

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

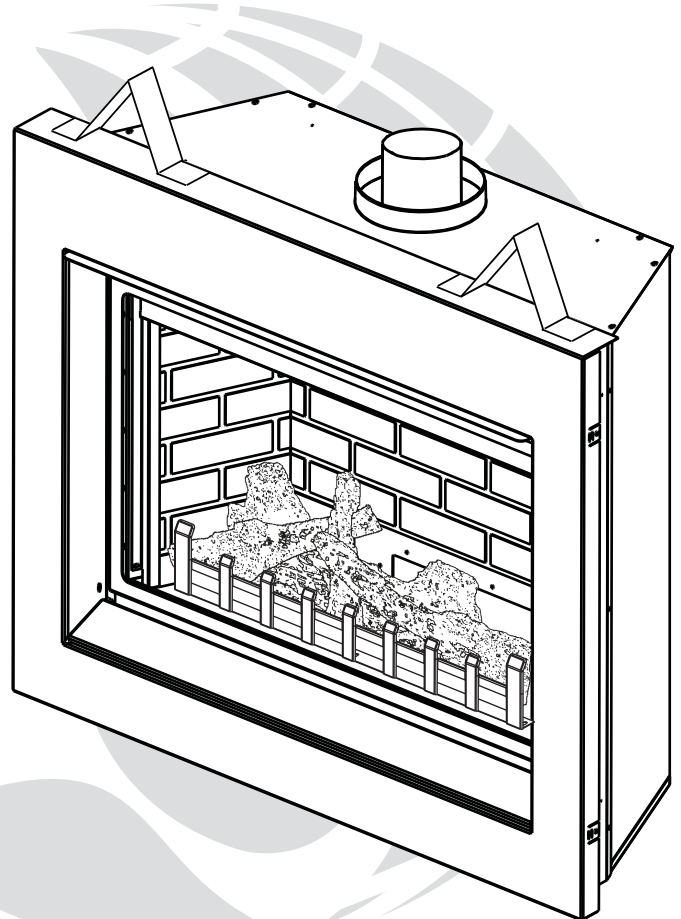


INSTALLATION AND OPERATING INSTRUCTIONS

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

**BCDV36CFNTR &
BCDV36CFGN**
NATURAL GAS MODEL

**BCDV36CFPTR &
BCDV36CFGP**
PROPANE GAS MODEL



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.



APPLY SERIAL NUMBER LABEL FROM CARTON



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

1.0 INTRODUCTION

WARNING

- **THIS APPLIANCE IS HOT WHEN OPERATED AND CAN CAUSE SEVERE BURNS IF CONTACTED.**
- Do not operate appliance before reading and understanding operating instructions. Failure to operate appliance according to operating instructions could cause fire or injury.
- Risk of fire or asphyxiation do not operate appliance with fixed glass removed.
- Do not connect 110 volts to the control valve.
- Risk of burns. The appliance 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 appliance.
- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to an appliance or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
- Clothing or other flammable material should not be placed on or near the appliance.
- Due to high temperatures, the appliance 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 appliance 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 appliance.
- It is imperative that the control compartments, burners and circulating blower and its passageway in the appliance and venting system are kept clean. The appliance 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 appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Under no circumstances should this appliance be modified.
- This appliance must not be connected to a chimney flue pipe serving a separate solid fuel burning appliance.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- Do not operate the appliance 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 appliance glass door.
- This appliance uses and requires a fast acting thermocouple. Replace only with a fast acting thermocouple supplied by Wolf Steel Ltd.
- Pressure relief doors must be kept closed while the appliance 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.
- As with any combustion appliance, we recommend having your appliance regularly inspected and serviced as well as having a Carbon Monoxide Detector installed in the same area to defend you and your family against Carbon Monoxide.

1.1 WARRANTY

CONTINENTAL® products are manufactured under the strict Standard of the world recognized ISO 9001 : 2008 Quality Assurance Certificate.

CONTINENTAL® 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 CONTINENTAL®.

CONTINENTAL® GAS FIREPLACE PRESIDENT'S LIFETIME LIMITED WARRANTY

The following materials and workmanship in your new CONTINENTAL® 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 CONTINENTAL® will provide replacement parts free of charge during the first year of the limited warranty.*

Any labour related to warranty repair is not covered.

* Construction of models vary. Warranty applies only to components included with your specific heater.

CONDITIONS AND LIMITATIONS

CONTINENTAL® 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. CONTINENTAL® 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 CONTINENTAL® 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.

CONTINENTAL® warrants its stainless steel burners against defects in workmanship and material for life, subject to the following conditions: During the first 10 years CONTINENTAL® will replace or repair the defective parts at our option free of charge. From 10 years to life, CONTINENTAL® 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, CONTINENTAL® 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).

CONTINENTAL® 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, CONTINENTAL'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 CONTINENTAL® with respect to the CONTINENTAL® gas heater and any other warranties expressed or implied with respect to this product, its components or accessories are excluded.

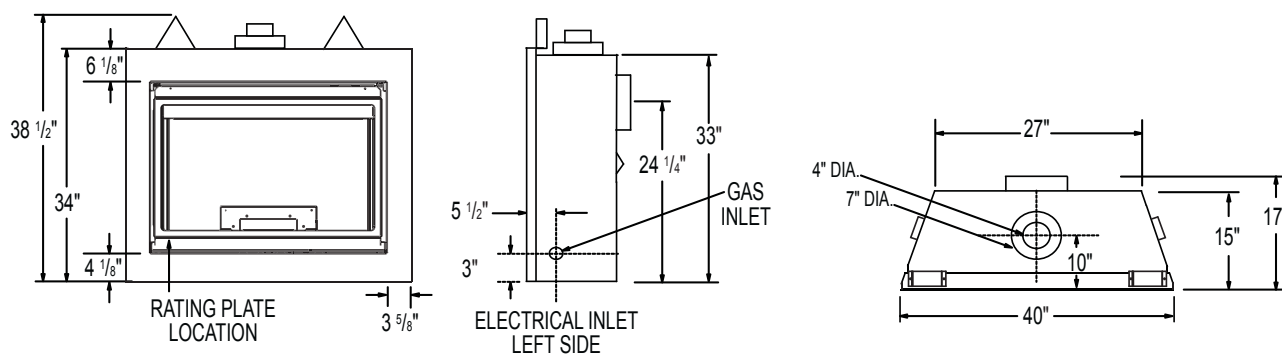
CONTINENTAL® neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this product.

CONTINENTAL® 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 CONTINENTAL®.

ALL SPECIFICATIONS AND DESIGNS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE DUT TO ON-GOING PRODUCT IMPROVEMENTS. CONTINENTAL® 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 1.2



1.3 INSTALLATION OVERVIEW

See the sections "MINIMUM ENCLOSURE CLEARANCES" for drywall (or other combustible material)

See the section "MINIMUM MANTEL AND ENCLOSURE CLEARANCES"

See the section "VENTING" and "INSTALLATION"

See the section "INSTALLATION - FRAMING"

See the section "FRAMING"

Side Wall

FIGURE 1.3

1.4 GENERAL INSTRUCTIONS

! WARNING	
ALWAYS LIGHT THE PILOT WHETHER FOR THE FIRST TIME OR IF THE GAS SUPPLY HAS RAN OUT, WITH THE GLASS DOOR OPENED OR REMOVED.	
PROVIDE ADEQUATE CLEARANCE FOR SERVICING AND OPERATING THE APPLIANCE.	
PROVIDE ADEQUATE VENTILATION.	
NEVER OBSTRUCT THE FRONT OPENING OF THE APPLIANCE.	
OBJECTS PLACED IN FRONT OF THE APPLIANCE MUST BE KEPT A MINIMUM OF 48" FROM THE FRONT FACE OF THE UNIT.	
FIRE RISK. EXPLOSION HAZARD.	
HIGH PRESSURE WILL DAMAGE VALVE. DISCONNECT GAS SUPPLY PIPING BEFORE PRESSURE TESTING GAS LINE AT TEST PRESSURES ABOVE 1/2 PSIG. CLOSE THE MANUAL SHUT-OFF VALVE BEFORE PRESSURE TESTING GAS LINE AT TEST PRESSURES EQUAL TO OR LESS THAN 1/2 PSIG.	
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.	

THIS GAS APPLIANCE 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:

- This product must be installed by a licensed plumber or gas fitter when installed within the commonwealth of Massachusetts.
- The appliance damper must be removed or welded in the open position prior to installation of a appliance 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.

As long as the required clearance to combustibles is maintained, the most desirable and beneficial location for an appliance is in the center 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 appliance 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.

4.1

When the appliance is installed directly on carpeting, vinyl tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth.



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

If the optional fan or blower is installed, the junction box must be electrically connected and grounded in accordance with 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.

All sections with BCDV36CF(G) are common to both the BCDV36CF and the BCDV36CFG.

1.5 GENERAL INFORMATION

For your satisfaction, this appliance has been test-fired to assure its operation and quality!

Maximum input: For the BCDV36CF(G) is 17,000 BTU/hr for natural gas and propane.

Maximum output: For natural gas and propane is 10,900 BTU/hr at an efficiency of 64% with the fan on. The A.F.U.E. (Annual Fuel Utilization Efficiency) rating is 53% for natural gas and propane.

When the appliance 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.

Minimum inlet: gas supply pressure is 4.5" water column for natural gas and 11" water column for propane.

Maximum inlet: gas pressure is 7" water column for natural gas and 13" water column for propane. Manifold pressure under flow conditions is 3.5" water column for natural gas and 10" water column for propane.

This appliance is approved for bathroom, bedroom and bed-sitting room installations and is suitable for mobile home installation.

No external electricity (110 volts or 24 volts) is required for the gas system operation.

Expansion / contraction noises during heating up and cooling down cycles are normal and are to be expected. Use only accessories designed for and listed with your specific appliance.

1.6 CARE OF GLASS

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

Buff lightly with a clean dry soft cloth. Clean both sides of 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.



5.1

2.0 VENTING

WARNING

RISK OF FIRE, MAINTAIN SPECIFIED AIR SPACE CLEARANCES TO VENT PIPE AND APPLIANCE.

IF VENTING IS INCLUDED WITH SPACERS THE VENT SYSTEM MUST BE SUPPORTED EVERY 3 FEET FOR BOTH VERTICAL AND HORIZONTAL RUNS. USE SUPPORTS OR EQUIVALENT NON-COMBUSTIBLE STRAPPING TO MAINTAIN THE REQUIRED CLEARANCE FROM COMBUSTIBLES. 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. SPACERS ARE ATTACHED TO THE INNER PIPE AT PREDETERMINED INTERVALS TO MAINTAIN AN EVEN AIR GAP TO THE OUTER PIPE. THIS GAP IS REQUIRED FOR SAFE OPERATION. A SPACER IS REQUIRED AT THE START, MIDDLE AND END OF EACH ELBOW TO ENSURE THIS GAP IS MAINTAINED. THESE SPACERS MUST NOT BE REMOVED.

THIS APPLIANCE 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 appliance 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 appliance after the appliance is installed. Use a firestop, vent pipe shield or attic insulation shield when penetrating interior walls, floor or ceiling.

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

7.1

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	W175-0053	Wolf Steel	www.duravent.com
Amerivent	4DSC-N2	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 appliance flue collar which must be sealed using the black high temperature sealant Mill Pac. High temperature sealant must be ordered separately.

When using Wolf Steel venting components, use only approved Wolf Steel rigid / flexible components with the following termination kits: wall terminal kit **GD222**, **GD222R**, 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 **GD201** (for wall penetration below grade). With flexible venting, in conjunction with the various terminations, use either the 5 foot vent kit **GD220** or the 10 foot vent kit **GD330**.

For optimum flame appearance and appliance performance, keep the vent length and number of elbows to a minimum. 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.

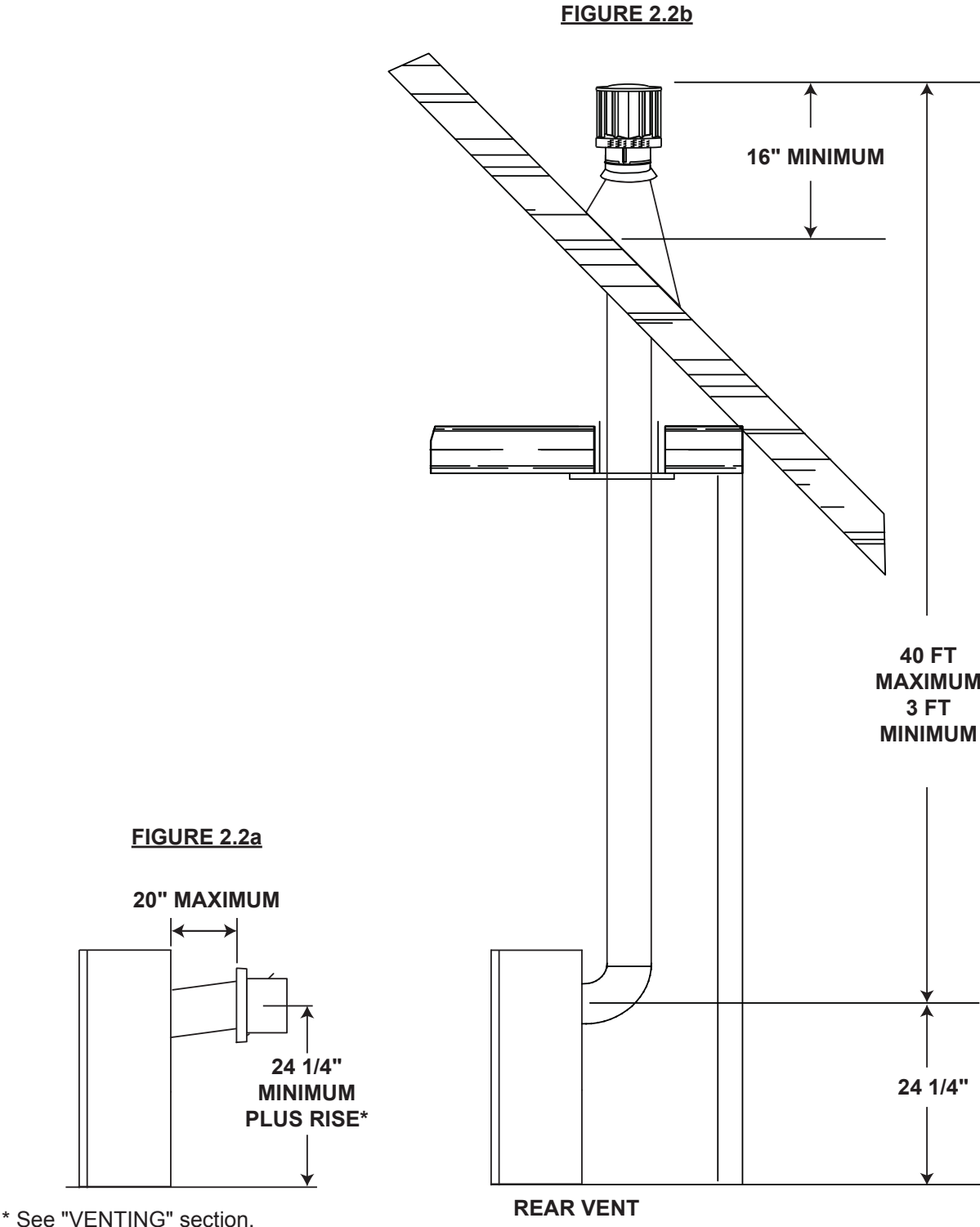
Rigid and flexible venting systems must not be combined. Different venting manufacturer components must not be combined.

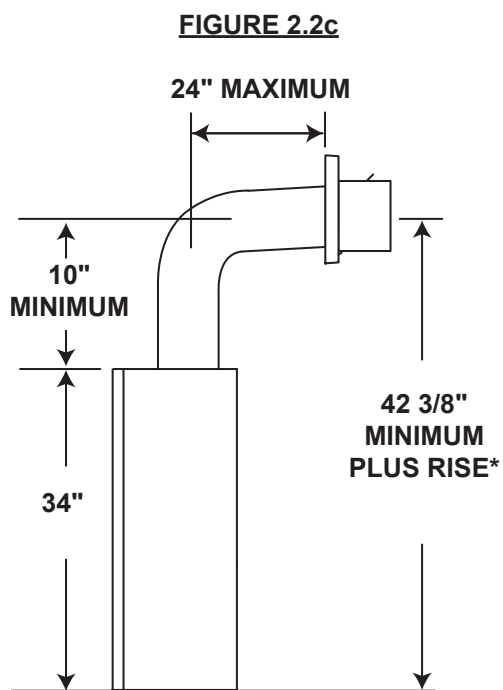
These vent kits allow for either horizontal or vertical venting of the appliance. The maximum allowable horizontal run is 20 feet. The maximum allowable vertical vent length is 40 feet. The maximum number of vent connections is two horizontally or three vertically (excluding the appliance and the air terminal connections) when using flexible venting.

8.1

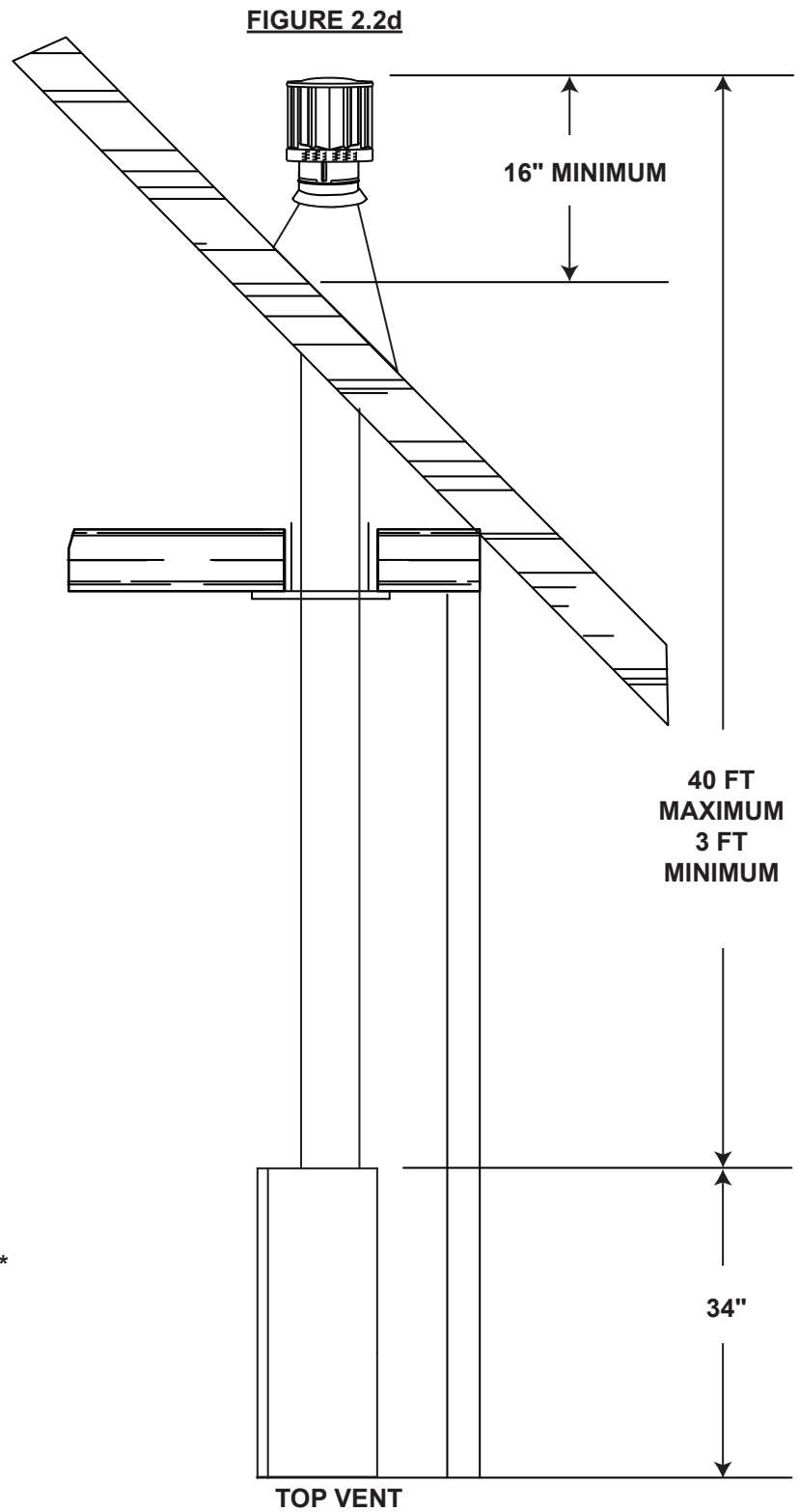
REQUIRED RISE ON HORIZONTAL VENTING		
		BCDV36CF(G)
REAR VENT	RIGID VENTING	0" / FT
	FLEXIBLE VENTING	0" / FT
TOP VENT	RIGID VENTING	0" / FT
	FLEXIBLE VENTING	0" / FT
CORNER VENT	RIGID VENTING	0"
	FLEXIBLE VENTING	6"
For optimum performance, it is recommended that all horizontal runs have a 1" rise per foot.		

2.2 TYPICAL VENT INSTALLATIONS





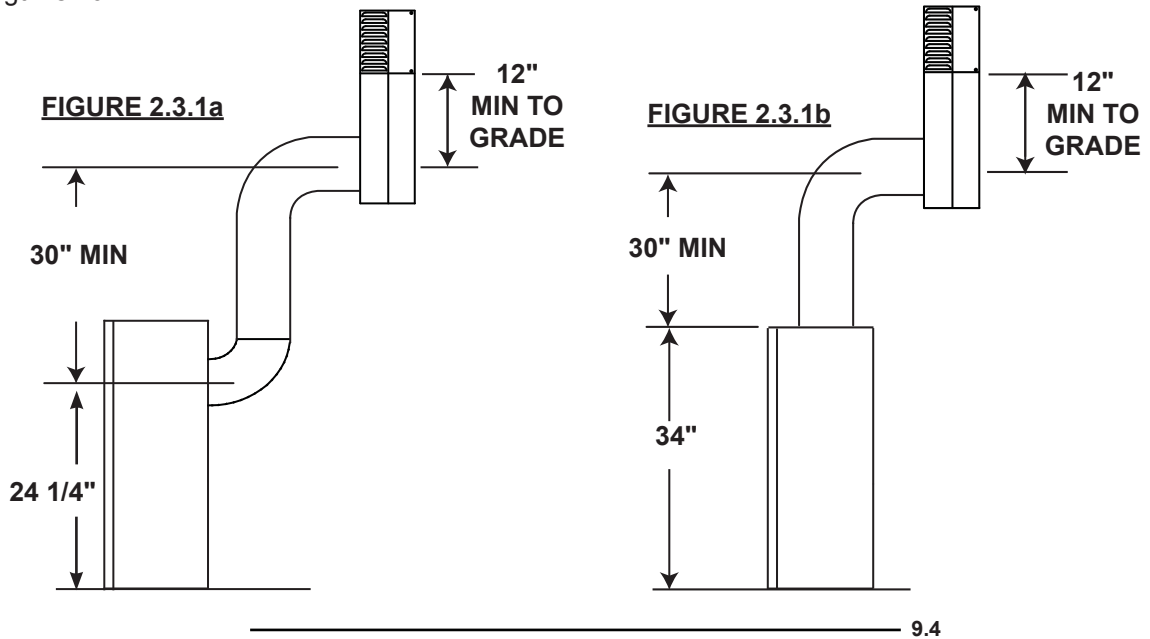
* See "VENTING" section.



2.3 SPECIAL VENT INSTALLATIONS

2.3.1 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 12" above grade. The maximum allowable vent length is 10'.



9.4

2.3.2 CORNER TERMINATION

The maximum vent length for a corner installation is 20" of horizontal run, in addition to the 45° offset. In this case zero rise is acceptable when using rigid. Flexible venting must maintain a 6" rise.

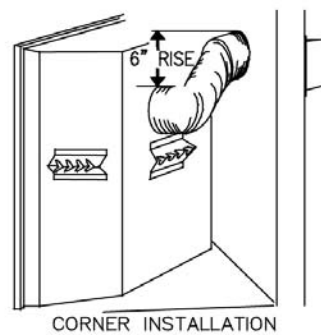
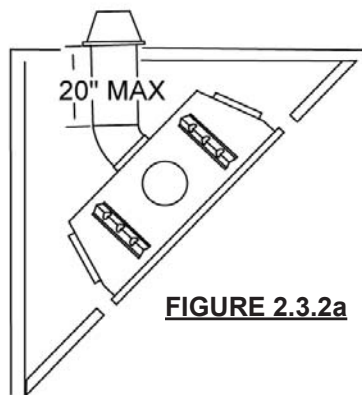
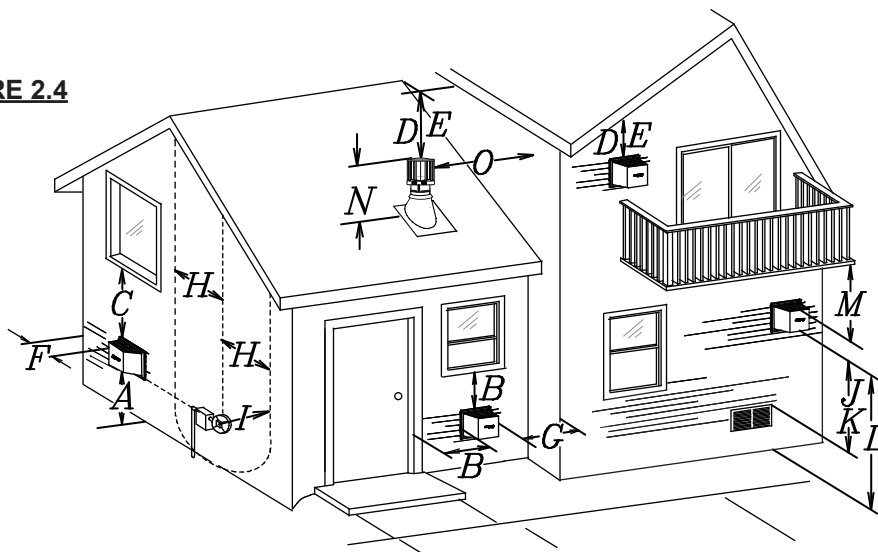


FIGURE 2.3.2b

2.4 MINIMUM AIR TERMINAL LOCATION CLEARANCES

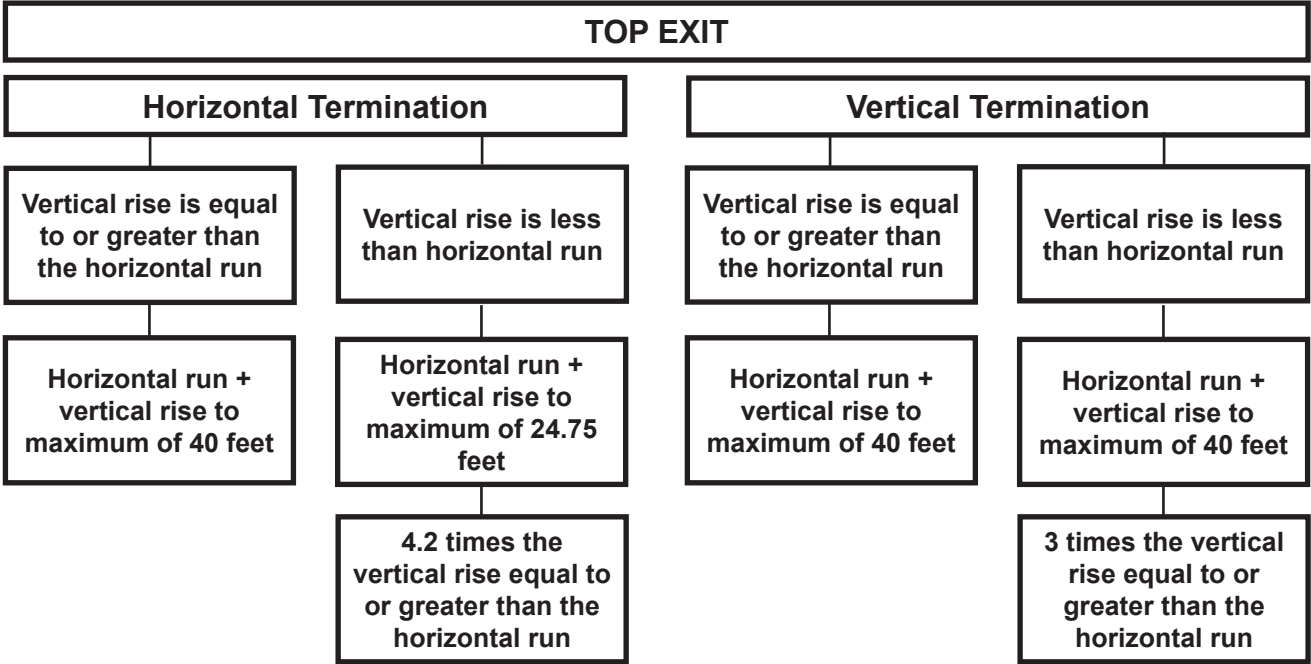
FIGURE 2.4



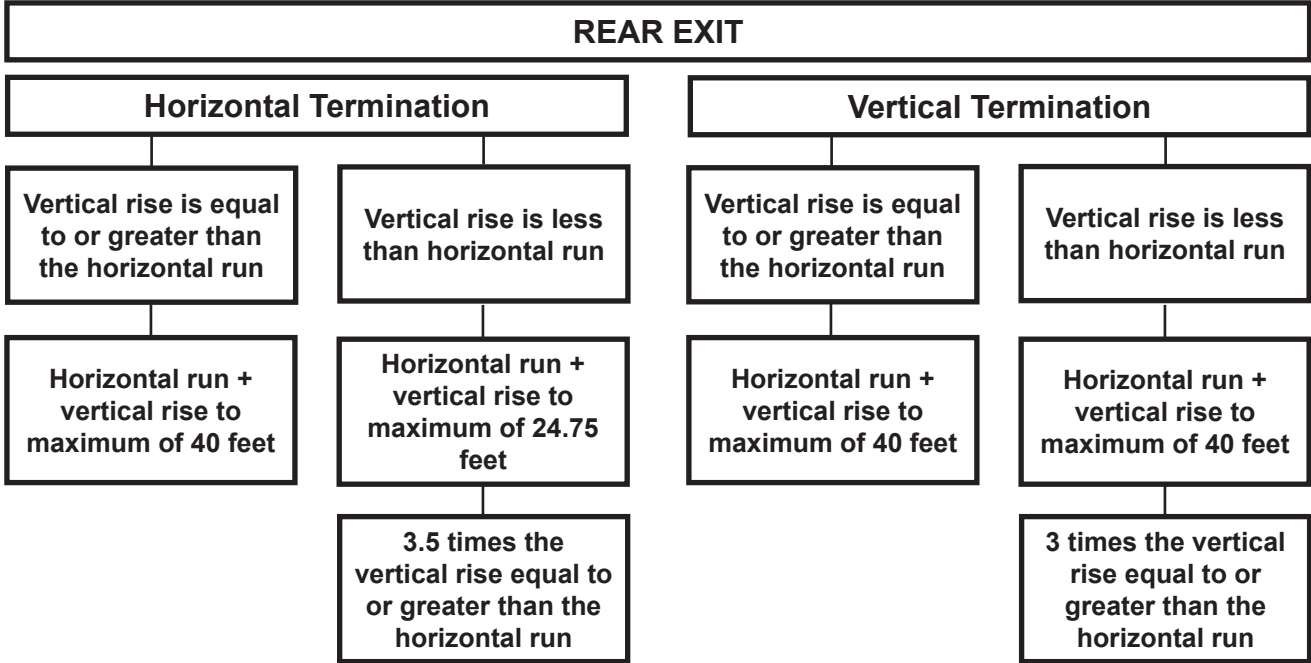
INSTALLATIONS			
	CANADA	U.S.A.	
A	12"	12"	Clearance above grade, veranda porch, deck or balcony.
B	12"	9"	Clearance to windows or doors that open.
C	12" *	12" *	Clearance to permanently closed windows.
D	18" **	18" **	Vertical clearance to ventilated soffits located above the terminal within a horizontal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

2.5 VENT APPLICATION FLOW CHART



13.1



13.2

2.6 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 - 90°*) in feet
- V_T - combined vertical vent lengths in feet

14.1

2.7 ELBOW VENT LENGTH VALUES

	<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 90° offset has a zero value and is shown in the formula as - 90°

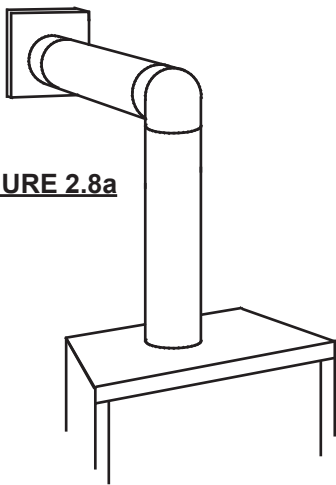
15.1

2.8 TOP EXIT HORIZONTAL TERMINATION

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

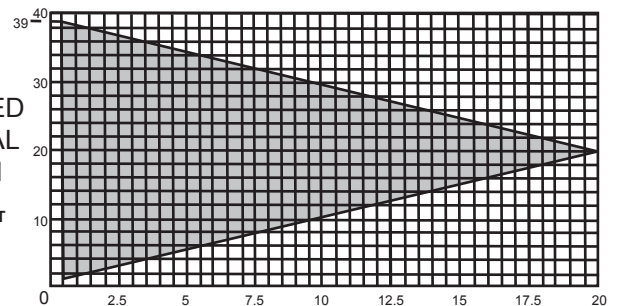
Simple venting configuration (only one 90° elbow)

FIGURE 2.8a



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

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 90° elbow, the following formulas apply:

Formula 1: $H_T \leq V_T$

Formula 2: $H_T + V_T \leq 40 \text{ feet}$

Example 1:

$$V_1 = 3 \text{ FT}$$

$$V_2 = 8 \text{ FT}$$

$$V_T = V_1 + V_2 = 3 \text{ FT} + 8 \text{ FT} = 11 \text{ FT}$$

$$H_1 = 2.5 \text{ FT}$$

$$H_2 = 2 \text{ FT}$$

$$H_R = H_1 + H_2 = 2.5 + 2 = 4.5 \text{ FT}$$

$$H_O = .03 \text{ (three } 90^\circ \text{ elbows - } 90^\circ) = .03 (270^\circ - 90^\circ) = 5.4 \text{ FT}$$

$$H_T = H_R + H_O = 4.5 + 5.4 = 9.9 \text{ FT}$$

$$H_T + V_T = 9.9 + 11 = 20.9 \text{ FT}$$

Formula 1: $H_T \leq V_T$
 $9.9 \leq 11$

Formula 2: $H_T + V_T \leq 40 \text{ FT}$
 $20.9 \leq 40$

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

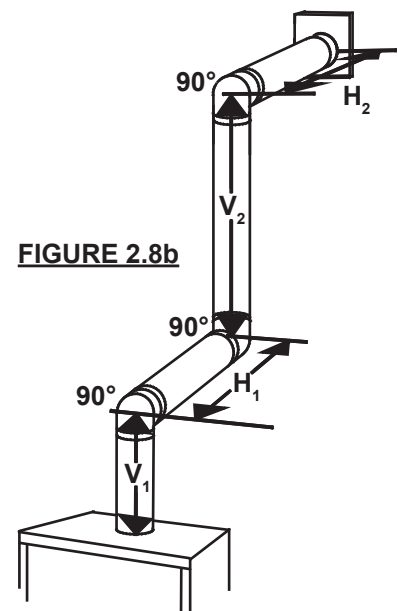


FIGURE 2.8b

16.1

$$(H_T) > (V_T)$$

Simple venting configuration
(only one 90° elbow)

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

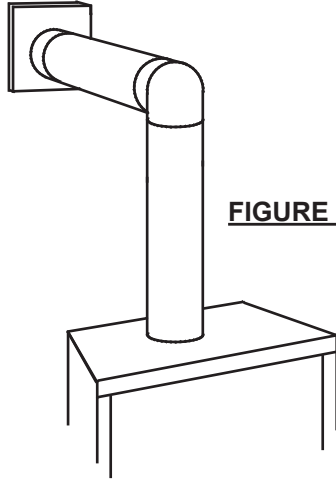
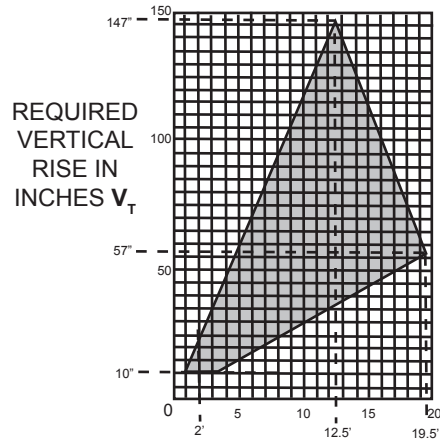


FIGURE 2.8c



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 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:

$$V_1 = V_T = 6 \text{ FT}$$

$$H_1 = 3 \text{ FT}$$

$$H_2 = 5 \text{ FT}$$

$$H_R = H_1 + H_2 = 3 + 5 = 8 \text{ FT}$$

$$H_O = .03 (\text{two } 90^\circ \text{ elbows} - 90^\circ) = .03 (180^\circ - 90^\circ) = 2.7 \text{ FT}$$

$$H_T = H_R + H_O = 8 + 2.7 = 10.7 \text{ FT}$$

$$H_T + V_T = 10.7 + 6 = 16.7 \text{ FT}$$

Formula 1: $H_T \leq 4.2 V_T$
 $4.2 V_T = 4.2 \times 6 = 25.2 \text{ FT}$

Formula 2: $H_T + V_T \leq 24.75 \text{ FT}$
 $16.7 \leq 24.75$

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

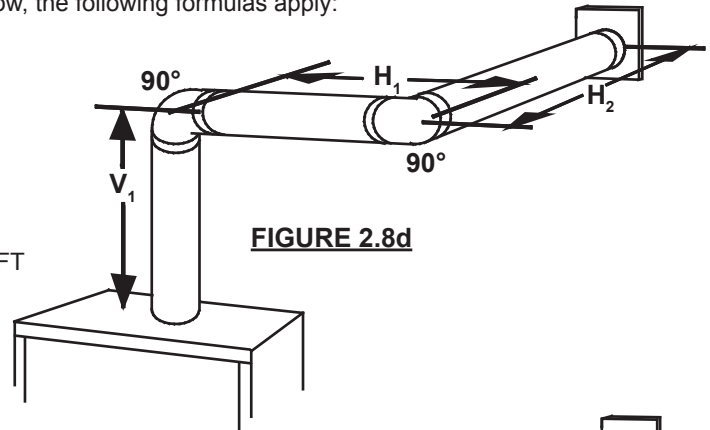


FIGURE 2.8d

Example 3:

$$V_1 = 4 \text{ FT}$$

$$V_2 = 1.5 \text{ FT}$$

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

$$H_1 = 2 \text{ FT}$$

$$H_2 = 1 \text{ FT}$$

$$H_3 = 1 \text{ FT}$$

$$H_4 = 1.5 \text{ FT}$$

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

$$H_O = .03 (\text{four } 90^\circ \text{ elbows} - 90^\circ) = .03 (360^\circ - 90^\circ) = 8.1 \text{ FT}$$

$$H_T = H_R + H_O = 5.5 + 8.1 = 13.6 \text{ FT}$$

$$H_T + V_T = 13.6 + 5.5 = 19.1 \text{ FT}$$

Formula 1: $H_T \leq 4.2 V_T$
 $4.2 V_T = 4.2 \times 5.5 = 23.1 \text{ FT}$
 $13.6 \leq 23.1$

Formula 2: $H_T + V_T \leq 24.75 \text{ FT}$
 $19.1 \leq 24.75$

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

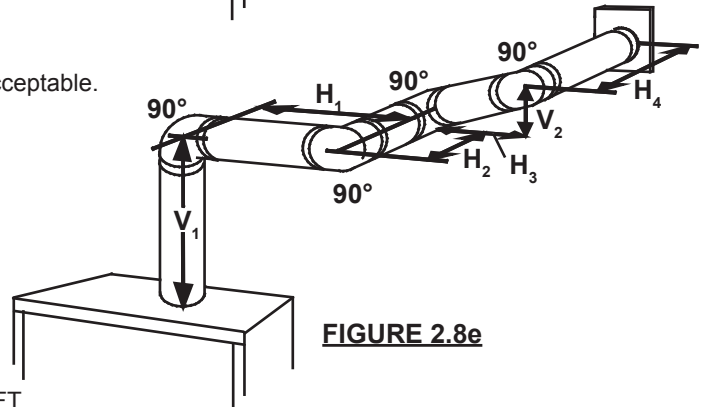


FIGURE 2.8e

2.9 REAR EXIT HORIZONTAL TERMINATION

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

Simple venting configuration
(only two 90° elbows)

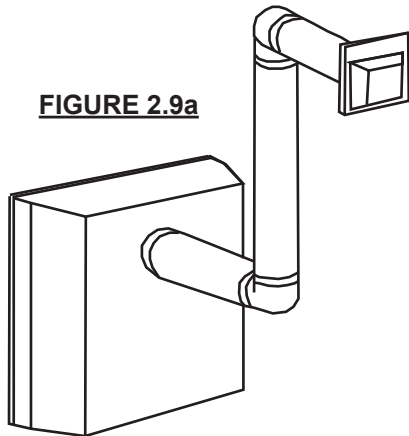
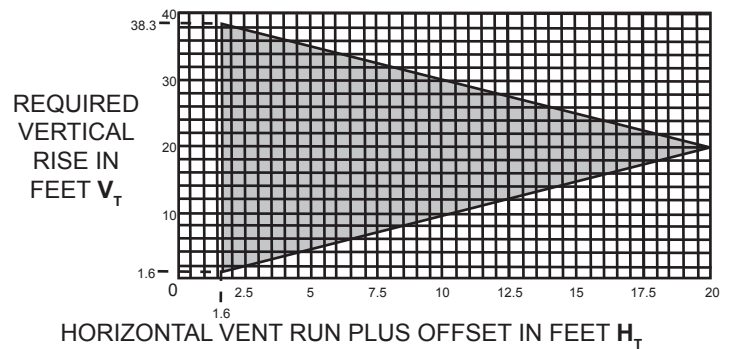


FIGURE 2.9a

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

For vent configurations requiring more than two 90° elbows, the following formulas apply:

Formula 1: $H_T \leq V_T$

Formula 2: $H_T + V_T \leq 40 \text{ feet}$

Example 4:

$$V_1 = 9 \text{ FT}$$

$$V_2 = 6 \text{ FT}$$

$$V_T = V_1 + V_2 = 9 + 6 = 15 \text{ FT}$$

$$H_1 = 3 \text{ FT}$$

$$H_2 = 2 \text{ FT}$$

$$H_3 = 1.5 \text{ FT}$$

$$H_R = H_1 + H_2 + H_3 = 3 + 2 + 1.5 = 6.5 \text{ FT}$$

$$H_O = .03 \text{ (four } 90^\circ \text{ elbows} - 90^\circ) = .03 (360^\circ - 90^\circ) = 8.1 \text{ FT}$$

$$H_T = H_R + H_O = 6.5 + 8.1 = 14.6 \text{ FT}$$

$$H_T + V_T = 14.6 + 15 = 29.6 \text{ FT}$$

Formula 1: $H_T \leq V_T$
 $14.6 \leq 15$

Formula 2: $H_T + V_T \leq 40 \text{ FT}$
 $29.6 \leq 40$

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

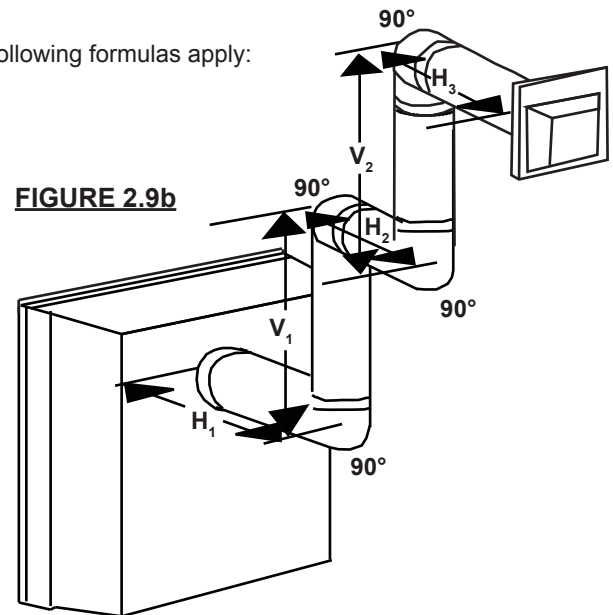
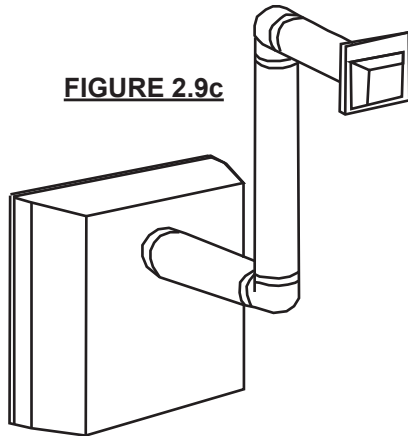


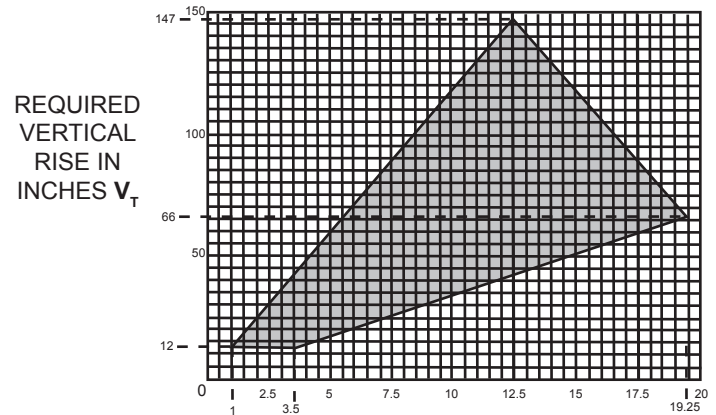
FIGURE 2.9b

$(H_T) > (V_T)$

Simple venting configuration
(only two 90° elbows)

**FIGURE 2.9c**

See graph to determine the required vertical rise V_T for the required horizontal run H_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 two 90° elbows, the following formulas apply:

Formula 1: $H_T \leq 3.5V_T$

Formula 2: $H_T + V_T \leq 24.75$ feet

Example 4:

$V_1 = 4$ FT

$V_2 = 1.5$ FT

$V_T = V_1 + V_2 = 4 + 1.5 = 5.5$ FT

$H_1 = 2$ FT

$H_2 = 1$ FT

$H_3 = 1$ FT

$H_4 = 1.5$ FT

$H_R = H_1 + H_2 + H_3 + H_4 = 2 + 1 + 1 + 1.5 = 5.5$ FT

$H_O = .03$ (four 90° elbows + one 45° elbow - 90°)
 $= .03 (90 + 90 + 90 + 90 + 45 - 90) = 9.45$ FT

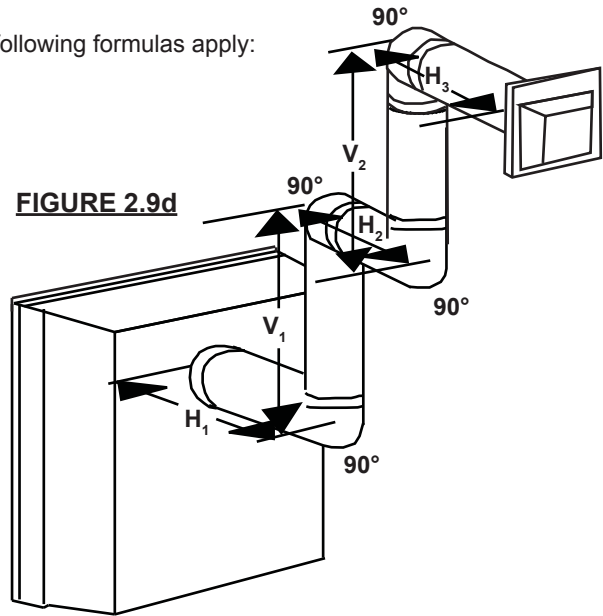
$H_T = H_R + H_O = 5.5 + 9.45 = 14.95$ FT

$H_T + V_T = 14.95 + 5.5 = 20.45$ FT

Formula 1: $H_T \leq 3.5V_T$
 $3.5V_T = 3.5 \times 5.5 = 19.25$ FT
 $14.95 \leq 19.25$

Formula 2: $H_T + V_T \leq 24.75$ FT
 $20.45 \leq 24.75$

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

**FIGURE 2.9d**

2.10 TOP OR REAR EXIT VERTICAL TERMINATION

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

Simple venting configurations.

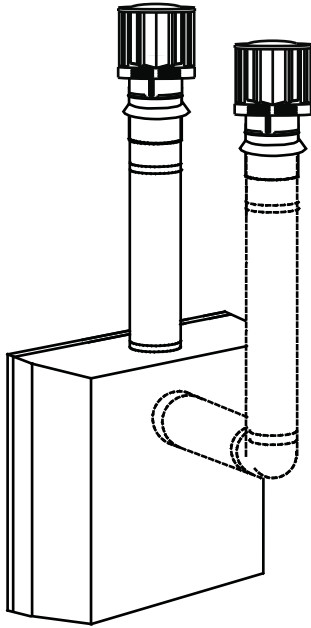
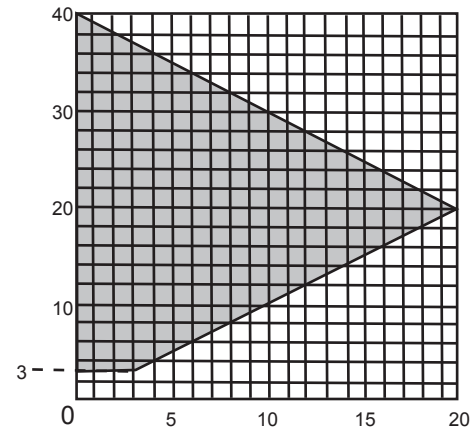


FIGURE 2.10a

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

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 one or more 90° elbows (top exit) or one or more 90° elbows (rear exit), 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

$V_2 = 6$ FT

$V_3 = 10$ FT

$V_T = V_1 + V_2 + V_3 = 5 + 6 + 10 = 21$ FT

$H_1 = 8$ FT

$H_2 = 2.5$ FT

$H_R = H_1 + H_2 = 8 + 2.5 = 10.5$ FT

$H_O = .03$ (four 90° elbows - 90°)

$= .03$ (360° - 90°) = 8.1 FT

$H_T = H_R + H_O = 10.5 + 8.1 = 18.6$ FT

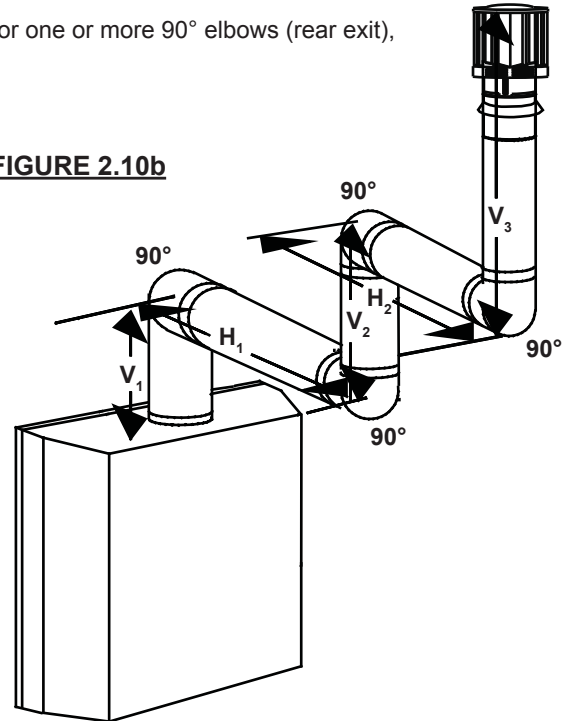
$H_T + V_T = 18.6 + 21 = 39.6$ FT

Formula 1: $H_T \leq 3.5 V_T$
 $18.6 \leq 21$

Formula 2: $H_T + V_T \leq 40$ FT
 $39.6 \leq 40$

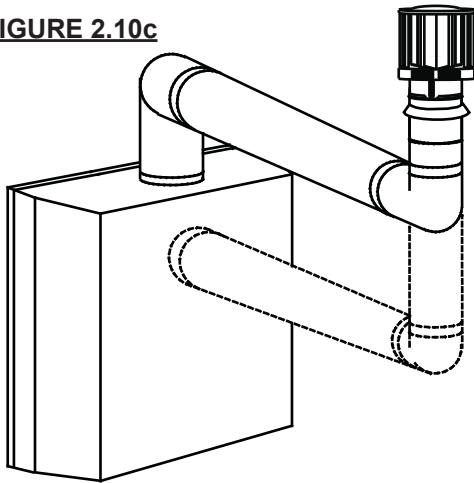
Since both formulas are met, this vent configuration is acceptable.

FIGURE 2.10b

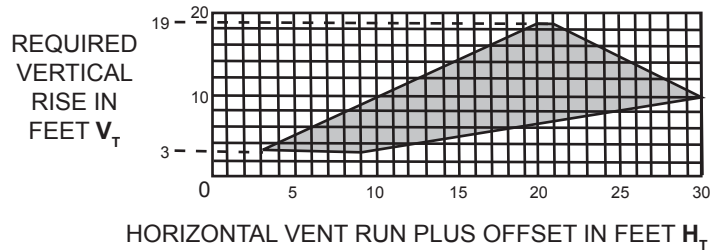


$(H_T) > (V_T)$

Simple venting configurations.

FIGURE 2.10c

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 .

For vent configurations requiring more than two 90° elbows (top exit) or one 90° elbow (rear exit), the following formulas apply:

Formula 1: $H_T \leq 3 V_T$

Formula 2: $H_T + V_T \leq 40 \text{ feet}$

Example 7:

$$V_1 = 2 \text{ FT}$$

$$V_2 = 1 \text{ FT}$$

$$V_3 = 1.5 \text{ FT}$$

$$V_T = V_1 + V_2 + V_3 = 2 + 1 + 1.5 = 4.5 \text{ FT}$$

$$H_1 = 6 \text{ FT}$$

$$H_2 = 2 \text{ FT}$$

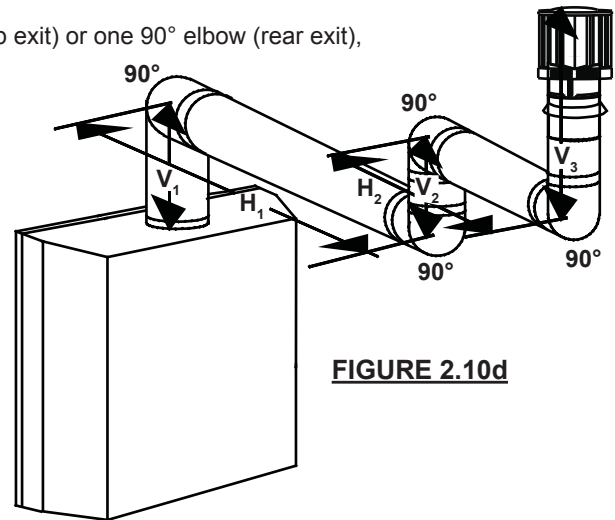
$$H_R = H_1 + H_2 = 6 + 2 = 8 \text{ FT}$$

$$H_O = .03 \text{ (four } 90^\circ \text{ elbows} - 90^\circ)$$

$$= .03 (360^\circ - 90^\circ) = 8.1 \text{ FT}$$

$$H_T = H_R + H_O = 8 + 8.1 = 16.1 \text{ FT}$$

$$H_T + V_T = 16.1 + 4.5 = 20.6 \text{ FT}$$

**FIGURE 2.10d**

Formula 1: $H_T \leq 3.5 V_T$
 $3.5 V_T = 3 \times 4.5 = 13.5 \text{ FT}$
 $16.1 \leq 13.5$

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

Formula 2: $H_T + V_T \leq 40 \text{ FT}$
 $16.1 \leq 13.5$

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.

18.2_2

Example 8:

$$V_1 = 1.5 \text{ FT}$$

$$V_2 = 5 \text{ FT}$$

$$V_T^2 = V_1^2 + V_2^2 = 1.5^2 + 1^2 + 5^2 = 6.5 \text{ FT}$$

$$H_1 = 1 \text{ FT}$$

$$H_2 = 1 \text{ FT}$$

$$H_3 = 10.75 \text{ FT}$$

$$H_R = H_1 + H_2 + H_3 = 1 + 1 + 10.75 = 12.75 \text{ FT}$$

$$H_o = .03 \text{ (four } 90^\circ \text{ elbows + one } 45^\circ \text{ elbow - } 90^\circ)$$

$$= .03 (360^\circ + 45^\circ - 90^\circ) = 6.75 \text{ FT}$$

$$H_T = H_R + H_O = 12.75 + 6.75 = 19.5 \text{ FT}$$

$$H_T + V_T = 19.5 + 6.5 = 26 \text{ FT}$$

Formula 1:

$$H_T \leq 3 V_T$$

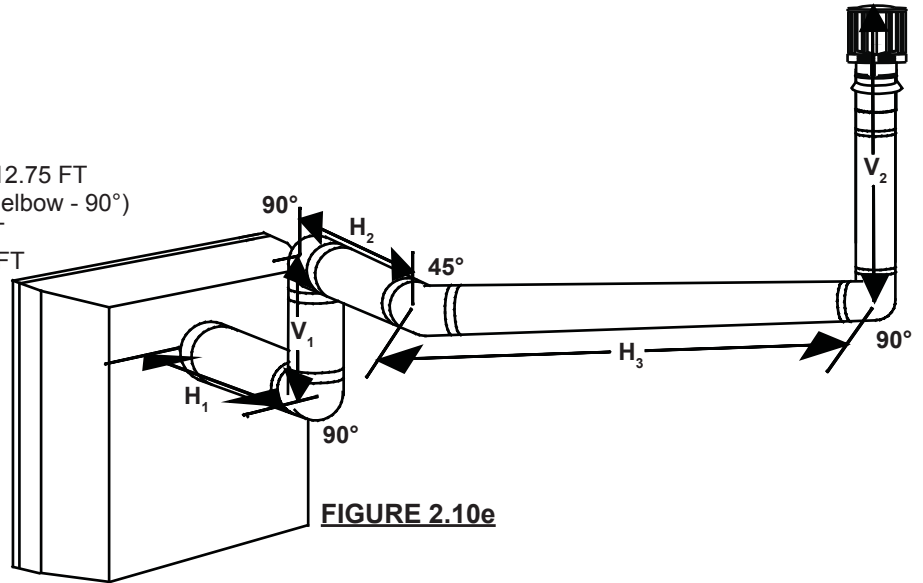
$$3 V_T = 3 \times 6.5 = 19.5 \text{ FT}$$

$$19.5 = 19.5$$

Formula 2:

$$H_T + V_T \leq 40 \text{ FT}$$

$$26 \leq 40$$



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

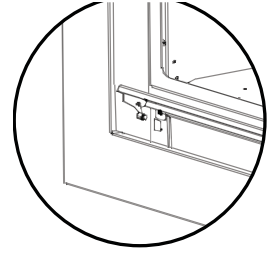
3.0 PRE-INSTALLATION PREPARATION

For optimum performance, it is recommended that all horizontal runs have a 1" rise per foot.

3.1 REMOVING THE VALVE ACCESS DOOR

- 3.1.1** The valve access door rotates on the pins attached to the side frame. Lift the valve access door off the pins to operate the main glass door.

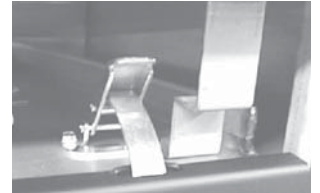
FIGURE 3.1.1



3.2 DOOR OPERATION

To access the lower door latch, open the Valve Access Door as illustrated. Release the top and bottom door latches, located at the right side of the door.

FIGURE 3.2



3.3 REAR EXIT

! WARNING

FAILURE TO INSTALL THE CAP WILL CAUSE THE APPLIANCE TO FUNCTION IMPROPERLY AND CAN CAUSE INJURY OR PROPERTY DAMAGE.

From inside the firebox, insert the 4" flue pipe / gasket assembly (provided) through the rear of the firebox. Secure the gasket assembly to the rear and top of the appliance using 4 #8 x 3/4 inch Hex Head Wildrill screws supplied.

Do not overtighten. The gasket needs only to be snug against the firebox.

Before attaching elbows to the collars on the back of the appliance, 1 1/2" will need to be trimmed off the 4" collar.



FIGURE 3.3

3.4 TOP VENT

! WARNING

FAILURE TO INSTALL THE CAP WILL CAUSE THE APPLIANCE TO FUNCTION IMPROPERLY AND CAN CAUSE INJURY OR PROPERTY DAMAGE.

- 3.4.1** Remove the 7" diameter cap from the top of the appliance and re-secure it over the 7" collar located at the rear of the appliance. Press firmly on the cap while securing to ensure an airtight seal. Do not damage the gasket.


- 3.4.2** Remove the plate covering the 4" diameter flue opening (seen inside the top of the 7" diameter collar) and discard. Try not to disturb the retaining ring or the gasket beneath. Re-secure the ring and gasket using the screws removed from the plate.

- 3.4.3** From inside the firebox, insert the 4" flue pipe / gasket assembly through the heat shield and out through the retaining ring. Secure the assembly to the rear and top of the appliance using 4 #8 x 3/4" Hex Head Wildrill screws supplied. Do not overtighten. The gasket needs only to be snug against the firebox.




FIGURE 3.4

4.0 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 APPLIANCE EXHAUST FLUE COLLAR WHICH MUST BE SEALED USING MILL PAC.	
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 RUN SUPPORTS AND CONNECT VENT SECTIONS PER INSTALLATION INSTRUCTIONS.	
RISK OF FIRE, DO NOT ALLOW LOOSE MATERIALS OR INSULATION TO TOUCH THE VENT PIPE. REMOVE INSULATION TO ALLOW FOR THE INSTALLATION OF THE ATTIC SHIELD AND TO MAINTAIN CLEARANCES TO COMBUSTIBLES.	

68.2

4.1 WALL AND CEILING PROTECTION

 WARNING
DO NOT FILL THE SPACE BETWEEN THE VENT PIPE AND ENCLOSURE 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.

70.1

For clearances to combustible materials from the vent pipe, see “FRAMING” section.

For optimum performance it is recommended that all horizontal runs have a minimum 1" rise per foot using flexible venting. For safe and proper operation of the appliance, follow the venting instructions exactly.

4.2 HORIZONTAL INSTALLATION

! WARNING

THE FIRESTOP ASSEMBLY MUST BE INSTALLED WITH THE VENT SHIELD TO THE TOP.

TERMINALS MUST NOT BE RECESSED INTO A WALL OR SIDING MORE THAN THE DEPTH OF THE RETURN FLANGE OF THE MOUNTING PLATE.

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 as illustrated 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.

The length of the vent shield may be cut shorter for combustible walls that are less than 8 1/2" thick but the vent shield must extend the full depth of the combustible wall.

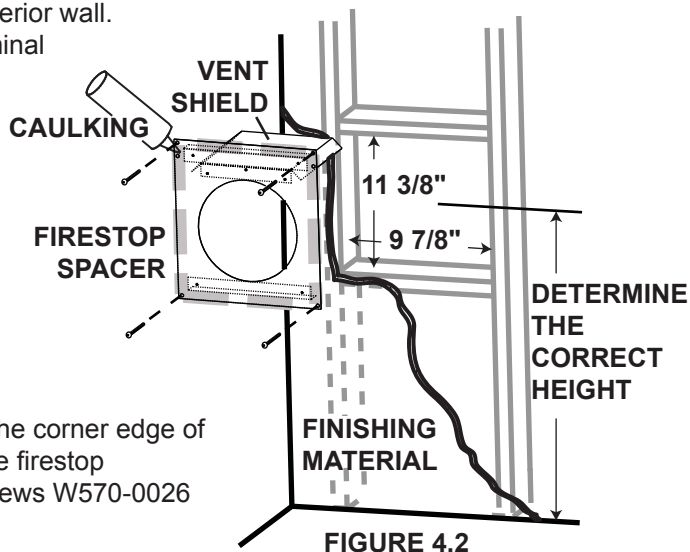


FIGURE 4.2

- A. Apply a bead of caulking (not supplied) around the corner edge of the inside surface of the firestop assembly, fit the firestop assembly to the hole and secure using the 4 screws W570-0026 (supplied in your manual baggie).
- B. Once the vent pipe is installed in its final position, apply high temperature sealant W573-0007 (not supplied) between the pipe and the firestop.

20.2

4.3 VERTICAL INSTALLATION

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.

- A. Determine the air terminal location, cut and frame a square opening as illustrated in the ceiling and the roof to provide the minimum 1" 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. 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.

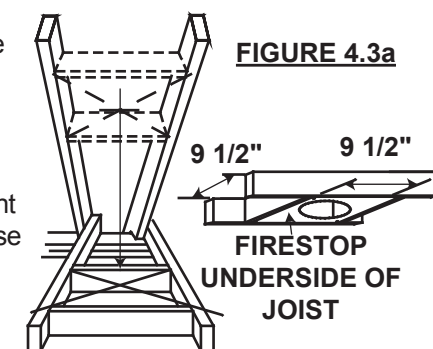


FIGURE 4.3a

- B. 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.
- C. 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.

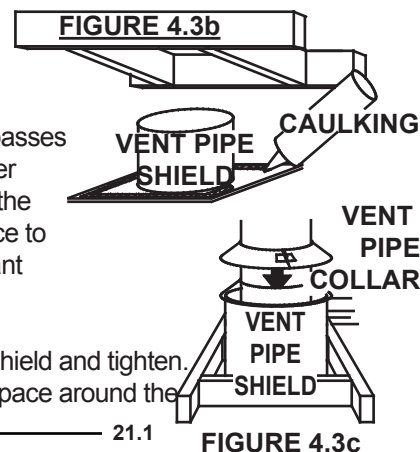


FIGURE 4.3b

FIGURE 4.3c

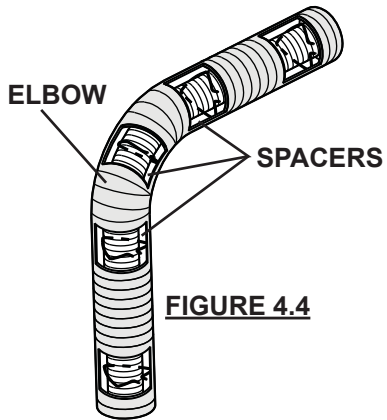
21.1

4.4 USING FLEXIBLE VENT COMPONENTS

! WARNING

DO NOT ALLOW THE INNER FLEX PIPE TO BUNCH UP ON HORIZONTAL OR VERTICAL RUNS AND ELBOWS. KEEP IT PULLED TIGHT.

SPACERS ARE ATTACHED TO THE INNER FLEX PIPE AT PREDETERMINED INTERVALS TO MAINTAIN AN EVEN AIR GAP TO THE OUTER FLEX PIPE. THIS GAP IS REQUIRED FOR SAFE OPERATION. A SPACER IS REQUIRED AT THE START, MIDDLE AND END OF EACH ELBOW TO ENSURE THIS GAP IS MAINTAINED. THESE SPACERS MUST NOT BE REMOVED.



For safe and proper operation of the appliance, follow the venting instructions exactly.

All inner flex pipe and outer flex pipe joints may be sealed using high temperature sealant W573-0002 (not supplied) or the high temperature sealant W573-0007 Mill Pac (not supplied). However, the high temperature sealant W573-0007 Mill Pac (not supplied) must be used on the joint connecting the inner flex pipe and the exhaust flue collar.

Use only approved flexible vent pipe kits marked:



“Wolf Steel Approved Venting” as identified by the stamp only on the outer flex pipe.

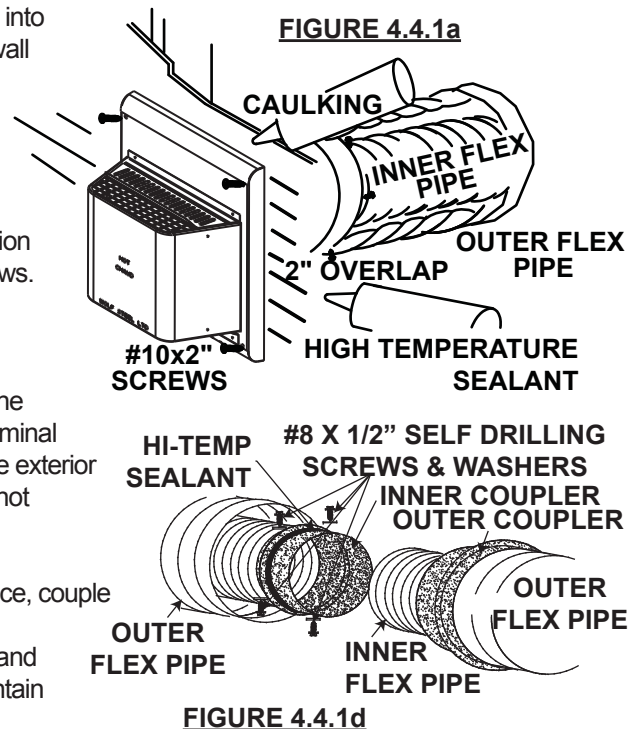
22.1

4.4.1 HORIZONTAL AIR TERMINAL INSTALLATION

! WARNING

IF USING CLAMPS TO CONNECT VENT COMPONENTS, 3 SCREWS MUST ALSO BE USED TO ENSURE THE CONNECTION CANNOT SLIP OFF.

- Stretch the inner flex pipe to the required length taking into account the additional length needed for the finished wall surface. Slip the vent pipe a minimum of 2" over the inner sleeve of the air terminal and secure with 3 #8 screws. Apply a heavy bead of the high temperature sealant W573-0007 Mill Pac (not supplied).
- Using the outer flex pipe, slide over the outer combustion air sleeve of the air terminal and secure with 3 #8 screws. Seal using high temperature sealant W573-0002 (not supplied).
- Insert the vent pipes through the firestop maintaining the required clearance to combustibles. Holding the air terminal (lettering in an upright, readable position), secure to the exterior wall and make weather tight by sealing with caulking (not supplied).
- If more vent pipe needs to be used to reach the fireplace, couple them together as illustrated. The vent system must be supported approximately every 3 feet for both vertical and horizontal runs. Use noncombustible strapping to maintain the minimum clearance to combustibles.



The air terminal mounting plate may be recessed into the exterior wall or siding no greater than the depth of its return flange.

23.1

4.4.2 VERTICAL AIR TERMINAL INSTALLATION

! WARNING

MAINTAIN A MINIMUM 2" SPACE BETWEEN THE AIR INLET BASE AND THE STORM COLLAR.

- A. 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.
- B. Stretch the inner flex pipe to the required length. Slip the inner flex 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).
- C. Repeat using the outer flex pipe, using a heavy bead of high temperature sealant W573-0002 (not supplied).
- D. Thread the air terminal connector / vent pipe assembly down through the roof. The air terminal must be positioned 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.
- E. Remove nails from the shingles, above and to the sides of the air terminal connector. 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.
- F. 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.
- G. 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.
- H. If more vent pipe needs to be used to reach the appliance see "HORIZONTAL AIR TERMINAL INSTALLATION" section.

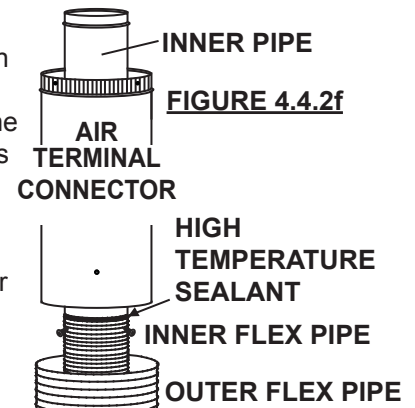
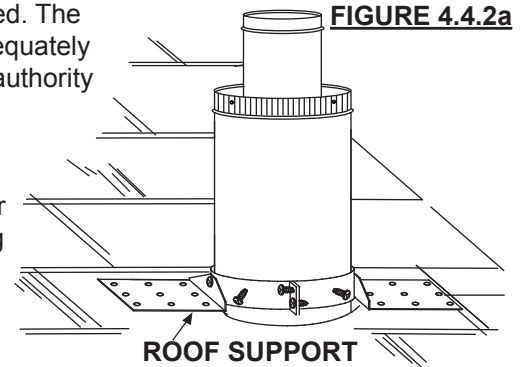
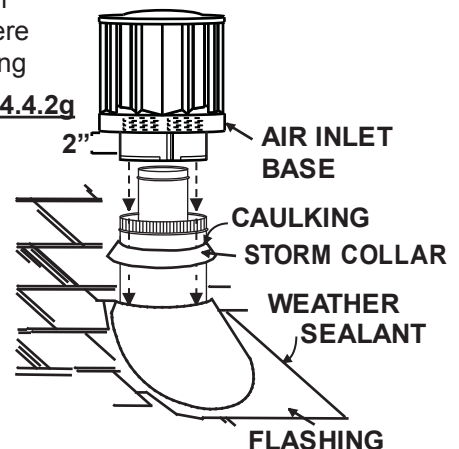
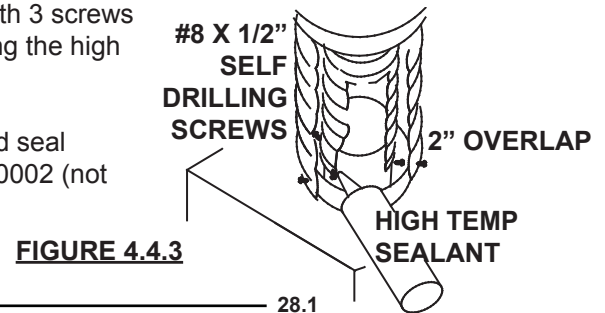


FIGURE 4.4.2g



4.4.3 APPLIANCE VENT CONNECTION

- A. Install the inner flex pipe to the appliance. Secure with 3 screws and flat washers. Seal the joint and screw holes using the high temperature sealant W573-0007 (not supplied).
- B. Install the outer flex pipe to the appliance. Attach and seal the joints using the high temperature sealant W573-0002 (not supplied).



4.5 USING RIGID VENT COMPONENTS

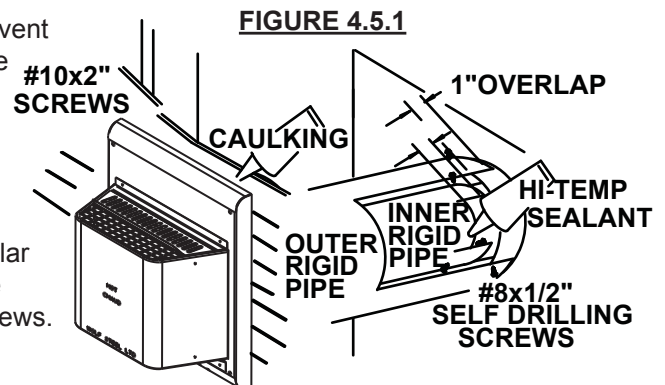
The vent system must be supported approximately every 3 feet for both vertical and horizontal runs. Use Wolf Steel Ltd. support ring assembly or equivalent noncombustible strapping to maintain the minimum clearance to combustibles for both vertical and horizontal runs.

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

25.1

4.5.1 HORIZONTAL AIR TERMINAL INSTALLATION

- A. Move the appliance into position. Measure the vent length required between terminal and appliance taking into account the additional length needed for the finished wall surface and any 1 1/4" overlaps between venting components.
- B. Apply high temperature sealant W573-0007 (not supplied) to the outer edge of the inner collar of the appliance. Attach the first inner rigid pipe component and secure using 3 self tapping screws. Repeat using the outer rigid pipe.
- C. Insert the vent pipes through the firestop maintaining the required clearance to combustibles. Holding the air terminal (lettering in an upright, readable position), secure to the exterior wall and make weather tight by sealing with caulking (not supplied).



The air terminal mounting plate may be recessed into the exterior wall or siding no greater than the depth of the return flange.

26.1

4.5.2 EXTENDED HORIZONTAL AND CORNER TERMINAL INSTALLATION

A 45° corner installation can have 0" rise between the appliance combustion air collar and the air terminal. In this case, vent lengths must be kept to a maximum of 24". For longer vent lengths, a minimum vertical rise of 24" is required.

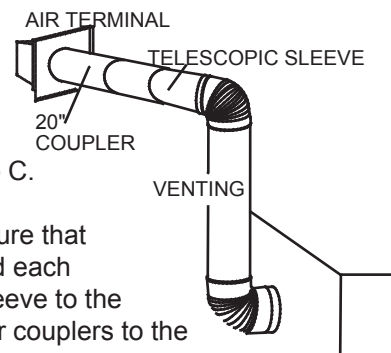


FIGURE 4.5.2

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

48.2

4.5.3 VERTICAL AIR TERMINAL INSTALLATION

NOTE: Before attaching elbows to the collars on the back of the appliance, 1 1/2" will need to be trimmed off the 4" collar.

REAR VENT APPLICATION: Attach 4" and 7" elbows to the appliance. Secure with 3 screws and seal the joints and screw heads using high temperature sealant. Proceed to step A below.

TOP VENT APPLICATION:

- A. Move the appliance into position.
- B. 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.
- C. Apply high temperature sealant W573-0007 (not supplied) to the outer edge of the inner sleeve of the air terminal. Slip the inner coupler a minimum of 2" over the sleeve and secure using 3 screws.
- D. Apply high temperature sealant W573-0002 (not supplied) to the outer edge of the of the outside sleeve of the air terminal connector. Slip the outer coupler over the sleeve and secure as before. Trim the outer coupler even with the inner coupler end.
- E. Thread the air terminal connector / vent pipe assembly down through the roof support and attach, ensuring that a minimum 16" of air terminal connector will penetrate the roof when fastened. 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 positioned vertically and plumb.
- F. Remove nails from the shingles, above and to the sides of the air terminal connector. Place the flashing over the air terminal connector and slide it underneath the sides and upper edge of the shingles. Ensure that the air terminal connector is properly centered 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.
- G. Apply a heavy bead of waterproof 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 connector and the collar is achieved.
- H. Continue adding rigid venting sections, sealing and securing as above. Attach the inner collapsed telescopic sleeve to the last section of rigid piping. Secure with screws and seal. Repeat using the outer telescopic sleeve.

REAR VENT APPLICATION:

- I. Run a bead of high temperature sealant W573-0007 (not supplied) around the outside of the inner elbow. Pull the telescopic sleeve a minimum of 2" onto the elbow. Secure with 3 screws. Repeat with the outer telescopic sleeve.

TOP VENT APPLICATION:

- J. Run a bead of high temperature sealant W573-0007 (not supplied) around the outside of the inner collar on the appliance. Pull the telescopic sleeve a minimum of 2" onto the collar. Secure with 3 screws. Repeat with the outer telescopic sleeve.
- K. 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

FIGURE 4.4.2c

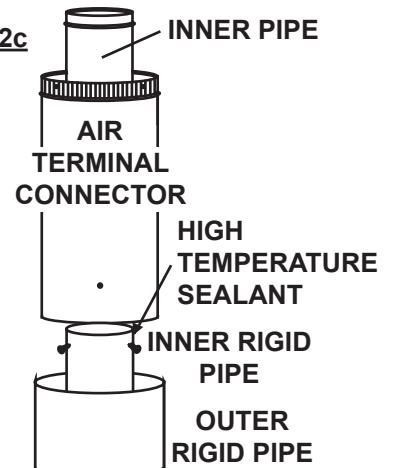
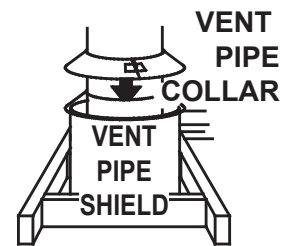


FIGURE 4.4.2e



4.6 MOBILE HOME INSTALLATION

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. Built in appliances are equipped with 1/4" diameter holes located in the front left and right corners of the base. Use #10 hex head screws, inserted through the holes in the base to secure. For free standing products contact your local authorized dealer / distributor for the appropriate securing kit. For mobile home installations, the appliance must be fastened in place. It is recommended that the appliance be secured in all installations. 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 appliance, 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 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.

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

29.1

4.7 GAS INSTALLATION

 **WARNING**

RISK OF FIRE, EXPLOSION OR ASPHYXIATION. ENSURE THERE ARE NO IGNITION SOURCES SUCH AS SPARKS OR OPEN FLAMES.

SUPPORT GAS CONTROL WHEN ATTACHING GAS SUPPLY PIPE TO PREVENT DAMAGING 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. PURGING OF THE GAS SUPPLY LINE SHOULD BE PERFORMED BY A QUALIFIED SERVICE TECHNICIAN. ASSURE THAT A CONTINUOUS GAS FLOW IS AT THE BURNER BEFORE CLOSING THE DOOR. ENSURE ADEQUATE VENTILATION. FOR GAS AND ELECTRICAL LOCATIONS, SEE "DIMENSION" SECTION.

ALL GAS CONNECTIONS MUST BE CONTAINED WITHIN THE APPLIANCE WHEN COMPLETE.

HIGH PRESSURE WILL DAMAGE VALVE. DISCONNECT GAS SUPPLY PIPING BEFORE TESTING GAS LINE AT TEST PRESSURES ABOVE 1/2 PSIG.

VALVE SETTINGS HAVE BEEN FACTORY SET, DO NOT CHANGE.

Installation and servicing to be done by a qualified installer. **Do not use open flame.**

- 4.7.1** Move the appliance into position and secure.
- 4.7.2** If equipped with a flex connector the appliance is designed to accept a 1/2" gas supply. Without the connector it is designed to accept a 3/8" gas supply. The appliance is equipped with a manual shut off valve to turn off the gas supply to the appliance.
- 4.7.3** Connect the gas supply in accordance to local codes. In the absence of local codes, install to the current CAN/CSA-B149.1 Installation Code in Canada or to the current National Fuel Gas Code, ANSI Z223.1 / NFPA 54 in the United States.
- 4.7.4** When flexing any gas line, support the gas valve so that the lines are not bent or kinked.
- 4.7.5** Check for gas leaks by brushing on a soap and water solution.

30.1

4.8 OPTIONAL WALL SWITCH EXCLUDING BCDV36CFG

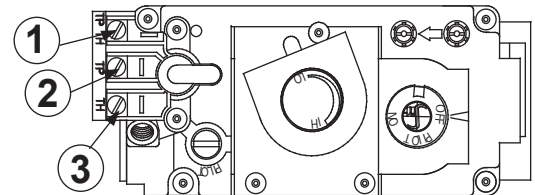
! WARNING

DO NOT CONNECT EITHER THE WALL SWITCH, THERMOSTAT OR GAS VALVE DIRECTLY TO 110 VOLT ELECTRICITY.

For ease of accessibility, an optional remote wall switch or millivolt thermostat may be installed in a convenient location. Route a 2 strand, solid core millivolt wire from the valve to the wall switch or millivolt thermostat. The recommended maximum lead length depends on wire size:

WIRE SIZE	MAX. LENGTH
14 gauge	100 feet
16 gauge	60 feet
18 gauge	40 feet

FIGURE 4.8



Disconnect the existing wires from terminals 1 and 3 (from the ON/OFF switch) and replace with the leads from the wall switch / millivolt thermostat.

50.1

5.0 FRAMING

WARNING

RISK OF FIRE!

IN ORDER TO AVOID THE POSSIBILITY OF EXPOSED INSULATION OR VAPOUR BARRIER COMING IN CONTACT WITH THE APPLIANCE BODY, IT IS RECOMMENDED THAT THE WALLS OF THE APPLIANCE ENCLOSURE BE "FINISHED" (IE: DRYWALL / SHEETROCK), AS YOU WOULD FINISH ANY OTHER OUTSIDE WALL OF A HOME. THIS WILL ENSURE THAT CLEARANCE TO COMBUSTIBLES IS MAINTAINED WITHIN THE CAVITY.

DO NOT NOTCH THE FRAMING AROUND THE APPLIANCE STAND-OFFS. FAILURE TO MAINTAIN AIR SPACE CLEARANCE MAY CAUSE OVER HEATING AND FIRE. PREVENT CONTACT WITH SAGGING OR LOOSE INSULATION OR FRAMING AND OTHER COMBUSTIBLE MATERIALS. BLOCK OPENING INTO THE CHASE TO PREVENT ENTRY OF BLOWN-IN INSULATION. MAKE SURE INSULATION AND OTHER MATERIALS ARE SECURED.

WHEN CONSTRUCTING THE ENCLOSURE ALLOW FOR FINISHING MATERIAL THICKNESS TO MAINTAIN CLEARANCES. FRAMING OR FINISHING MATERIAL CLOSER THAN THE MINIMUMS LISTED MUST BE CONSTRUCTED ENTIRELY OF NON-COMBUSTIBLE MATERIALS. MATERIALS CONSISTING ENTIRELY OF STEEL, IRON, BRICK, TILE, CONCRETE, SLATE, GLASS OR PLASTERS, OR ANY COMBINATION THEREOF ARE SUITABLE. MATERIALS THAT ARE REPORTED AS PASSING ASTM E 136, STANDARD TEST METHOD FOR BEHAVIOUR OF MATERIALS IN A VERTICAL TUBE FURNACE AT 750°C AND UL763 SHALL BE CONSIDERED NON-COMBUSTIBLE MATERIALS.

It is best to frame your appliance after it is positioned and the vent system is installed. Frame to local building codes.

It is not necessary to install a hearth extension with this appliance system.

When roughing in the appliance, raise the appliance to accommodate for the thickness of the finished floor materials, i.e. tile, carpeting, hard wood, which if not planned for will interfere with the opening of the lower access door and the installation of many decorative flashing accessories.

Combustible materials may be installed flush with the front of the appliance but must not cover any of the black face-areas of the appliance. Non-combustible material (brick, stone or ceramic tile) may protrude in these areas.

Minimum clearance to combustible construction from appliance and vent surfaces:

Non-combustible Framing:

Top - 0" to stand-offs if using optional clean face surround.

Combustible Framing:

Sides, back and bottom of appliance - 0" to rear.

Top - 3 1/2" to stand-offs if using optional clean face surround.

Combustible Finishing:

Sides, bottom and top - 0" to appliance edge.

Enclosure top - 13 1/2" to top of appliance.

Recessed depth - 25"

Top, sides and bottom of vent pipe* - 2"

Ceiling - 72" from bottom of appliance.

* **HORIZONTAL VENT SECTIONS** - A minimum clearance of 1" at the bottom and sides and 2" at the top of the vent pipe on all horizontal runs to combustibles is required. Use firestop spacer W010-1777 (supplied).

* **VERTICAL VENT SECTIONS** - A minimum of 1" all around the vent pipe on all vertical runs to combustibles is required except for clearances in appliance enclosures. See "MINIMUM ENCLOSURE CLEARANCES" section. Use firestop spacer W500-0096 (not supplied).

5.1 INSTALLING STAND-OFFS

These appliances are supplied with two standoffs. For convenience, the standoffs have been shipped flat and located on the top at the front. Before framing ensure the standoffs are bent up and screwed into place ensuring a height of 4.5".

NOTE: The information and dimensions in this section represent the minimum clearances to combustible material.

It is best to frame your appliance after it is positioned and the vent system is installed. Use 2x4's and frame to local building codes.

A steel header is required if using optional clean face surround.

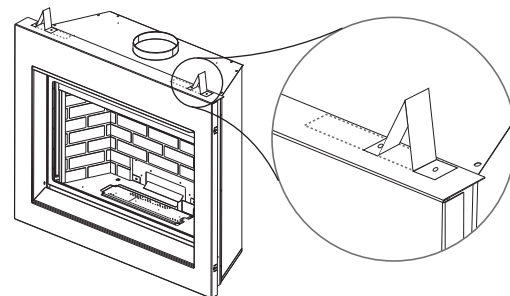


FIGURE 5.1

5.2 MINIMUM FRAMING DIMENSIONS

! WARNING

FOR TOP EXIT APPLICATIONS: DO NOT BUILD INTO THIS AREA. IT MUST BE LEFT CLEAR TO PROVIDE ADEQUATE CLEARANCE FOR THE VENT. IN THIS 14" WIDE AREA CENTRED ALONG THE FRONT OF THE APPLIANCE, NO COMBUSTIBLES ARE ALLOWED.

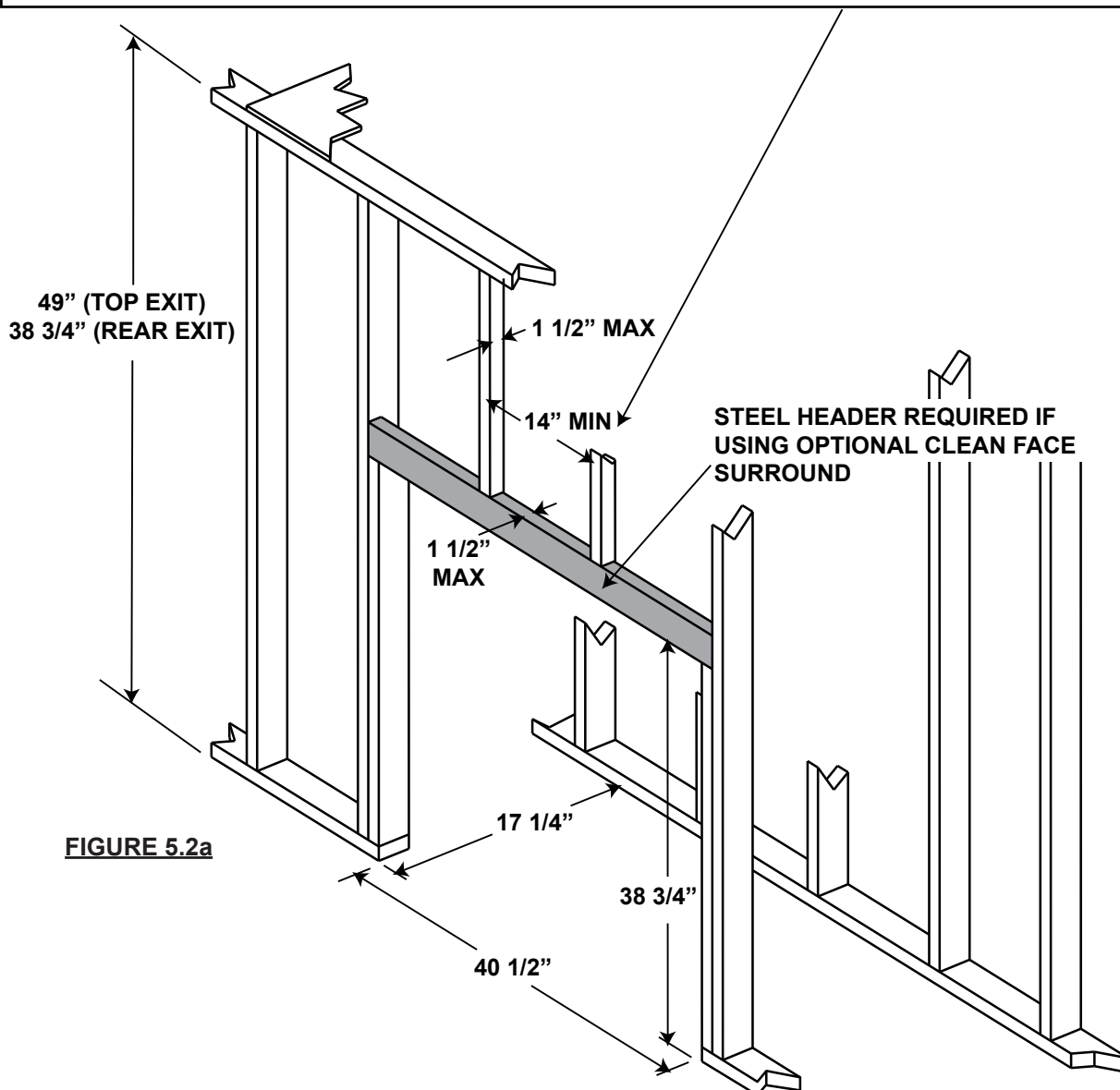


FIGURE 5.2a

! WARNING

MINIMUM CLEARANCE TO COMBUSTIBLES MUST BE MAINTAINED OR A SERIOUS FIRE COULD RESULT.

WHEN CONSTRUCTING THE ENCLOSURE ALLOW FOR FINISHING MATERIAL THICKNESS TO MAINTAIN CLEARANCES. FRAMING OR FINISHING MATERIAL CLOSER THAN THE MINIMUMS LISTED MUST BE CONSTRUCTED ENTIRELY OF NON-COMBUSTIBLE MATERIALS. MATERIALS CONSISTING ENTIRELY OF STEEL, IRON, BRICK, TILE, CONCRETE, SLATE, GLASS OR PLASTERS, OR ANY COMBINATION THEREOF ARE SUITABLE. MATERIALS THAT ARE REPORTED AS PASSING ASTM E 136, STANDARD TEST METHOD FOR BEHAVIOUR OF MATERIALS IN A VERTICAL TUBE FURNACE AT 750°C AND UL763 SHALL BE CONSIDERED NON-COMBUSTIBLE MATERIAL.

NEVER OBSTRUCT THE FRONT OPENING OF THE APPLIANCE.

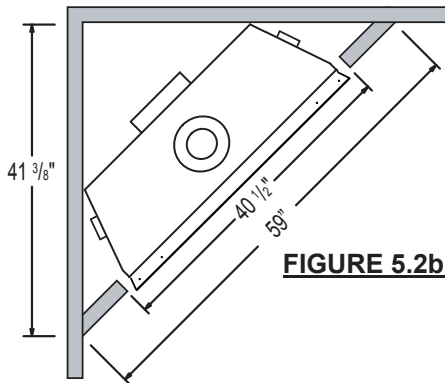


FIGURE 5.2b

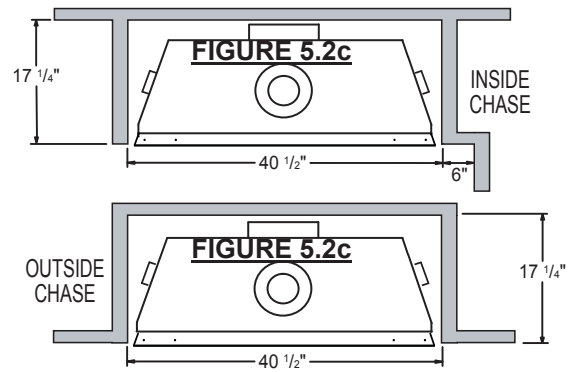


FIGURE 5.2c

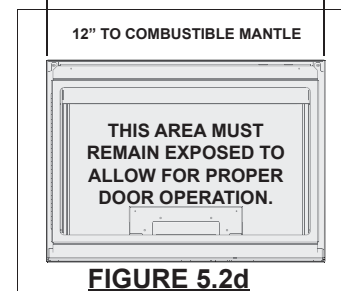


FIGURE 5.2d

IMPORTANT:

Encroaching in this area with finishing material will interfere with the opening of the door.

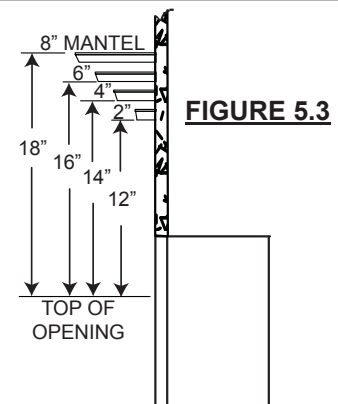
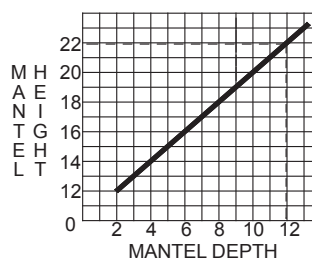
5.3 MINIMUM MANTEL CLEARANCES

! 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, MANTEL, FRONT, ETC.) ARE CLEARLY MAINTAINED.

WHEN USING PAINT OR LACQUER TO FINISH THE MANTEL, THE PAINT OR LACQUER MUST BE HEAT RESISTANT TO PREVENT DISCOLOURATION.

Combustible mantel clearance can vary according to the mantel depth. Use the graph to help evaluate the clearance needed.

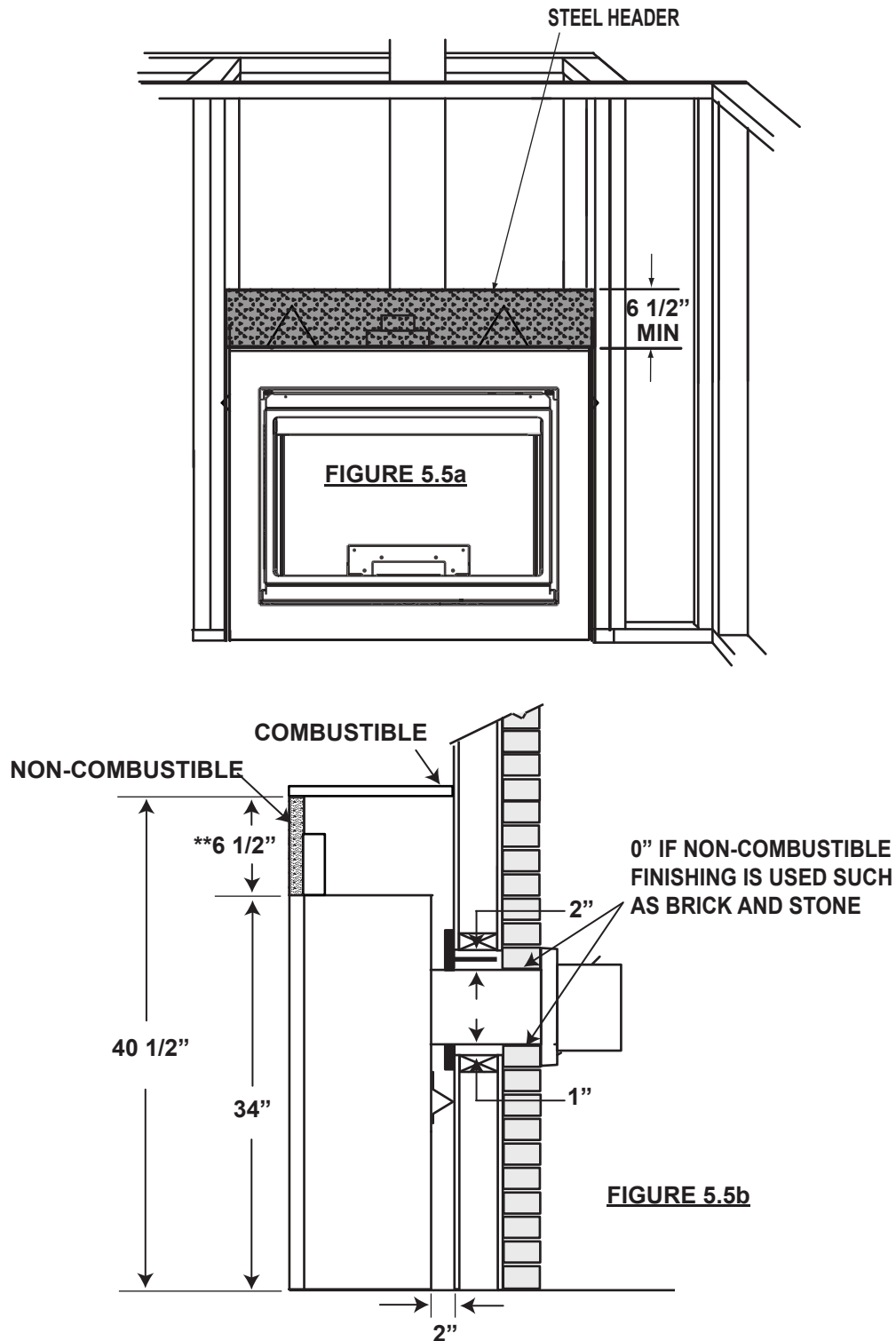


5.5 CLEAN FACE SURROUND MINIMUM ENCLOSURE CLEARANCES

! WARNING

NON-COMBUSTIBLE FINISHING MATERIALS REQUIRED SUCH AS BRICK AND TILE CAN BE EXTENDED OVER THE BLACK FACE OF THE APPLIANCE.

USE ONLY NON-COMBUSTIBLE MATERIAL SUCH AS CEMENT BOARD, CERAMIC TILE, MARBLE, ETC. WHEN FINISHING TO THE APPLIANCE. DO NOT USE WOOD OR DRYWALL.



** Installation requires a minimum 6 1/2" of non-combustible facing above the top of the appliance.

6.0 FINISHING

6.1 DOOR INSTALLATION & REMOVAL

! WARNING
GLASS MAY BE HOT, DO NOT TOUCH GLASS UNTIL COOLED.
THE DOOR LATCHES ARE PART OF A SAFETY SYSTEM AND MUST BE PROPERLY ENGAGED. DO NOT OPERATE THE APPLIANCE WITH LATCHES DISENGAGED.
FACING AND/OR FINISHING MATERIALS MUST NOT INTERFERE WITH AIR FLOW THROUGH AIR OPENINGS, LOUVRES OPENINGS, OPERATION OF LOUVRES OR DOORS OR ACCESS FOR SERVICE. OBSERVE ALL CLEARANCES WHEN APPLYING COMBUSTIBLE MATERIALS.
BEFORE DOOR IS REMOVED TURN THE APPLIANCE OFF AND WAIT UNTIL APPLIANCE IS COOL TO THE TOUCH. DOORS ARE HEAVY AND FRAGILE SO HANDLE WITH CARE.

75.1

To access the lower door latch, open the valve control door. Release the top and bottom door latches, located at the right side of the door.

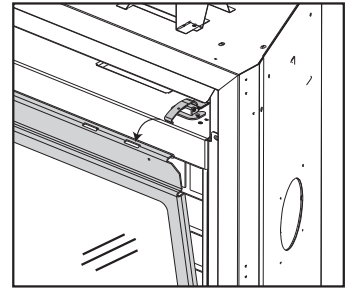


FIGURE 6.1

6.2 GLASS DOOR REPLACEMENT

! WARNING
DO NOT USE SUBSTITUTE MATERIALS.
GLASS MAY BE HOT, DO NOT TOUCH GLASS UNTIL COOLED.
CARE MUST BE TAKEN WHEN REMOVING AND DISPOSING OF ANY BROKEN DOOR GLASS OR DAMAGED COMPONENTS. BE SURE TO VACUUM UP ANY BROKEN GLASS FROM INSIDE THE APPLIANCE BEFORE OPERATION.
DO NOT STRIKE, SLAM OR SCRATCH GLASS. DO NOT OPERATE APPLIANCE WITH GLASS REMOVED, CRACKED, BROKEN OR SCRATCHED.

- 6.2.1 Place the door frame face down careful not to scratch the paint.
- 6.2.2 Center the gasketed glass inside the door frame with the thick side of the gasket facing up.
- 6.2.3 Bend the glass retainers located along the edge of the door frame over the gasket holding the glass in place. Careful not to break the glass.

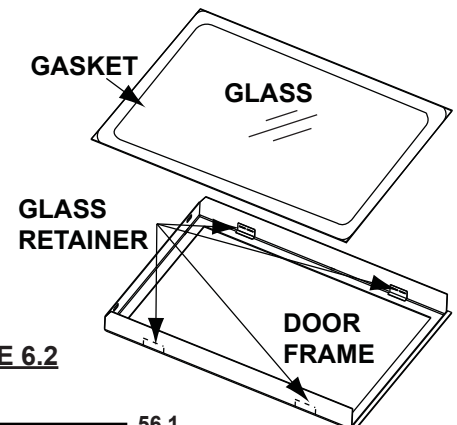
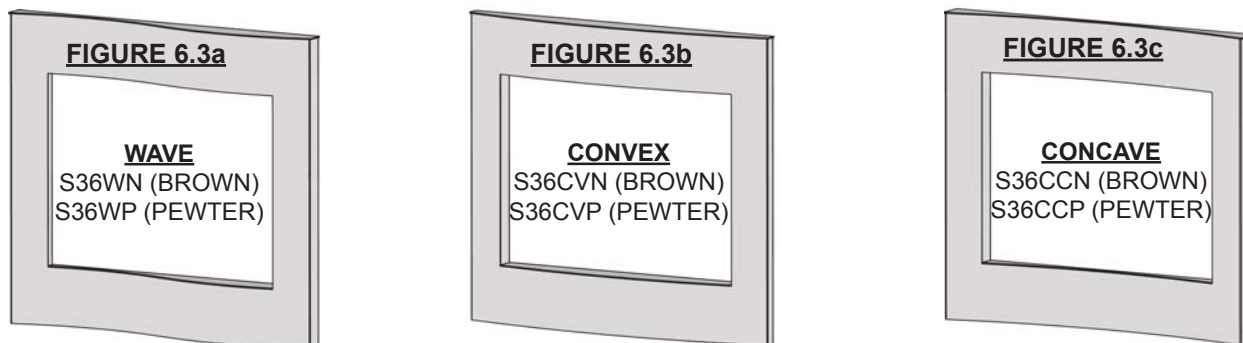


FIGURE 6.2

56.1

6.3 OPTIONAL CLEAN FACE SURROUND INSTALLATION



Installation requires a minimum of 6 1/2" non-combustible facing material at the top of the appliance. Refer to illustrations above (depending on your installation) to ensure your appliance has been installed with the proper requirements for this kit.

Whether installing to a finished floor or a hearth, a 3/8" clearance must be maintained at the bottom of the clean face surround kit. To obtain this clearance an appliance riser is required.

6.3.1 FINISHED FLOOR INSTALLATION

When installing to a finished floor the appliance riser must create a minimum clearance of 3 3/8" from the finished floor to the bottom of the appliance.

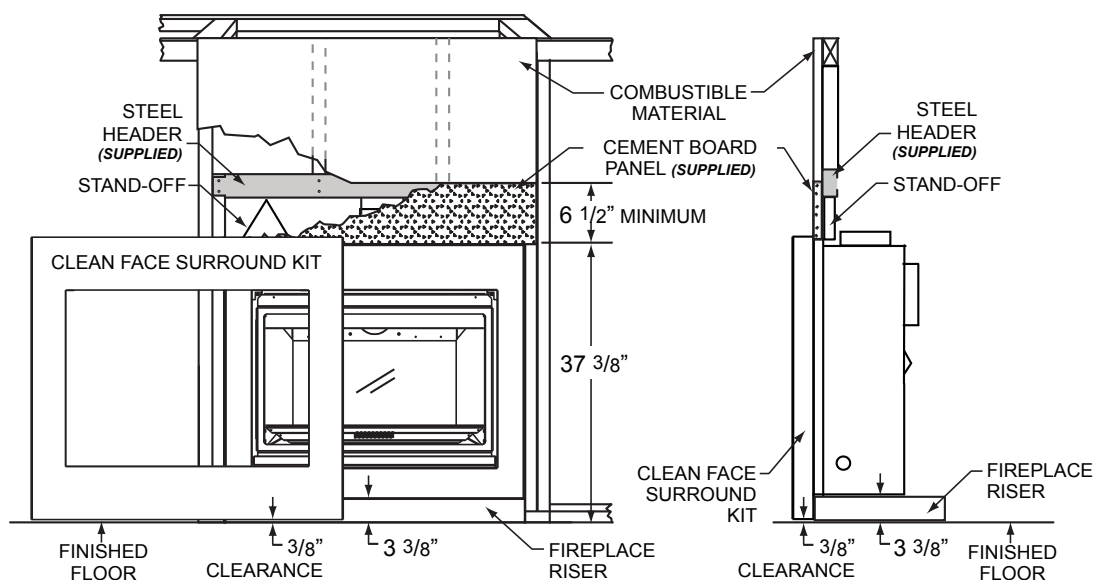
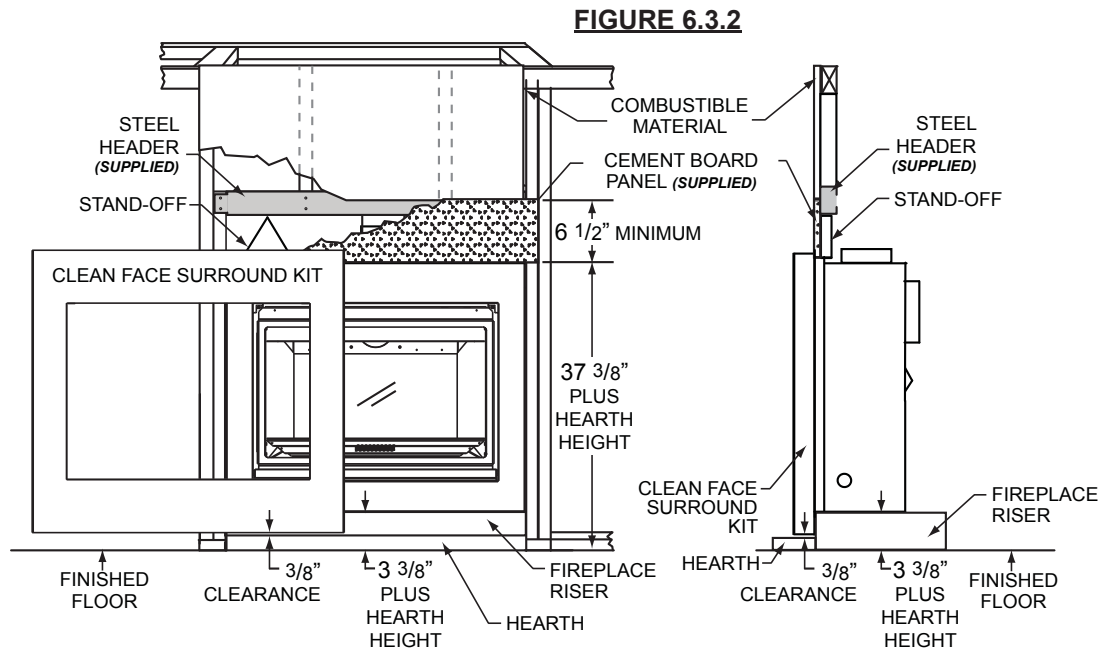


FIGURE 6.3.1

6.3.2 HEARTH INSTALLATION

When installing to a hearth the appliance riser must create a minimum clearance of 3 3/8" PLUS the height of the hearth from the finished floor to the bottom of the appliance.



6.3.3 STEEL HEADER INSTALLATION

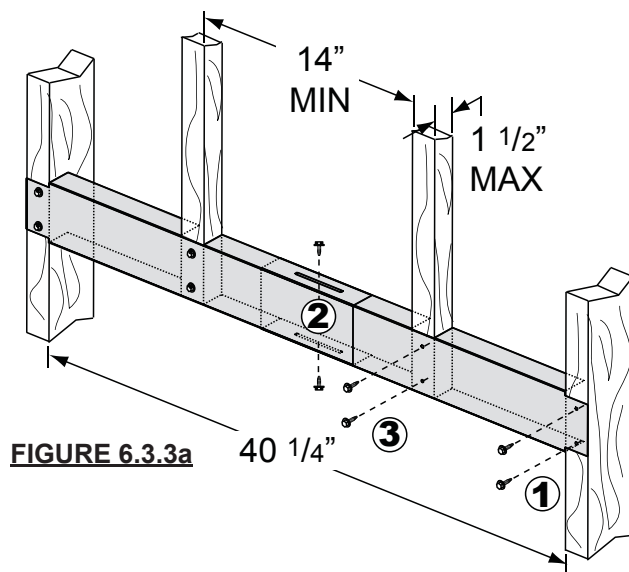
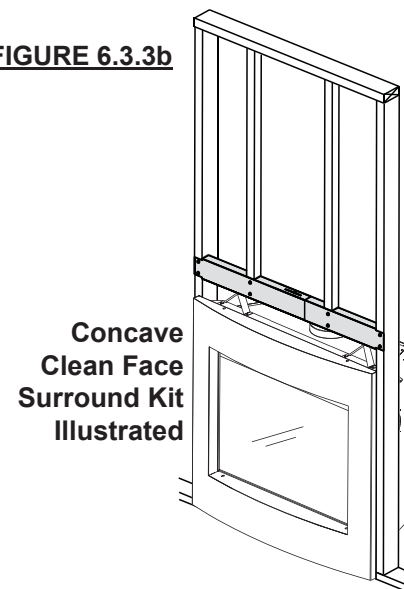


FIGURE 6.3.3b



NOTE: The optional cleanface trim kit must be installed before proceeding.

6.3.4 CLEAN FACE TRIM KIT INSTALLATION

The “wave” clean face surround kit is shown in all illustrations.

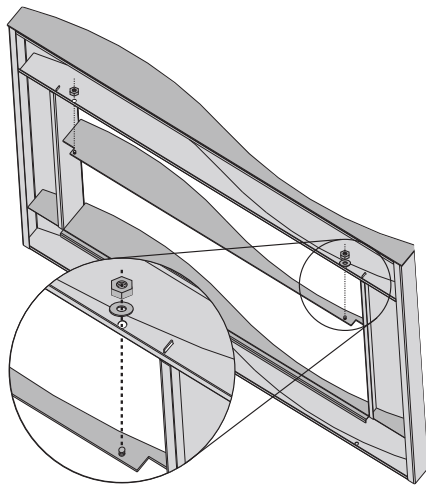


FIGURE 6.3.4a

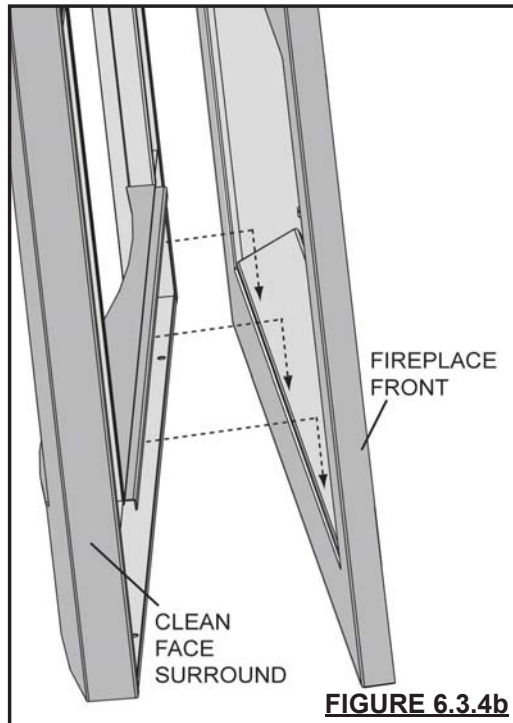


FIGURE 6.3.4b

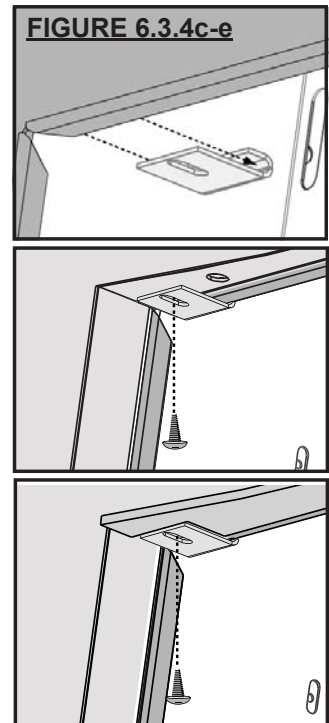


FIGURE 6.3.4c-e

NOTE: The optional cleanface trim kit must be installed before proceeding.

- A.** From the rear side of the clean face front, insert the weld studs on the top window plate assembly upward through the holes on the underside of the top section of the clean face front.
- B.** Using a socket wrench, secure using the nuts and washers provided. Depending on your surround, space may be tight.
- C.** First secure the clean face surround to the appliance front by hooking the ledge that runs horizontally on the rear surface of the clean face surround over the bottom edge of the appliance front opening.
- D.** With the clean face surround against the appliance front, hook the surround clips in behind the top lip of the appliance front opening and secure using the screws provided through the slot in the surround clip and into the pre-drilled hole in the clean face surround. If the optional clean face trim kit was installed, the surround clip fits into the cut out and is secured in the same fashion.

6.4 BCDV36CF FINISHING

6.4.1 LOG PLACEMENT

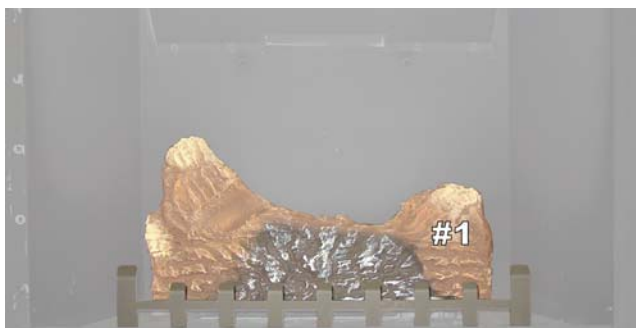
! WARNING

LOGS MUST BE PLACED IN THEIR EXACT LOCATION IN HEATER. DO NOT CHANGE FROM THE PROPER LOG POSITIONS, SINCE HEATER MAY NOT FUNCTION PROPERLY AND DELAYED IGNITION MAY OCCUR.

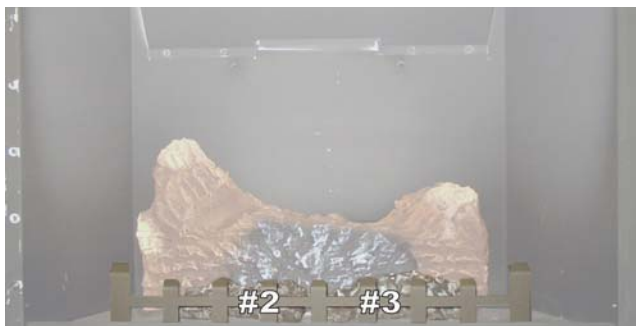
THE LOGS ARE FRAGILE AND SHOULD BE HANDLED WITH CARE.

PHAZER™ logs and glowing embers exclusive to Napoleon Fireplaces, provide a unique and realistic glowing effect that is different in every installation. Take the time to carefully position the glowing embers for a maximum glowing effect.

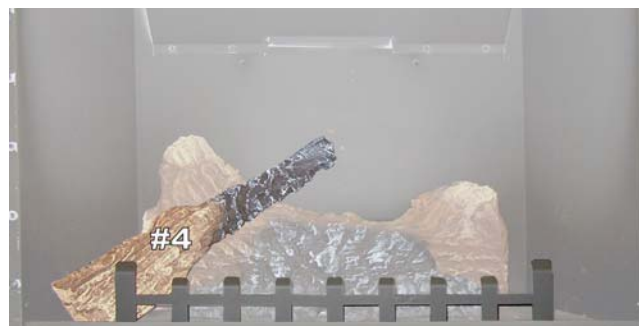
Log colours may vary. During the initial use of the fireplace, the colours will become more uniform as colour pigments burn in during the heat activated curing process.



- A.** Place the back log (#1) onto the log support tray and in front of the tabs. The tabs maintain an air space between the log and firebox back to facilitate combustion air flow. Ensure that the back of the log rests against the brackets on the back wall of the firebox.



- B.** Move the two small logs (#2 & #3) into position, lining up the studs located on the burner with the holes on the bottom of the logs. Ensure that the small logs sit flat on the burner.



- C.** Place the bottom of the left crossover log (#4) against the left firebox side and pulled forward to the grate. The top of the log should rest in the pocket on the back log.



- D.** Position the base end of the center log (#5) against the middle grate post with the other end of the log resting in the pocket of the left crossover log.



- E.** Place the bottom of the right crossover log (#6) against the right firebox side and pulled forward to the grate. The top of the log should rest in the pocket provided on the center log (#5).

6.4.2 GLOWING EMBERS

Tear the embers into pieces and place along the front row of ports covering all of the burner area in front of the small logs. Care should be taken to shred the embers into thin, small irregular pieces as only the exposed edges of the fibre hairs will glow. **The ember material will only glow when exposed to direct flame; however, care should be taken to not block the burner ports.**

Blocked burner ports can cause an incorrect flame pattern, carbon deposits and delayed ignition. **PHAZER™** logs glow when exposed to direct flame. Use only certified "glowing embers" and **PHAZER™** logs available from your Continental® dealer.

6.4.3 CHARCOAL EMBERS

Randomly place the charcoal embers along the front and sides of the log support tray in a realistic manner. **Fine dust found in the bottom of the bag should not be used.**

NOTE: Charcoal embers are not to be placed on the burner.

32.1

6.4.4 LOGO PLACEMENT

Remove the backing of the logo supplied and place on the glass viewing door, as indicated.

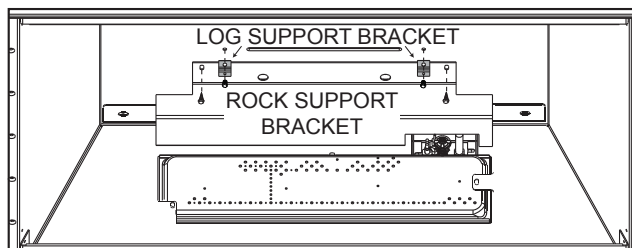


6.4.5 OPTIONAL ROCK KIT

(RAK-ROCK ADAPTOR KIT IS NECESSARY WITH THIS KIT).

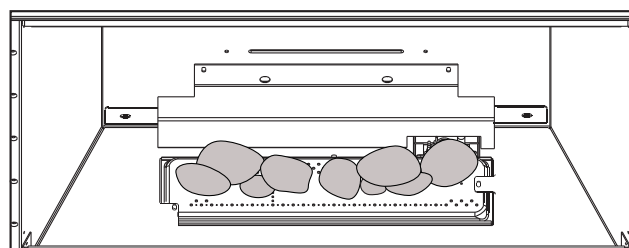
! WARNING

REAL ROCKS MUST NOT BE USED IN THIS APPLIANCE. HEAT WILL CAUSE THEM TO EXPLODE.

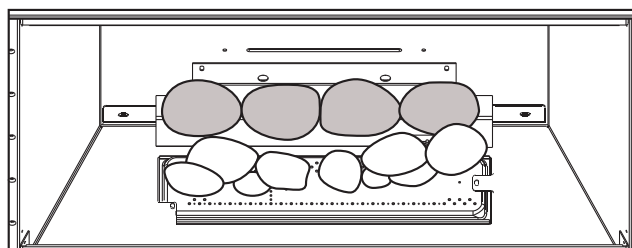


- A. Remove all logs and media.
- B. Remove the 2 screws and log support brackets already installed in the firebox and secure the rock support bracket along the back of the firebox.

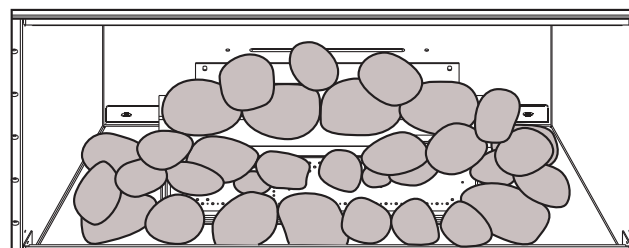
NOTE: When the porcelain panels are installed, the rock support bracket is secured over the rear porcelain panel. Tabs on rear porcelain panel must be bent up to sit flush on the rock support bracket.



- C. Move the two rock clusters into position, lining up the studs located on the burner with the holes in the bottom of the rocks. Ensure the clusters are sitting flat on the burner.
- NOTE:** For best results it's recommended you remove the grate and using Wolf Steel approved paint, paint the surfaces underneath where the grate was removed.



- D. Place the large cut out rocks along the edge of the rock support bracket as shown.



- E. Place the remaining refractory rocks around the burner as desired, **making sure not to cover any burner ports.** (There are no set locations).

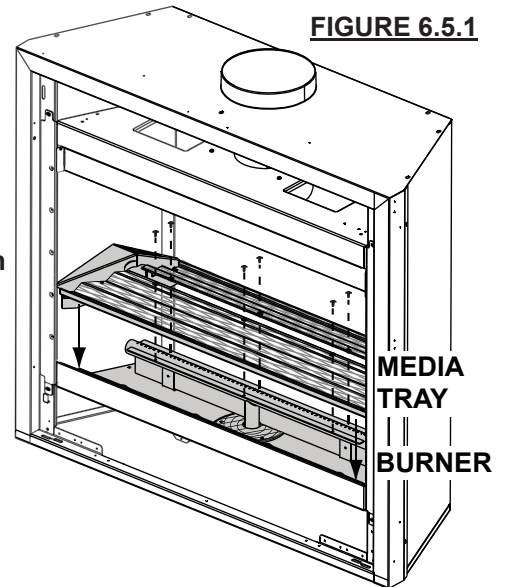
6.5 BCDV36CFG FINISHING

6.5.1 MEDIA TRAY INSTALLATION

Secure the media tray to the burner using 6 screws (W570-0001).

NOTE: When removing the media tray make sure the glass media is away from the center of the screen, exposing the burner, remove screws and lift media tray out.

When replacing burner, absolutely no glass media can be in cup surrounding the orifice. **HINT:** If glass falls into cup and surrounds the orifice, insert a clean bag into a vacuum cleaner and vacuum out glass media. Replacement glass media can be ordered from Wolf Steel Ltd.



6.5.2 MEDIA INSTALLATION

 WARNING
<p>CLEAN THE GLASS MEDIA PRIOR TO INSTALLATION. BEFORE APPLYING THE CLEANED GLASS, ENSURE THAT IT IS DRY.</p>
<p>DO NOT CHANGE OR SUBSTITUTE THE GLASS MEDIA MATERIAL PROVIDED WITH THIS APPLIANCE. IF REPLACING, USE ONLY THE REPLACEMENT GLASS MEDIA AVAILABLE FROM YOUR AUTHORIZED DEALER / DISTRIBUTOR.</p>
<p>GLASS MEDIA OVER THE BURNER MUST NOT BE MORE THAN ONE LAYER HIGH. MORE THAN ONE LAYER OVER THE BURNER WILL CAUSE FLAME LIFTING AND SOOTING PROBLEMS.</p>

Evenly spread the glass media onto the media tray, covering the burner tube and following the natural shape of the tray.

NOTE: The distribution of glass media over the burner tube will influence the flame height. When the flames impinge on the glass, the glass may discolour slightly and the edges may soften.

CLEANING GLASS MEDIA

Glass media may have a fine oil residue that needs to be cleaned prior to installation. Clean the glass with mild dish soap, drain, rinse thoroughly and dry before placing over the burner.

6.5.3 LAMP REPLACEMENT

This appliance comes equipped with our “Night Light™”. If in the event the lamp needs to be replaced, follow these instructions.

- A. Turn off all electrical supply.
- B. Remove the glass media and media tray from the firebox.
- C. Unscrew the lens making sure the gasket stays in place.
NOTE: Do not handle the lamp with bare fingers, protect with a clean dry cloth.
- C. The lamp will pull straight out of the socket. Replace with Wolf Steel Ltd. parts only (W387-0009), as lamp and lens are special "high temperature" products.
- E. Replace lens.
- F. Replace glass media and media tray.

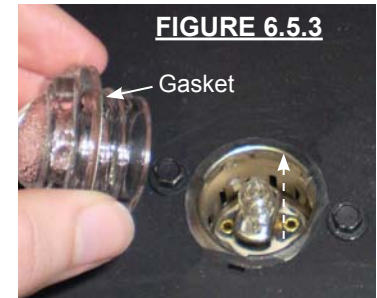


FIGURE 6.5.3

6.5.4 LENS ASSEMBLY REPLACEMENT

! WARNING

THE FRONT OF THE APPLIANCE BECOMES VERY HOT DURING OPERATION. LET THE APPLIANCE COOL COMPLETELY BEFORE CONDUCTING SERVICE.

- A. Remove the glass media and media tray.
- B. Remove the burner base from the firebox.
- C. Compress the retainer fins and lift out the lens assembly. Disconnect the wires.
- D. Replace lens assembly by aligning key hole and snap into place. Re-connect the wires.
- E. Re-install burner base ensuring a good firebox seal.
- F. Re-install media tray and glass media.




FIGURE 6.5.4

NOTE: When removing the media tray make sure the glass media is away from the center of the screen, exposing the burner, before lifting media tray out.

When replacing burner, absolutely no glass media can be in cup surrounding the orifice. **HINT:** If glass falls into cup and surrounds the orifice, insert a clean bag into a vacuum cleaner and vacuum out glass media. Replacement glass media can be ordered from Wolf Steel Ltd.

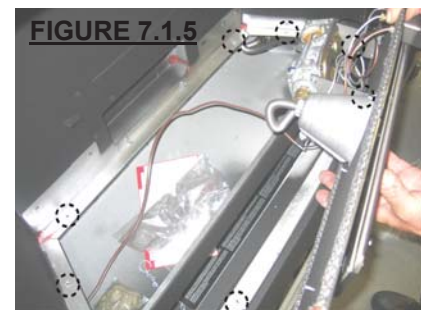
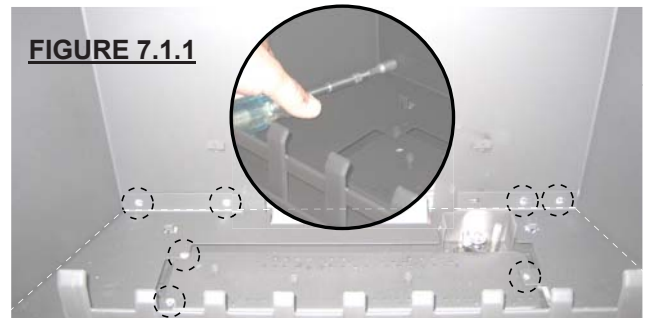
7.0 OPTIONAL BLOWER INSTALLATION

<div style="text-align: center;">  WARNING </div>
RISK OF FIRE AND ELECTRICAL SHOCK.
TURN OFF THE GAS AND ELECTRICAL POWER BEFORE SERVICING THIS APPLIANCE.
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.
ENSURE THAT THE FAN'S POWER CORD IS NOT IN CONTACT WITH ANY SURFACE OF THE APPLIANCE TO PREVENT ELECTRICAL SHOCK OR FIRE DAMAGE. DO NOT RUN THE POWER CORD BENEATH THE APPLIANCE.
THE WIRE HARNESS PROVIDED IN THE BLOWER KIT IS A UNIVERSAL HARNESS. WHEN INSTALLED, ENSURE THAT ANY EXCESS WIRE IS CONTAINED, PREVENTING IT FROM MAKING CONTACT WITH MOVING OR HOT OBJECTS.

51.5

7.1 ACCESSING THE BLOWER

- 7.1.1 Remove the valve access door.
- 7.1.2 Open the main door.
- 7.1.3 Carefully remove the logs.
- 7.1.3a (BCDV36CFG) Carefully remove the glass media and media tray.
- 7.1.4 Remove the 7 screws illustrated in and lift out the log support.
- 7.1.4a (BCDV36CFG) Remove the top deflector and porcelain panels from the firebox.
- 7.1.5 Remove the 8 perimeter screws as illustrated and lift out the burner base. (The gas line flex-connector should provide sufficient movement to permit shifting the burner assembly to the side).
- 7.1.6 Reverse procedure to re-assemble.



8.0 WIRING DIAGRAM

⚠️ WARNING

DO NOT USE THIS APPLIANCE IF ANY PART HAS BEEN UNDER WATER. CALL A QUALIFIED SERVICE TECHNICIAN IMMEDIATELY TO HAVE THE APPLIANCE INSPECTED FOR DAMAGE TO THE ELECTRICAL CIRCUIT.

RISK OF ELECTRICAL SHOCK OR EXPLOSION. DO NOT WIRE 110V TO THE VALVE OR TO THE APPLIANCE WALL SWITCH. INCORRECT WIRING WILL DAMAGE CONTROLS.

ALL WIRING SHOULD BE DONE BY A QUALIFIED ELECTRICIAN AND SHALL BE IN COMPLIANCE WITH LOCAL CODES. IN THE ABSENCE OF LOCAL CODES, USE THE CURRENT CSA22.1 CANADIAN ELECTRIC CODE IN CANADA OR THE CURRENT NATIONAL ELECTRIC CODE ANSI/NFPA NO. 70 IN THE UNITED STATES.

ALWAYS LIGHT THE PILOT WHETHER FOR THE FIRST TIME OR IF THE GAS SUPPLY HAS RAN OUT, WITH THE GLASS DOOR OPENED OR REMOVED.

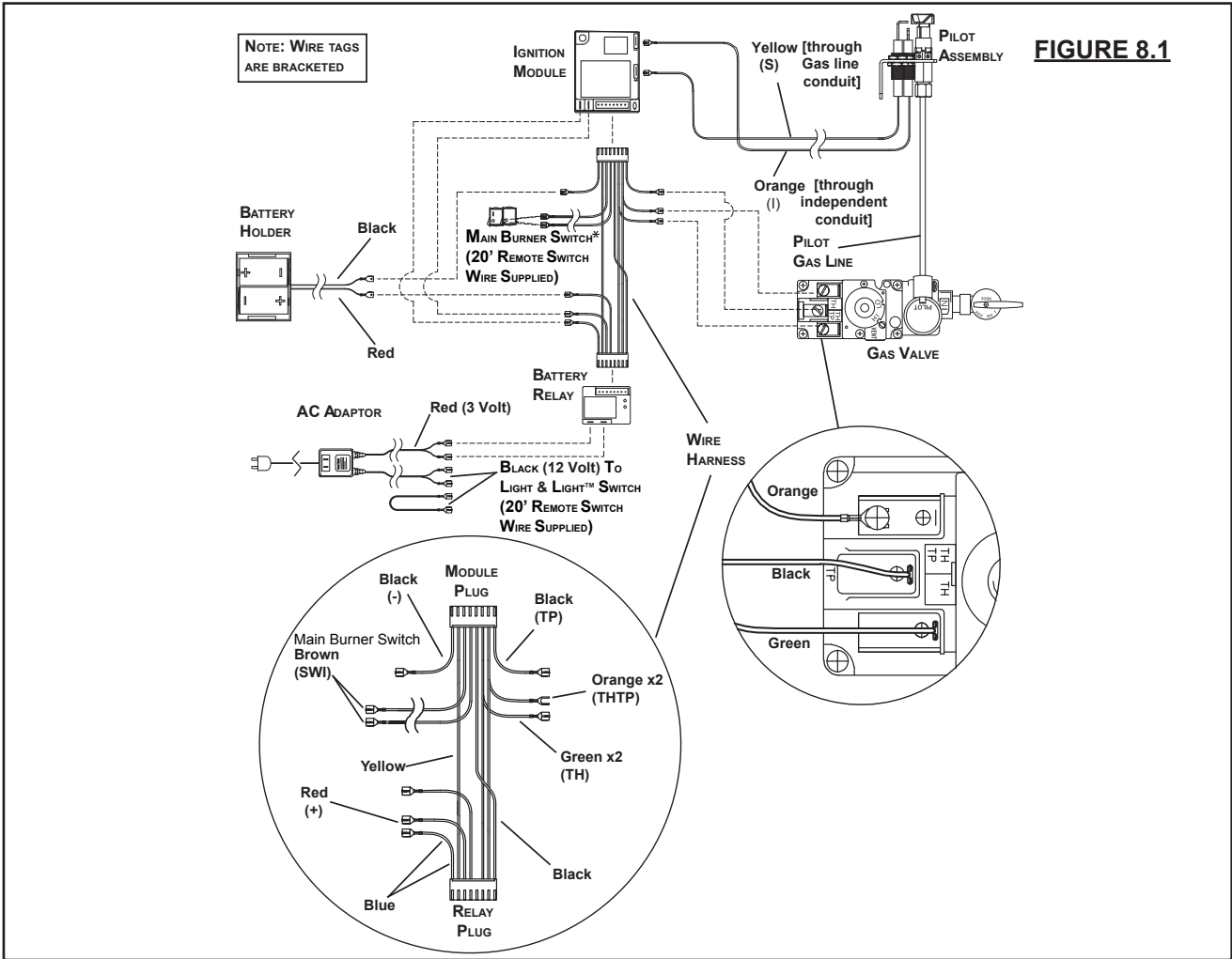
8.1 BCDV36CFG BURNER SWITCH

69.2

A wall switch must be installed in a convenient location for the burner operation. The recommended maximum lead length depends on wire size:

WIRE SIZE	MAX. LENGTH
14 gauge	100 feet
16 gauge	60 feet
18 gauge	40 feet

A 20' length of millivolt wire is connected to the gas valve for the burner wall switch. However if a greater length is required route 2-strand (solid core) wire through the electrical hole located at the bottom left side of the appliance.



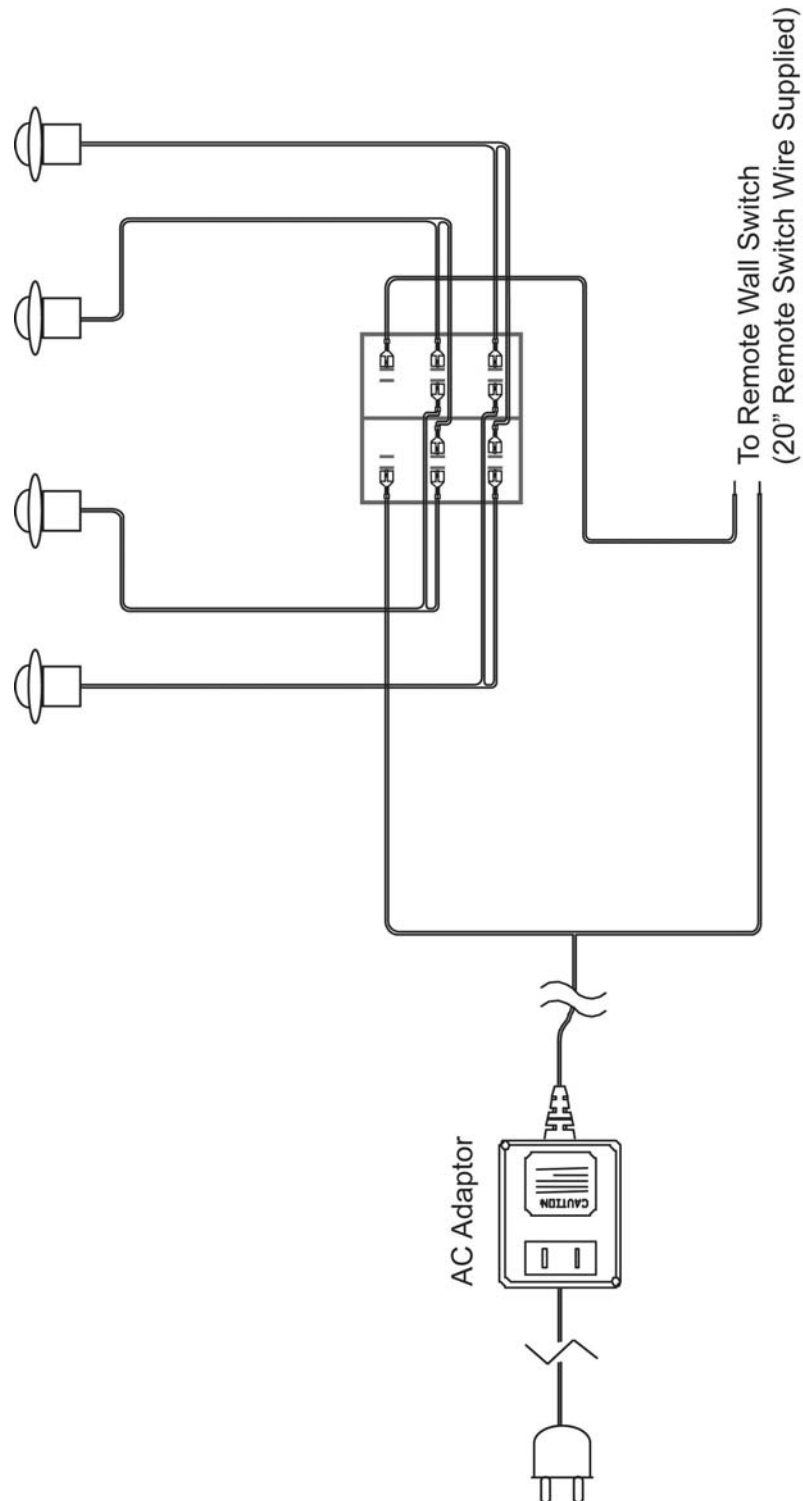
8.2 BCDV36CF LIGHT SWITCH

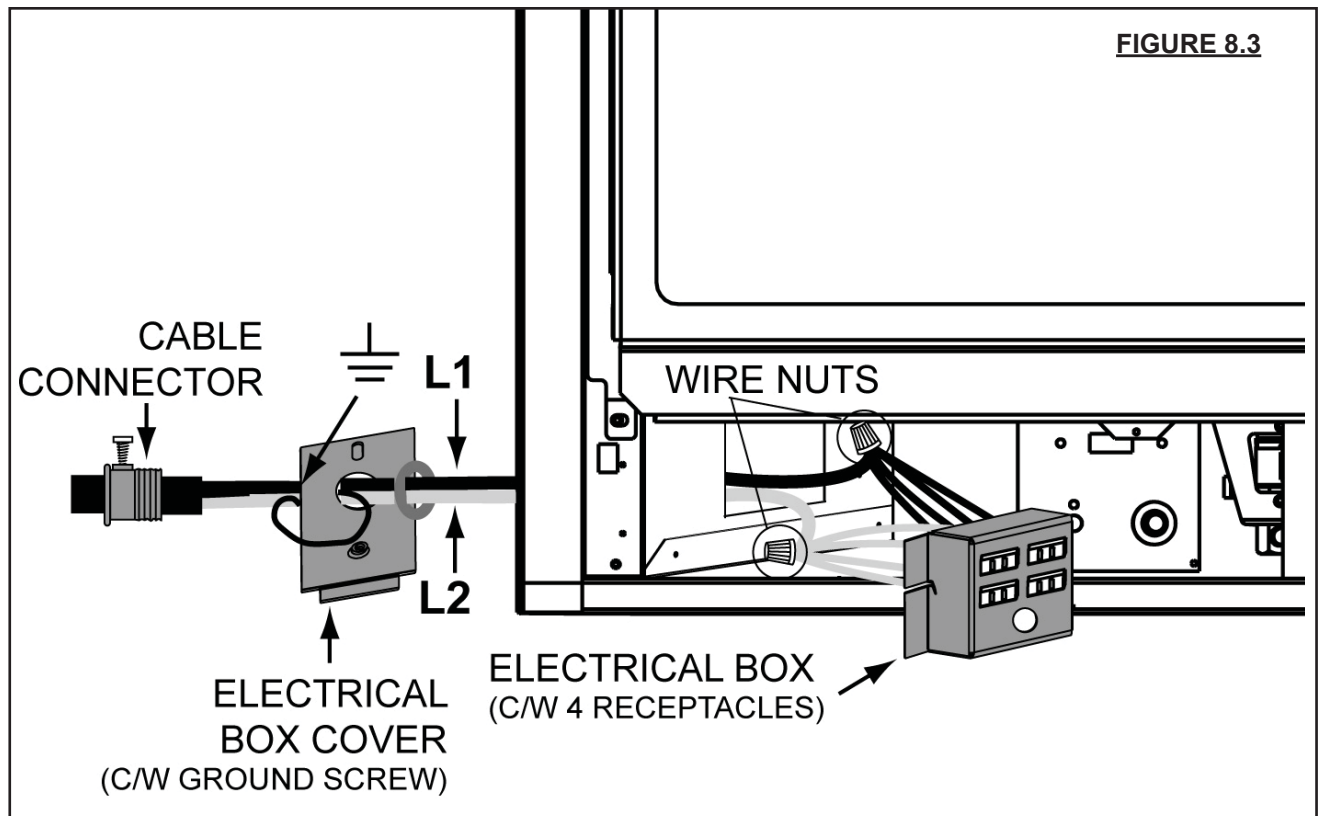
A wall switch must be installed in a convenient location for the light operation.
The recommended maximum lead length depends on wire size:

WIRE SIZE	MAX. LENGTH
14 gauge	100 feet
16 gauge	60 feet
18 gauge	40 feet

A 20' length of millivolt wire is connected to the gas valve and another 20' length of millivolt wire is connected to the terminal block for the light wall switch. However if a greater length is required route 2-strand (solid core) wire through the electrical hole located at the bottom left side of the appliance.

FIGURE 8.2



8.3 RECEPTACLE WIRING DIAGRAM

9.0 OPERATION

9.1 BCDV36CF

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 RUN OUT WITH THE GLASS DOOR OPENED OR REMOVED.

Ensure that a continuous gas flow is at the burner before installing the door. When lit for the first time, the appliance 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 appliance 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 appliance is equipped with a pilot which must be lit by hand while following these instructions exactly.
- B. Before operating smell all around the appliance 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 appliance if any part 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 has been under water.

WHAT TO DO IF YOU SMELL GAS:




- Turn off all gas to the appliance.
- 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:

WARNING: The gas valve has an interlock device which will not allow the pilot burner to be lit until the thermocouple has cooled. Allow approximately 60 seconds for the thermocouple to cool.

When lighting and re-lighting, the gas knob cannot be turned from pilot to off unless the knob is depressed slightly.

1. Stop! Read the above safety information on this label.
2. Turn off all electric power to the appliance.
3. Turn the gas knob clockwise  to off.
4. 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 the next step.
5. Turn gas knob counter-clockwise  to pilot.
6. Depress slightly and hold gas knob while lighting the pilot with the push button igniter. Keep knob depressed for one minute, then release. If pilot does not continue to burn, repeat steps 3 through 5.
7. With pilot lit, depress and turn gas knob counter-clockwise  to on.
8. If equipped with remote on-off switch / thermostat, main burner may not come on when you turn valve to on. Remote switch must be in the on position to ignite burner.
9. Turn on all electric power to the appliance.

TO TURN OFF GAS

1. Turn off all electric power to the appliance if service is to be performed.
2. Push in gas control knob slightly and turn clockwise  to off. Do not force.

TURN THE CONTROL VALVE TO THE OFF POSITION WHEN HEATER IS NOT IN USE.

9.2 BCDV36CFG

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 RUN OUT WITH THE GLASS DOOR OPENED OR REMOVED.

Ensure that a continuous gas flow is at the burner before installing the door. When lit for the first time, the appliance 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 appliance 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 appliance 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 appliance 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 appliance if any part 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 has been under water.

WHAT TO DO IF YOU SMELL GAS:

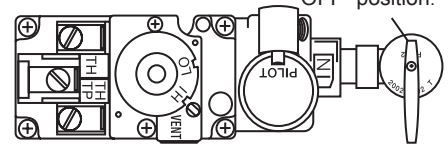
- Turn off all gas to the appliance.
- Open windows.
- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, 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 appliance and remove batteries.
4. This appliance 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 appliance and re-install batteries.
11. Turn on remote wall switch to on position.
12. If appliance will not operate, follow instructions "TO TURN OFF GAS" and call your service technician or gas supplier.

FIGURE 10.2

Manual Shut-off Valve Shown in "OFF" position.



TO TURN OFF GAS

1. Turn off remote wall switch to the appliance.
2. Turn off all electrical power to the appliance if service is to be performed.
3. Turn manual shutoff valve clockwise to off. Do not force.

10.0 ADJUSTMENTS

10.1 PILOT BURNER ADJUSTMENT

Adjust the pilot screw to provide properly sized flame. Turn in a clockwise direction to reduce the gas flow.

Inlet pressure can be checked by turning screw (A) counter-clockwise until loosened and then placing pressure gauge tubing over the test point. Gauge should read 7" (minimum 4.5") water column for natural gas or 13" (11" minimum) water column for propane. Check that main burner is operating on "HI".

Outlet pressure can be checked the same as above using screw (B). Gauge should read 3.5" water column for natural gas or 10" water column for propane. Check that main burner is operating on "HI".

AFTER TAKING PRESSURE READINGS, TIGHTEN SCREWS FIRMLY TO SEAL. DO NOT OVER TORQUE. LEAK TEST.

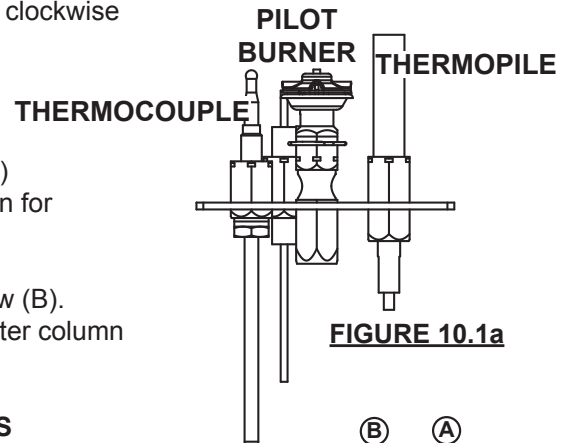


FIGURE 10.1a

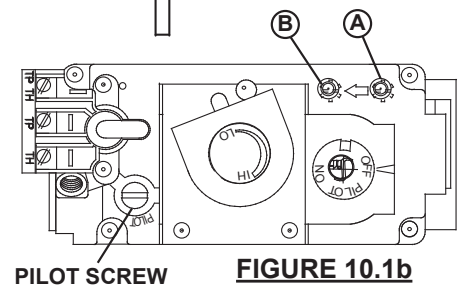


FIGURE 10.1b

39.3

10.2 VENTURI ADJUSTMENT

10.2.1 BCDV36CF VENTURI ADJUSTMENT

! WARNING

CARBON CAN BE DISTRIBUTED IN SURROUNDING LIVING AREA IF THE AIR SHUTTER IS IMPROPERLY ADJUSTED.

THE FRONT OF THE APPLIANCE BECOMES VERY HOT DURING OPERATION. LET THE APPLIANCE COOL COMPLETELY BEFORE CONDUCTING SERVICE.

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

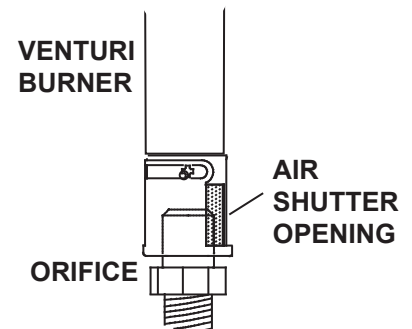
Regardless of venturi orientation, closing the air shutter will cause a more yellow flame, but can lead to carboning. Opening the air shutter will cause a more blue flame, but can cause flame lifting from the burner ports. The flame may not appear yellow immediately; allow 15 to 30 minutes for the final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

FIGURE 10.2.1a

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

	BCDV36CF
NG	1/16"
LP	1/4"

To access the air shutter, remove the control panel, remove the two screws that secure the cover to the air housing, loosen the set screw and adjust air shutter position.



49.1

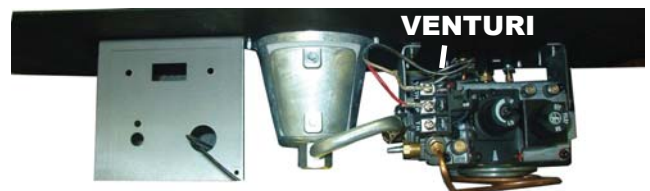


FIGURE 10.2.1b

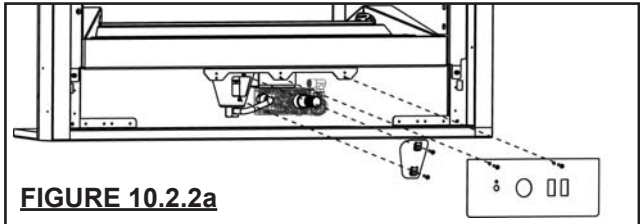
10.2.2 **BCDV36CFG VENTURI ADJUSTMENT**



WARNING

CARBON CAN BE DISTRIBUTED IN SURROUNDING LIVING AREA IF THE AIR SHUTTER IS IMPROPERLY ADJUSTED.

THE FRONT OF THE APPLIANCE BECOMES VERY HOT DURING OPERATION. LET THE APPLIANCE COOL COMPLETELY BEFORE CONDUCTING SERVICE.



This appliance 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.

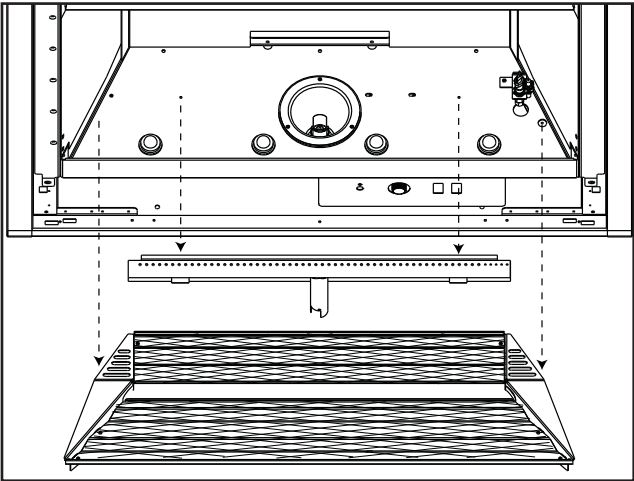


FIGURE 10.2.2b

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

The alternate access is to remove the glass media, media tray and burner from the appliance and then adjust the air shutter.

	BCDV36CFG
NG	0
LP	1/4"

NOTE: When removing the media tray make sure the glass media are away from the center of the screen, exposing the burner, before lifting media tray out.

When replacing burner, absolutely no glass can be in cup surrounding the orifice. **HINT:** If glass falls into cup and surrounds the orifice, insert a clean bag into a vacuum cleaner and vacuum out glass media. Replacement glass media can be ordered from Wolf Steel Ltd.

10.3 FLAME ADJUSTMENT

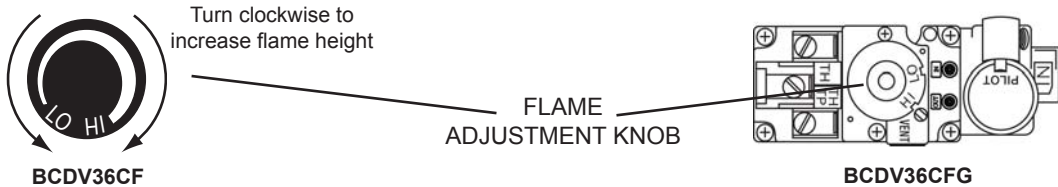


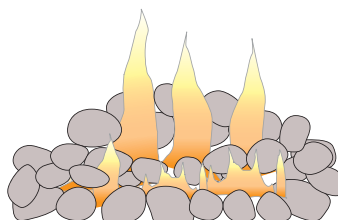
FIGURE 10.3

10.4 BCDV36CF FLAME CHARACTERISTICS

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



WITH LOGS

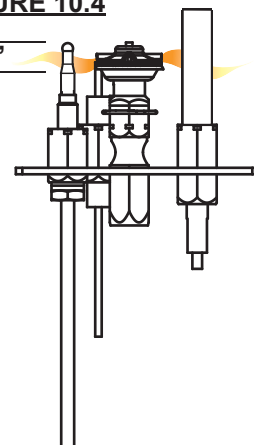


WITH ROCKS

FIGURE 10.4

3/8" - 1/2"

FLAME MUST
ENVELOPE UPPER
3/8" TO 1/2" OF
THERMOCOUPLE &
THERMOPILE



54.2

10.5 BCDV36CFG FLAME CHARACTERISTICS

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

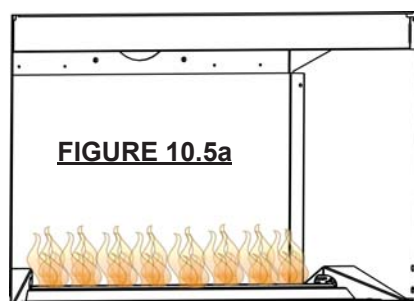


FIGURE 10.5a

FLAME MUST
ENVELOPE UPPER
3/8" TO 1/2" OF
FLAME SENSOR

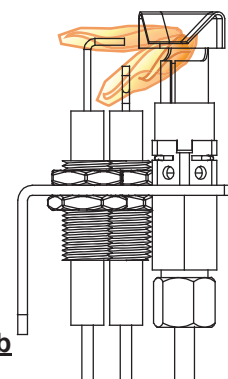


FIGURE 10.5b

54.4

11.0 MAINTENANCE

! WARNING

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

APPLIANCE MAY BE HOT, DO NOT SERVICE UNTIL APPLIANCE HAS COOLED.

DO NOT USE ABRASIVE CLEANERS.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing. This appliance and its venting system should be inspected before use and at least annually by a qualified service person. The appliance 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.

1. In order to properly clean the burner and pilot assembly, remove the logs, rocks and/or glass to expose both assemblies.
2. Keep the control compartment, media, burner, air shutter opening and the area surrounding the logs clean by vacuuming or brushing, at least once a year.
3. 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.
4. Check to see that the pilot flame is large enough to engulf the flame sensor and/or thermocouple / thermopile as well as reaches the burner.
5. Replace the cleaned logs, rocks or glass. Failure to properly position the media may cause carboning which can be distributed in the surrounding living area.
6. Check to see that the main burner ignites completely on all openings when turned on. A 5 to 10 second total light-up period is satisfactory. If ignition takes longer, consult your local authorized dealer / distributor.
7. Check that the gasketing on the sides, top and bottom of the door is not broken or missing. Replace if necessary.
8. If for any reason the vent air intake system is disassembled, re-install and re-seal per the instructions provided for the initial installation.

40.1

W415-0803 / 09.30.09

12.0 REPLACEMENTS

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.

**** THIS IS A FAST ACTING THERMOCOUPLE. IT IS AN INTEGRAL SAFETY COMPONENT. REPLACE ONLY WITH A FAST ACTING THERMOCOUPLE SUPPLIED BY WOLF STEEL LTD.**

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 appliance
- Installation date of appliance
- Part number
- Description of part
- Finish

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

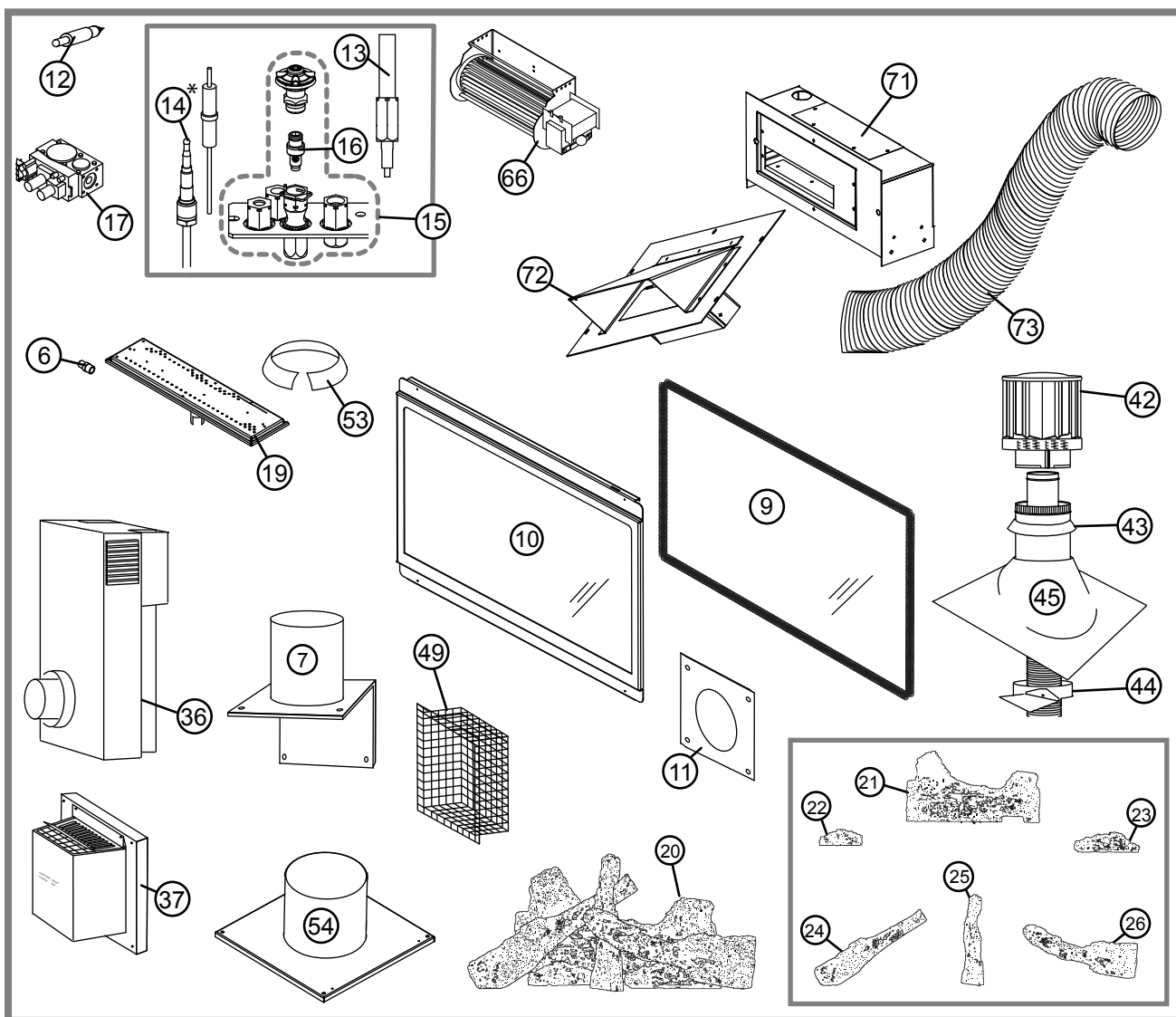
41.2

COMMON COMPONENTS

REF NO.	BCDV36CF	BCDV36CFG	DESCRIPTION
1*	W385-0430	W385-0430	CONTINENTAL® LOGO
2*	W750-0112	W750-0193 / W750-0194	20FT OF WIRE
3*	W361-0016	N/A	GLOWING EMBERS
4*	W550-0001	N/A	CHARCOAL EMBERS
5*	W010-1340	W010-1340	BLACK DOOR FRAME
6	W455-0048	W455-0048	#47 NATURAL GAS ORIFICE
6	W455-0047	W455-0047	#56 PROPANE GAS ORIFICE
7	W010-0539	W010-0539	FLUE PIPE ASSEMBLY C/W GASKET
8*	W010-0538	W010-0538	FLUE CAP C/W GASKET
9	W010-0454	W010-0454	GLASS C/W GASKET
10	W010-0516	W010-0516	BLACK DOOR C/W GLASS
11	W010-1777	W010-1777	FIRESTOP SPACER
12	W357-0001	N/A	PIEZO IGNITER
13	W680-0004	N/A	THERMOPILE
14	W680-0005	N/A	THERMOCOUPLE **
15	W010-0800	FIELD CONVERTED	PROPANE GAS PILOT ASSEMBLY
15	W010-0801	W010-1684	NATURAL GAS PILOT ASSEMBLY
16	W455-0069	W455-0091	NATURAL GAS PILOT INJECTOR
16	W455-0068	W455-0092	PROPANE GAS PILOT INJECTOR
17	W725-0025	W725-0032	NATURAL GAS VALVE
17	W725-0026	W725-0049	PROPANE GAS VALVE
18*	W361-0014	N/A	VERMICULITE
19	W010-0764	W100-0112	MAIN BURNER
20	GL-639	N/A	LOG SET
21	W135-0183	N/A	BACK LOG (#1)
22	W135-0184	N/A	LEFT MIDDLE LOG (#2)
23	W135-0185	N/A	RIGHT MIDDLE LOG (#3)
24	W135-0186	N/A	LEFT CROSSOVER LOG (#4)
25	W135-0187	N/A	MID CROSSOVER LOG (#5)
26	W135-0188	N/A	RIGHT CROSSOVER LOG (#6)

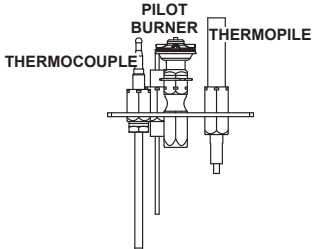
COMMON COMPONENTS			
REF NO.	BCDV36CF	BCDV36CFG	DESCRIPTION
27*	N/A	W300-0102	CLEAR GLASS MEDIA
28*	N/A	W010-1932	VALVE TRAIN ASSEMBLY
29*	N/A	W387-0011	HIGH TEMPERATURE LIGHT ASSEMBLY
30*	N/A	W387-0009	HALOGEN LAMP 5W
FLEXIBLE VENT KITS			
REF NO.	BCDV36CF	BCDV36CFG	DESCRIPTION
GD220 (5 FT)			
31*	W010-0397	W010-0397	4" FLEXIBLE VENT PIPE - (5 FT) C/W SPACERS
32*	W410-0017	W410-0017	7" FLEXIBLE VENT PIPE - (5 FT)
GD330 (10 FT)			
33*	W410-0018	W410-0018	7" FLEXIBLE VENT PIPE - (10 FT)
34*	W010-0300	W010-0300	4" FLEXIBLE VENT PIPE - (10 FT) C/W SPACERS
35*	W010-0370	W010-0370	WALL SUPPORT ASSEMBLY
TERMINAL KITS			
REF NO.	BCDV36CF	BCDV36CFG	DESCRIPTION
36	GD-201	GD-201	PERISCOPE
37	GD-222	GD-222	WALL TERMINAL KIT
ROOF TERMINAL KITS			
REF NO.	BCDV36CF	BCDV36CFG	DESCRIPTION
38*	GD-110	GD-110	1/12 TO 7/12 PITCH
39*	GD-111	GD-111	8/12 TO 12/12 PITCH
40*	GD-112	GD-112	FLAT ROOF
41*	W490-0073	W490-0073	4/7 INNER/OUTER SLEEVE
42	W670-0006	W670-0006	4/7 TERMINAL
43	W170-0063	W170-0063	STORM COLLAR
44	W010-0453	W010-0453	ROOF SUPPORT
45	W263-0054	W263-0054	ROOF FLASHING
	W263-0055	W263-0055	
	W263-0056	W263-0056	

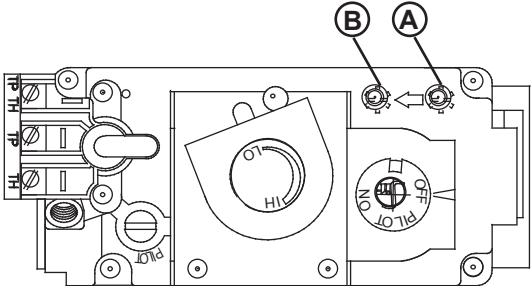
COMMON ACCESSORIES			
REF NO.	BCDV36CF	BCDV36CFG	DESCRIPTION
46*	W175-0001	W175-0001	4" COUPLER
47*	W175-0013	W175-0013	7" COUPLER
48*	W500-0103	W500-0103	TERMINAL EXTENSION PLATE
49*	GD-301	GD-301	HEAT GUARD
50*	W010-0370	W010-0370	WALL SUPPORT ASSEMBLY
51*	W175-0053	W175-0053	DURA-VENT ZERO CLEARANCE ADAPTOR
52*	VS47KT	VS47KT	VENT SLEEVE
53	W170-0063	W170-0063	VENT PIPE COLLAR
55*	W175-0159	W175-0278	CONVERSION KIT - NG TO LP
55*	W175-0164	W175-0279	CONVERSION KIT - LP TO NG
56*	GD831KT	N/A	DECORATIVE BRICK PANELS - SANDSTONE
57*	GD-565-1KT	GD-565-1KT	SAFETY SCREEN
58*	S36WN	S36WN	WAVE SURROUND - BROWN
58*	S36WP	S36WP	WAVE SURROUND - PEWTER
59*	S36CCN	S36CCN	CONCAVE SURROUND - BROWN
59*	S36CCP	S36CCP	CONCAVE SURROUND - PEWTER
60*	S36CVN	S36CVN	CONVEX SURROUND - BROWN
60*	S36CVP	S36CVP	CONVEX SURROUND - PEWTER
61*	CFT36W	CFT36W	UPPER TRIM FOR WAVE SURROUND
61*	CFT36CC	CFT36CC	UPPER TRIM FOR CONCAVE SURROUND
61*	CFT36CV	CFT36CV	UPPER TRIM FOR CONVEX SURROUND
62*	W690-0081	N/A	MILLIVOLT THERMOSTAT
63*	F40	N/A	ON/OFF REMOTE
64*	F50	N/A	THERMOSTATIC REMOTE
65	GZ550-1KT	N/A	BLOWER KIT
66	B440-KT	N/A	BLOWER
67*	W500-0033	N/A	VARIABLE SPEED SWITCH WALL MOUNTING PLATE
68*	W690-0005	N/A	THERMOSTAT, 110 VOLT FOR USE WITH GA-566
69*	W660-0026	N/A	PROGRAMMABLE TIMER
70*	GA-566	N/A	HOT AIR KIT
71	GA-72	N/A	HOT AIR EXHAUST KIT
72	GA-70	N/A	EXTENSION KIT 5FT
73*	ANI-K	N/A	ANDIRONS - BLACK
73*	ANI-G	N/A	ANDIRONS - GOLD PLATED
74*	270	270	PAINT, BLACK - 13OZ
75*	W573-0007	N/A	10.3OZ TUBE HIGH TEMP SEALANT



13.0 TROUBLE SHOOTING

13.1 BCDV36CF

SYMPTOM	PROBLEM	TEST SOLUTION
Main burner goes out; pilot stays on.	Pilot flame is not large enough or not engulfing the thermopile.	<ul style="list-style-type: none"> - Turn up the pilot flame. - Replace pilot assembly.
	Thermopile shorting.	<ul style="list-style-type: none"> - Clean thermopile connection to the valve. Reconnect. - Replace thermopile / valve.
	Remote wall switch wire is too long; too much resistance in the system.	<ul style="list-style-type: none"> - Shorten wire to connect length or wire gauge.
	Faulty thermostat or switch.	<ul style="list-style-type: none"> - Replace.
Main burner goes out; pilot goes out.	Refer to "MAIN BURNER GOES OUT; PILOT STAYS ON"	
	Vent is blocked	<ul style="list-style-type: none"> - Check for vent blockage.
	Vent is re-circulating	<ul style="list-style-type: none"> - Check joint seals and installation
	Flexible vent has become disconnected from appliance.	<ul style="list-style-type: none"> - Re-attach to appliance. - Cap was not replaced.
Pilot goes out when the gas knob is released. The gas valve has an interlock device which will not allow the pilot burner to be lit until the thermocouple has cooled. Allow approximately 60 seconds for the thermocouple to cool.	System is not correctly purged.	<ul style="list-style-type: none"> - Purge the gas line.
	Out of propane gas.	<ul style="list-style-type: none"> - Fill the tank.
	Pilot flame is not large enough.	<ul style="list-style-type: none"> - Turn up the pilot flame.
	Pilot flame is not engulfing the thermocouple	<ul style="list-style-type: none"> - Gently twist the pilot head to improve the flame pattern around the thermocouple.
	Thermocouple shorting / faulty.	<ul style="list-style-type: none"> - Loosen and tighten thermocouple. - Clean thermocouple and valve connection. - Replace thermocouple. - Replace valve.
	Faulty valve.	<ul style="list-style-type: none"> - Replace.
Pilot burning; no gas to main burner; gas knob is on 'HI'; wall switch / thermostat is on.	Thermostat or switch is defective	<ul style="list-style-type: none"> - Connect a jumper wire across the wall switch terminals; if main burner lights, replace switch / thermostat.
	Wall switch wiring is defective.	<ul style="list-style-type: none"> - Disconnect the switch wires & connect a jumper wire across terminals 1 & 3; if the main burner lights, check the wires for defects and/or replace wires.
	Main burner orifice is plugged.	<ul style="list-style-type: none"> - Remove stoppage in orifice.
	Faulty valve.	<ul style="list-style-type: none"> - Replace.
Pilot will not light.	No spark at pilot burner.	<ul style="list-style-type: none"> - Check if pilot can be lit by a match. - Check that the wire is connected to the push button igniter. - Check if the push button igniter needs tightening. - Replace the wire if the wire insulation is broken or frayed. - Replace the electrode if the ceramic insulator is cracked or broken. - Replace the push button ignitor
	Out of propane gas.	<ul style="list-style-type: none"> - Fill the tank.
	Spark gap is incorrect.	<ul style="list-style-type: none"> - Spark gap should be 0.150" to 0.175" (5/32" to 11/64" approx.) from the electrode tip and the pilot burner. To ensure proper electrode location, tighten securing nut (finger tight plus 1/4 turn).
	No gas at the pilot burner.	<ul style="list-style-type: none"> - Check that the manual valve is turned on. - Check the pilot orifice for blockage. - Replace the valve. - Call the gas distributor.

SYMPTOM	PROBLEM	TEST SOLUTION
Pilot goes out while standing; Main burner is in 'OFF' position.	Gas piping is undersized.	<ul style="list-style-type: none"> - Turn on all gas appliances and see if pilot flame flutters, diminishes or extinguishes, especially when main burner ignites. Monitor appliance supply working pressure. - Check if supply piping size is to code. Correct all undersized piping.
Flames are consistently too large or too small. Carboning occurs.	Unit is over-fired or underfired.	<ul style="list-style-type: none"> - Check pressure readings: - Inlet pressure can be checked by turning screw (A) counter-clockwise 2 or 3 turns and then placing pressure gauge tubing over the test point. Gauge should read 7" (minimum 4.5") water column for natural gas or 13" (minimum 11") water column for propane. Check that main burner is operating on 'HI'. - Outlet pressure can be checked the same as above using screw (B). Gauge should read 3.5" water column for natural gas or 10" water column for propane. Check that main burner is operating on 'HI'. - AFTER TAKING PRESSURE READINGS, BE SURE TO TURN SCREWS CLOCKWISE FIRMLY TO RESEAL. DO NOT OVER TORQUE. - Leak test with a soap and water solution.
		
Flames are very aggressive.	Door is ajar.	<ul style="list-style-type: none"> - Tighten screws holding door in place.
Main burner flame is a blue, lazy, transparent flame.	Blockage in vent.	<ul style="list-style-type: none"> - Remove blockage. In really cold conditions, ice buildup may occur on the terminal and should be removed as required.
	Incorrect installation.	<ul style="list-style-type: none"> - Refer to Figure 31 to ensure correct location of storm collars.
Carbon is being deposited on glass, logs or combustion chamber surfaces.	Air shutter has become blocked.	<ul style="list-style-type: none"> - Ensure air shutter opening is free of lint or other obstructions.
	Flame is impinging on the logs or combustion chamber.	<ul style="list-style-type: none"> - 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.
White / grey film forms.	Sulphur from fuel is being deposited on glass, logs or combustion chamber surfaces.	<ul style="list-style-type: none"> - Clean the glass with a recommended gas appliance glass cleaner. - DO NOT CLEAN GLASS WHEN HOT. - If deposits are not cleaned off regularly, the glass may become permanently marked.
Exhaust fumes smelled in room, headaches.	Appliance is spilling.	<ul style="list-style-type: none"> - Ensure exhaust bracket gasket seal. - Check door seal and relief flap seal. - Check for chimney blockage. - Check that chimney is installed to building code. - Room is in negative pressure; increase fresh air supply. - Check cap gasket on the flue pipe assembly.
Remote wall switch is in 'OFF' position; main burner comes on when gas knob is turned to 'ON' position.	Wall switch is mounted upside down.	<ul style="list-style-type: none"> - Reverse.
	Remote wall switch is grounding.	<ul style="list-style-type: none"> - Replace.
	Remote wall switch wire is grounding.	<ul style="list-style-type: none"> - Check for ground (short); repair ground or replace wire.
	Faulty valve.	<ul style="list-style-type: none"> - Replace.

13.2 BCDV36CFG

WARNING

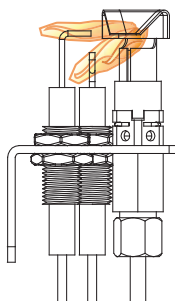
ALWAYS LIGHT THE PILOT WHETHER FOR THE FIRST TIME OR IF THE GAS SUPPLY HAS RAN OUT, WITH THE GLASS DOOR OPEN OR REMOVED.

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

APPLIANCE MAY BE HOT, DO NOT SERVICE UNTIL APPLIANCE HAS COOLED.

DO NOT USE ABRASIVE CLEANERS.

SYMPTOM	PROBLEM	TEST SOLUTION
Pilot will not light. Makes noise with no spark at pilot burner.	Wiring.	- Verify the "S" wire for the sensor and the "I" wire for the ignitor are connected to the correct terminals (not reverse) on the module and pilot assembly.
	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 ignitor to the pilot should be .17" tor 1/8"
	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.
	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 the simplest ON/OFF switch.
	Module is not grounded.	- Verify the valve and pilot assemblies are properly grounded to the metal chassis of the appliance or log set.
Pilot sparks but will not light.	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 14" W.C.
	Module is not grounded.	- Verify the valve and pilot assemblies are properly grounded to the metal chassis of the appliance or log set.
	Out of propane gas.	- Fill the tank.
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.



SYMPTOM	PROBLEM	TEST SOLUTION
Continues to spark and pilot lights, but main burner will not light.	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.
	Poor grounding between pilot assembly and gas valve.	- Verify that the wire harness is firmly connected to module 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.
	Damaged pilot or dirty sensor rod.	- Clean sensor rod with an emery 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 lights 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 all wires are connected in the right order. See "WIRING DIAGRAM" section.
	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 high resistance in the valve solenoid. Check the. Green wire disconnected from valve that the voltage output from the module should be between 2 and 3 volts.
Exhaust fumes smelled in room, headaches.	Appliance is spilling.	- Check all seals.
Flames are very aggressive.	Door is ajar.	- Tighten door clamps
	Venting action is too great.	- Restrict vent exit with restrictor plate. See Restricting Vents.
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.
	Compromised venting.	- Check venting system parameters (seal, length, rise, etc.).
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.

[illegible]

15.0 NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

