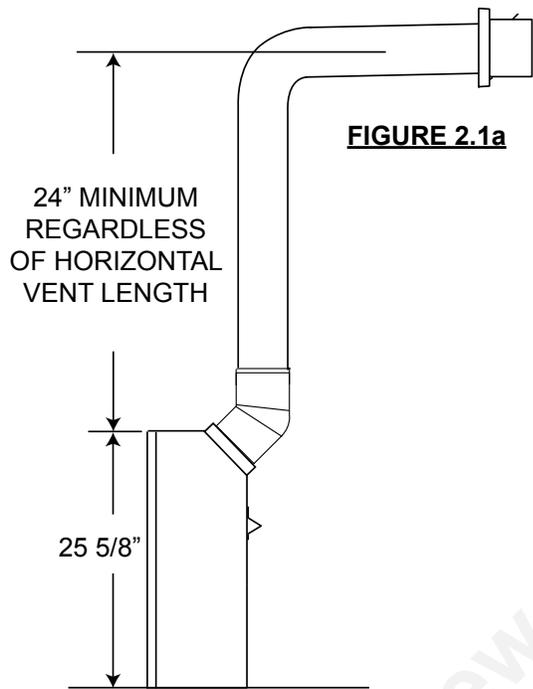
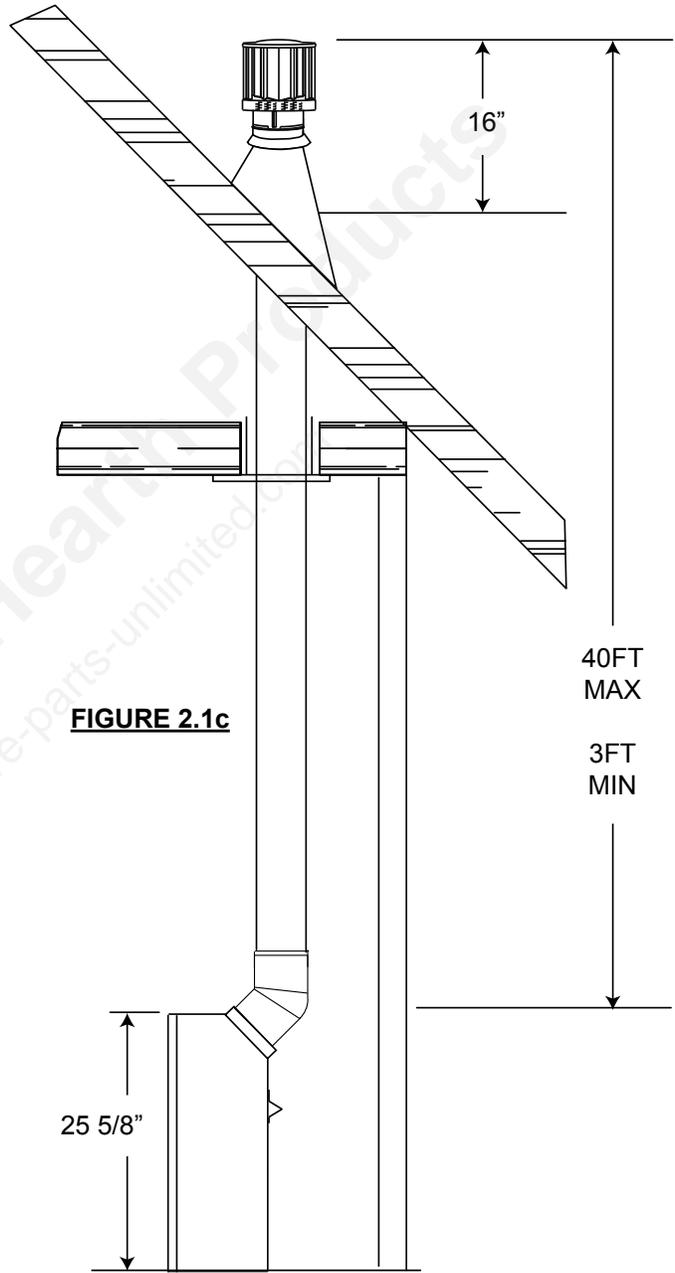
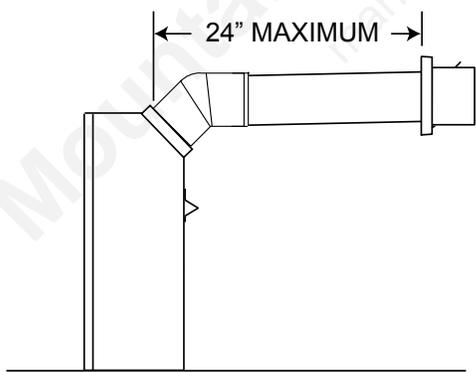


FIGURE 2.1b

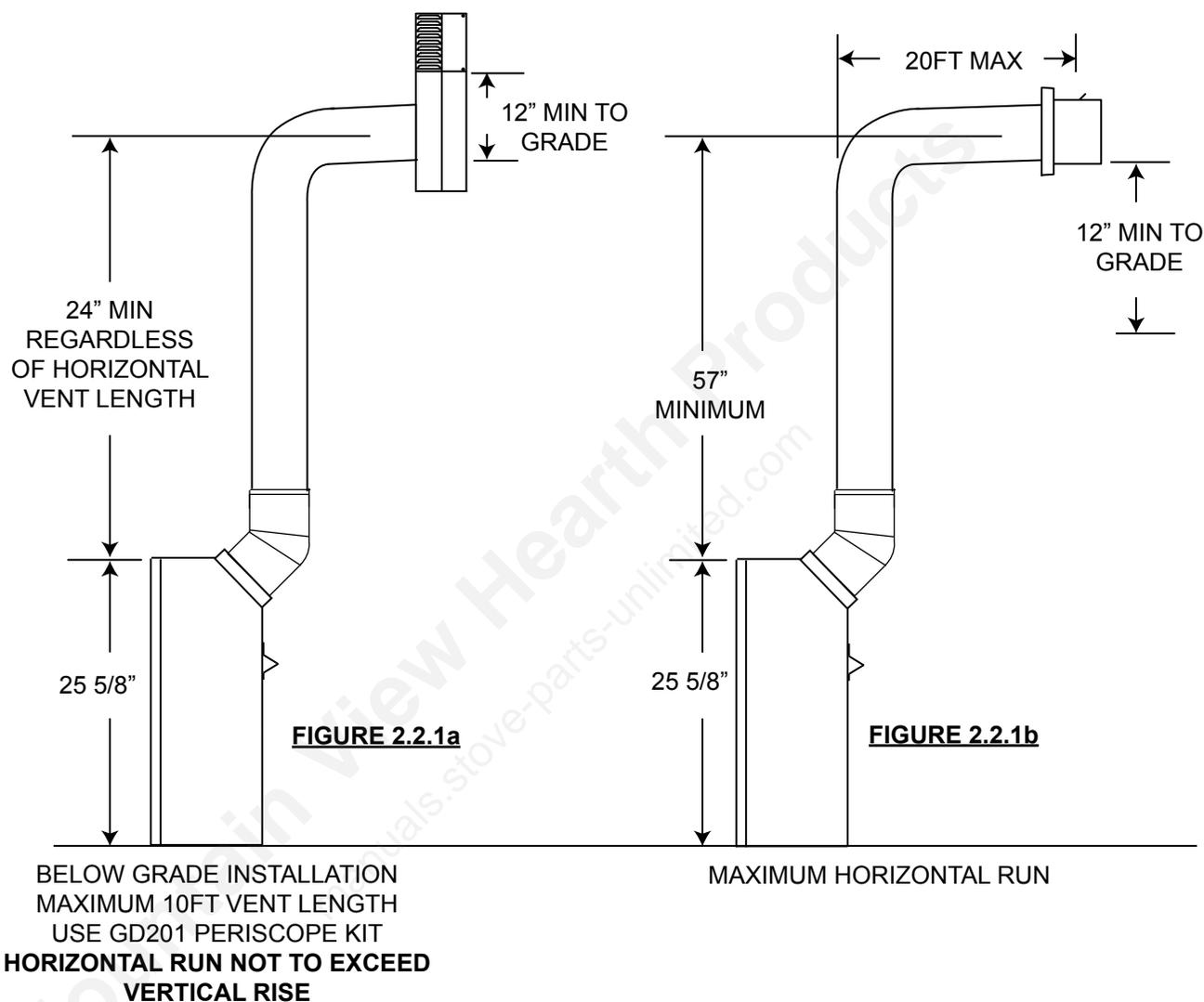


The maximum horizontal run with a 57" vertical rise immediately above the stove is 20 feet.

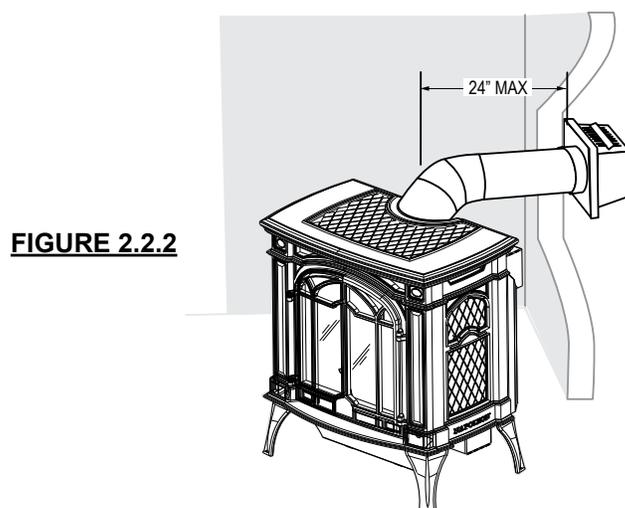
2.2 SPECIAL VENT INSTALLATIONS

2.2.1 PERISCOPE TERMINATION

Use the periscope kit to locate the air termination above grade. The periscope must be installed so that when final grading is completed, the bottom air slot is located a minimum of 12" above grade. The maximum allowable vent lengths depends on the heater, as illustrated.

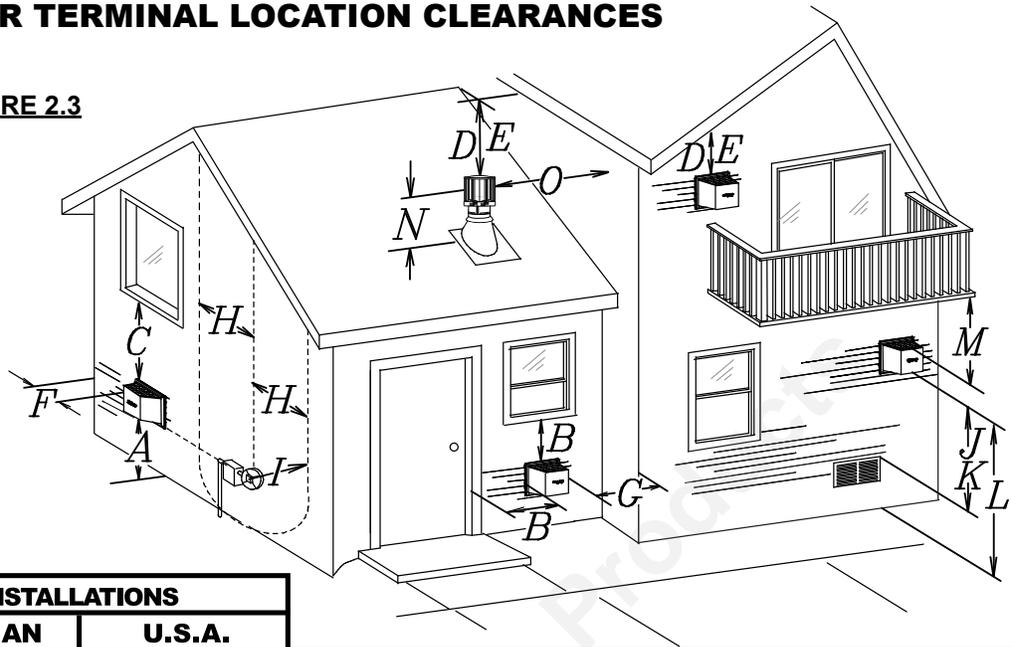


2.2.2 CORNER TERMINATION



2.3 MINIMUM AIR TERMINAL LOCATION CLEARANCES

FIGURE 2.3



INSTALLATIONS			
	CANADIAN	U.S.A.	
A	12 INCHES	12 INCHES	Clearance above grade, veranda, porch, deck or balcony.
B	12 INCHES	9 INCHES	Clearance to windows or doors that open.
C	12 INCHES*	12 INCHES*	Clearance to permanently closed windows.
D	18 INCHES**	18 INCHES**	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet from the centerline of the terminal.
E	12 INCHES**	12 INCHES**	Clearance to unventilated soffit.
F	0 INCHES	0 INCHES	Clearance to an outside corner wall.
G	0 INCHES***	0 INCHES***	Clearance to an inside <i>non</i> -combustible corner wall or protruding <i>non</i> -combustible obstructions (chimney, etc.).
	2 INCHES***	2 INCHES***	Clearance to an inside combustible corner wall or protruding combustible obstructions (vent chase, etc.).
H	3 FEET	3 FEET****	Clearance to each side of the centerline extended above the meter / regulator assembly to a maximum vertical distance of 15ft.
I	3 FEET	3 FEET****	Clearance to a service regulator vent outlet.
J	12 INCHES	9 INCHES	Clearance to a non-mechanical air supply inlet to the building or a combustion air inlet to any other appliance.
K	6 FEET	3 FEET†	Clearance to a mechanical air supply inlet.
L	7 FEET‡	7 FEET****	Clearance above a paved sidewalk or paved driveway located on public property unless fitted with a heat shield kit GD-301.
M	12 INCHES††	12 INCHES****	Clearance under a veranda, porch, deck or balcony.
N	16 INCHES	16 INCHES	Clearance above the roof.
O	2 FEET†*	2 FEET†*	Clearance from an adjacent wall including neighbouring buildings.

* Recommended to prevent condensation on windows and thermal breakage

** It is recommended to use a heat shield and to maximize the distance to vinyl clad soffits.

*** The periscope requires a minimum 18 inches clearance from an inside corner.

**** This is a recommended distance. For additional requirements check local codes.

† 3 feet above if within 10 feet horizontally.

‡ A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.

†† Permitted only if the veranda, porch, or deck is fully open on a minimum of two sides beneath the floor.

†* Recommended to prevent recirculation of exhaust products. For additional requirements check local codes.

NOTE: Clearances are in accordance with local installation codes and the requirements of the gas supplier.

2.4 DEFINITIONS

For the following symbols used in the venting calculations and examples are:

> - greater than

≥ - equal to or greater than

< - less than

≤ - equal to or less than

H_T - total of both horizontal vent lengths (H_R) and offsets (H_O) in feet

H_R - combined horizontal vent lengths in feet

H_O - offset factor: .03 (total degrees of offset - 135°*) in feet

V_T - combined vertical vent lengths in feet

2.5 ELBOW VENT LENGTHS

	<u>FEET</u>	<u>INCHES</u>
1°	0.03	0.5
15°	0.45	6.0
30°	0.9	11.0
45°	1.35	16.0
90°*	2.7	32.0

* The first 45° and 90° offset has a zero value and is shown in the formula as -45° and -90° respectively or -135° when combined.

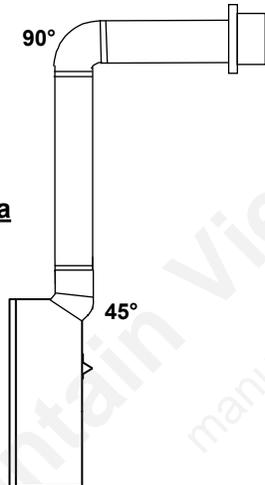
2.6 HORIZONTAL TERMINATION

$$(H_T) \leq (V_T)$$

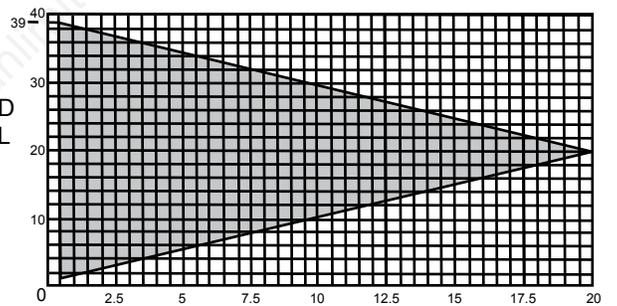
Simple venting configuration (only one 45° and 90° elbow)

See graph to determine the required vertical rise V_T for the required horizontal run H_T .

FIGURE 2.6a



REQUIRED VERTICAL RISE IN FEET V_T



HORIZONTAL VENT RUN PLUS OFFSET IN FEET H_T

The shaded area within the lines represents acceptable values for H_T and V_T

For vent configurations requiring more than one 45° and 90° elbow, the following formulas apply:

Formula 1: $H_T \leq V_T$

Formula 2: $H_T + V_T \leq 40$ feet

Example 1:

$V_1 = 8$ FT

$V_T = V_1 = 8$ FT

$H_1 = 2.5$ FT

$H_2 = 2$ FT

$H_R = H_1 + H_2 = 2.5 + 2 = 4.5$ FT

$H_O = .03$ (one 45° elbow + two 90° elbows - 135°) = .03 (225° - 135°) = 2.7 FT

$H_T = H_R + H_O = 4.5 + 2.7 = 7.2$ FT

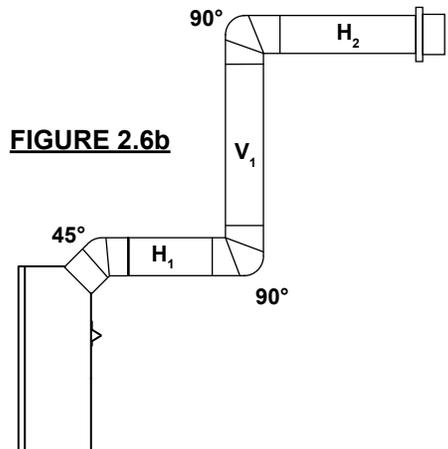
$H_T + V_T = 7.2 + 8 = 15.2$ FT

Formula 1: $H_T \leq V_T$
 $7.2 \leq 8$

Formula 2: $H_T + V_T \leq 40$ FT
 $15.2 \leq 40$

Since both formulas are met, this vent configuration is acceptable.

FIGURE 2.6b



(H_T) > (V_T)

Simple venting configuration (only one 45° and 90° elbow)

See graph to determine the required vertical rise **V_T** for the required horizontal run **H_T**.

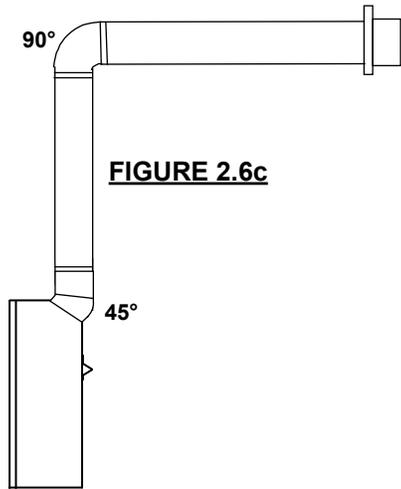
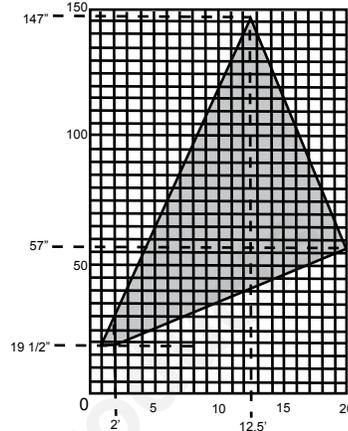


FIGURE 2.6c



HORIZONTAL VENT RUN PLUS OFFSET IN FEET H_T

The shaded area within the lines represents acceptable values for **H_T** and **V_T**

For vent configurations requiring more than one 45° and 90° elbow, the following formulas apply:

Formula 1: $H_T \leq 4.2 V_T$

Formula 2: $H_T + V_T \leq 24.75 \text{ feet}$

Example 2:

$V_1 = 4 \text{ FT}$

$V_2 = 1.5 \text{ FT}$

$V_T = V_1 + V_2 = 4\text{FT} + 1.5\text{FT} = 5.5\text{FT}$

$H_1 = 2 \text{ FT}$

$H_2 = 1 \text{ FT}$

$H_3 = 1 \text{ FT}$

$H_4 = 1.5 \text{ FT}$

$H_R = H_1 + H_2 + H_3 + H_4 = 2 + 1 + 1 + 1.5 = 5.5 \text{ FT}$

$H_O = .03 \text{ (one } 45^\circ \text{ elbow + three } 90^\circ \text{ elbows - } 135^\circ)$

$= .03 (315 - 135) = 5.4 \text{ FT}$

$H_T = H_R + H_O = 5.5 + 5.4 = 10.9 \text{ FT}$

$H_T + V_T = 10.9 + 5.5 = 16.4 \text{ FT}$

Formula 1: $H_T \leq 4.2 V_T$

$4.2 V_T = 4.2 \times 5.5 = 23.1 \text{ FT}$

Formula 2: $H_T + V_T \leq 24.75 \text{ FT}$

$16.4 \leq 24.75$

Since both formulas are met, this vent configuration is acceptable.

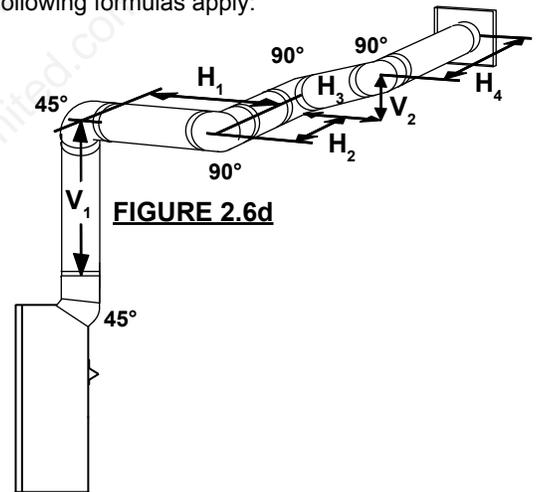


FIGURE 2.6d

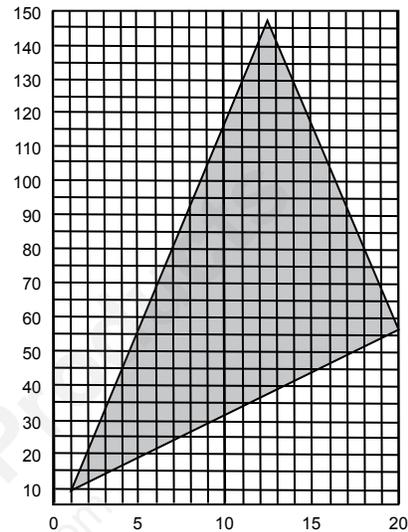
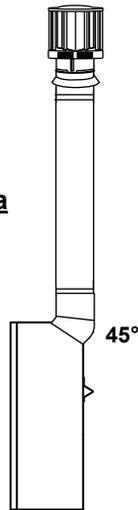
2.7 VERTICAL TERMINATION

$(H_T) \leq (V_T)$

Simple venting configurations.

See graph to determine the required vertical rise V_T for the required horizontal run H_T .

FIGURE 2.7a



HORIZONTAL VENT RUN PLUS OFFSET IN FEET H_T
The shaded area within the lines represents acceptable values for H_T and V_T

For vent configurations requiring more than one 45° and one 90° elbows the following formulas apply:

Formula 1: $H_T \leq V_T$

Formula 2: $H_T + V_T \leq 40$ feet

Example 6:

$V_1 = 5$ FT

$V_2 = 10$ FT

$V_T = V_1 + V_2 = 5 + 10 = 15$ FT

$H_1 = 3$ FT

$H_2 = 2.5$ FT

$H_R = H_1 + H_2 = 3 + 2.5 = 5.5$ FT

$H_O = .03$ (one 45° elbow + three 90° elbows - 135°)
= .03 (45 + 90 + 90 + 90 - 135) = 5.4 FT

$H_T = H_R + H_O = 5.5 + 5.4 = 10.9$ FT

$H_T + V_T = 10.9 + 15 = 25.9$ FT

Formula 1: $H_T \leq 3.5 V_T$
 $10.9 \leq 15$

Formula 2: $H_T + V_T \leq 40$ FT
 $25.9 \leq 40$

Since both formulas are met, this vent configuration is acceptable.

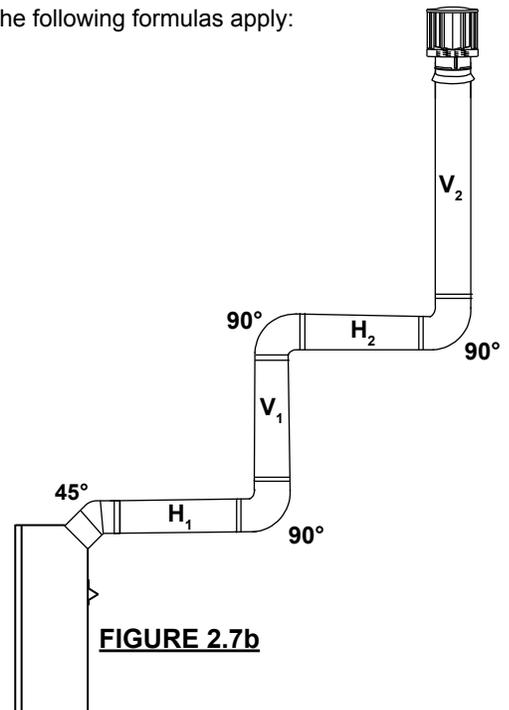


FIGURE 2.7b

$(H_T) > (V_T)$

Simple venting configurations.

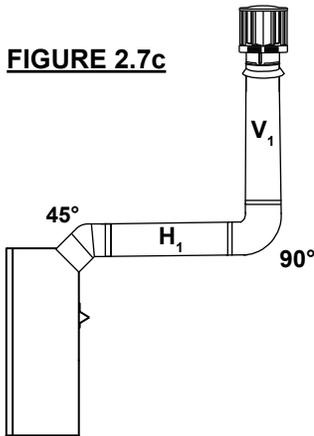
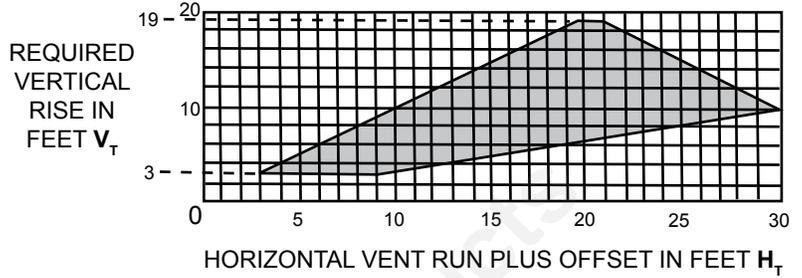


FIGURE 2.7c

See graph to determine the required vertical rise V_T for the required horizontal run H_T .



The shaded area within the lines represents acceptable values for H_T and V_T

Example 2:

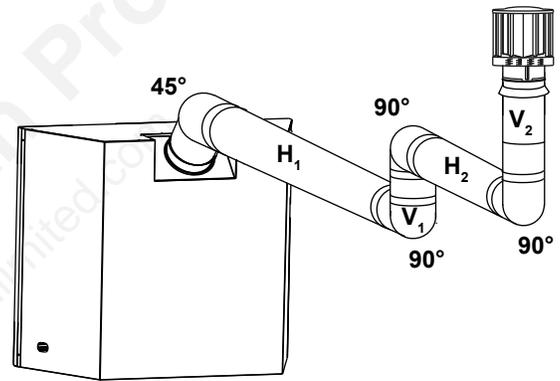
- $V_1 = 1.5$ FT
- $V_2 = 8$ FT
- $V_T = V_1 + V_2 = 1.5 + 8 = 9.5$ FT
- $H_1 = 1$ FT
- $H_2 = 1$ FT
- $H_3 = 10.75$ FT
- $H_R = H_1 + H_2 + H_3 = 1 + 1 + 10.75 = 12.75$ FT
- $H_O = .03$ (three 90° elbows + two 45° elbows - 135°)
- $= .03 (90 + 90 + 90 + 45 + 45 - 135) = 6.75$ FT
- $H_T = H_R + H_O = 12.75 + 6.75 = 19.5$ FT
- $H_T + V_T = 19.5 + 9.5 = 29$ FT

Formula 1: $H_T \leq 3V_T$
 $3V_T = 3 \times 9.5 = 28.5$ FT
 $19.5 \leq 28.5$

Since this formula is not met, this vent configuration is **unacceptable**.

Formula 2: $H_T \leq V_T = 40$ feet
 $29 \leq 40$

Since both formulas are met, this vent configuration is acceptable.



For vent configurations requiring more than one 45° and one 90° elbow the following formulas apply:

- Formula 1:** $H_T \leq 3V_T$
- Formula 2:** $H_T + V_T \leq 40$ feet

Example 3:

- $V_1 = 1$ FT
- $V_2 = 1.5$ FT
- $V_T = V_1 + V_2 = 1 + 1.5 = 2.5$ FT
- $H_1 = 6$ FT
- $H_2 = 2$ FT
- $H_R = H_1 + H_2 = 6 + 2 = 8$ FT
- $H_O = .03$ (one 45° + three 90° elbows - 135°)
- $= .03 (45 + 90 + 90 + 90 - 135) = 5.4$ FT
- $H_T = H_R + H_O = 8 + 5.4 = 13.4$ FT
- $H_T + V_T = 13.4 + 2.5 = 15.9$ FT

Formula 1: $H_T \leq 3V_T$
 $3V_T = 3 \times 2.5 = 7.5$ FT
 $13.4 \leq 7.5$

Since this formula is not met, this vent configuration is **unacceptable**.

Formula 2: $H_T \leq V_T = 40$ feet
 $15.9 \leq 40$

Since only formula 2 is met, this vent configuration is unacceptable and a new fireplace location or vent configuration will need to be established to satisfy both formulas.

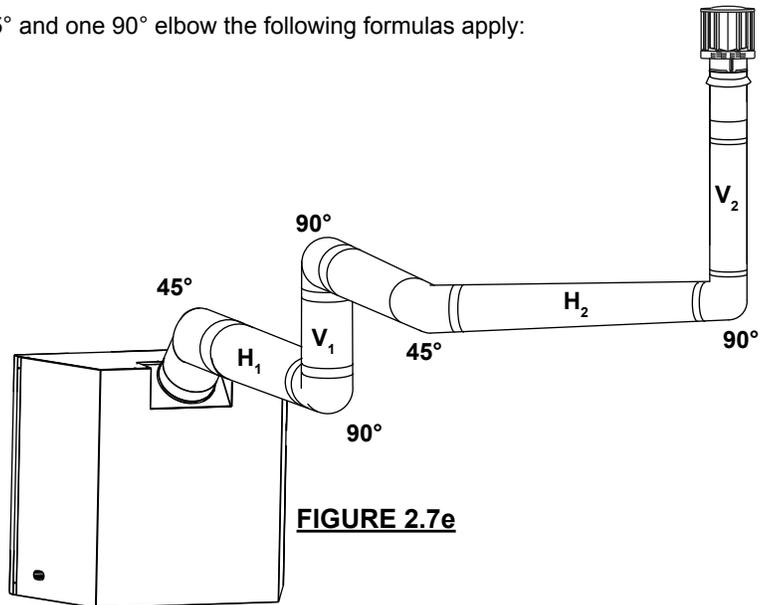


FIGURE 2.7e

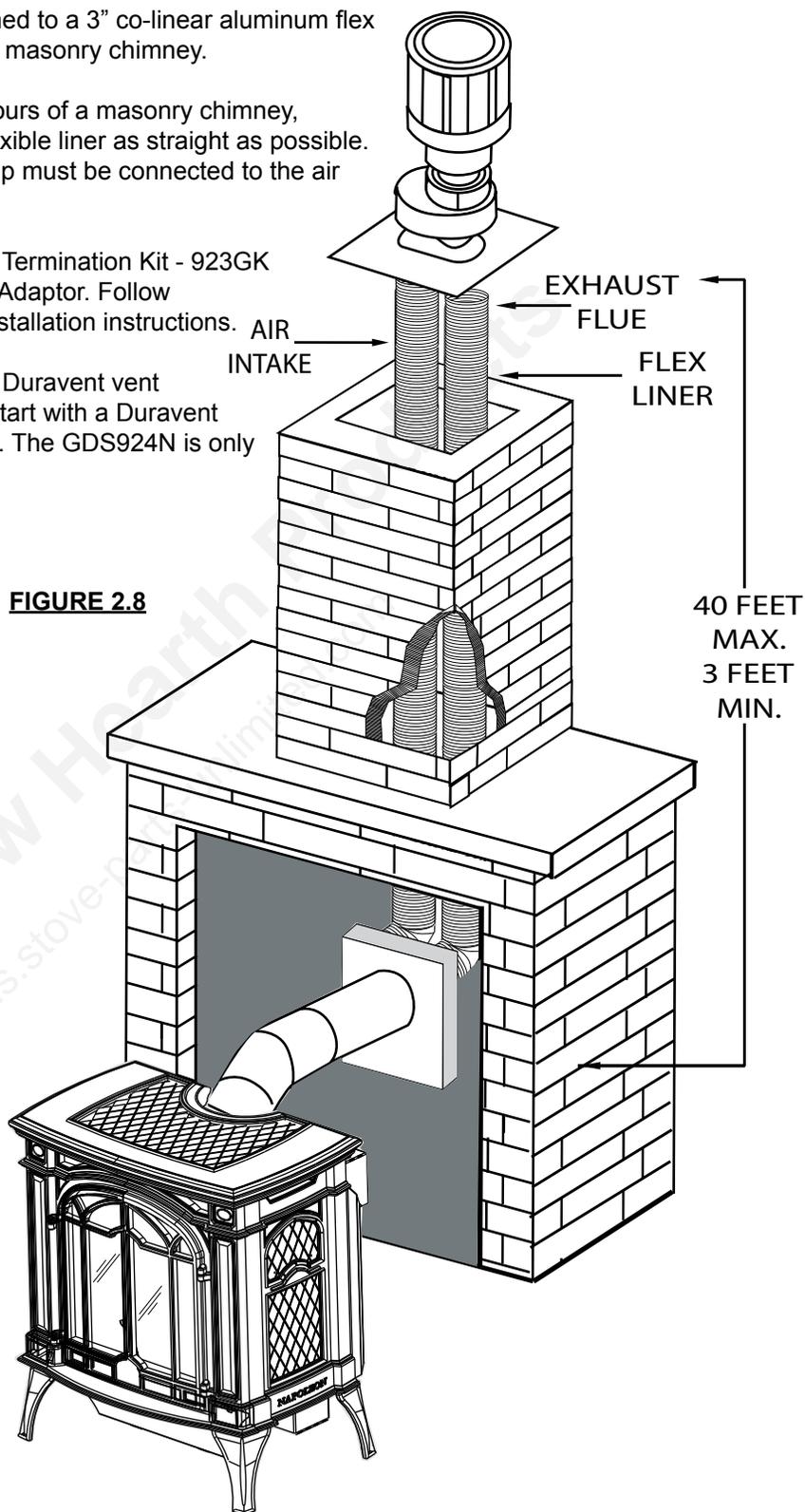
2.8 VERTICAL THROUGH EXISTING CHIMNEY

This appliance is designed to be attached to a 3" co-linear aluminum flex vent system running the full length of a masonry chimney.

The flex liner accommodates any contours of a masonry chimney, however, it is necessary to keep the flexible liner as straight as possible. The inlet air collar of the termination cap must be connected to the air intake pipe.

Use Simpson Duravent Chimney Liner Termination Kit - 923GK (Base plate and Co-Linear to Co-Axial Adaptor. Follow manufacturers (Simpson Dura-Vent) installation instructions.

When installing the unit to this system, Duravent vent components must be used. You must start with a Duravent adaptor, GDS924N, directly off the unit. The GDS924N is only available at your Napoleon® dealer.



3.0 VENT INSTALLATION

3.1 WALL AND CEILING PROTECTION

! WARNING

Do not fill this space with any type of material. Do not pack insulation or combustibles between ceiling firestops. Always maintain specified clearances around venting and firestop systems. Install wall shields and firestops as specified. Failure to keep insulation or other materials away from vent pipe may cause fire.

The vent system must be supported approximately every 3 feet for both vertical and horizontal runs. Use supports or equivalent non-combustible strapping to maintain the 1" clearance from combustibles. Use Wolf Steel Ltd. vent spacers W615-0033 every 18" and at the start, middle and end of each elbow to maintain the minimum 1 1/4" clearance between the 4" flexible vent pipe and the 7" rigid vent pipe. These spacers must not be removed. Use Wolf Steel Ltd. support ring assembly W010-0370 or equivalent non-combustible strapping to maintain the minimum clearance to combustibles for both vertical and horizontal runs.

If using pipe clamps to connect vent components, 3 screws must also be used to ensure the connection cannot slip off. Do not clamp the flexible vent pipe.

Risk of fire, explosion or asphyxiation. Improper support of the entire venting system may allow vent to sag and separate. Use vent runs support and connect vent sections per installation instructions.

3.1.1 HORIZONTAL INSTALLATION

! WARNING

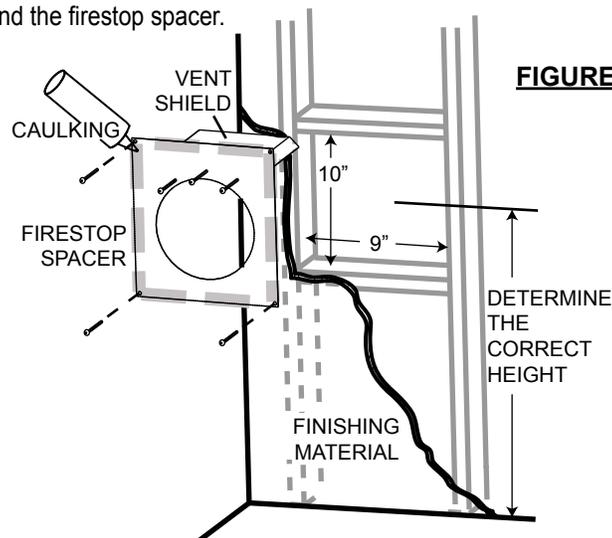
The firestop assembly must be installed with the vent shield to the top.

For optimum performance, the stove pipe should have a minimum rise of 1/4" per foot.

For venting clearances, see "MINIMUM CLEARANCE TO COMBUSTIBLES" section.

This application occurs when venting through an exterior wall. Having determined the correct height for the air terminal location, cut and frame a hole in the exterior wall 9" wide by 10" high to accommodate the firestop assembly. Dry fit the firestop assembly before proceeding to ensure the brackets on the rear surface fit to the inside surface of the horizontal framing.

- A. Assemble the shield to the spacer as shown, using the 3 shorter screws supplied. The shield is deeper than the combustible portion of the wall, cut to fit.
- B. Apply a bead of caulking all around and place the firestop spacer over the framework to restrict cold air from being drawn into the room or around the stove. Ensure that both spacer and shield maintain the required clearance to combustibles. Secure the spacer in place using the 4 longer screws supplied. Once the vent pipe is installed in its final position, apply sealant between the pipe and the firestop spacer.



3.1.2 VERTICAL INSTALLATION

For venting clearances, see "MINIMUM CLEARANCE TO COMBUSTIBLES" section. This application occurs when venting through a roof. Installation kits for various roof pitches are available from your Authorized dealer / distributor. See accessories to order specific kits required.

- Determine the air terminal location, cut and frame 9" x 9" opening in the ceiling and the roof to provide the minimum clearance between the vent pipe and any combustible material. Try to center the vent pipe location midway between two joists to prevent having to cut them. Use a plumb bob to line up the center of the openings.

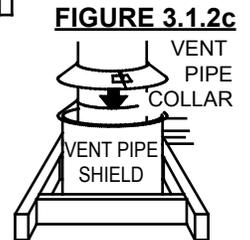
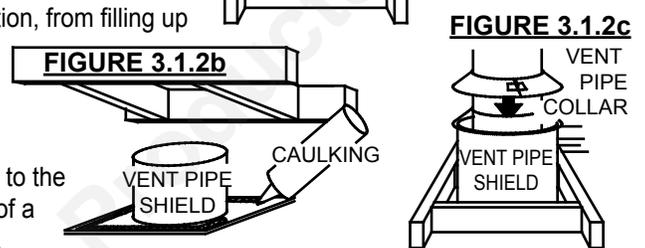
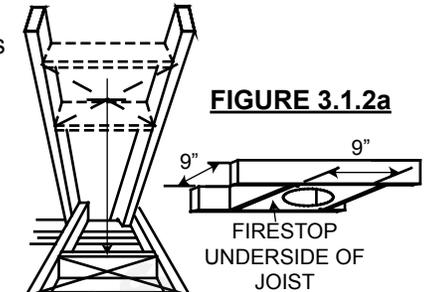
DO NOT FILL THIS SPACE WITH ANY TYPE OF MATERIAL.

A vent pipe shield will prevent any materials such as insulation, from filling up the 1" air space around the pipe. Nail headers between the joist for extra support.

- Apply a bead of caulking (not supplied) to the framework or to the Wolf Steel vent pipe shield plate or equivalent (in the case of a finished ceiling), and secure over the opening in the ceiling.

A firestop must be placed on the bottom of each framed opening in a roof or ceiling that the venting system passes through. Apply a bead of caulking all around and place a firestop spacer over the vent shield to restrict cold air from being drawn into the room or around the fireplace. Ensure that both spacer and shield maintain the required clearance to combustibles. Once the vent pipe is installed in its final position, apply sealant between the pipe and the firestop assembly.

- In the attic, slide the vent pipe collar down to cover up the open end of the shield and tighten. This will prevent any materials, such as insulation, from filling up the 1" air space around the pipe.



3.2.1 HORIZONTAL AIR TERMINAL INSTALLATION

! WARNING

Follow the venting instructions exactly.

All inner exhaust and outer intake vent pipe joints may be sealed using either red RTV high temp silicone sealant W573-0002 (not supplied) or black high temp mill pac W573-0007 (not supplied) with the exception of the fireplace exhaust flue collar which must be sealed using mill pac.

- Stretch the 4" flexible vent pipe to the required length taking into account the additional length needed for the finished wall surface. Slip a minimum of 2" of the 4" flexible vent pipe over the inner sleeve of the air terminal. Secure to the inner sleeve using 3 screws. Seal the joint and screw heads using the high temperature sealant W573-0002 (not supplied).
- Slip the first section of 7" rigid vent pipe a minimum of 2" over the outer sleeve of the air terminal. Secure to the outer sleeve using 3 screws. Seal the joint and screw heads using high temperature sealant W573-0002 (not supplied).
- Insert the vent pipe through the firestop / vent pipe shield. Holding the air terminal (lettering in an upright, readable position), secure to the exterior wall. Make weather tight by sealing with caulking (not supplied).
- If more than one length of vent pipe needs to be used to reach the stove, couple them together as illustrated in 3.2.1b. Seal the joints using the same procedure as described above.

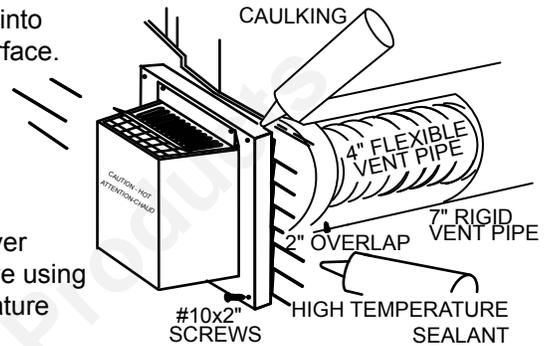


FIGURE 3.2.1a

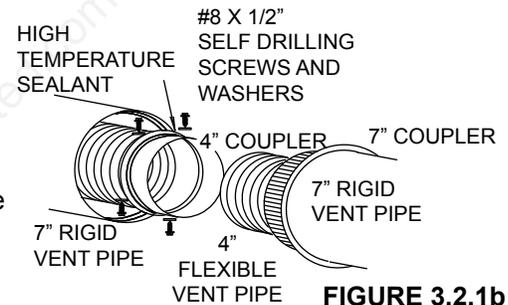


FIGURE 3.2.1b

The air terminal mounting plate may be recessed into the exterior wall or siding by 1½", the depth of the return flange.

3.2.2 EXTENDED HORIZONTAL AND CORNER AIR TERMINAL INSTALLATION

- Follow the instructions for "Horizontal Air Terminal Installation", items 1 to 3.
- Continue adding components alternating flexible and rigid vent pipes. Ensure that all 4" flexible vent pipes and elbows have sufficient vent spacers attached and each component is securely fastened to the one prior. Attach the 7" telescopic sleeve to the vent run. Secure and seal. To facilitate completion, attach 4" and 7" couplers to the air terminal.
- Install the air terminal. See item 3 of the Horizontal Air Terminal Installation. Extend the 7" telescopic sleeve; connect to the air terminal assembly. Fasten with self tapping screws and seal.

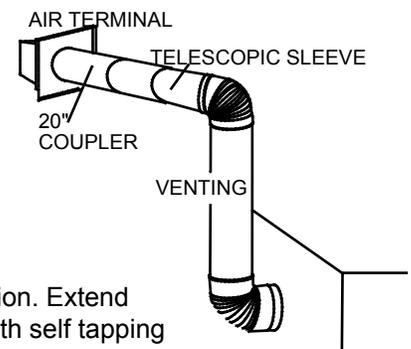


FIGURE 3.2.2

3.2.3 VERTICAL AIR TERMINAL INSTALLATION

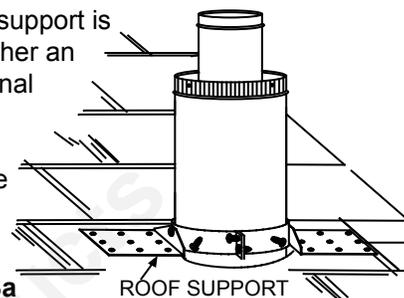
! WARNING

Maintain a minimum 2" space between the air inlet base and the storm collar.

- Fasten the roof support to the roof using the screws provided. The roof support is optional. In this case the venting is to be adequately supported using either an alternate method suitable to the authority having jurisdiction or the optional roof support.

- Stretch the 4" flexible vent pipe to the required length. Slip the 4" flexible vent pipe a minimum of 2" over the inner pipe of the air terminal connector and secure with 3 #8 screws. Seal using a heavy bead of high temperature sealant W573-0007 (not supplied).

FIGURE 3.2.3a



- Repeat using the 7" vent pipe, using a heavy bead of high temperature sealant W573-0002 (not supplied).
- Thread the air terminal connector / vent pipe assembly down through the roof. The air terminal must be located vertically and plumb. Attach the air terminal connector to the roof support, ensuring that the top of the air terminal is 16" above the highest point that it penetrates the roof.

If the attic space is tight, we recommend threading the Wolf Steel vent pipe collar or equivalent loosely onto the air terminal connector / vent pipe assembly as it is passed through the attic. The air terminal connector must be located vertically and plumb.

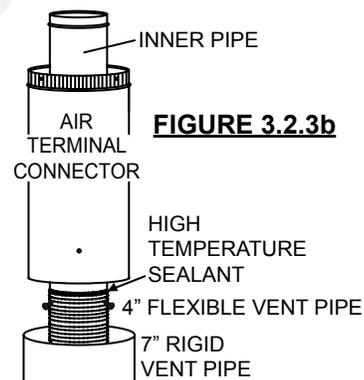


FIGURE 3.2.3b

- Remove nails from the shingles, above and to the sides of the chimney. Place the flashing over the air terminal connector leaving a min. 3/4" of the air terminal connector showing above the top of the flashing. Slide the flashing underneath the sides and upper edge of the shingles. Ensure that the air terminal connector is properly centred within the flashing, giving a 3/4" margin all around. Fasten to the roof. Do not nail through the lower portion of the flashing. Make weather-tight by sealing with caulking. Where possible, cover the sides and top edges of the flashing with roofing material.

- Aligning the seams of the terminal and air terminal connector, place the terminal over the air terminal connector making sure the vent pipe goes into the hole in the terminal. Secure with the three screws provided.

- Apply a heavy bead of weatherproof caulking 2" above the flashing. Install the storm collar around the air terminal and slide down to the caulking. Tighten to ensure that a weather-tight seal between the air terminal and the collar is achieved.

- If more vent pipe needs to be used to reach the fireplace, couple them together as illustrated in 3.2.1b.

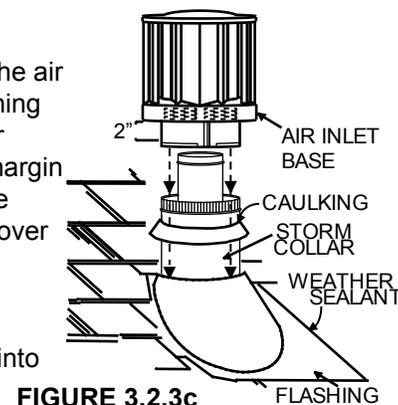


FIGURE 3.2.3c

3.3 STOVE VENT CONNECTION

- Attach the telescopic sleeve to the last section of rigid piping. Secure with screws and high temperature sealant W573-0002 (not supplied).
- Install the 4" aluminium flexible liner through the 45° elbow to the stove. Secure with 3 screws and flat washers. Seal the joint and screw holes using high temperature sealant W573-0007 (not supplied).
- Run a bead of high temperature sealant W573-0002 (not supplied) around the inside of the air intake collar. Insert the 45° elbow a minimum of 2" into the air intake collar.
- Run a bead of high temperature sealant W573-0002 (not supplied) around the inside of the 45° elbow. Pull the telescopic sleeve a minimum 2" into the 45° elbow. Secure with screws.

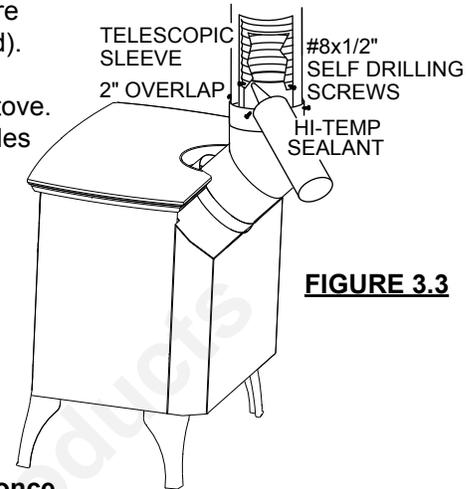


FIGURE 3.3

NOTE: Ensure that the sealant is not visible on the exterior pipes once installation is completed. An optional decorative metallic band is available for this use. (Standard with a GD175 kit and GD176). In the event that the venting must be disassembled, care must be taken to reseal the venting.

3.4 MOBILE HOME

This appliance is certified to be installed as an OEM (Original Equipment Manufacturer) installation in a manufactured home or mobile home and must be installed in accordance with the manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States or the Mobile Home Standard, CAN/CSA Z240 MH Series, in Canada. This appliance is only for use with the type(s) of gas indicated on the rating plate. A conversion kit is supplied with the mobile home appliance.

This Mobile/Manufactured Home Listed appliance comes factory equipped with a means to secure the unit. The fireplace is equipped with two 1/4" diameter holes located in the front left and right corners of the base. For mobile home installations, the fireplace must be fastened in place. Use #10 hex head screws, inserted through the holes in the base to secure. Always turn off the pilot and the fuel supply at the source, prior to moving the mobile home. After moving the mobile home and prior to lighting the fireplace, ensure that the logs are positioned correctly.

This appliance is certified to be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes. This fireplace is only for use with the type of gas indicated on the rating plate. This fireplace is not convertible for use with other gases, unless a certified kit is used.

Conversion Kits

The mobile home appliance is field convertible between Natural Gas (NG) and Propane (LP). To convert from one gas to another consult your Authorized dealer/distributor.

3.5 GAS INSTALLATION

 WARNING
Risk of fire or explosion. Do not use open flame for testing.
Support gas control when attaching pipe to prevent bending gas line.
Always light the pilot whether for the first time or if the gas supply has run out with the glass door opened or removed. Assure that a continuous gas flow is at the burner before closing the door. For gas and electrical locations, see "DIMENSIONS" section.
All gas connections must be contained within the fireplace when complete.
Do not connect either the wall switch, thermostat or gas valve to electricity (110 volts).
High pressure will damage valve.

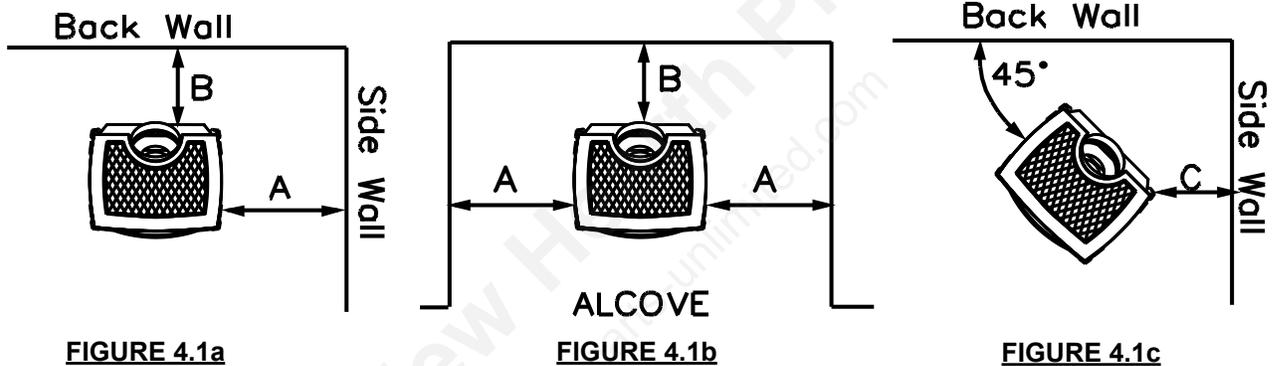
NOTE: All gas connections must be contained within the heater when complete.

1. Move the heater into position and secure to the floor.
2. The heater is designed to accept 3/8" gas supply line. The heater is equipped with a manual shut-off valve.
3. Connect the gas supply in accordance to local codes. In the absence thereof, install according to the National Installation Code.
4. When connecting the gas line to the valve ensure not to kink the line and support the valve.
5. Check for gas leaks by brushing on a soap and water solution. **DO NOT USE OPEN FLAME.**

4.0 MINIMUM CLEARANCE TO COMBUSTIBLES

! WARNING	
Minimum clearance to combustibles must be maintained or a serious fire hazard could result.	
Framing or finishing material closer than the minimums listed must be constructed entirely of non-combustible materials (i.e. steel studs, cement board, etc.).	
Never obstruct the front opening of the heater.	

As long as clearance to combustibles is kept within the required distances, the most desirable and beneficial location for a Napoleon® stove is in the centre of a building, thereby allowing the most efficient use of the heat created. The location of windows, doors and the traffic flow in the room where the stove is to be located should be considered. If possible, you should choose a location where the vent will pass through the house without cutting a floor or roof joist.



A. 4" B. 2"* C. 2"

Stove should not be installed directly on carpeting.

To ceiling from stove top	48"
Horizontal vent	
Sides and bottom	1"
Top	2"
Vertical vent	
All sides	1"

*At a distance of 2" from the wall, installation or service to the blower may not be practical. A minimum of 5" will be required in order to install the blower. If less than 5" clearance is maintained between the back of the stove and the back wall, it will be necessary to disconnect the venting and gas pipe to move the stove out for installation or service of the blower.

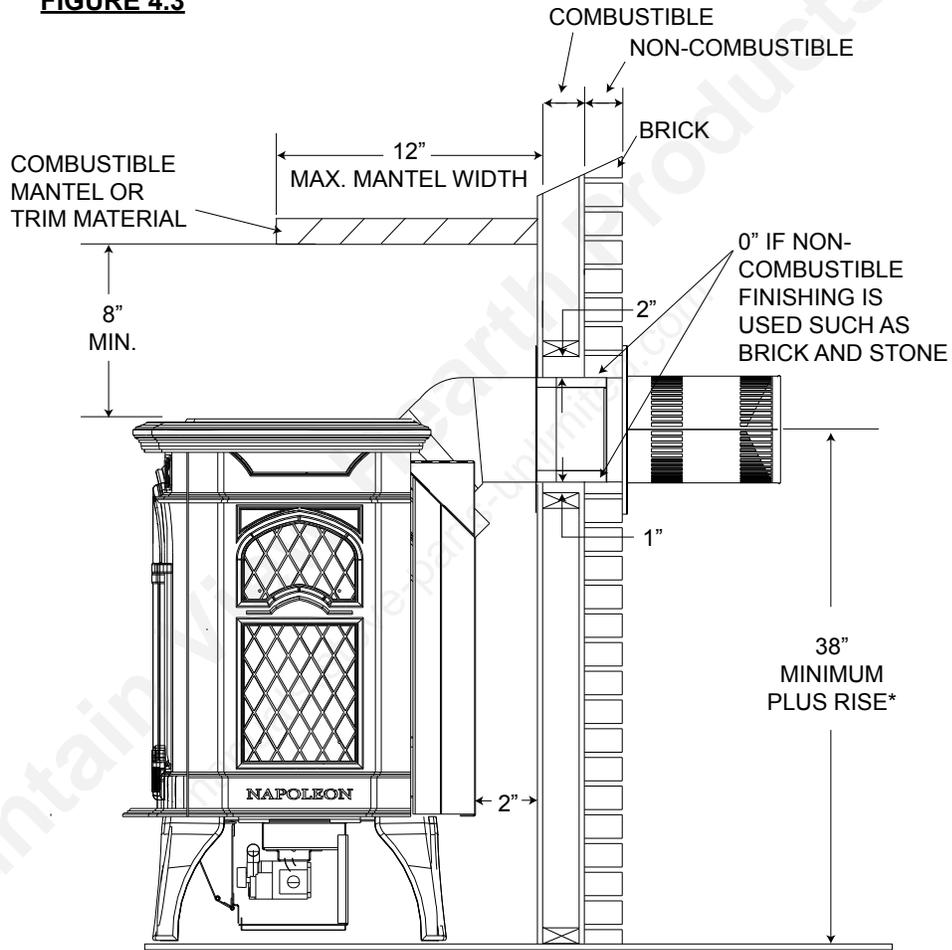
4.3 MINIMUM MANTEL OR SHELF CLEARANCES

! WARNING

Risk of fire, maintain all specified air space clearances to combustibles. Failure to comply with these instructions may cause a fire or cause the appliance to overheat. Ensure all clearances (i.e. back, side, top, vent, hearth, mantel, front, etc.) are clearly maintained.

When the fireplace is rear vented, a mantel or shelf may be installed above the GDS25 at a minimum distance of 8".

FIGURE 4.3



5.0 FINISHING

5.1 CAST FRONT INSTALLATION AND REMOVAL

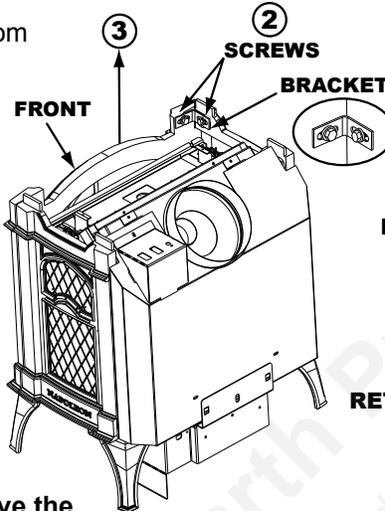
! WARNING

Glass may be hot, DO NOT touch glass until cooled.

5.1.1 Lift the top cast piece off of the unit.

FIGURE 5.1a

5.1.2 Detach the front cast piece from the side pieces by removing the screws from the brackets located in the upper inside corners.

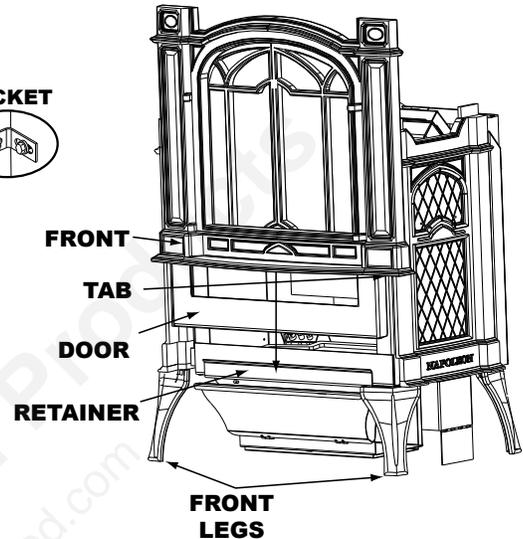


5.1.3 Slide the front straight up to remove.

Follow the above steps in reverse in order to reinstall the cast front. Ensure that the tabs on the underside of the front fit behind the front legs.

NOTE: It is not necessary to remove the cast front, in order to remove the door.

FIGURE 5.1b



5.2 GLASS DOOR INSTALLATION AND REMOVAL

! WARNING

Do not use substitute materials.

Glass may be hot, DO NOT touch glass until cooled.

5.2.1 Lift the top cast piece off of the unit.

5.2.2 Pull handle and rotate 90°.

5.2.3 Slide the door straight up to remove.

Follow the above steps in reverse in order to reinstall the door. Ensure that the bottom of the door meets the door retainer before closing the latches.

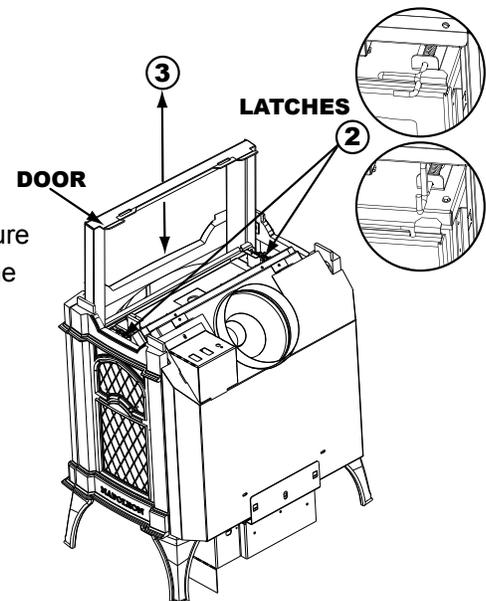


FIGURE 5.2

5.3 SWITCH FUNCTIONS

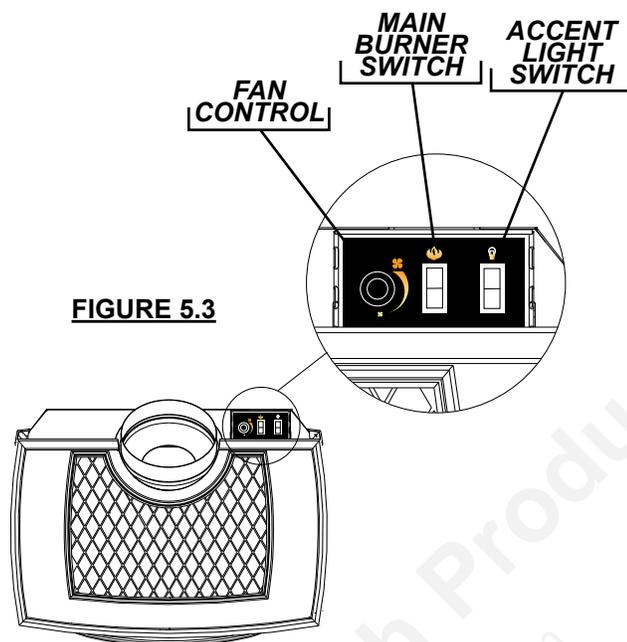


FIGURE 5.3

5.4 LOGO PLACEMENT

Remove the backing from the logo and position onto the control door as shown.

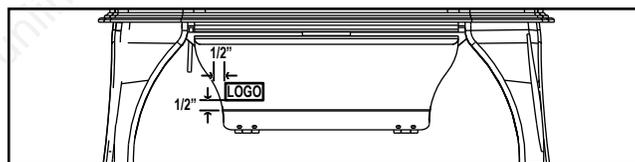


FIGURE 5.4

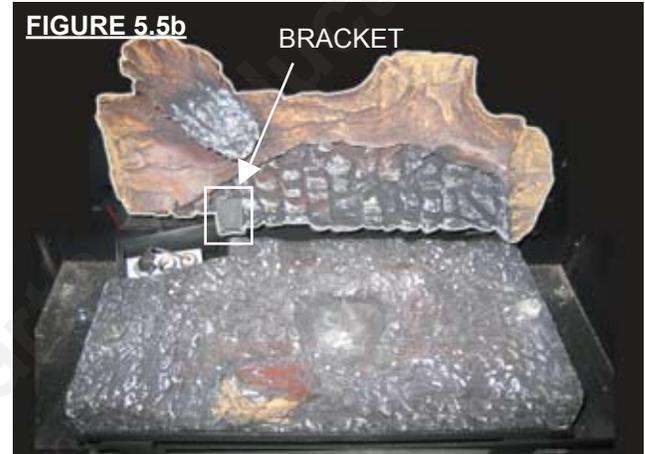
5.5 LOG PLACEMENT

! WARNING

Logs must be placed in the exact location in heater. Do not change from the proper log positions.
Heater may not function properly.

The logs are fragile and should be handled with care.

It is not necessary to remove the cast front, however, this will make for a more simple log installation. In order to assemble the log set, the glass door must be removed, see "CAST FRONT / GLASS DOOR INSTALLATION AND REMOVAL" section.



5.5.1 Place the rear log, as shown, onto the rear log support brackets. Ensure the cutout on the left underside of the log, fits over the pilot assembly. Bend the bracket on the left side to help retain the rear log.



5.5.2 Place the hole in the underside of log #2 onto the locating screw, on the left side of the burner. The fibre burner is formed to cradle the centre of the log.



5.5.3 Place the hole in the underside of log #3 onto the locating screw, on the right side of the burner. The bottom branch of log #3 sits in front of, and against, the right end of log #2.

5.5.4 Reinstall the glass door & front.

6.0 OPTIONAL BLOWER INSTALLATION

! WARNING

Risk of fire and electrical shock.

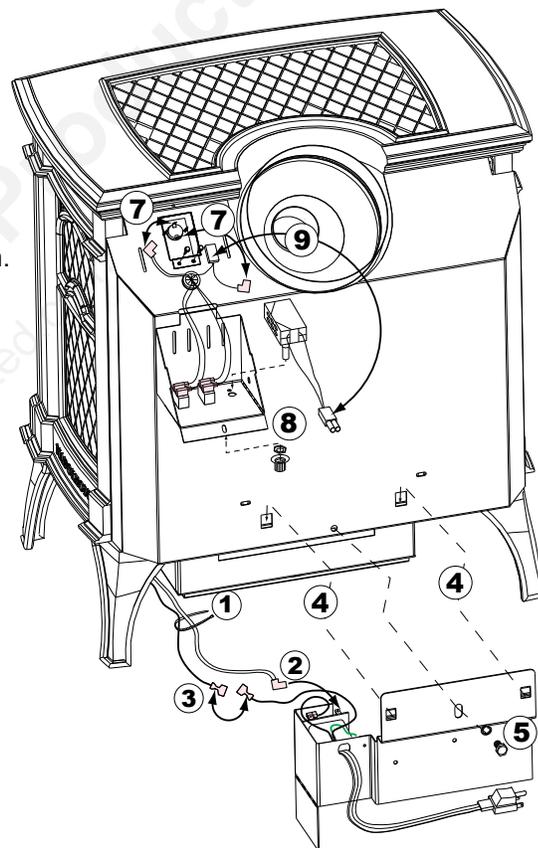
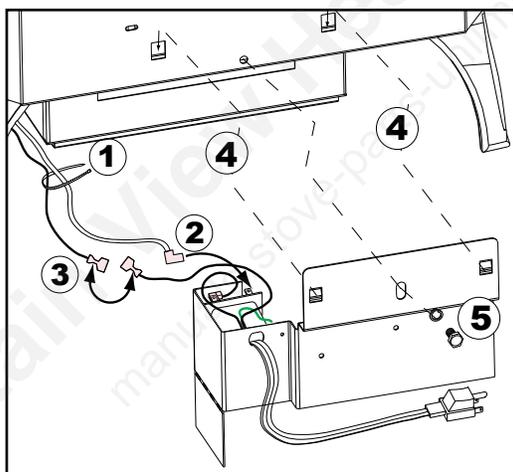
Turn off the gas and electrical power before servicing this fireplace.

Use only Wolf Steel approved optional accessories and replacement parts with this appliance. Using non-listed accessories (blowers, doors, louvres, trims, gas components, venting components, etc.) could result in a safety hazard and will void the warranty and certification.

BLOWER

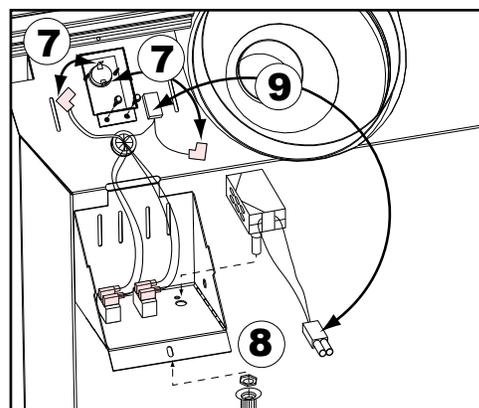
- 6.0.1 Cut and remove the tie securing the blower switch wires to the heat shield.
- 6.0.2 Connect the white wire coming from below the unit to the terminal on the blower.
- 6.0.3 Connect the black blower wire to the black wire coming from below the unit.
- 6.0.4 Insert the clips on the blower housing into the cutouts in the rear shield. Push down to lock the clips into position.
- 6.0.5 Secure the blower using the screw and lock washer supplied.

NOTE: Ensure that all the wires are tucked into the blower switch housing.



SWITCHES

- 6.0.6 Open the switch housing by removing the top screw.
- 6.0.7 Install the thermodisc bracket as shown, using 2 of the screws supplied. Connect the flagged leads to the terminals of the thermodisc.
Remove the knock out from the housing label.
- 6.0.8 Install the variable speed switch (rheostat) into the housing with the wires facing up. Secure the switch to the housing using the pal nut and the knob supplied.
- 6.0.9 Connect the male connector on the switch to the female connector coming from the unit.
- 6.0.10 Tuck all of the wires into the housing and close. Secure using the screw removed in step 6.0.6.



7.0 NIGHT LIGHT REPLACEMENT

The Bayfield® comes equipped with our “Night Light”.

If in the event the lamp or lens needs to be replaced, follow these instructions. Disconnect the two wire leads at the wire nut. Remove the four screws securing the accent light assembly from the relief door. Disassemble the light and the lamp now can be accessed

Note: Do not handle the lamp (bulb) with bare fingers, protect with a clean dry cloth.

The lamp will pull straight out of the socket. Replace with Wolf Steel parts only, as lamp and lens are special “high temperature” products. When re-installing, ensure integrity of gasket seal.

THE FIREBOX MUST BE SEALED.

When re-assembling the light assembly, care must be taken with all gaskets.

“Light Leakage” from above the cast doors may be noticed. The holes in the lamp housing are necessary for ventilation and must not be covered.

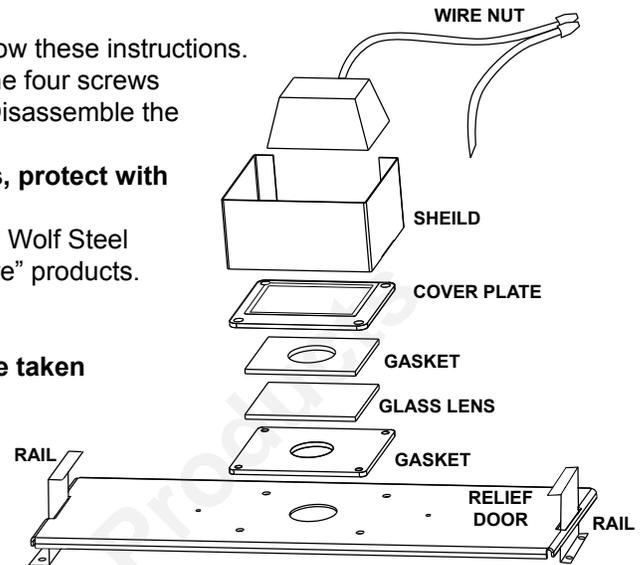


FIGURE 7.0

8.0 WIRING DIAGRAM

! WARNING

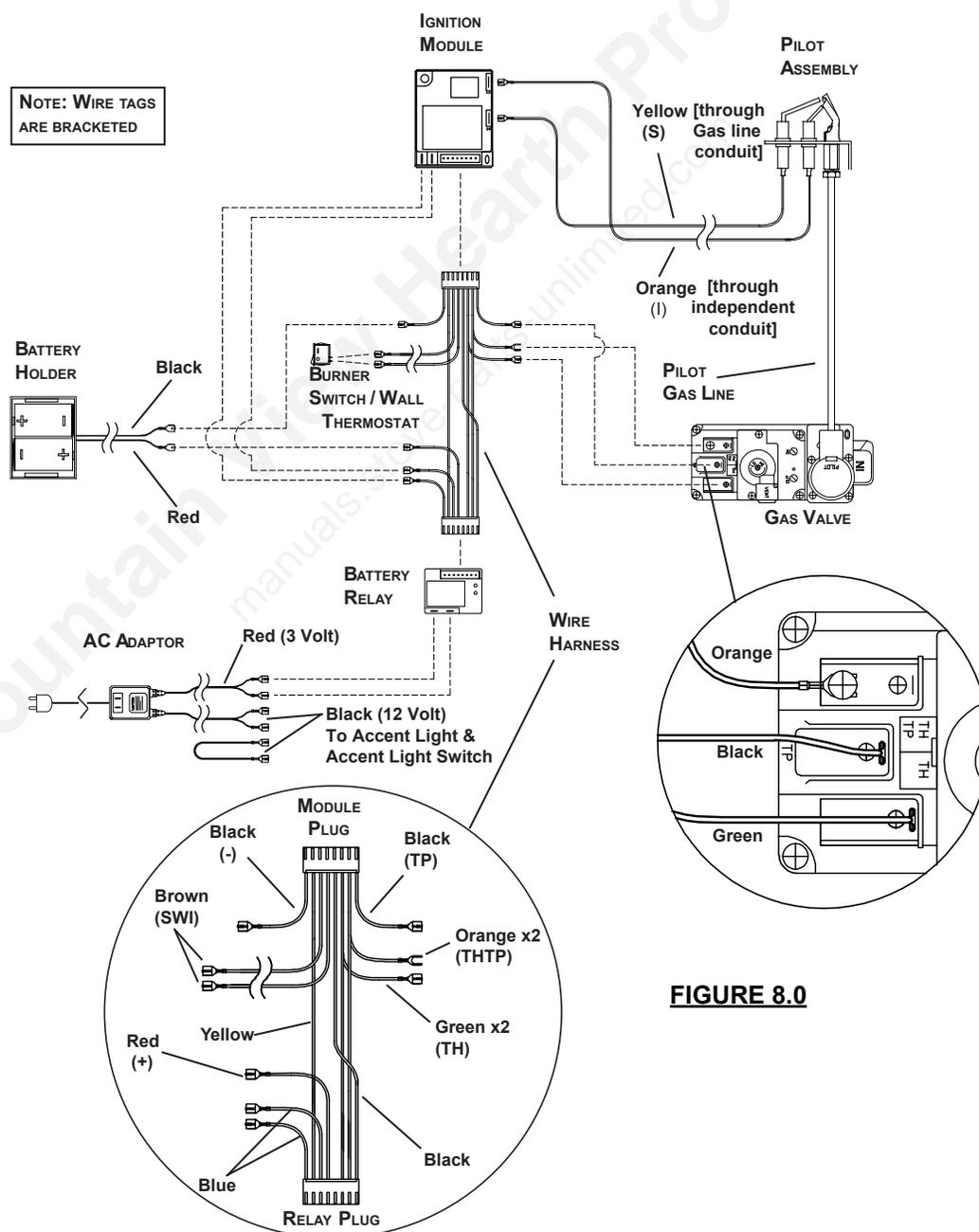
Always light the pilot whether for the first time or if the gas supply has ran out with the glass door open or removed.

The on/off switch is located on the back of the GDS25 at the top right corner. For ease of accessibility, an optional remote wall switch or millivolt thermostat may be installed in a convenient location.

The recommended maximum lead length depends on the wire size:

<u>WIRE SIZE</u>	<u>MAX. LENGTH</u>
14 gauge	100 feet
16 gauge	60 feet
18 gauge	40 feet

Route 2-strand (solid core) wire through to the wire harness located under the gas valve. Connect the wires from the wall switch/thermostat to the two brown wires extending from the ignition control box.



9.0 OPERATION

! WARNING

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

Always light the pilot whether for the first time or if the gas supply has ran out with the glass door opened or removed.

Assure that a continuous gas flow is at the burner before installing the door. When lit for the first time, the fireplace will emit an odor for a few hours. This is a normal temporary condition caused by the "burn-in" of paints and lubricants used in the manufacturing process and will not occur again. After extended periods of non-operation such as following a vacation or a warm weather season, the fireplace may emit a slight odor for a few hours. This is caused by dust particles in the heat exchanger burning off. In both cases, open a window to sufficiently ventilate the room.

FOR YOUR SAFETY READ BEFORE LIGHTING:

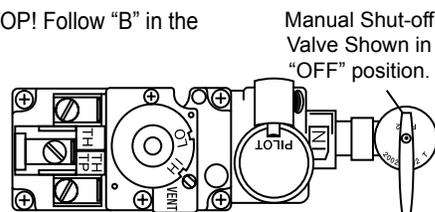
- A. This fireplace is equipped with an ignition device which automatically lights the pilot. Do not try to light by hand.
- B. Before operating smell all around the fireplace area for gas and next to the floor because some gas is heavier than air and will settle on the floor.
- C. Use only your hand to turn the gas control knob. Never use tools. If the knob will not turn 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 fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and replace any part of the control system and any gas control which has been under water.

WHAT TO DO IF YOU SMELL GAS:

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

LIGHTING INSTRUCTIONS:

1. Stop! Read the above safety information on this label.
2. Turn remote wall switch to off position.
3. Turn off all electrical power to the fireplace and remove batteries.
4. This fireplace is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
5. Turn manual shutoff valve clockwise to off.
6. Open the glass door.
7. Wait five (5) minutes to clear out any gas. If you smell gas including near the floor, STOP! Follow "B" in the above safety information on this label. If you don't smell gas go to the next step.
8. Close the glass door.
9. Turn manual shutoff valve counter-clockwise to on.
10. Turn on all electrical power to the fireplace and re-install batteries.
11. Turn on remote wall switch to on position.
12. If fireplace will not operate, follow instructions "TO TURN OFF GAS" and call your service technician or gas supplier.



TO TURN OFF GAS

1. Turn off remote wall switch to the fireplace.
2. Turn off all electrical power to the fireplace if service is to be preformed.
3. Turn manual shutoff valve clockwise to off. Do no force.

10.0 MAINTENANCE

! WARNING

TURN OFF THE GAS AND ELECTRICAL POWER BEFORE SERVICING THE FIREPLACE.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing. This fireplace and its venting system should be inspected before use and at least annually by a qualified service person. The fireplace area must be kept clear and free of combustible materials, gasoline or other flammable vapors and liquids. The flow of combustion and ventilation air must not be obstructed.

- In order to properly clean the burner and pilot assembly, remove the logs exposing both assemblies.
- Keep the control compartment, logs, burner, air shutter opening and the area surrounding the logs clean by vacuuming or brushing, at least once a year.
- Check to see that all burner ports are burning. Clean out any of the ports which may not be burning or are not burning properly.
- Check to see that the pilot flame is large enough to engulf the sensor on one leg and reaches toward the burner on the other leg.
- Replace the cleaned logs.
- Check to see that the main burner ignites completely on all openings when the gas knob for the burner is turned on. A 5 to 10 second total light-up period is satisfactory. If ignition takes longer, consult your Authorized dealer / distributor.
- Check that the door gasketing is not broken or missing. Replace if necessary.
- If for any reason the vent air intake system is disassembled, re-install and re-seal per the instructions provided for the initial installation.

11.0 ADJUSTMENT

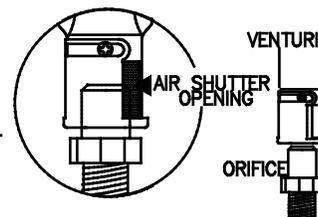
11.1 VENTURI ADJUSTMENT

This fireplace model has an air shutter that has been factory set open according to the chart below:

Closing the air shutter will cause a more yellow flame, but can lead to carboning. Opening the air shutter will cause a more blue flame, but can cause flame lifting from the burner ports. The flame may not appear yellow immediately; allow 15 to 30 minutes for the final flame color to be established.

AIR SHUTTER ADJUSTMENT MUST ONLY BE DONE BY A QUALIFIED INSTALLER!

FIGURE 11.1



Remove the 2 screws securing the burner. Air shutters have been factory set open according to the Venturi Adjustment Chart. These settings are for (maximum) horizontal termination. Adjustment may be required depending on fuel type, vent configuration and altitude. After making adjustments replace the burner ensuring that the venturi tube fits over the orifice and replace the screws.

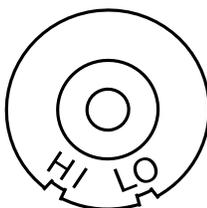
VENTURI ADJUSTMENT CHART	
FUEL	GDS25
NG	1/4"
LP	7/16"

11.2 FLAME ADJUSTMENT

Temperature adjustment is accomplished by rotating the Hi/Lo knob located near the centre of the gas control.

FIGURE 11.2

Turn Counterclockwise
to decrease flame
height



Turn Clockwise
to increase flame
height

11.3 FLAME CHARACTERISTICS

It is important to periodically perform a visual check of the pilot and the burner flames. Compare them to the illustrations shown. If any flames appear abnormal call a service person.

FIGURE 11.3a

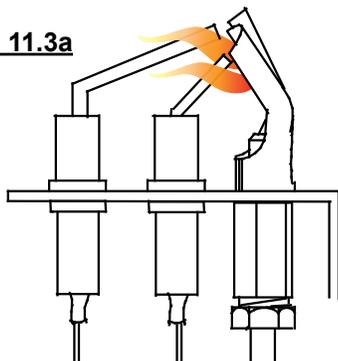
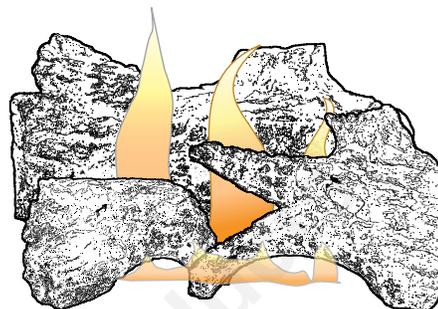


FIGURE 11.3b



11.4 PILOT INJECTOR AND ORIFICE REPLACEMENT

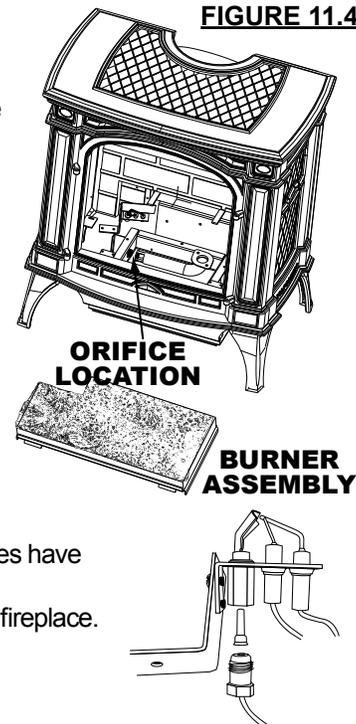
! WARNING

Always light the pilot whether for the first time or if the gas supply has ran out with the glass door open or removed.

This must be carried out by an AUTHORIZED REPRESENTATIVE OF WOLF STEEL LTD. or a QUALIFIED GAS INSTALLER in accordance with local codes or in the absence of local codes with the requirements of the provincial / state authorities having jurisdiction and in accordance with the requirements of the CAN1-B149 Installation Code in Canada and the ANSI Z223.1 National Fuel Gas Code in the United States.

- 9.4.1 Turn off the electrical and gas supply to the fireplace.
- 9.4.2 Remove the cast front, glass viewing door and log set.
- 9.4.3 Remove the 2 securing screws. Slide the burner assembly to the right and lift out.
- 9.4.4 Using a deep $\frac{9}{16}$ " socket wrench, remove the main burner orifice. A $\frac{7}{8}$ " back-up wrench must be used on the manifold, located below the housing to ensure that the aluminum tubing does not twist or kink. Replace the correct burner orifice using pipe thread compound.
- 9.4.5 Loosen nut and replace with appropriate injector
- 9.4.6 Reinstall the burner ensuring that the Venturi tube fits over the orifice.
- 9.4.7 Turn on the gas supply and check for gas leaks by brushing on a soap and water solution. **Do not use open flame.**
- 9.4.8 Replace the log set. Then light the pilot and main burner to ensure that the gas lines have been purged.
- 9.4.9 Replace the glass viewing door and cast front. Turn on the electrical supply to the fireplace.

FIGURE 11.4



11.5 RESTRICTING VERTICAL VENTS

Vertical installations may display a very active flame. Loosen the two screws and slide the restrictor plate blocking the exhaust path. This reduces the velocity of the exhaust gases, slowing down the flame pattern and creating a more traditional flame appearance. For vertical vents greater than 15 feet, this restrictor must be fully closed.

FIGURE 11.5a

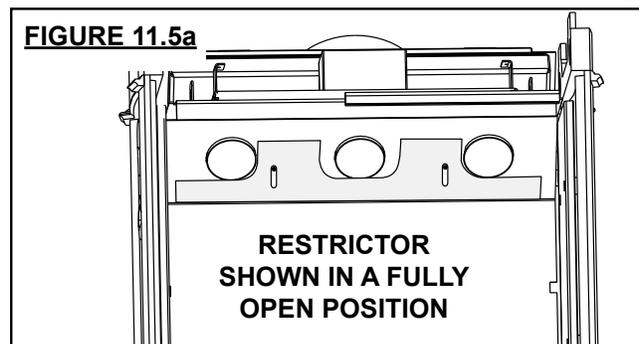
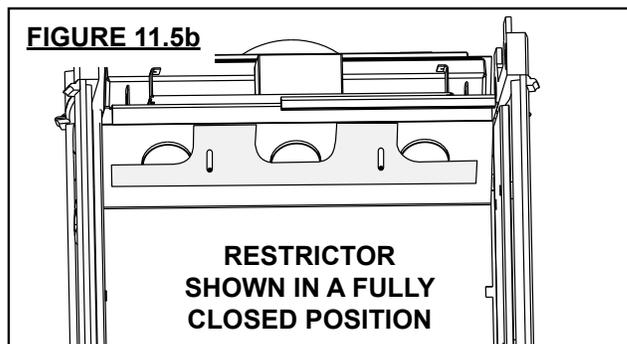


FIGURE 11.5b



12.0 REPLACEMENT PARTS

TEMPLATE

Contact your dealer or the factory for questions concerning prices and policies on replacement parts. Normally all parts can be ordered through your Authorized dealer / distributor.

FOR WARRANTY REPLACEMENT PARTS, A PHOTOCOPY OF THE ORIGINAL INVOICE WILL BE REQUIRED TO HONOUR THE CLAIM.

When ordering replacement parts always give the following information:

- Model & Serial Number of fireplace
- Installation date of fireplace
- Part number
- Description of part
- Finish

*** IDENTIFIES ITEMS WHICH ARE NOT ILLUSTRATED. FOR FURTHER INFORMATION, CONTACT YOUR AUTHORIZED DEALER.**

WARNING

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

COMPONENTS

REF	PART NO.	DESCRIPTION
1	W135-0248	LOG #1 - REAR
2	W135-0249	LOG #2 - LEFT
3	W135-0250	LOG #3 - RIGHT
4	GL-651	LOG SET
5	W725-0032	DEXEN VALVE - NG
5	W725-0049	DEXEN VALVE - LP
6	W100-0084	BURNER (NATURAL GAS)
6	W100-0086	BURNER (PROPANE)
7	W455-0017	#42 BURNER ORIFICE - NG
7	W455-0003	#54 BURNER ORIFICE - LP
7	W455-0001	#44 BURNER ORIFICE - NG-HA
7	W455-0050	#55 BURNER ORIFICE - LP-HA
8	W455-0049	PILOT INJECTOR - LP
9	W455-0071	PILOT INJECTOR - NG
10*	W720-0092	PILOT TUBE
11	W100-0069	PILOT ASSEMBLY - NG
11	W100-0093	PILOT ASSEMBLY - LP
12*	W385-0334	NAPOLEON LOGO
13*	W660-0009	ON/OFF SWITCH
14*	W387-0006	HALOGEN BULB 10W T320
15*	W290-0108	TOP LENS GASKET
16*	W290-0109	BOTTOM LENS GASKET
17*	N402-0001	HIGH TEMPERATURE LIGHT ASSEMBLY
18	W135-0256**	FRONT CAST
19	W135-0232**	SIDE (LEFT OR RIGHT) CAST
20	W135-0257**	TOP CAST
21	W225-0258**	DOOR RIGHT CAST
22	W225-0259**	DOOR LEFT CAST
23	W010-1446	GLASS w/ GASKET
24	W430-0013	CONTROL DOOR MAGNET
25	W010-1408	CONTROL COVER
26	W010-1313	FIRESTOP SPACER
27	W585-0198	FIRESTOP SPACER SHIELD
28*	W010-2033	RIGHT LATCH ASSEMBLY
29*	W010-2034	LEFT LATCH ASSEMBLY

TERMINAL KITS

REF	PART NO.	DESCRIPTION
30*	GD175	WALL TERMINAL KIT
31	BM6790	90° ELBOW - 7" DIAMETER
32	GD222	TERMINAL ASSEMBLY
33	BM67ADJ	30" TO 53" ADJUSTABLE PIPE - 7" DIA
34	W500-0077	FIRESTOP / WALL PLATE
35*	W020-0032	HARDWARE
36	BRTC7	BRASS TRIM COLLAR
37	BM6724	24" STOVE PIPE - 7" DIA
38	W010-0300	10' ALUMINUM FLEX LINER c/w spacers - 4" DIA
39	W025-0001	DECORATIVE BRASS BAND
40*	GD180	PERISCOPE TERMINAL KIT
31	BM6790	90° ELBOW - 7" DIAMETER
41*	GD201	PERISCOPE
33	BM67ADJ	30" TO 53" ADJUSTABLE PIPE - 7" DIA
34	W500-0077	FIRESTOP / WALL PLATE
35*	W020-0032	HARDWARE
36	BRTC7	BRASS TRIM COLLAR
37	BM6724	24" STOVE PIPE - 7" DIA
38	W010-0300	10' ALUMINUM FLEX LINER c/w spacers - 4" DIA
42*	GD176	WALL TERMINAL KIT
32	GD222	TERMINAL ASSEMBLY
36	BRTC7	BRASS TRIM COLLAR
37	BM6724	24" STOVE PIPE - 7" DIAMETER
39	W025-0001	DECORATIVE BRASS BAND
43	BM6745	45° ELBOW
44*	W410-0027	2 PLY FLEX ALUMINIUM LINER - 4" X 32.5"

ROOF TERMINAL KITS

REF	PART NO.	DESCRIPTION
GD110 - 1/12 TO 7/12 PITCH		
45	W670-0006	AIR TERMINAL
46	W490-0073	4/7 INNER / OUTER SLEEVE
47	W010-0567	ROOF SUPPORT
48	W170-0063	STORM COLLAR
49	W263-0054	ROOF FLASHING
GD111 - 8/12 TO 12/12 PITCH		
45	W670-0006	AIR TERMINAL
46	W490-0073	4/7 INNER / OUTER SLEEVE
47	W010-0567	ROOF SUPPORT
48	W170-0063	STORM COLLAR
49	W263-0055	ROOF FLASHING
GD112 - FLAT ROOF		
45	W670-0006	AIR TERMINAL
46	W490-0073	4/7 INNER / OUTER SLEEVE
47	W010-0567	ROOF SUPPORT
48	W170-0063	STORM COLLAR
49	W263-0056	ROOF FLASHING

ACCESSORIES		
REF	PART NO.	DESCRIPTION
50*	W690-0001	
51*	W690-0011B	
52	GS-65KT	
53*	GDSLL-KT	
54*	W175-0244	
54*	W175-0245	
55*	W175-0246	
55*	W175-0247	
56	GD-301	
57*	W175-0001	
58*	GS331S	
58*	GS-331F	
58*	GS-331N	

** For other available colours, add these letters to the base part number:

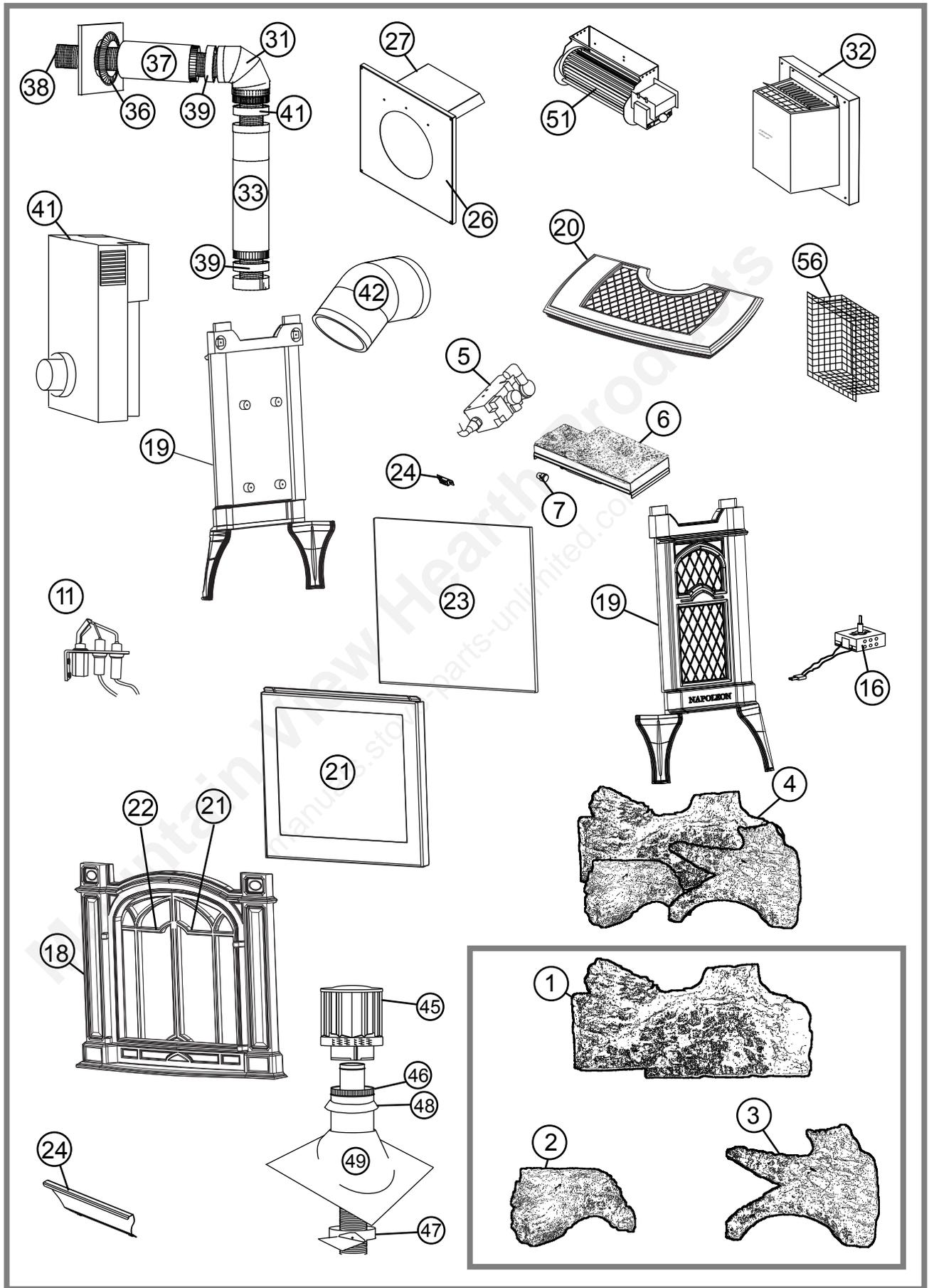
Colour

Summer Moss - M
 Majolica Brown - N
 Winter Frost - W
 Wrought Iron - WI

Finish

Porcelain
 Porcelain
 Porcelain
 Painted

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



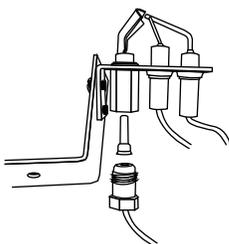
13.0 TROUBLESHOOTING

! WARNING

Always light the pilot whether for the first time or if the gas supply has fan out, with the glass door open or removed.

SYMPTOM	PROBLEM	TEST SOLUTION	
Pilot will not light.	Wiring.	- Verify the "S" wire for the sensor and the "I" wire for the igniter are connected to the correct terminals (not reverse) on the module and pilot assembly.	
	Transformer.	- Verify the transformer is installed and plugged into the module. Check voltage of the transformer under load at the spade connections on the module with the ON/OFF switch in the "ON" position. Acceptable readings of a good transformer are between 3.2 and 2.8 volts A.C.	
	Switch	- Check continuity.	
	Makes no noise with no spark at pilot burner.	Loose connection.	- Verify no loose connections, electrical shorts in the wiring or ground out to any metal object.
		Module.	- Turn the ON/OFF switch to the "OFF" position. Remove the igniter wire "I" from the module. Place the ON/OFF switch to the "ON" position. Hold a grounded wire about 3/16" away from the "I" terminal on the module. If no spark the "I" terminal module must be replaced. If there is a spark the "I" terminal is fine. Inspect pilot assembly for a shorted wire or cracked insulator around the electrode.
		Igniter spark gap is incorrect.	- Spark gap of the igniter to the pilot should be .17" tor 1/8".
		A shorted or loose connection.	- Remove and reinstall the wiring harness that plugs into the module. Remove and verify continuity of each wire in wiring harness.
		Improper switch wiring.	- Troubleshoot the system with a simple ON/OFF switch
		Module is not grounded.	- Verify the valve and pilot assemblies are properly grounded to the metal chassis of the fireplace or log set.
	Pilot sparks but will not light.	Faulty module.	- Turn the ON/OFF switch to the "OFF" position. Remove the igniter wire "I" from the module. Place the ON/OFF switch to the "ON" position. Hold a grounded wire about 3/16" away from the "I" terminal on the module. If no spark the "I" terminal module must be replaced. If there is a spark the "I" terminal is fine. Inspect pilot assembly for a shorted wire or cracked insulator around the electrode.
Gas supply.		- Verify that the incoming gas line ball valve is "Open". Verify that the inlet pressure reading is within acceptable limits, inlet pressures must not exceed 13" W.C. (7" W.C. for Natural Gas and 13" W.C. for propane).	
Module is not grounded.		- Verify the value and pilot assemblies are properly grounded to the metal chassis of the fireplace or log set.	
Continues to spark and pilot lights, but main burner will not light.	Out of propane gas.	- Fill the tank.	
	Short or loose connection in sensor rod.	- Verify all connections. Verify the connections from the pilot assembly are tight; also verify these connections are not grounding out to any metal.	
	Poor flame rectification or contaminated sensor rod.	- Verify the flame is engulfing the sensor rod. This will increase the flame rectification. Verify correct pilot orifice is installed and inlet gas specifications to manual. (Remember, the flame carries the rectification current, not the gas. If the flame lifts from pilot hood, the circuit is broken. A wrong orifice or too high of an inlet pressure can cause the pilot flame to lift.) The sensor rod may need cleaning.	

Makes no noise with no spark at pilot burner.



SYMPTOM	PROBLEM	TEST SOLUTION
Continues to spark and pilot lights, but main burner will not light.	Poor grounding between pilot assembly and gas valve.	- Verify that the wire harness is firmly connected to module.
	Damaged pilot or dirty sensor rod.	- Verify that the ceramic insulator around the sensor rod is not cracked, damaged, or loose. Verify the connection from the sensor rod to the sensor wire. Clean sensor rod with an emory cloth to remove any contamination that may have accumulated on the sensor rod. Verify continuity with multimeter with ohms set at the lowest range.
Pilot light stops sparking / pilot remains lit but burner will not turn on.	Wiring / Connection.	- Inspect all wires, ensure good tight connections. Verify that all wiring is installed exactly as specified.
	Wiring harness.	- Inspect the wiring harness, and verify the harness is tightly connected to the module. Verify that you have 7 wires and they are connected in the right order.
	Module or Valve.	- Conduct the following test to verify if the problem is the module or valve. To measure voltages, turn multimeter to "DC" place the red lead from multimeter on the screw on the terminal block for the wire you are checking, touch black lead to ground (valve body). Importantly, a "Zero" volts reading does not automatically indicate a bad module, there may be too little resistance in the valve solenoid. Check if the green wire is disconnected from the valve. The voltage output from the module should be between 2 and 3 volts.
Exhaust fumes smelled in room, headaches.	Fireplace is spilling.	- Check all seals.
Carbon is being deposited on glass, logs or combustion chamber surfaces.	Air shutter has become blocked.	- Ensure air shutter opening is free of lint or other obstructions.
	Flame is impinging on the logs or combustion chamber.	- Check that the logs are correctly positioned. - Open air shutter to increase the primary air. - Check the input rate: check the manifold pressure and orifice size as specified by the rating plate values. - Check that the door gasketing is not broken or missing and that the seal is tight. - Check that both vent liners are free of holes and well sealed at all joints. - Check that minimum rise per foot has been adhered to for any horizontal venting.
Flames are very aggressive.	Door is ajar.	- Ensure door is secured properly.
	Venting action is too great.	- Check to ensure venting is properly sealed or restrict vent exit with restrictor plate. Restrictor plate not available in some models.
Main burner flame is a blue, lazy, transparent flame.	Blockage in vent.	- Remove blockage. In really cold conditions, ice buildup may occur on the terminal and should be removed as required.
White / grey film forms.	Sulphur from fuel is being deposited on glass, logs or combustion chamber surfaces.	- Clean the glass with a recommended gas fireplace glass cleaner. DO NOT CLEAN GLASS WHEN HOT. If deposits are not cleaned off regularly, the glass may become permanently marked.

