INSTALLER: THESE INSTRUCTIONS MUST BE CONVEYED TO AND REMAIN WITH THE HOMEOWNER.

CERTIFIED UNDER CANADIAN AND AMERICAN NATIONAL STANDARDS, CAN/CGA 1-2.19-M81 AND ANSI Z21.44-1995 RESPECTIVELY FOR GAS-FIRED VENTED WALL FURNACE, CGA IR41, AND IR55.

NAPOLEON

FIREPLACES

GAS - DIRECT VENT MILLIVOLT SYSTEM

INSTALLATION AND OPERATION INSTRUCTIONS FOR LISTED DIRECT VENTED GAS-FIRED WALL FURNACE

NATURAL GAS MODEL **GD45-N**
PROPANE GAS MODEL **GD45-P**

CERTIFIED FOR CANADA AND UNITED STATES USING ANSI / AGA / CGA METHODS

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

- Turn off main gas supply.
- Open windows.
- Do not try to light any appliance.
- Do not touch any electrical switch; Do not use any phone in your building.
- Extinguish any open flame.
- 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.

Wolf Steel Ltd., RR#1, 9 NAPOLEON RD.,
Barrie, ON., Canada L4M 4Y8 (705)721-1212

Fax: (706)722-6031 *Email:* ASK@NAPOLEON.ON.CA
Web: WWW.NAPOLEON.ON.CA

WS-415-100 / 11.06.97

NAPOLEON FIREPLACES

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE

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WARNING

- Do not burn wood or other materials in this fireplace.
- Adults and especially children should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition. Supervise young children when they are in the same room as the fireplace.
- Due to high temperatures, the fireplace should be located out of traffic and away from furniture and draperies.
- Clothing or other flammable material should not be placed on or near the fireplace.
- Any safety screen or guard removed for servicing must be replaced prior to operating the fireplace.
- It is imperative that the control compartments, burners and circulating blower and its passageway in the fireplace and venting system are kept clean. The fireplace 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 fireplace area must be kept clear and free from combustible materials, gasoline and other flammable vapours and liquids.
- Under no circumstances should this fireplace be modified.
- This fireplace must not be connected to a chimney flue pipe serving a separate solid fuel burning appliance.
- Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.
- Do not operate the fireplace 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 fireplace glass door.

PURGE ALL GAS LINES WITH THE GLASS DOOR OF THE FIREPLACE OPEN. ASSURE THAT A CONTINUOUS GAS FLOW IS AT THE BURNER BEFORE CLOSING THE DOOR.
UNDER EXTREME VENT CONFIGURATIONS, ALLOW SEVERAL MINUTES (5-15) FOR THE FLAME TO STABILIZE AFTER IGNITION.
ALL HORIZONTAL RUNS MUST HAVE A MINIMUM 1 INCH RISE PER FOOT WHEN USING NAPOLEON FLEXIBLE VENTING COMPONENTS. EIGHT (8") INCHES IS THE MINIMUM BEND RADIUS ALLOWED FOR THE 7" DIAMETER FLEXIBLE AIR LINER.

NAPOLEON gas fireplaces are manufactured under the strict Standard of the world recognized ISO9002 Quality Assurance Certificate.

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

NAPOLEON GAS FIREPLACE PRESIDENT'S LIFETIME LIMITED WARRANTY

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

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

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

CONDITIONS AND LIMITATIONS

NAPOLEON warrants its products against manufacturing defects to the original purchaser only – i.e., the individual or legal entity (registered customer) whose name appears on the warranty registration card filed with NAPOLEON – provided that the purchase was made through an authorized NAPOLEON dealer and is subject to the following conditions and limitations:

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

The gas fireplace must be installed by a licenced, 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 discolouring caused by excessive heat, abrasive and chemical cleaners nor chipping on porcelain enamel parts, mechanical breakage of PHAZER™ logs and embers, nor any venting components used in the installation of the fireplace.

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

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

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

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

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

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

NAPOLEON neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this product. NAPOLEON will not be responsible for: over-firing, downdrafts, spillage caused by environmental conditions such as rooftops, buildings, nearby trees, hills, mountains, inadequate vents or ventilation, excessive venting configurations, insufficient makeup air, or negative air pressures which may or may not be caused by mechanical systems such as exhaust fans, furnaces, clothes dryers, etc.

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

The bill of sale or copy will be required together with a serial number and a model number when making any warranty claims from your authorized dealer. The warranty registration card must be returned within fourteen days to register the warranty.

NAPOLEON reserves the right to have its representative inspect any product or part thereof prior to honouring any warranty claim.

GENERAL INSTRUCTIONS

THIS GAS FIREPLACE SHOULD BE INSTALLED AND SERVICED BY A QUALIFIED INSTALLER to conform with local codes. In absence of local codes, install to the current CAN/CGA -B149 Installation Code in Canada or to the National Fuel Gas Code, ANSI Z223.1-1988, and NFPA 54-1988 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 Z223.1-1988 and NFPA 54-1988 in the United States.

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

A 1/8 inch NPT plug, accessible for test gauge connection, must be installed immediately upstream of the gas supply connection to the fireplace.

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

The optional heat circulating blower is not supplied with a cord. If installed, the blower must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA C22.1 CANADIAN ELECTRICAL CODE in Canada or the ANSI/NFPA 70-1990 NATIONAL ELECTRICAL CODE in the United States.

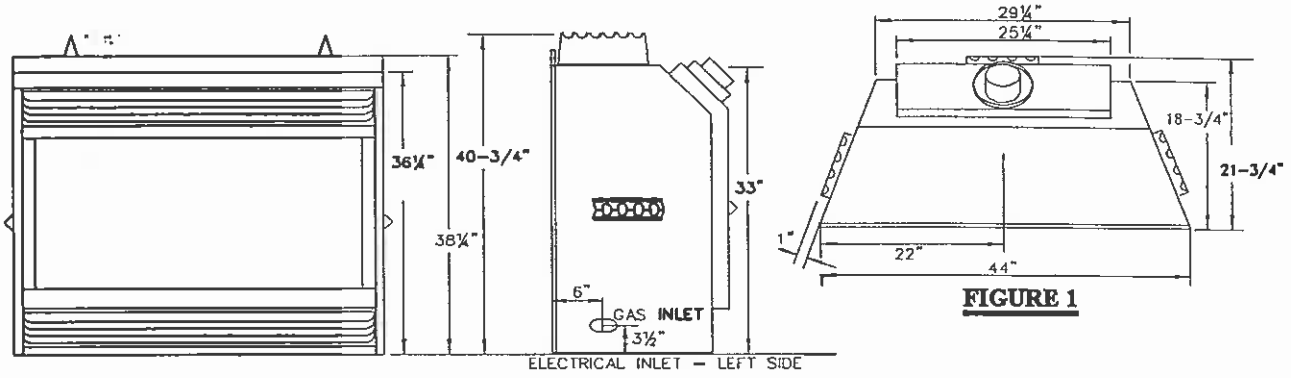


FIGURE 1

Provide adequate ventilation and combustion air. Provide adequate accessibility clearance for servicing and operating the fireplace. Never obstruct the front opening of the fireplace.

Minimum clearance to combustible construction from fireplace and vent surfaces:	sides, back, bottom, and top	0 inches
	vent pipe	1 inch
	recessed depth	22 inches

GENERAL INFORMATION

FOR YOUR SATISFACTION, THIS FIREPLACE HAS BEEN TEST-FIRED TO ASSURE ITS OPERATION AND QUALITY! Maximum input is 45,000 BTU/hr for natural gas and 40,000BTU/h for propane. When the fireplace is installed at elevations above 4,500ft, and in the absense 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. Maximum output for natural gas is 36,900 BTU/hr at an efficiency of 82% with the fan on, 78.4% with the fan off; and 33,200 BTU/hr for propane at an efficiency of 83% with the fan on, 80% with the fan off. Minimum A.F.U.E. (Annual Fuel Utilization Efficiency) rating is 64%.

Minimum inlet gas supply pressure is 4.5 inches water column for natural gas and 11 inches water column for propane. Maximum inlet gas pressure is 7 inches water column for natural gas and 13 inches water column for propane. Manifold pressure under flow conditions is 3.5 inches water column for natural gas and 10 inches water column for propane.

This fireplace is approved for bathroom, bedroom and bed-sitting room installations and is suitable for mobile home installation. The natural gas model can only be installed in a mobile home that is permanently positioned on its site and fueled with natural gas.

NO EXTERNAL ELECTRICITY (110 VOLTS OR 24 VOLTS) IS REQUIRED FOR THE GAS SYSTEM OPERATION. Expansion / contraction nosies during heating up and cooling down cycles are normal and are to be expected. Change in flame appearance from "HI" to "LO" is more evident in natural gas than in propane.

CARE OF GLASS, AND PLATED PARTS

Do not use abrasive cleaners to clean plated parts. Buff lightly with a clean dry cloth. The glass is 3/16" ceramic glass available from your Napoleon / Wolf Steel Ltd. dealer. DO NOT SUBSTITUTE MATERIALS. If the door glass should crack or break, do not operate the fireplace. Replace only with a door assembly certified with the fireplace. See "FINISHING" for removal and replacement details. Clean the glass after the first 10 hours of operation with a recommended gas glass cleaner. Thereafter clean as required. DO NOT CLEAN GLASS WHEN HOT! If the glass is not kept clean permanent discolouration and / or blemishes may result.

VENTING

VENTING LENGTHS AND AIR TERMINAL LOCATIONS

Use only Napoleon or Simpson Dura-Vent Model DV-GS 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.

When using Napoleon venting components, use only the following vent kits: WALL TERMINAL KIT **GD222**, 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) in conjunction with the various terminations, use either the 5 foot vent kit **GD220** or the 10 foot vent kit **GD330**. For Simpson Dura-Vent, follow the Installation procedure provided with the venting components.

These vent kits allow for either horizontal or vertical venting of the fireplace. The maximum number of 4" flexible connections is four (excluding the fireplace and the air terminal connections).
For optimum flame appearance and fireplace 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.

- All horizontal runs must have a 1 inch rise per foot in all cases using Napoleon flexible venting components.
- Horizontal runs can have a 0 inch rise per foot using Simpson Dura-Vent or Napoleon rigid venting components.
- Provide a means for visually checking the vent connection to the fireplace after the fireplace is installed.
- Do not allow the inside liner to bunch up on horizontal or vertical runs and elbows. Keep it pulled tight. A 1¼" air gap between the inner and outer liner all around is required for safe operation.
- Use a firestop when penetrating interior walls, floor or ceiling.
- The fireplace must be installed against finished walls. Do not install against a vapour barrier or exposed insulation.

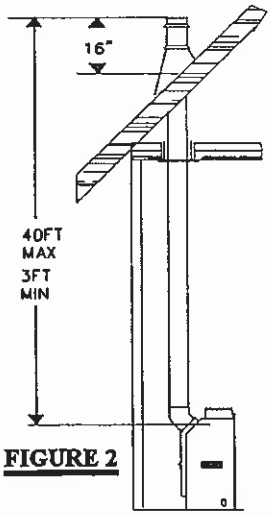


FIGURE 2

When terminating vertically, the vertical rise is a minimum 36 inches and a maximum 40 feet above the fireplace. **FIGURE 2.**

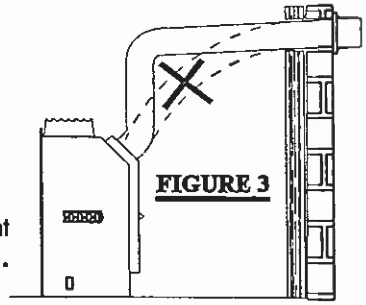
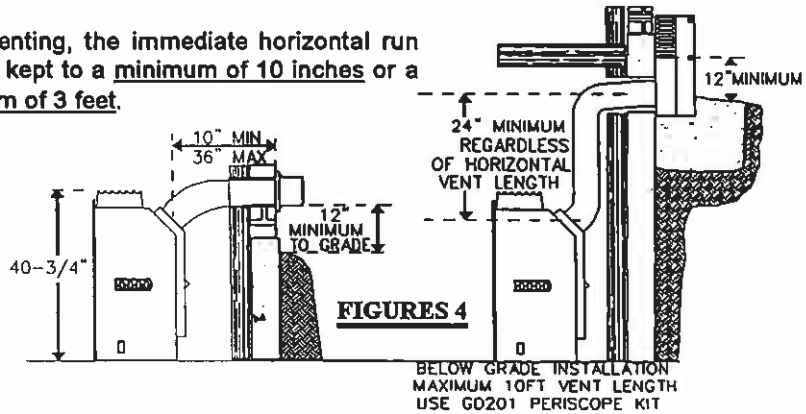


FIGURE 3

Do not radius vertical vent rises. **FIGURE 3.**

When venting, the immediate horizontal run must be kept to a minimum of 10 inches or a maximum of 3 feet.



FIGURES 4

FOR SAFE AND PROPER OPERATION OF THE FIREPLACE FOLLOW THE VENTING INSTRUCTION EXACTLY.

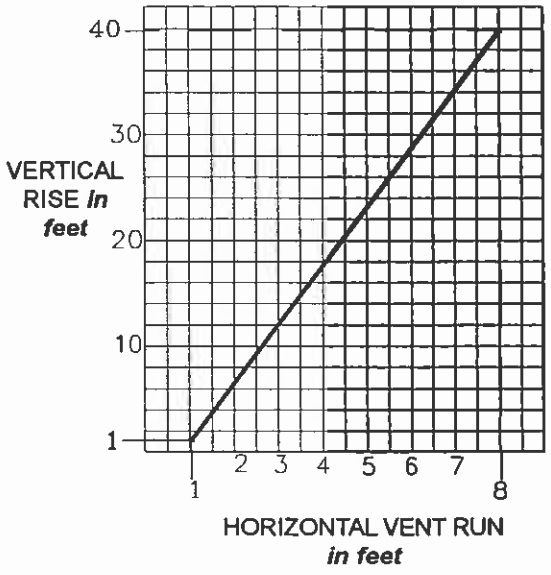
DEVIATION FROM THE MINIMUM VERTICAL VENT LENGTH CAN CREATE DIFFICULTY IN BURNER START-UP AND/OR CARBONING.

VENT LENGTHS THAT PASS THROUGH UNHEATED SPACES (ATTICS, GARAGES, CRAWL SPACE) OR VENT LENGTHS EXCEEDING 20FT SHOULD BE INSULATED WITH THE INSULATION WRAPPED IN A PROTECTIVE SLEEVE TO MINIMIZE CONDENSATION.

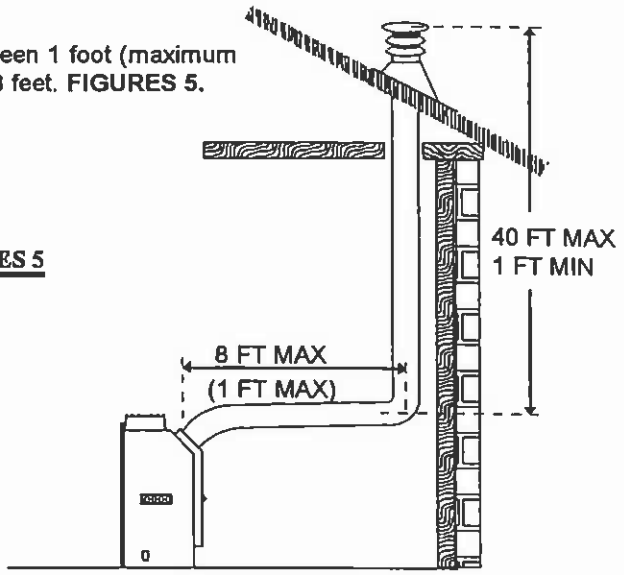
Use the venting option charts to calculate vertical rises for horizontal runs between 3 and 20 feet.
When calculating maximum run lengths, include 10 feet for each 90° elbow or 5 feet for each 45° elbow. (DO NOT INCLUDE THE FIRST ELBOW DIRECTLY OFF THE UNIT.)

VENTING OPTION #1

Use this chart to calculate vertical rise for horizontal run between 1 foot (maximum length when the vertical rise is at its minimum of 1 foot) and 8 feet. **FIGURES 5.**

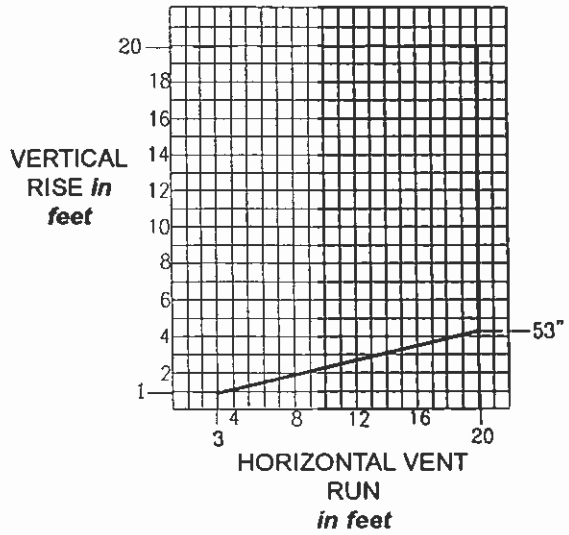


FIGURES 5

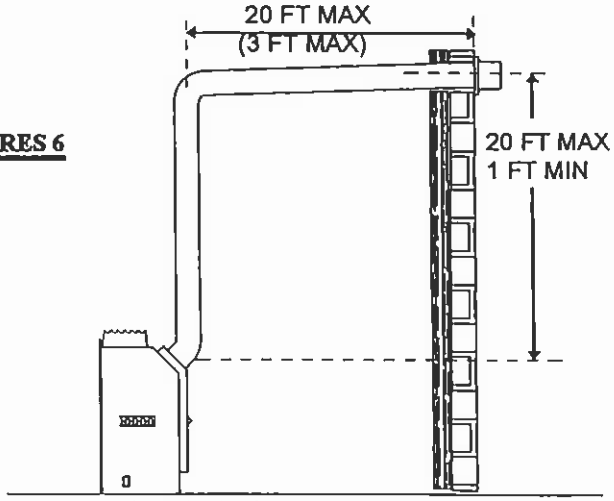


VENTING OPTION #2

Use this chart to calculate vertical rise for horizontal run between 3 feet (maximum length when the vertical rise is at its minimum of 1 foot) and 20 feet. **FIGURES 6.**



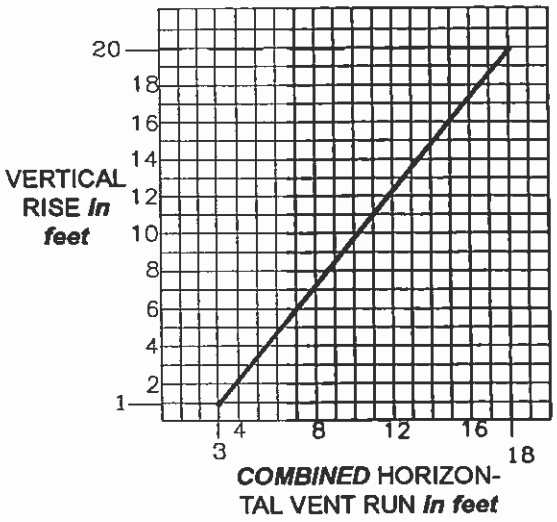
FIGURES 6



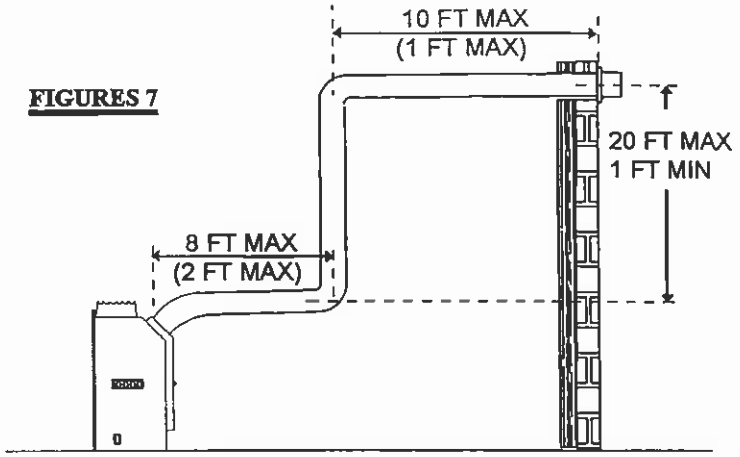
When venting, the horizontal run must be kept to a minimum of 10 inches or a maximum of 20 feet.

VENTING OPTION #3

Use this chart to calculate the vertical rise when using a total of 2 horizontal runs. When the vertical rise is at its minimum of 1 foot, the first horizontal run can be a maximum of 2 feet and 1 foot maximum for the second run. When the vertical rise is at its maximum of 20 feet, the first horizontal run can be a maximum of 8 feet and 10 feet maximum for the second run. **FIGURES 7.**

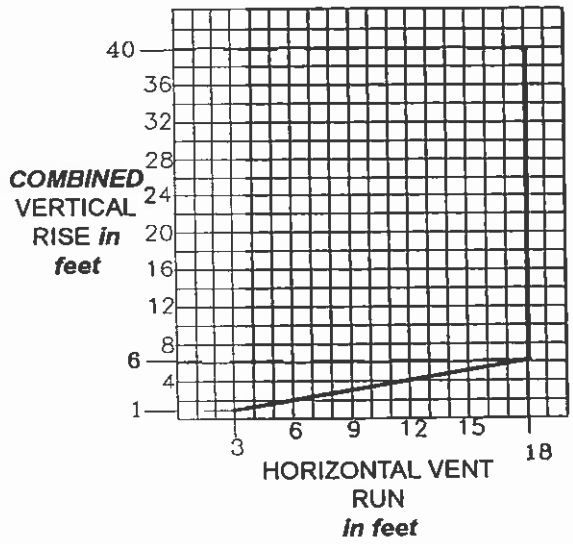


FIGURES 7

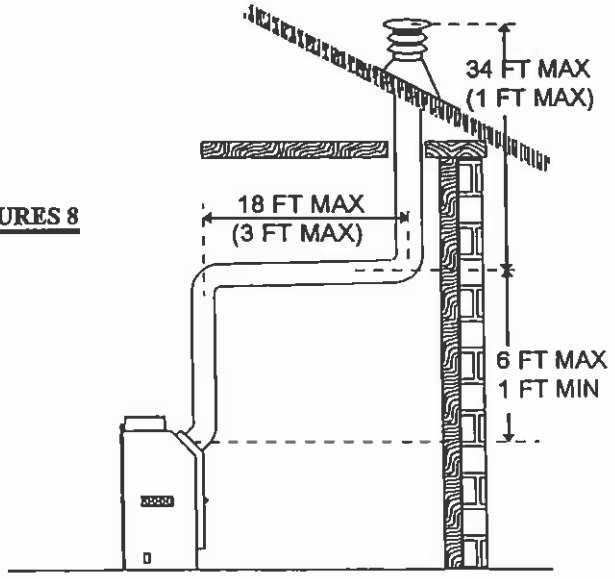


VENTING OPTION #4

Use this chart to calculate the total vertical rise required when the horizontal run is between 18 feet maximum or 3 feet maximum length when the initial vertical rise is at its minimum of 1 foot. **FIGURES 8.**



FIGURES 8



8 The air terminal must be located with the minimum clearances as illustrated in **FIGURE 9.**

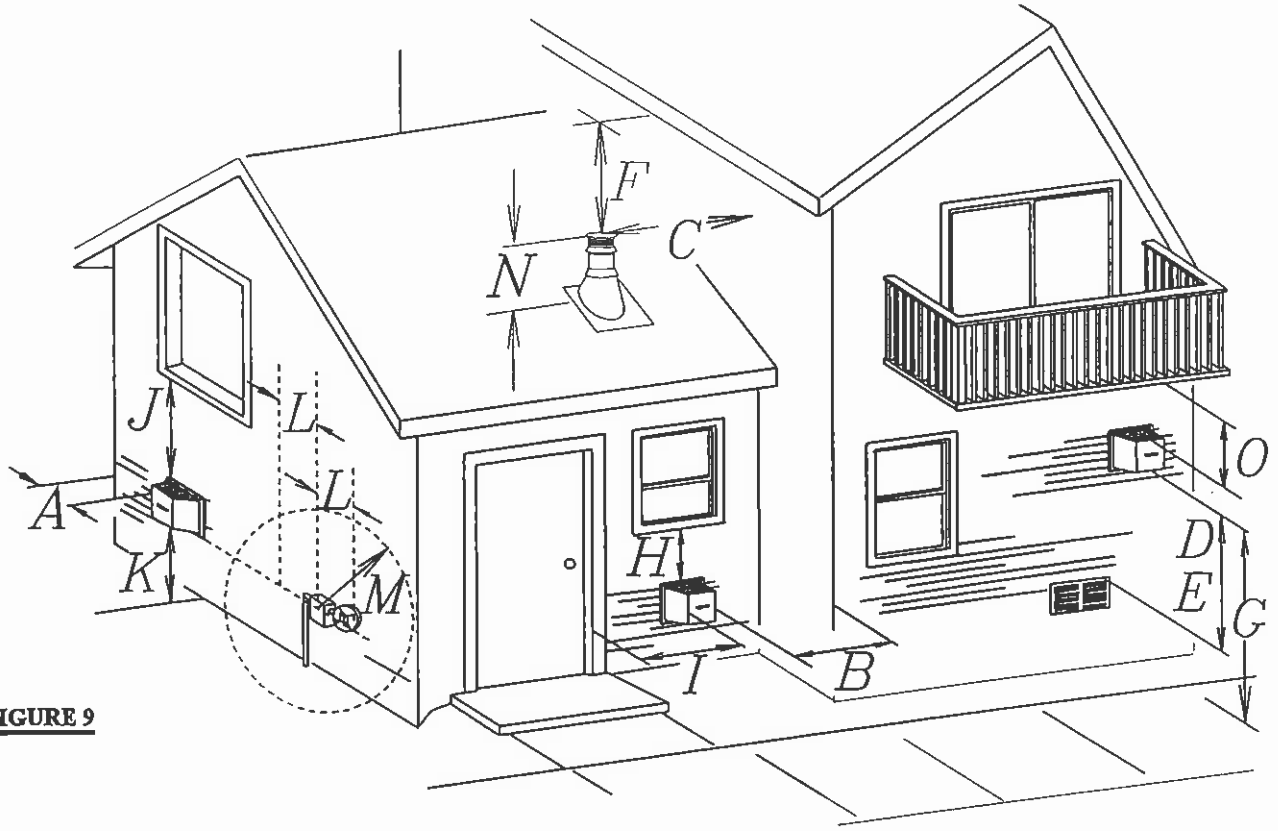


FIGURE 9

(A) **Flush (0 inches)** with outside non-combustible corner walls.

Two inches from outside combustible corner walls.

(B) **Flush (0 inches)** with inside corner walls or protruding non-combustible obstructions (vent chase, etc)

Two inches from inside corner walls or protruding combustible obstructions (chimney, etc)

(C) **Two feet** from adjacent walls, including neighbouring buildings.

(D) **One foot** from the sides, top and bottom of a non-mechanical combustion or ventilation air supply.

(E) **Six feet** from mechanical combustion or ventilation air supplies.

(F) **One foot** to an unventilated soffit located above the terminal or **eighteen inches** to a ventilated soffit located above the terminal, provided the soffit is sealed for a distance of 24 inches either side of the centre line of the terminal.

(G) **Seven feet** above public walkways unless fitted with heat shield kit GD301.

(H) **One foot** below windows that open.

(I) **One foot** from the side of doors and windows that open.

(J) **One foot** from permanently closed windows.

(K) **One foot** above grade.

(L) Above a regulator/meter assembly and **three feet** from the vertical centre-line of the assembly.

(M) **Six feet** from a gas service regulator vent outlet.

(N) **Sixteen inches** above the roof.

(O) **One foot** to the underside of a veranda, porch, deck or balcony that has a minimum of two open sides.

A TERMINAL SHALL NOT TERMINATE DIRECTLY ABOVE A SIDEWALK OR PAVED DRIVEWAY WHICH IS LOCATED BETWEEEN TWO SINGLE FAMILY DWELLINGS AND SERVES BOTH DWELLINGS. LOCAL CODES OR REGULATIONS MAY REQUIRE DIFFERENT CLEARANCES.

ALL HORIZONTAL RUNS MUST HAVE A MINIMUM 1 INCH RISE PER FOOT WHEN USING NAPOLEON FLEXIBLE VENTING COMPONENTS.

DO NOT ALLOW THE INSIDE LINER TO BUNCH UP ON HORIZONTAL OR VERTICAL RUNS AND ELBOWS. KEEP IT PULLED TIGHT. A 1¼" AIR GAP ALL AROUND BETWEEN THE INNER LINER AND OUTER STOVE PIPE IS REQUIRED FOR SAFE OPERATION. USE A FIRESTOP WHEN PENETRATING INTERIOR WALLS, FLOOR OR CEILING.

HORIZONTAL AIR TERMINAL INSTALLATION

This application occurs when venting through an exterior wall. **FIGURE 10.** Having determined the air terminal location:

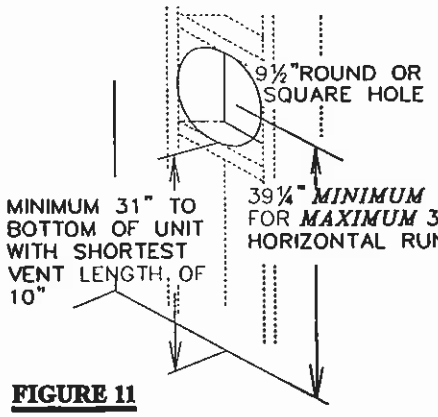


FIGURE 11

1. Cut or frame a hole in an exterior wall with a minimum round or square opening of 9½ inches. (Opening size must suit type of venting used.)

FIGURE 11. Secure the firestop spacer over the opening to the interior wall.

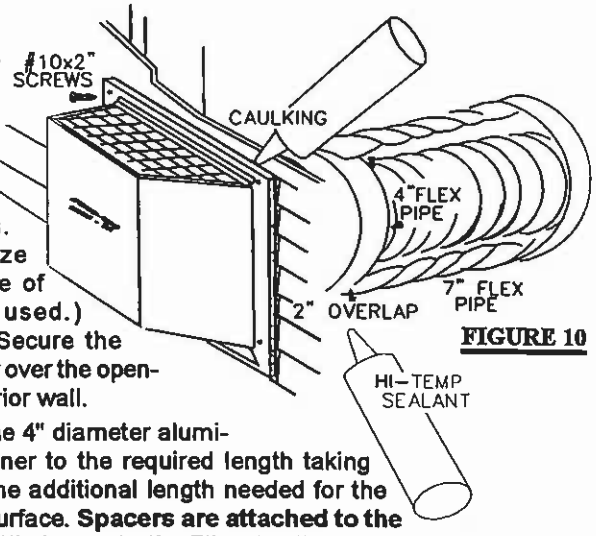


FIGURE 10

2. Stretch the 4" diameter aluminum flexible liner to the required length taking into account the additional length needed for the finished wall surface. **Spacers are attached to the 4" inner flex liner at predetermined intervals to maintain a 1¼" air gap to the 7" outer liner. These spacers must not be removed.**

Slip the liner a minimum of 2" over inner sleeve of the air terminal and secure with 3 #8 screws. Apply a heavy bead of the high temperature sealant.

3. Using the 7" diameter flexible aluminum liner, slide over the outer combustion air sleeve of the air terminal and secure with 3 #8 screws. Seal as before.

4. Insert the liners through the firestop maintaining a 1" 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 MUST NOT BE RECESSED INTO THE EXTERIOR WALL OR SIDING.

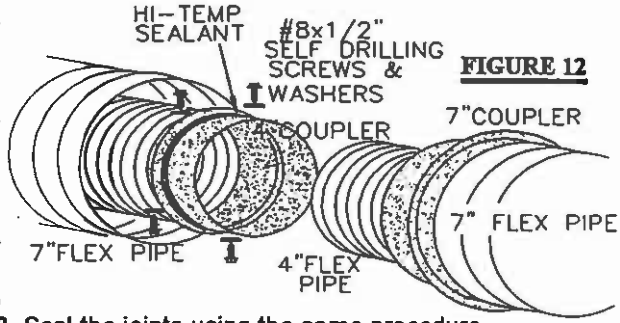


FIGURE 12

5. If more than one length of liner needs to be used to reach the fireplace, couple them together as illustrated in **FIGURE 12**. Seal the joints using the same procedure as described in points 2 and 3. The vent system must be supported every 3 feet, for both vertical and horizontal runs. Use Napoleon support ***GA-GD-010.370*** or equivalent noncombustible strapping to maintain the 1" clearance from combustibles.

VERTICAL VENTING INSTALLATION

THIS APPLICATION OCCURS WHEN VENTING THROUGH A ROOF. **FIGURE 2.** Installation kits for various roof pitches are available from your Napoleon dealer. See Accessories to order the specific kit required.

1. Having determined the air terminal location, cut and frame a 9½" opening in the roof to provide the minimum 1" clearance between the fireplace pipe and any combustible material.

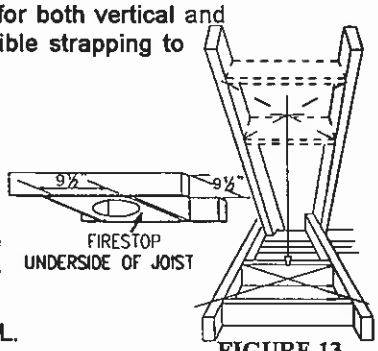


FIGURE 13

DO NOT FILL THIS SPACE WITH ANY TYPE OF MATERIAL. Nail headers between the joists for extra support. A firestop must be placed on the bottom of each framed opening in a roof or ceiling that the vent pipe passes through.

2. Fasten the roof support to the roof using the screws provided.

3. Stretch the 4" diameter aluminum flexible liner to the required length. Slip the liner a minimum of 2" over the inner sleeve of the air terminal and secure with 3 #8 screws. Seal using a heavy bead of the high temperature sealant.

4. Slide the **narrow end** of the rigid sleeve 2" into the outer sleeve of the terminal. Secure and seal as before. Attach a 7 to 8 inch increaser to the telescoping sleeve. Secure and seal. Repeat using the 7" diameter flexible aluminum liner. Slide a minimum of 2" over the increaser. Secure with 3 #8 screws and seal. **FIGURE 14.**

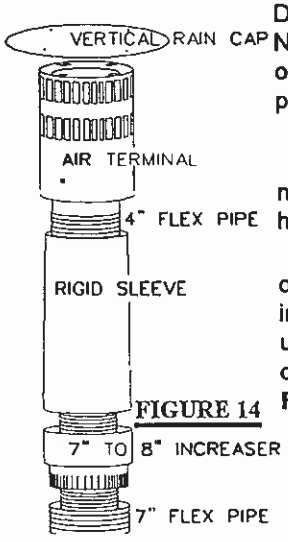


FIGURE 14

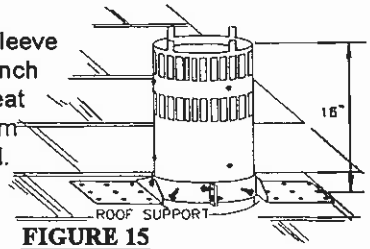


FIGURE 15

5. Thread the air terminal pipe assembly down through the roof. The air terminal must be located vertically and plumb. Attach the air terminal assembly to the roof support, ensuring that a minimum 16" of air terminal will penetrate the roof when fastened.

DO NOT CLAMP THE FLEXIBLE ALUMINUM LINER. FIGURE 15.

6. Remove nails from the shingles, above and to the sides of the chimney. Place the flashing over the air terminal and slide it underneath the sides and upper edge of the shingles. Ensure that the air terminal 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.

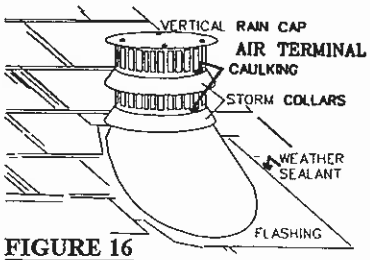


FIGURE 16

7. Apply a heavy bead of weatherproof caulking 2 inches above the flashing. Slide the storm collar around the air terminal and down to the caulking. Tighten to ensure that a weather-tight seal between the air terminal and the collar is achieved. Attach the other storm collar centered between the air intake and the air exhaust slots onto the air terminal. Tighten securely. **FIGURE 16.** Attach the vertical rain cap.

Spacers are attached to the 4" inner flex liner at predetermined intervals to maintain a 1-1/4" air gap to the 7" outer liner. These spacers must not be removed.

8. If more liner needs to be used to reach the fireplace, follow the same procedure as found in **HORIZONTAL AIR TERMINAL INSTALLATION, POINT 5.** The vent system must be supported approximately every 3 feet for both vertical and horizontal runs. Use Napoleon support ring assembly ***GA-GD-010.370*** or equivalent noncombustible strapping to maintain the minimum 1" clearance to combustibles.

RESTRICTING VERTICAL VENTS

Vertical installations running longer than 10 feet may display a very active flame. If this appearance is not desirable, remove the brick baffle from the firebox, exposing the flue gas outlet openings. Bend the restrictor plates up into the flue openings. Replace the brick baffle. This reduces the velocity of the exhaust gases, slowing down the flame pattern and creating a more traditional gentle appearance. Specific instructions are shown in "***Trouble Shooting***".

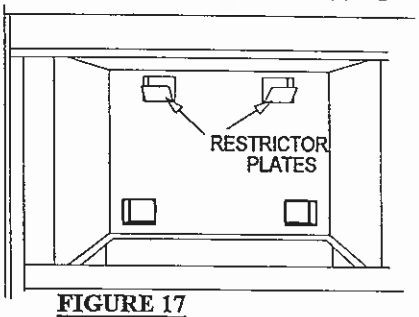


FIGURE 17

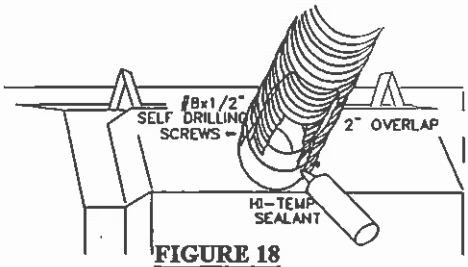


FIGURE 18

FIREPLACE VENT CONNECTION

1. Install the 4 inch diameter aluminum flexible liner to the fireplace. Secure with 3 screws and flat washers. Seal the joint and screw holes using the high temperature sealant provided. **FIGURE 18.**

2. Install the 7 inch diameter aluminum flexible liner to the fireplace. Attach and seal the joints.

INSTALLATION / FRAMING

INSTALLATION

Proceed once the vent installation is complete.

Move the fireplace into position and secure using the nailing tabs (2 per side) and/or secure to the floor using #10 hex head screws (not supplied).

MOBILE HOME INSTALLATION

The fireplace Is equipped with two 1/4" diameter holes located in the front left and right corners of the base. For mobile home installations, the fireplace must be fastened in place. Use #10 hex head screws, inserted through the holes in the base to secure. It is recommended that the fireplace be secured in all installations.

In Canada, mobile home installation may be vented horizontally or vertically. In the United States, it may only be installed vertically. See "Vertical Venting" or "Horizontal Air Terminal Installation" for installation.

FRAMING

It is best to frame your fireplace after it is positioned and the vent system is installed. Use 2x4's and frame to local building codes. **FIGURES 19-21.** To install the fireplace face flush with the finished wall, position the framework to accommodate the thickness of the finished wall. Pull out the four nailing tabs, attached on either side of the fireplace and secure to the 2x4 framing to facilitate drywall installation.

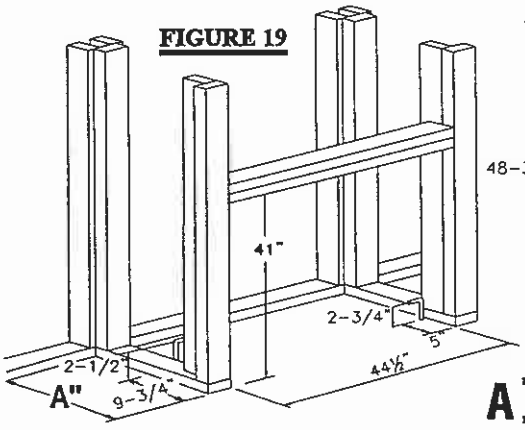


FIGURE 19

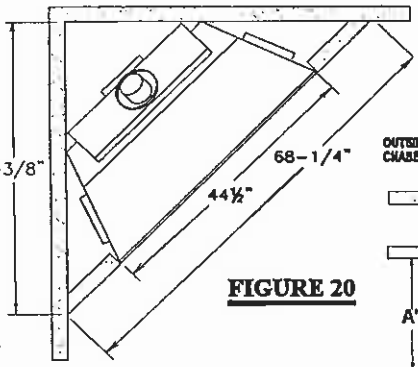


FIGURE 20

A = 22" IF VENTING IS HORIZONTAL
= 26" IF VENTING IS VERTICAL

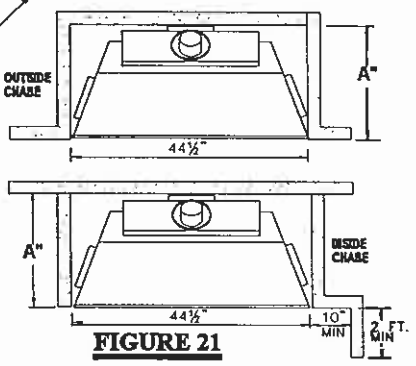


FIGURE 21

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

It is not necessary to install a hearth extension with this fireplace system. Objects placed in front of the fireplace should be kept a minimum of 24" away from the front face.

Combustible mantle clearance can vary according to the mantle depth. **FIGURE 23.** Use the graph to help evaluate the clearance needed.

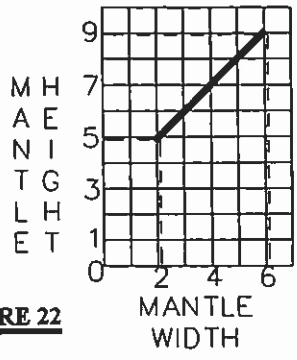


FIGURE 22

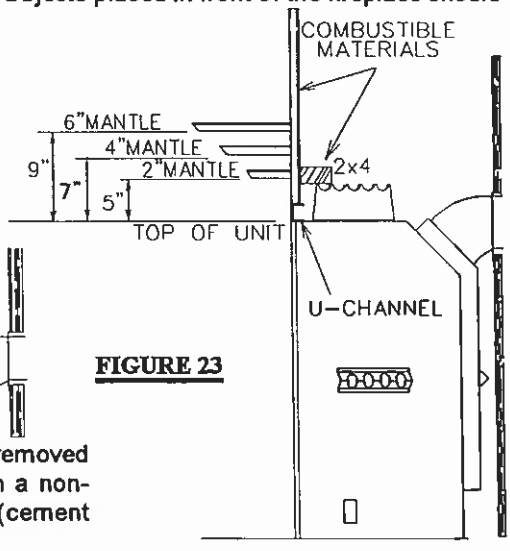


FIGURE 23

The U-channel may be removed if framing is faced with a non-combustible material (cement board)*(not supplied)*.

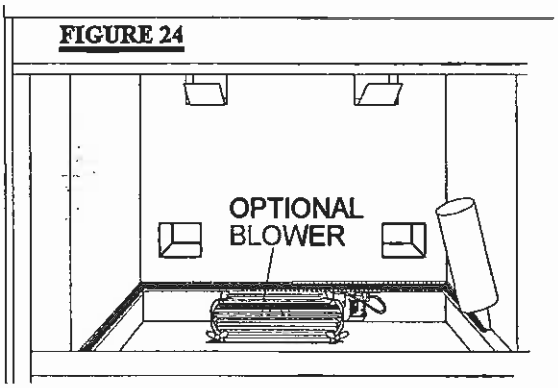
BURNER INSTALLATION

Proceed once the vent installation is complete. For ease of accessibility, the optional blower may be positioned into place prior to burner installation. **FIGURE 24.**

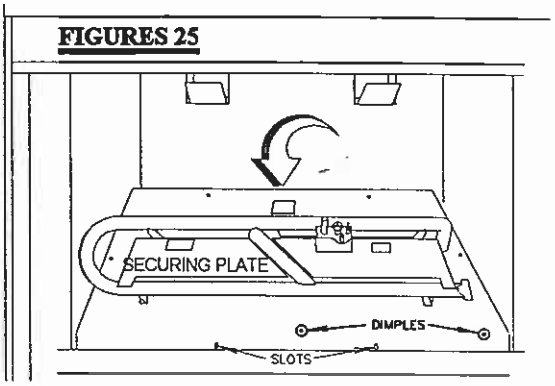
1. Route a 3/8" N.P.T. black iron gas line, 1/2" type-L copper tubing or equivalent to the fireplace.

2. Check the burner label to ensure that the burner assembly fuel type matches the type being installed.

FIGURE 24



FIGURES 25



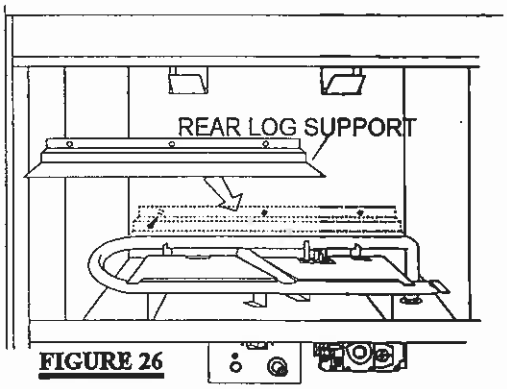
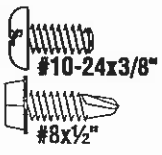


FIGURE 26

3. Liberally run a bead of hi-temp sealant all around the burner ledge. **FIGURE 24.** Lifting the burner assembly by the securing plate, tilt and pivot to bring the valve around the ledge. Center the assembly and secure the four #10-24 x 3/8" screws into the two dimples and the two slots at the immediate front. Secure the sides and back with 4 #8 x ½" self drilling screws.



4. Install the rear log support with 3 screws provided. **FIGURE 26.**

5. For ease of accessibility, an optional remote wall switch or millivolt thermostat may be installed in a convenient location. Route single strand millivolt wire through the electrical hole located at the bottom left side of the unit. The recommended maximum lead length depends on wire size:

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

Attach the two leads to terminals 1 and 3 located on the gas valve. **FIGURE 27.**

DO NOT CONNECT EITHER THE WALL SWITCH, THERMOSTAT OR GAS VALVE TO ELECTRICITY (110 VOLTS).

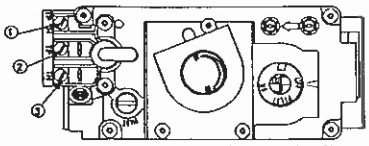


FIGURE 27

5. Install rigid black pipe, 1/2" type-L copper tubing or, if local codes permit, a 3/8" flex connector and shutoff valve to the gas line and the fireplace gas valve. Seal and tighten securely. An adapter fitting is required between the gas valve and the copper tubing or flex connector. **DO NOT KINK FLEX CONNECTOR. FIGURE 28.**

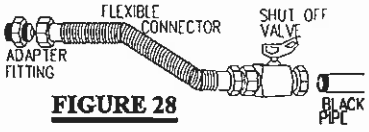


FIGURE 28

PURGE ALL GAS LINES WITH THE GLASS DOOR OF THE FIREPLACE OPEN. ASSURE THAT A CONTINUOUS GAS FLOW IS AT THE BURNER BEFORE CLOSING THE DOOR.

6. Mark the appropriate box on the rating plate label to indicate the type of fuel being used.

7. Check for gas leaks by brushing on a soap and water solution. **DO NOT USE OPEN FLAME.**

CERTIFIED UNDER / HOMOLOGUE SELON LES NORMES: CAN 1-2.19-M81, CGA IR41 & IR55, ANSI Z21.44-1995 WALL FURNACE / RADIATEUR MURAL, WH-GPN-001

DIRECT VENT WALL FURNACE. APPROVED FOR BEDROOM, BATHROOM AND BED-SITTING ROOM INSTALLATION. SUITABLE FOR MOBILE HOME INSTALLATION IF INSTALLED IN ACCORDANCE WITH THE CURRENT STANDARD CAN/CSA Z240MH SERIES GAS EQUIPPED MOBILE HOMES, IN CANADA OR ANSI Z223.1-1988 AND NFPA 54-1988 IN THE UNITED STATES.

Warnock Hersey

CERTIFIED FOR CANADA AND USA
CERTIFIEE POUR CANADA ET USA

LE RADIATEUR MURAL A EVACUATION DIRECTE. HOMOLOGUE POUR INSTALLATION DANS UNE CHAMBRE A COUCHER, UNE SALLE DE BAIN ET UN STUDIO. APPROPRIE POUR INSTALLATION DANS UNE MAISON MOBILE SI SON INSTALLATION CONFORME AUX EXIGENCES DE LA NORME CAN/CSA Z240MH SERIE DE MAISONS MOBILES EQUIPEES AU GAZ, EN VIGUEUR AU CANADA OU ANSI Z223.1-1988 ET NFPA 54-1988 AUX ETATS-UNIS.

	MODEL GD45-N ■		MODEL GD45-P ■
ALTITUDE / ELEVATION	0-4500FT (0-1370M)		0-4500FT (0-1370M)
INPUT / ALIMENTATION	45,000 BTU/H		40,000 BTU/H
REDUCED INPUT / ALIMENTATION REDUIT	28,000BTU/H		30,000BTU/H
OUTPUT / RENDEMENT	32,400 BTU/H		29,300 BTU/H
ORIFICE / INJECTEUR	#30		#49

MANIFOLD PRESSURE: 3.5" WATER COLUMN
PRESSION AU COLLECTEUR: 3.5" D'UNE COLONNE D'EAU
MINIMUM SUPPLY PRESSURE: 4.5" WATER COLUMN
PRESSION D'ALIMENTATION MINIMALE: 4.5" D'UNE COLONNE D'EAU
MAXIMUM SUPPLY PRESSURE: 7.0" WATER COLUMN
PRESSION D'ALIMENTATION MAXIMAL: 7.0" D'UNE COLONNE D'EAU
STEADY STATE EFFICIENCY: 72% FAN OFF / 76.4% FAN ON **
EFFICACITE CONSTANTE: 72% VENTILATEUR ARRETE / 76.4% VENTILATEUR FONCTIONNE **
AFUE: 64%

MANIFOLD PRESSURE: 10" WATER COLUMN
PRESSION AU COLLECTEUR: 10" D'UNE COLONNE D'EAU
MINIMUM SUPPLY PRESSURE: 11" WATER COLUMN
PRESSION D'ALIMENTATION MINIMALE: 11" D'UNE COLONNE D'EAU
MAXIMUM SUPPLY PRESSURE: 13" WATER COLUMN
PRESSION D'ALIMENTATION MAXIMAL: 13" D'UNE COLONNE D'EAU
STEADY STATE EFFICIENCY: 73.3% FAN OFF / 76.5% FAN ON **
EFFICACITE CONSTANTE: 73.3% VENTILATEUR ARRETE / 76.5% VENTILATEUR FONCTIONNE **
AFUE: 64%

**STEADY STATE EFFICIENCY APPLIES TO CANADA ONLY / L'EFFICACITE CONSTANTE S'APPLIQUENT SEULEMENT AU CANADA.

NOT FOR USE WITH SOLID FUEL. FOR USE WITH GLASS DOORS CERTIFIED WITH THIS UNIT ONLY.

WARNING: DO NOT ADD ANY MATERIAL TO THE APPLIANCE, WHICH WILL COME IN CONTACT WITH THE FLAMES, OTHER THAN THAT SUPPLIED BY THE MANUFACTURER WITH THE APPLIANCE.

MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS / DEGAGEMENTS MINIMAUX DES MATERIAUX COMBUSTIBLES:

TOP / SIDES / BACK / FLOOR	0	DESSUS / COTES / ARRIERE / PLANCHER
RECESSED DEPTH	22"	PROFONDEUR D'ENCASTRE
VENT	1"	EVENT
MANTLE	5" *	MANTEAU

* MAXIMUM HORIZONTAL EXTENSION / L'EXTENSION HORIZONTALE MAXIMALE: 2". SEE INSTRUCTION MANUAL FOR GREATER EXTENSIONS. REFERER AU MANUEL D'INSTRUCTION POUR DES EXTENSIONS PLUS GRANDES.

MINIMUM AND MAXIMUM HORIZONTAL VENT LENGTHS ARE 6 INCHES AND 20 FEET RESPECTIVELY. MINIMUM AND MAXIMUM VERTICAL VENT LENGTHS ARE 34 INCHES AND 40 FEET RESPECTIVELY. LES LONGUEURS HORIZONTALES MINIMALE ET MAXIMALE SONT 6 POUCE ET 20 PIEDS RESPECTIVEMENT. LES LONGUEURS VERTICALES MINIMALE ET MAXIMALE SONT 34 POUCE ET 40 PIEDS RESPECTIVEMENT.

ELECTRICAL RATING / CLASSIFICATION: 115V 0.82AMP, 60HZ
OPTIONAL FAN KIT / ENSEMBLE DE VENTILATEUR FACULTATIF: GZ-550

UN COMBUSTIBLE SOLIDE NE DOIT PAS ETRE UTILISE AVEC CET APPAREIL. UTILISER AVEC LES PORTES VITREES HOMOLOGUEES SEULEMENT AVEC CETTE UNITE.

AVERTISSEMENT: N'AJOUTEZ PAS A CET APPAREIL AUCUN MATERIAU DEVANT ENTRER EN CONTACT AVEC LES FLAMMES AUTRE QUE CELUI QUI EST FOURNI AVEC CET APPAREIL PAR LE FABRICANT.

THE APPLIANCE MUST BE VENTED USING THE APPROPRIATE NAPOLEON VENT KITS. SEE OWNERS INSTALLATION MANUAL FOR VENTING SPECIFICS. PROPER REINSTALLATION AND RESEALING IS NECESSARY AFTER SERVICING THE VENT-AIR INTAKE SYSTEM.

THIS APPLIANCE MUST BE INSTALLED USING BURNER KIT: GDB45N-KT, OR GDB45P-KT.

L'APPAREIL DOIT EVACUER SES GAZ EN UTILISANT L'ENSEMBLE D'EVACUATION PROPRE A NAPOLEON. REFERER AU MANUEL D'INSTALLATION DE PROPRIETAIRE POUR L'EVACUATION PRECISE.

CET APPAREIL DOIT ETRE INSTALLE EN UTILISANT UN ENSEMBLE DU BRULEUR: GDB45N-KT, OU GDB45P-KT.

MADE IN CANADA / FABRIQUE AU CANADA

SERIAL NUMBER/NO. DE SERIE GD45 [redacted]

WOLF STEEL LTD, BARRIE, ON, CANADA

ws-385-110

FINISHING

BRICK PANEL INSTALLATION

1. Remove the two brick retainers located on either of the firebox sides as illustrated.

2. Remove the protective plastic wrap from all four panels. Center the rear brick panel against the back of the firebox.

3. Tilt and insert the left brick panel against the left side of the firebox, ensuring that it butts up to the rear panel. Excess material may be trimmed with a utility knife. Secure in place using a retainer bracket and 2 of the screws. Repeat for the right side.

4. Slide the upper brick baffle into place over the side brick panels.

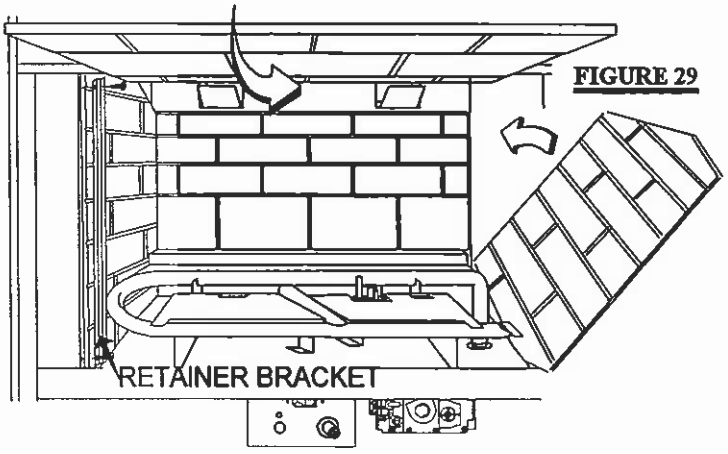


FIGURE 29

When shipped, the brick panels range in colour from white to varying shades of brown. During initial use, the panels will darken temporarily and emit a slight odour for a few hours. This is a normal condition that will not occur again. Simply open a window to sufficiently ventilate the room. The appearance of the panels will permanently lighten in colour with use.

LOG PLACEMENT INSTRUCTIONS

PHAZER™ logs, exclusive to Napoleon Fireplaces, provide a unique and realistic glowing effect that is different in every installation. Use only certified ***PHAZER***™ logs available from your Napoleon / Wolf Steel Ltd. dealer.

POSITIONING THE LOGS IMPROPERLY WILL CAUSE FLAME IMPINGEMENT AND CARBONING.

Position the logs as shown. All logs are numbered.

The rear log should be centered on the log support.

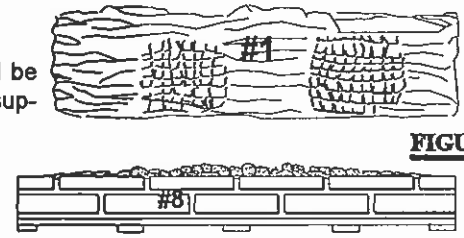
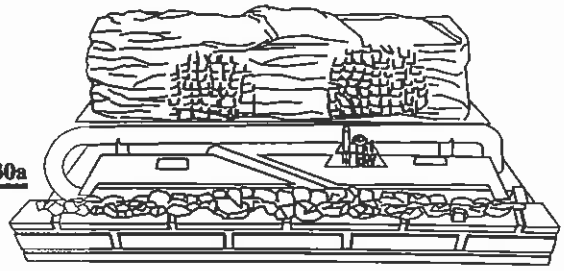


FIGURE 30a



Logs **(#2)** and **(#3)** have one leg on each underside that fits into the rectangular cutouts on the burner securing plate.

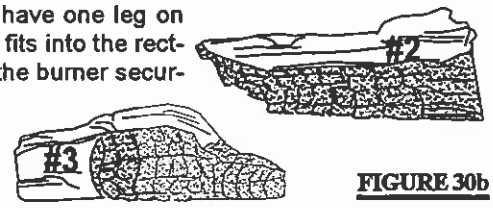
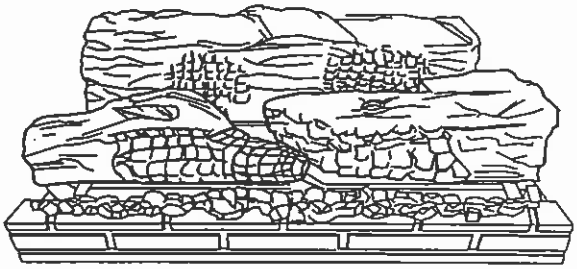


FIGURE 30b



Log **(#6)** has a leg that fits into an indentation on the top of log **(#3)**.

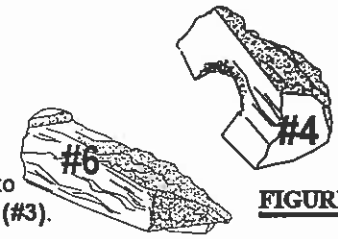
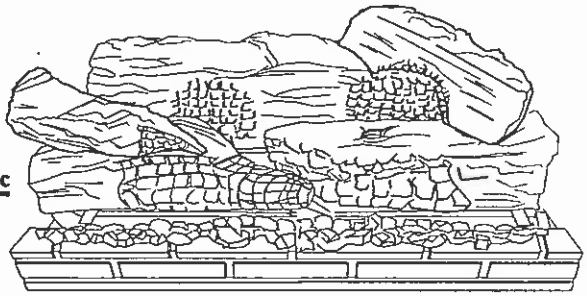


FIGURE 30c



Logs **(#5)** and **(#7)** fit onto the indentations of the lower logs.

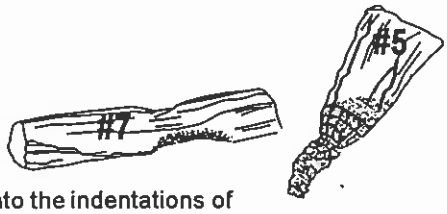
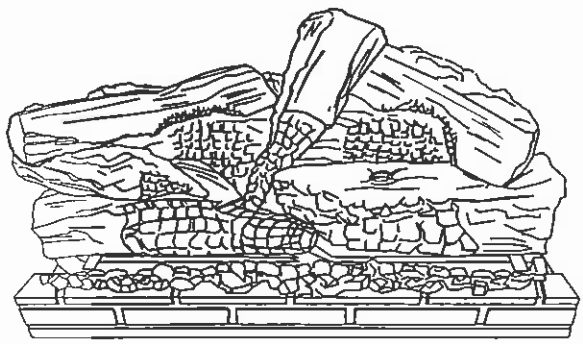


FIGURE 30d



DOOR OPENING, LOUVRE AND TRIM REMOVAL & INSTALLATION

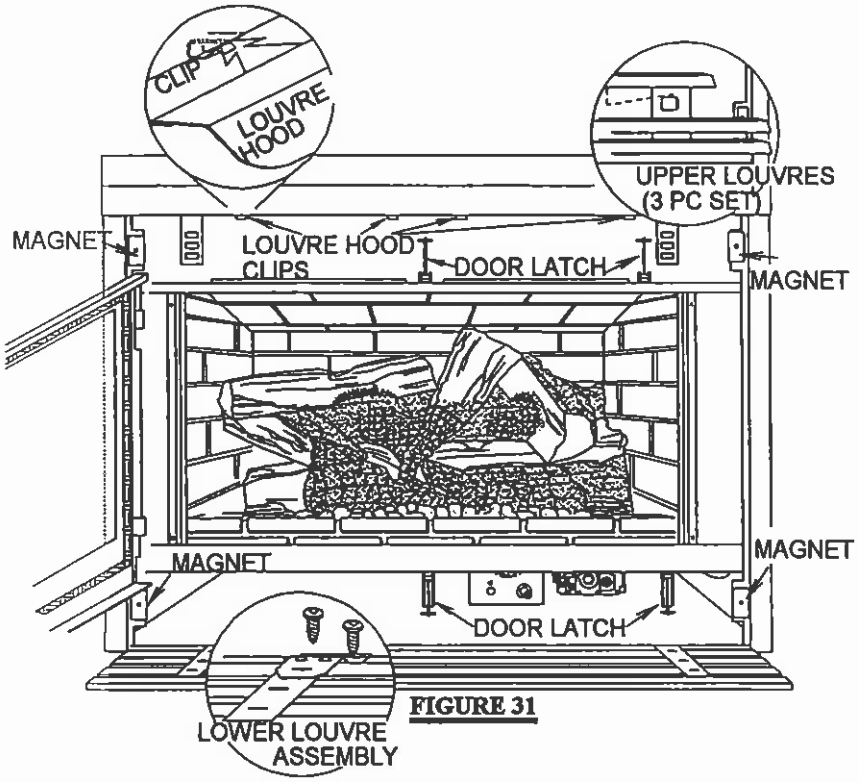
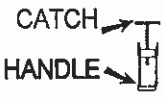


FIGURE 31

DOOR OPENING: When opening the fire viewing door, a simple procedure must be followed in order to not damage the door. First open the valve control door. Next remove the lowest of the louvres located above the door. The door is secured by two latches at the top and another two at the bottom. Pull the latch handles towards you and release each catch. The door may now be safely opened.



To close the door, repeat in reverse order.

DOOR REMOVAL: To remove the door, fully open to 90°, lift up and off.

TRIM INSTALLATION: The 2 vertical trim pieces are each held on with two magnets. Attach the trim to the magnets. ***(To open the door, the trim must be removed.)***

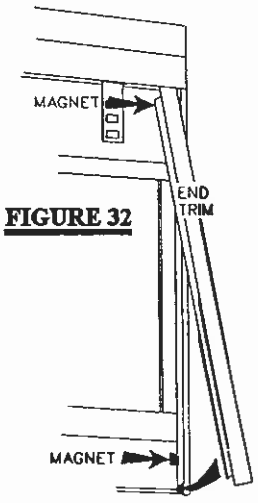


FIGURE 32

LOUVRES: The louvre assemblies are installed as illustrated in **FIGURE 31**. In addition, the louvre hood, located above the upper louvres, is held in place with 4 clips. Slide the short leg of the louvre hood into the clips, as shown.

OPTIONAL BLOWER INSTALLATION

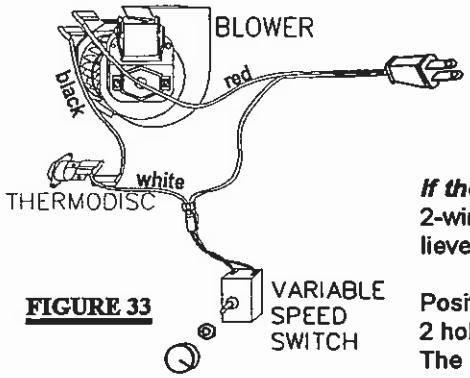


FIGURE 33

INSTALLATION TO BE DONE BY A QUALIFIED INSTALLER and must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA C22.1 CANADIAN ELECTRICAL CODE in Canada or the ANSI/NFPA 70-1990 NATIONAL ELECTRICAL CODE in the United States.

If the fireplace was not previously equipped with a blower: route a grounded 2-wire, 60hz power cable to the junction box. At this point, it must be strain relieved and insulated.

Position the vibration reducing pad, centered, onto the 2 threaded studs, piercing 2 holes into the pad. These studs are located, on the base, at the rear of the unit. The blower must be able to be positioned entirely onto the pad.

Tilt the blower onto its side and slide it past the controls. Position the blower onto the studs. Secure using the lock washers and wing nuts provided.

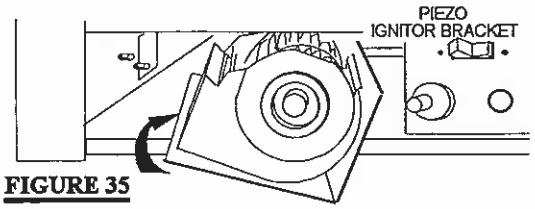
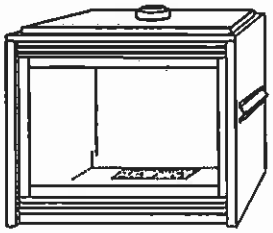


FIGURE 35



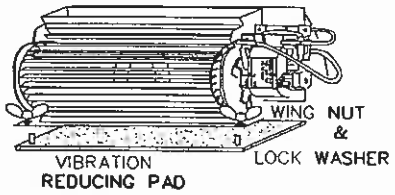
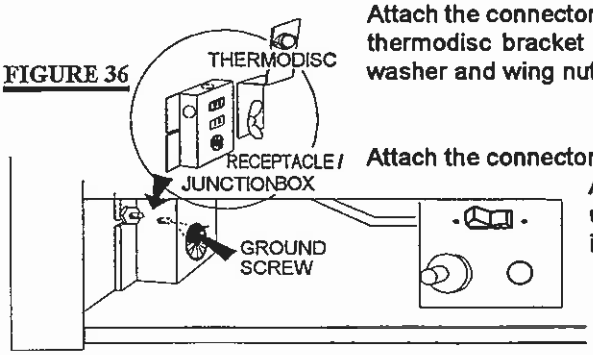


FIGURE 34

FIGURE 36



Attach the connectors from the black and white wires to the thermodisc and secure the thermodisc bracket to the securing stud at the bottom left of the unit using a lock washer and wing nut. Ensure that the thermodisc touches the firebox wall.

Attach the connectors from the black and red wires to the blower. Attach and secure the variable speed switch using the nut provided. Plug the harness cord into the receptacle.

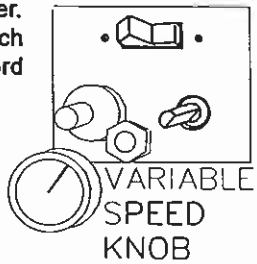


FIGURE 37

The wire harness provided in this kit is a universal harness. When installed, ensure that any excess wire is contained, preventing it from making contact with moving or hot objects.

Because the blower is thermally activated, when turned on, it will automatically start approximately 15-30 minutes after lighting the fireplace and will run for approximately 30-45 minutes after the fireplace has been turned off. Use of the fan increases the output of heat.

OPERATION / MAINTENANCE

OPERATING INSTRUCTIONS

When lit for the first time, the fireplace will emit a slight odour for a few hours. This is a normal temporary condition caused by the curing of the logs and the "burn-in" of internal paints and lubricants used in the manufacturing process and will not occur again. Simply open a window to sufficiently ventilate the room.

After extended periods of non-operation such as following a vacation or a warm weather season, the fireplace may emit a slight odour for a few hours. This is caused by dust particles in the heat exchanger burning off. Open a window to sufficiently ventilate the room.

FOR YOUR SAFETY READ BEFORE OPERATING

A. This fireplace is equipped with a pilot which must be lit by hand while following these instructions exactly.

B. Before operating smell all around the fireplace area for gas and next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

- Turn off all gas to the fireplace.
- Open windows.
- Do not try to light any appliance.

GAS KNOB

- Do not touch any electric 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.

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

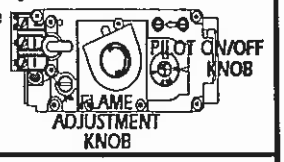
D. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and replace any part of the control system and any gas control which has been under water.

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 fireplace.
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 ignitor. 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 fireplace.



TO TURN OFF GAS

1. Turn off all electric power to the fireplace if service is to be performed.
2. For a complete shut-down procedure: push in gas control knob slightly and turn clockwise ↷ to off. Do not force.
3. For a temporary shut-down procedure: set thermostat to lowest setting or remote switch to off. Press and turn the gas knob clockwise ↷ to pilot.

MAINTENANCE

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

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing. This fireplace and its venting system should be inspected before use and at least annually by a qualified service person. The fireplace area must be kept clear and free of combustible materials, gasoline or other flammable vapours 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 to expose both assemblies.
2. Keep the control compartment, logs, burner, air shutter opening and the area surrounding the logs clean by vacuuming or brushing, *at least once a year.*
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 thermocouple and thermopile and reaches toward the burner with the third jet.
5. Replace the cleaned logs.
6. Check to see that the main burner ignites completely on all openings when the gas knob for the burner is turned on. A 5 to 10 second total light-up period is satisfactory. If ignition takes longer, consult your Napoleon dealer / distributor.
7. Check that the gasketing on the door is not broken or missing. Replace if necessary.
8. After extended periods of non-operation such as following a vacation or a warm weather season, the fireplace may emit a slight odour for a few hours. This is caused by dust particles in the heat exchanger burning off. Open a window to sufficiently ventilate the room.

ADJUSTMENTS

PILOT BURNER ADJUSTMENT

Adjust the pilot screw to provide properly sized flame. Turn in a clockwise direction to reduce the gas flow. **FIGURES 38 & 39.**

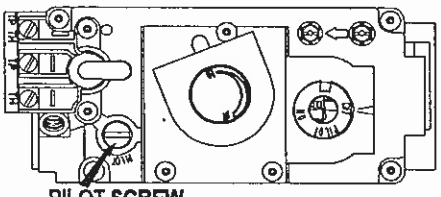
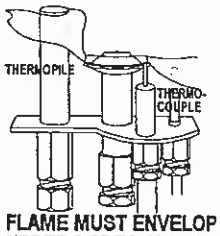


FIGURE 38



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

FIGURE 39

VENTURI ADJUSTMENT

Natural gas models have air shutters set at ¼ (.250") inch open. Propane gas models have air shutters set at 3/8 (.375) inch open. 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 colour to be established. **FIGURE 40.**

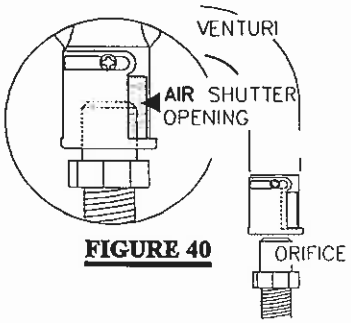


FIGURE 40

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

REPLACEMENTS

ORDERING REPLACEMENT PARTS

Contact your dealer or the factory for questions concerning prices and policies on replacement parts. Normally all parts can be ordered through your Napoleon dealer or distributor. When ordering replacement parts always give the following information:

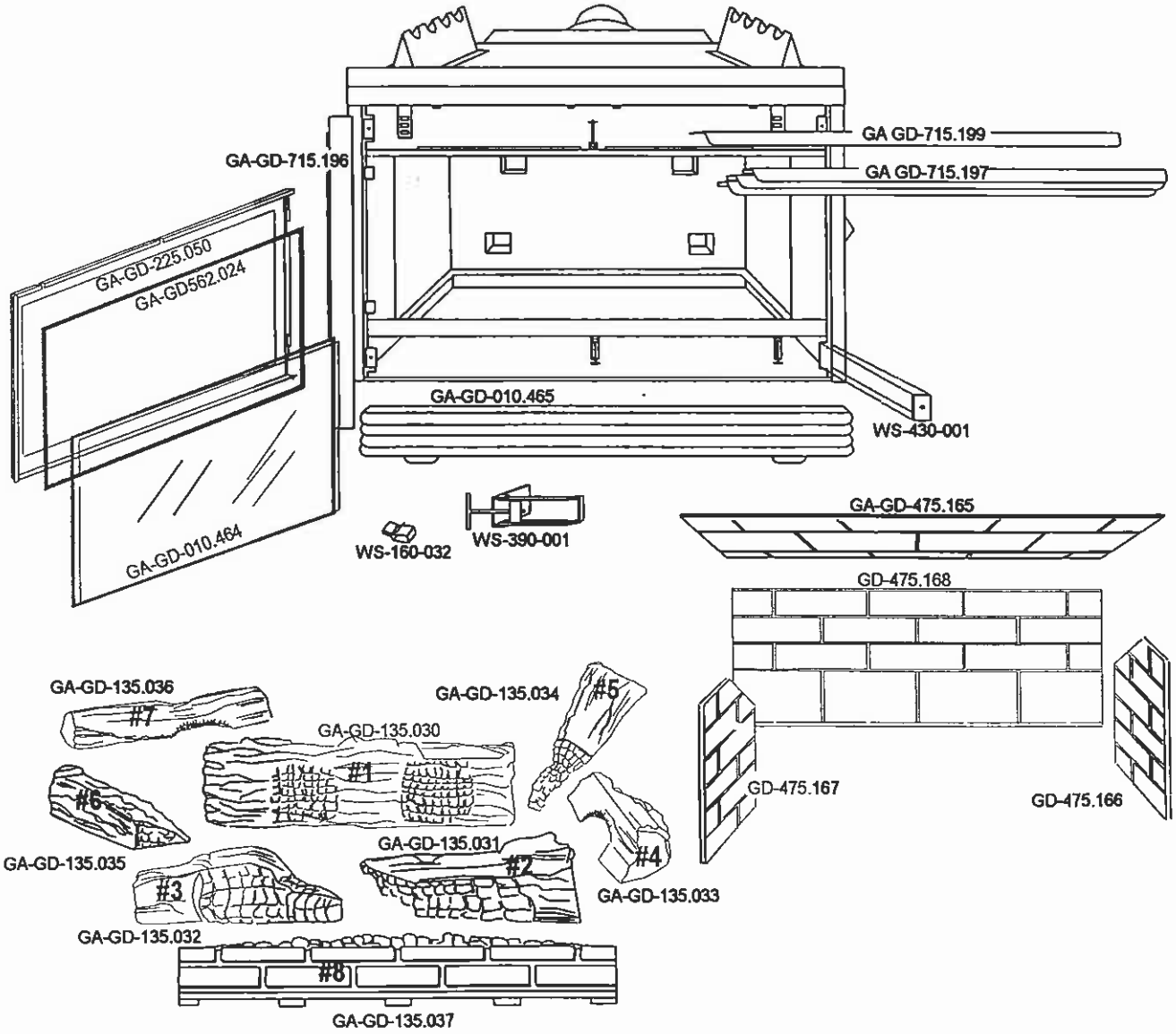
1. **Model & Serial Number** of the unit.
2. **Installation date** of the unit.
3. **Part Number**
4. **Part Description**
5. **Finish**

REPLACEMENT PARTS

For warranty replacement parts, a photocopy of the original invoice will be required to honour the claim.

PART NO.	DESCRIPTION
GA-GD-135.030	LOG # 1
GA-GD-135.031	LOG # 2
GA-GD-135.032	LOG # 3
GA-GD-135.033	LOG # 4
GA-GD-135.034	LOG # 5
GA-GD-135.035	LOG # 6
GA-GD-135.036	LOG # 7
GA-GD-135.037	EMBER/FRONT BRICK
GA-GD-715.196	TRIM
WS-385-33	NAPOLEON LOGO
GA-GD-010.465	LOWER LOUVRE ASSEMBLY - POLISHED BRASS
GA-GD-715.199	LOUVRE HOOD
WS-390-001	LATCH

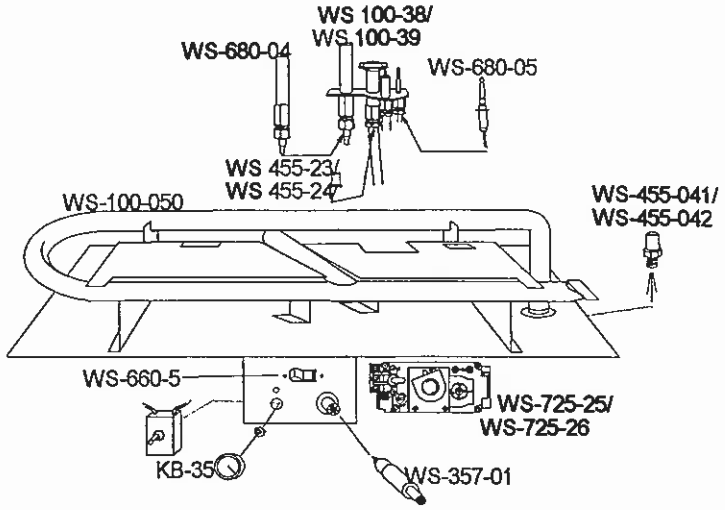
PART NO.	DESCRIPTION
GA-GD-331K	DOOR c/w GLASS
GA-GD-225.050	BLACK DOOR FRAME
GA-GD-010.464	GLASS c/w GASKET
GA-GD-562.024	DOOR GASKET (120 INCHES)
GA-GD-475.168	REAR BRICK PANEL
GA-GD-475.166	RIGHT SIDE BRICK PANEL
GA-GD-475.167	LEFT SIDE BRICK PANEL
GA-GD-475.165	BRICK BAFFLE
WS-430-001	CERAMIC MAGNET
WS-573-07	HIGH TEMPERATURE SEALANT - 10 OZ
WS-160-032	LOUVRE HOOD CLIP
GA-GD-715.197	UPPER LOUVRE EACH



PART NO.	DESCRIPTION

BURNER KITS: GDB45N-KT / GDB45P-KT

WS-725-25	NATURAL GAS VALVE
WS-725-26	PROPANE GAS VALVE
WS-100-050	BURNER
WS-455-041	#30 BURNER ORIFICE - NG
WS-455-042	#49 BURNER ORIFICE - LP
WS-660-05	BURNER ON/OFF SWITCH
WS-357-01	PIEZO IGNITER
WS-455-23	NATURAL GAS PILOT ORIFICE - #51
WS-455-24	PROPANE GAS PILOT ORIFICE - #30
WS-100-38	NATURAL GAS PILOT ASSEMBLY
WS-100-39	PROPANE GAS PILOT ASSEMBLY
WS-680-05	THERMOCOUPLE
WS-680-04	THERMOPILE



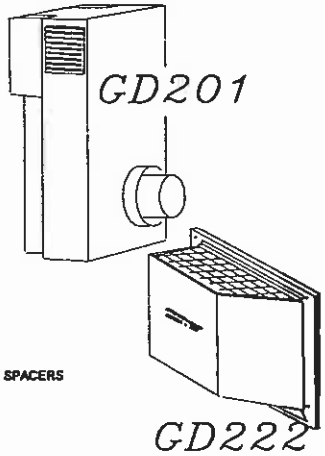
TERMINAL KITS

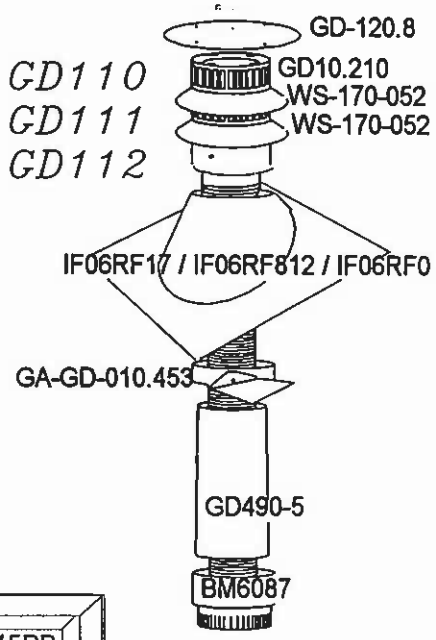
ROOF TERMINAL KITS:

1/12 TO 7/12 PITCH	-	GD110
8/12 TO 12/12 PITCH	-	GD111
FLAT ROOF	-	GD112

GA-GD10.210	AIR TERMINAL
GA-GD-120.8	VERTICAL CAP
GA-GD490-5	RIGID SLEEVE
IF06SC	STORM COLLAR
GA-GD-010.453	ROOF SUPPORT
IF06RF17 / IF06RF812 / IF06RFO	ROOF FLASHING
BM6087	7" TO 6" INCREASER

PERISCOPE	-	GD201
WALL TERMINAL KIT	-	GD222





VENT KITS

GD220 (5 FOOT)

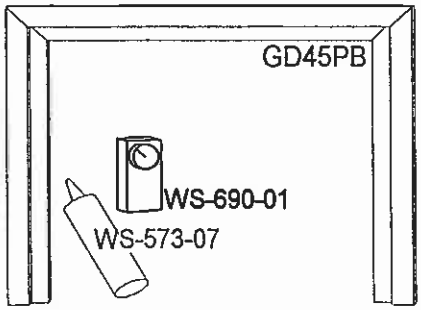
PART NO.	DESCRIPTION
GA-GD-010.397	4" FLEXIBLE ALUMINUM LINER - (5 FT) C/W SPACERS
WS-410-17	7" FLEXIBLE ALUMINUM LINER - (5 FT)

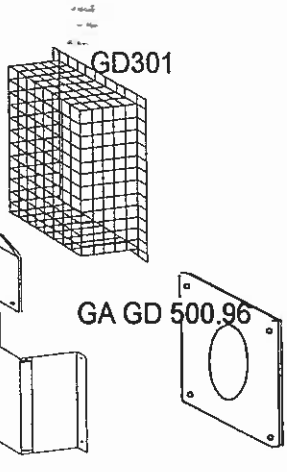
GD330 (10 FOOT)

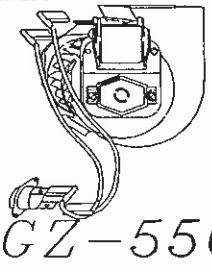
PART NO.	DESCRIPTION
GA-GD-010.370	WALL SUPPORT ASSEMBLY
GS-10.300	4" FLEXIBLE ALUMINUM LINER - (10 FT) C/W SPACERS
WS-410-018	7" FLEXIBLE ALUMINUM LINER -(10 FT)

ACCESSORIES

PART NO.	DESCRIPTION
GA-GD-500.96	FIRE STOP
GD101	WINDSHIELD KIT
GD301	HEAT GUARD
GD303	VINYL SIDING SHIELD
GA-GD-010.370	WALL SUPPORT ASSEMBLY
WS-175-13	7" COUPLER
WS-175-1	4" COUPLER
WS-573-07	HI-TEMP SEALANT 10 OZ
WS-660-2	HAND HELD WIRELESS REMOTE SWITCH
WS-660-010	REMOTE CONTROL - ADVANTAGE
WS-660-011	REMOTE CONTROL - ADVANTAGE PLUS
KB35	VARIABLE SPEED SWITCH
WS-500-33	V.S.S. MOUNTING PLATE for wall switch
WS-690-1	MILLIVOLT THERMOSTAT
GD45PB	3 DIMENSIONAL TRIM KIT (4") - POLISHED BRASS
BM6087	7" TO 6" INCREASER
GZ-550KT	BLOWER KIT

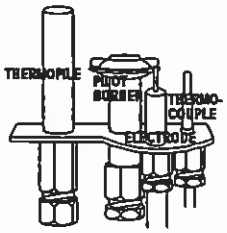






TROUBLE SHOOTING GUIDE

BEFORE ATTEMPTING TO TROUBLESHOOT, PURGE YOUR UNIT AND INITIALLY LIGHT THE PILOT AND THE MAIN BURNER WITH THE GLASS DOOR REMOVED.

SYMPTOM	PROBLEM	TEST SOLUTION
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.	- purge the gas line.
	Out of propane gas.	- fill the tank.
	Pilot flame is not large enough	- turn up the pilot flame.
	Pilot flame is not engulfing the thermocouple.	- gently twist the pilot head to improve the flame pattern around the thermocouple.
	Thermocouple shorting / faulty.	- loosen and tighten thermocouple. - clean thermocouple and valve connection. - replace thermocouple. - replace valve.
	Faulty valve.	- replace.
Pilot will not light. 	No spark at pilot burner	- check if pilot can be lit by a match - check that the wire is connected to the push button ignitor. - check if the push button ignitor needs tightening. - replace the wire if the wire insulation is broken or frayed. - replace electrode if ceramic insulator is cracked or broken. - replace the push button ignitor.
	Out of propane gas	- fill the tank.
	Spark gap is incorrect	- 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	- check that the manual valve is turned on. - check the pilot orifice for blockage. - replace the valve. - call the gas distributor.
Pilot burning; no gas to main burner; gas knob is on 'HI'; wall switch / thermostat is on.	Themostat or switch is defective.	- connect a jumper wire across the wall switch terminals; if main burner lights, replace switch / thermostat.
	Wall switch wiring is defective.	- 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.	- remove stoppage in orifice.
	Faulty valve.	- replace.
Pilot goes out while standing; Main burner is in 'OFF' position.	Gas piping is undersized.	- 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.
Main burner goes out; pilot stays on.	Pilot flame is not large enough or not engulfing the thermopile	- turn up pilot flame. - replace pilot assembly.
	Thermopile shorting	- clean thermopile connection to the valve. Reconnect. - replace thermopile / valve.
	Remote wall switch wire is too long; too much resistance in the system.	- shorten wire to correct length or wire gauge.
	Faulty thermostat or switch.	- replace.

SYMPTOM	PROBLEM	TEST SOLUTION
Main burner goes out; pilot goes out.	Refer to "MAIN BURNER GOES OUT; PILOT STAYS ON"	
	Vent is blocked	- check for vent blockage.
	Vent is re-circulating	- check joint seals and installation.
	4" flexible vent has become disconnected from fireplace.	- re-attach to fireplace.
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.
	Incorrect installation.	- refer to Figure 16 to ensure correct location of storm collars.
Flames are very active.	Aggressive venting action due to vent height.	- Restrict vent exit. See **"RESTICTING VERTICAL VENTS".** - VENT HEIGHT LESS THAN 10 FEET: close air shutter slightly to reduce primary air. - VENT HEIGHT 10 TO 20 FEET: close restrictor plate by 2/3 (to 30° open) from the normal factory setting. - VENT HEIGHT MORE THAN 20 FEET: close restrictor plate completely from normal factory setting.
Flames are consistently too large or too small. Carboning occurs.	Unit is over-fired or under-fired.	- 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" (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, BE SURE TO TURN SCREWS CLOCKWISE FIRMLY TO RESEAL. DO NOT OVERTORQUE. Leak test with a soap and water solution.
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 4" and 7" vent liners are free of holes and well sealed at all joints. - check that minimum rise per foor 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.	- clean the glass with a non-abrasive ammonia or vinegar based 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.	Fireplace is spilling.	- 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.
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	- reverse.
	Remote wall switch is grounding.	- replace.
	Remote wall switch wire is grounding.	- check for ground (short); repair ground or replace wire.
	Faulty valve.	- replace.