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 Z21.44-1991 RESPECTIVELY FOR GAS-FIRED VENTED WALL FURNACE, CGA IR41, IR55 AND WH GPN-001.

NAPOLEON

FIREPLACES

GAS - DIRECT VENT

MILLIVOLT SYSTEM

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

NATURAL GAS *MODEL* ***GD 3200-N***
PROPANE GAS *MODEL* ***GD 3200-P***

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

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

FOR YOUR SAFETY
DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPOURS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.
INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER, SERVICE AGENCY OR GAS SUPPLIER.

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.

Warnock Hersey ®

member gama

MANUFACTURED BY: WOLF STEEL LTD., RR#1 BARRIE, ONTARIO, CANADA L4M 4Y8 (705)721-1212, FAX (705)722-6031

WS-415-53 / 10.25.94

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NAPOLEON
FIREPLACES

NAPOLEON
25 YEAR LIMITED WARRANTY

Wolf Steel Ltd. warrants its NAPOLEON GAS FIREPLACES against manufacturing defects to the original purchaser only, subject to the following conditions:

1. Wolf Steel Ltd. will provide replacement parts free of charge during the first year of the LIMITED WARRANTY except *glass* and *plated finishes*.

All repair work, however, requires the prior approval of an authorized company official. Labour costs to the account of Wolf Steel Ltd. shall not exceed the retail price of the replacement parts.

2. Wolf Steel Ltd. will provide replacement parts during the *second through fifth year* of the LIMITED WARRANTY free of charge except *PHAZER™ logs, glass, PHAZER™ charcoal embers, plated finishes, gas valve, pilot assembly, ignitor, vent, electrical components* and *fan*. Wolf Steel Ltd. will not be responsible for any labour costs in connection with those replacement parts.

3. Wolf Steel Ltd. will provide replacement parts *(IF AVAILABLE)* at *50%* of the retail price during the *sixth through the twenty-fifth year* of the LIMITED WARRANTY except the *PHAZER™ logs, glass, plated finishes, PHAZER™ charcoal embers, gas valve, pilot assembly, ignitor, vent, electrical components, fan and burner assembly*. Wolf Steel Ltd. will not be responsible for any labour costs in connection with those replacement parts.

This LIMITED WARRANTY does not cover damages caused by misuse and is further conditional upon the correct installation and the intended use of our product.

The *vent system* is not included in the LIMITED WARRANTY but is separately covered by the vent manufacturer's limited warranty.

This LIMITED WARRANTY may not be extended whatsoever by any of our representatives.

KEEP THE ORIGINAL INVOICE SINCE A PHOTOCOPY OF IT WILL BE REQUIRED IN CASE OF CLAIM!

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE

2. 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.

PURGE ALL GAS LINES WITH THE GLASS DOOR OF THE FIREPLACE REMOVED. ASSURE THAT A CONTINUOUS GAS FLOW IS AT THE BURNER BEFORE INSTALLING THE DOOR.
UNDER EXTREME VENT CONFIGURATIONS, ALLOW SEVERAL MINUTES (5-15) FOR THE FLAME TO STABILIZE AFTER IGNITION.
ALL HORIZONTAL RUNS MUST HAVE A 1/4 INCH RISE PER FOOT. EIGHT (8") INCHES IS THE MINIMUM BEND RADIUS ALLOWED FOR THE 8" DIAMETER FLEXIBLE AIR LINER.

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.

Minimum Clearance to combustible construction from fireplace to vent surfaces:	Sides	0	inches
	Back	0	inches
	Bottom	0	inches
	Top	0	inches
	Vent Pipe	1	inch
	Recessed Depth	17	inches

The optional heat circulating blower is not supplied with a cord. If installed it must be electrically connected and grounded in accordance with local codes. In the absence of local codes, with the current CSA C22.1 CANADIAN ELECTRICAL CODE, in Canada or with the NATIONAL ELECTRICAL CODE, ANSI/NFPA 70-1990 in the United States.
Provide adequate ventilation air.
Provide adequate accessibility clearance for servicing and operating the fireplace.
Never obstruct the front opening of the fireplace.

WARNING

- The fireplace is a direct vented gas-fired room heater. 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.
- The fireplace glass door must be in place when the appliance is operating.
- 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 air passageway of 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.
- This fireplace must not be connected to a chimney flue serving a solid fuel burning appliance.
- Under no circumstances should the fireplace be modified.
- 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.
- The fireplace is only to be used with the glass door certified with the fireplace.
- Do not strike or slam shut the fireplace glass door.

3.0 GENERAL INFORMATION

FOR YOUR SATISFACTION, THIS FIREPLACE HAS BEEN TEST-FIRED TO ASSURE ITS OPERATION AND QUALITY!
Maximum input is 30,000 BTU/h for natural gas and 24,000 BTU/h for propane. Maximum output for natural gas is 23,700 BTU/h at an efficiency of 79% with the fan on, 78% with the fan off; and 19,200 BTU/h for propane at an efficiency of 80% with the fan on, 79% with the fan off.
Minimum inlet gas supply pressure in 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 10.0 inches water column for propane.
The fireplace is approved for mobile home (propane only) and bedroom installations.
If the door glass should crack or break, do not operate the fireplace . Replace only with a door assembly certified with the fireplace. See Section 5.0, #7 for removal and replacement details.
NO EXTERNAL ELECTRICITY (110 VOLTS OR 24 VOLTS) IS REQUIRED FOR THE GAS SYSTEM OPERATION. This unit is certified for bedroom and bed-sitting installations.
GLASS: The glass is a 3/16" sheet of ceramic glass available from your Napoleon / Wolf Steel Ltd. dealer. *DO NOT SUBSTITUTE MATERIALS!* Clean the glass after the first 10 hours of operation with a non-abrasive, ammonia or vinegar based glass cleaner. *DO NOT CLEAN GLASS WHEN HOT!* Thereafter clean as required.

3.1 BRASS & 24KARAT GOLD PLATED PARTS

Your fireplace may be highlighted by brass or gold plating. Do not use abrasive cleaners to clean these parts. Buff lightly with a clean dry cloth.

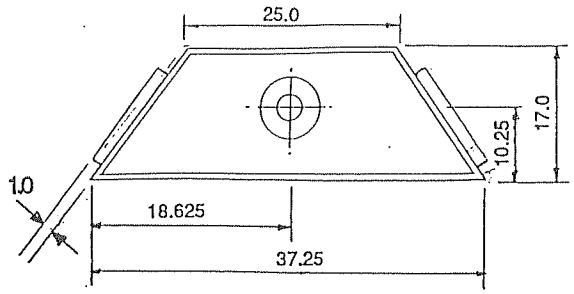
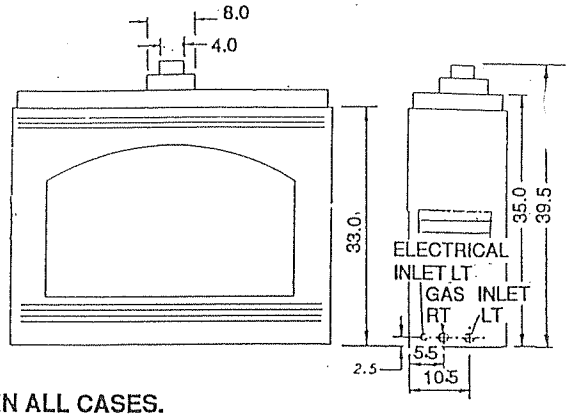


FIGURE 1



4.0 VENTING

- **ALL HORIZONTAL RUNS MUST HAVE A 1/4 INCH RISE PER FOOT IN ALL CASES.**
- **DO NOT ALLOW THE INSIDE LINER TO BUNCH UP ON HORIZONTAL OR VERTICAL RUNS AND ELBOWS. KEEP IT PULLED TIGHT. A 1-3/4" AIR GAP BETWEEN THE INNER AND OUTER LINER ALL AROUND IS REQUIRED FOR SAFE OPERATION.**
- **PROVIDE A MEANS FOR VISUALLY CHECKING THE VENT CONNECTION TO THE FIREPLACE AFTER THE FIREPLACE IS INSTALLED.**
- **USE A FIRESTOP WHEN PENETRATING INTERIOR WALLS, FLOOR OR CEILING.**

Only the following Napoleon Vent Kits, used in combination with each other can be used: GD 100 - AIR TERMINAL KIT
GD 200 - 2 TO 3-1/2 FOOT KIT
GD 300 - 5 TO 10 FOOT KIT

These vent kits allow for either horizontal or vertical venting of the fireplace (Figures 5, 6, & 7). The maximum number of vent connections is two horizontally or three vertically (excluding the fireplace and the air terminal connections).
Specific vent components are available for venting vertically through the roof. Kits for various installations of this variety are available from your Napoleon dealer. Order the specific kit required.
NOTE: THE LINER MUST OVERLAP THE AIR TERMINAL BY 2" TO ENSURE A SAFE CONNECTION BETWEEN THE TWO (FIG. 3).

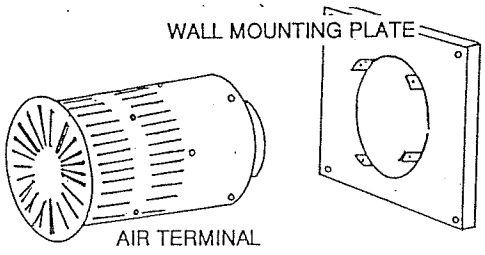


FIGURE 2

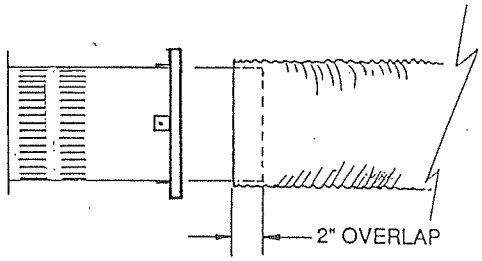


FIGURE 3

For optimum flame appearance and fireplace performance, keep the vent length and number of elbows to a minimum. On extreme vent configurations, allow several minutes (5-l5) for the flame to stabilize after lighting. 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.
The maximum horizontal run with a 90° elbow located immediately above the fireplace is 34 inches (Fig 4 & 5).
The maximum horizontal run with a 57 inch vertical rise immediately above the fireplace is 20 feet (Fig. 4 & 6).
NOTE: IF VERTICAL RISES GREATER THAN 57 INCHES ARE NECESSARY, THE INCREASED RISE MUST BE DEDUCTED FROM THE HORIZONTAL RUN.

Use the chart on this page to calculate horizontal runs for vertical rises between l2 and 57 inches. (Fig. 4)
When calculating maximum run lengths, factor 10 feet for a 90° elbow.

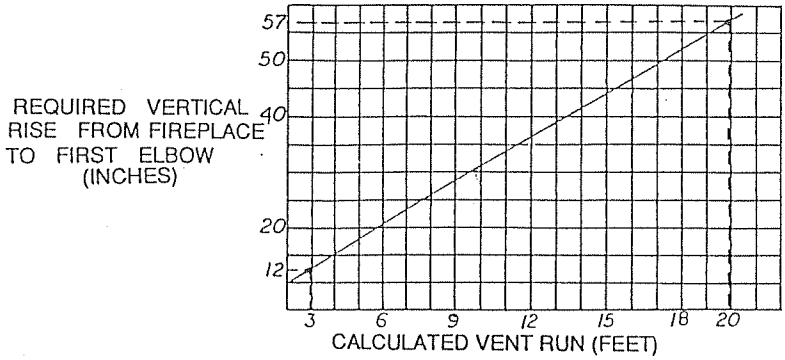
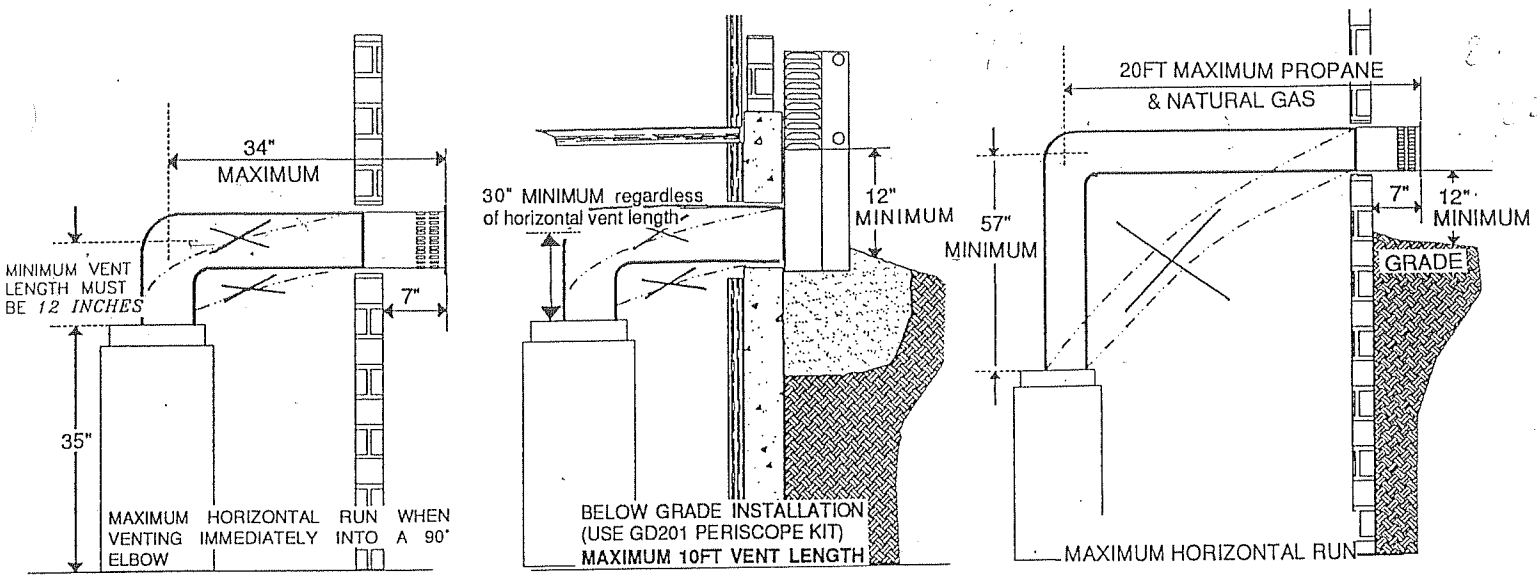


FIGURE 4

NOTE: THE FIRST ELBOW FROM THE UNIT IS NOT FACTORED INTO THE CALCULATIONS



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.

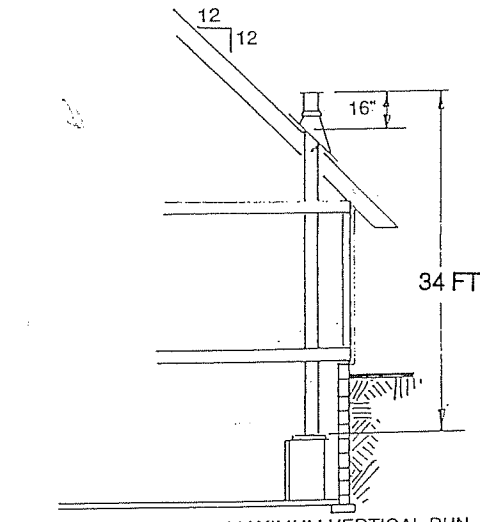


FIGURE 7

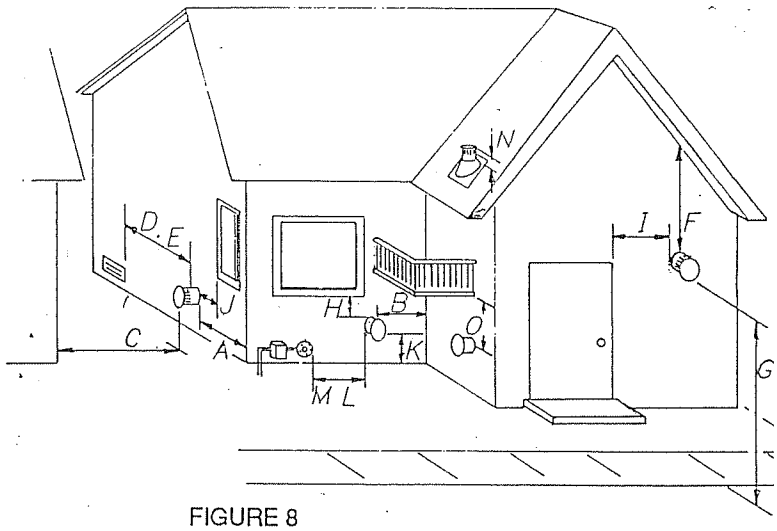


FIGURE 8

When terminating vertically, the minimum vertical rise is 34 inches above the fireplace. (Fig. 7) and the maximum vertical rise is 34 feet (to avoid difficulty in the initial start up). (Fig. 7) The air terminal must be located with the minimum clearances as illustrated in Fig. 8. (ADD 3-1/2" AND MEASURE FROM THE TERMINAL CENTRE.)

(A) One foot from outside corner walls.
(B) Two feet from inside corner walls or protruding obstructions (ie: chimney, etc).
(C) Two feet from adjacent walls, including neighbouring buildings.
(D) One foot from the sides and top of (or three feet from the bottom of) a non-mechanical combustion or ventilation air supply.
(E) Six feet from mechanical combustion or ventilation air supplies.
(F) Eighteen inches to a ventilated soffit or an unventilated soffit located above the terminal within a horizontal distance of two feet from the terminal.
(G) Seven feet above public walkways unless fitted with heat shield kit GD301.
(H) Three feet below windows that open.
(I) One foot from doors and windows that open.
(J) One foot from permanently closed windows.
(K) One foot above grade.
(L) Three feet above and horizontally from the centre-line of the regulator in a regulator/meter assembly.
(M) Six feet from a gas service regulator vent outlet.
(N) Sixteen inches above the roof.
(O) Eighteen inches to the underside of a veranda, porch, deck or balcony that has a minimum of two open sides.

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

4.1 HORIZONTAL AIR TERMINAL INSTALLATION

This application occurs when venting through an exterior wall (Fig. 5 & 6).
Having determined the air terminal location:

1. Cut or frame a hole in the exterior wall with a minimum round or square opening of 10 inches.
2. Attach the wall mounting plate to the exterior side of the outside finished wall using the screws provided. Bend the 4 mounting lugs out to a 90° angle. Make weather tight by sealing with caulking (not supplied, Figure 10).

THE WALL MOUNTING PLATE MUST NOT BE RECESSED INTO THE EXTERIOR WALL OR SIDING.

3. Insert the air terminal through the mounting plate and attach to the plate using the screws provided. Make weather tight by sealing with caulking (not supplied, Fig. 10). *Slope the air terminal down 1/4" to shed rain water.*
4. Slip a 4 inch diameter length of aluminum flexible liner a minimum of 2 inches over the inner sleeve of the air terminal. Secure to the sleeve using 3 screws and flat washers. Seal the joint and screw heads using the high temperature sealant provided (Fig. 10).

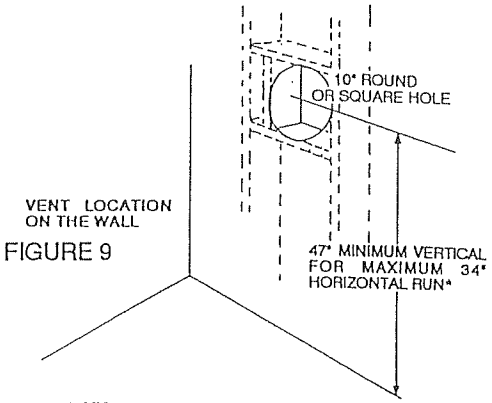


FIGURE 9

5. Slip an 8" diameter length of aluminum flexible liner a minimum of 2" over the outer sleeve of the air terminal. Secure to the sleeve using 3 screws and flat washers. Seal the joint and screw heads using high temperature sealant (Figure 10).

NOTE: SPACERS ARE ATTACHED TO THE 4" INNER FLEX LINER AT PRE-DETERMINED INTERVALS TO MAINTAIN A 1-3/4" AIR GAP TO THE 8" OUTER LINER. THESE SPACERS MUST NOT BE REMOVED.

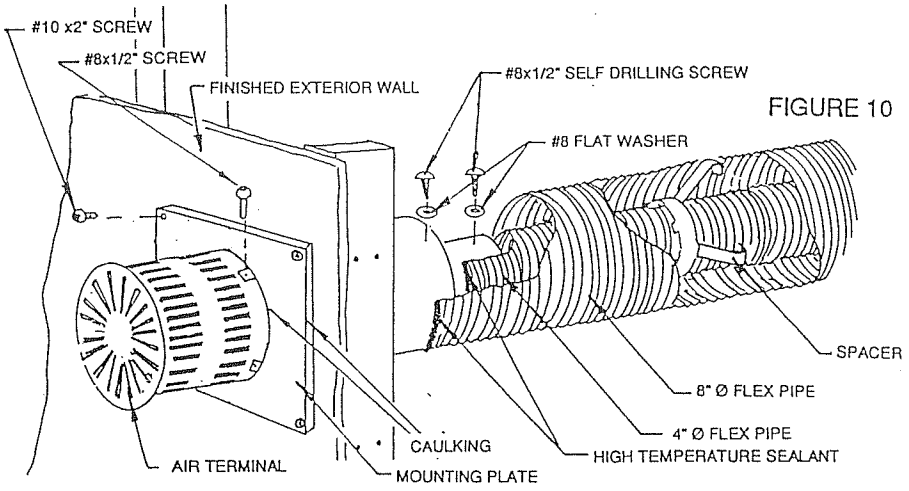


FIGURE 10

6. If more than one length of liner needs to be used to reach the fireplace, couple them together as illustrated in Figure 11. Seal the joints using the same procedure as described in Points 4 and 5 above. The vent system must be supported approximately every 3 feet, for both vertical and horizontal runs (Fig. 11). Use Napoleon support rings or equivalent non-combustible strapping to maintain the 1" clearance from combustibles.

4.2 VERTICAL AIR TERMINAL INSTALLATION

This application occurs when venting through a roof (Fig. 7).

1. Having determined the air terminal location, cut or frame a hole in the roof with a minimum round or square opening of 10 inches being sure to maintain the required 1 inch clearance to combustibles (Fig.12).
2. Attach the roof support to the roof using the screws provided.
3. Remove the end cap from the air terminal. Slip a 4 inch diameter length of aluminum flexible liner a minimum of 2 inches over the inner sleeve of the air terminal. Secure to the sleeve using 3 screws and flat washers. Seal the joint and screw heads using high temperature sealant (Fig. 10).

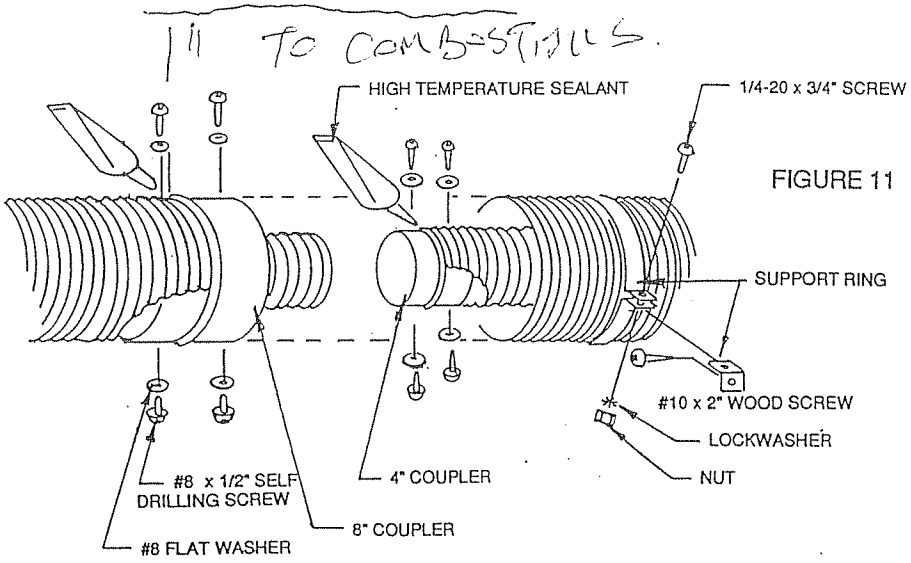


FIGURE 11

4. Attach the telescoping sleeve to the air terminal and secure using the 3 screws provided (Fig.13). Slip an 8" diameter length of aluminum flexible liner a minimum of 2 inches over the outer sleeve of the air terminal. Secure to the sleeve using 3 screws and flat washers. Seal the joint and screw heads using the high temperature sealant (Fig. 11).

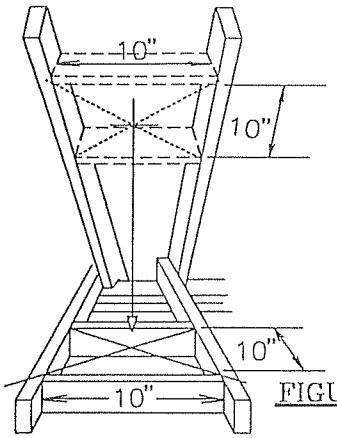


FIGURE 12

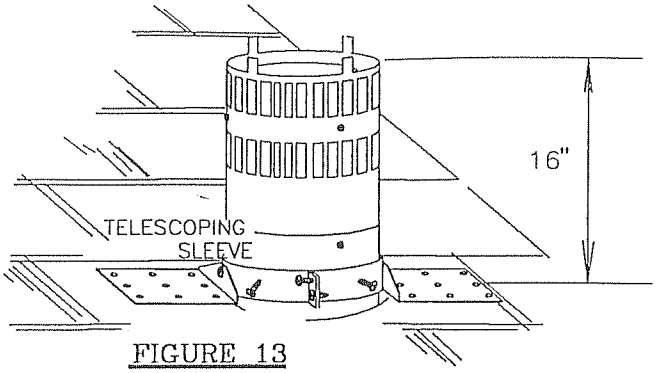


FIGURE 13

5. Thread the air terminal assembly liner down through the roof support, clamping the support to the air terminal. ***Do not clamp the flexible aluminum liner.*** Fasten the air terminal to the roof support using the screws provided. The air terminal must be located vertically and plumb, a minimum of 16" above the point where it penetrates the roof. **FIGURE 13.**

6. Slip the roof flashing over the air terminal and fasten to the roof. Make weather tight by sealing with caulking (not supplied). Where possible cover the sides and top edges of the flashing with roofing material. **FIGURE 14.**

7. Run a heavy bead of caulking 2 inches above the flashing. Slide a storm collar down the air terminal to the caulking. Run a second heavy bead of caulking around this storm collar, ensuring that a weather tight seal between the air terminal and collar is achieved. Slide a second storm collar down and center it between the air intake and the air exhaust slots. **FIGURE 14.** Secure with 3 screws and seal using a heavy bead of caulking. For vertical installations, a 12" air terminal cap is available and must be attached. **SEE ACCESSORIES, SECTION 13.4.**

8. If more liner needs to be used to reach the fireplace, follow the same procedure as found in **SECTION 4.1, ITEM 6.** The venting system must be supported approximately every 3 feet, for both vertical and horizontal runs. **FIGURE 11.**

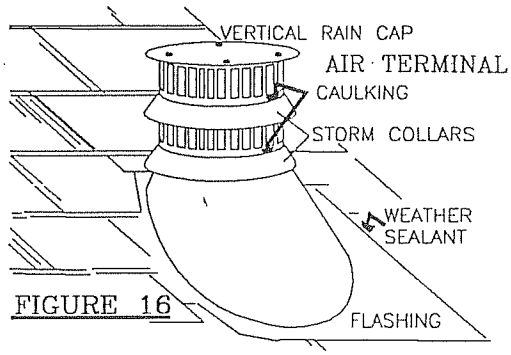


FIGURE 16

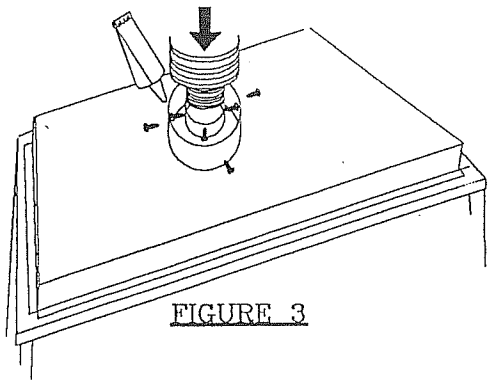


FIGURE 3

4.3 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 15.**

2. Install the 8 inch diameter aluminum flexible liner to the fireplace. Attach and seal the joints.

5.0 INSTALLATION

Proceed once the vent installation is complete.

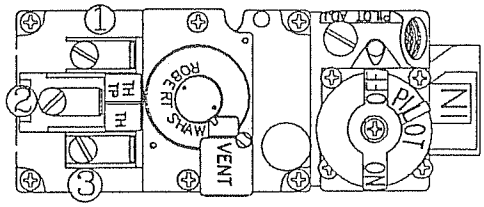
1. Move the fireplace into position.

2. Route the 3/8" NPT black iron gas line, ½" type L copper tubing or equivalent to the fireplace.

3. Install the remote wall switch in a convenient location and route a grounded 18 gauge, millivolt wire through the electrical hole, located at the bottom left side of the appliance. ***A maximum wire length to 20 feet can be used in this appliance.*** Attach the two leads to terminal 1 and 3 located on the gas valve. **FIGURE 16.**

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

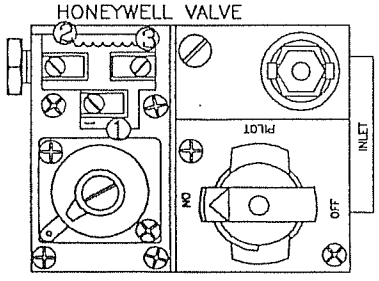
4. If an optional blower is to be used, route a grounded 14 gauge 2-wire power cable to the junction box and ground. At the point where the cable enters the junction box, an insulated bushing must be provided. Complete installation instructions are included with the blower assembly. **FIGURE 17.**



RBT SHAW VALVE

FIGURES 16

HONEYWELL VALVE



5. Install rigid black pipe, 1/2" type L copper tubing or if local codes permit, a 3/8 inch flex connector and shut-off valve to the gas line and the fireplace gas valve. Seal and tighten securely. An adapter fitting is required between the gas valve and copper tubing or flex connector if used.

DO NOT KINK FLEX CONNECTOR (FIG. 18).

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

WARNING: PURGE ALL GAS LINES WITH THE GLASS DOOR OF THE FIREPLACE REMOVED. ASSURE THAT A CONTINUOUS GAS FLOW IS AT THE BURNER BEFORE INSTALLING THE DOOR.

7. To access the firebox, remove the facia by pushing up slightly until the door pins pop out of the holes in the facia top. Swing free of the top louvre brackets and lift out of the door sill at the bottom. Remove the screws securing the sides and bottom of the door. Lift up and out. To re-install the door, repeat in reverse order. Retighten screws snugly. DO NOT OVER-TIGHTEN. Re-install the facia by inserting it into the door sill and slide over the door top until the door pins pop back into place.

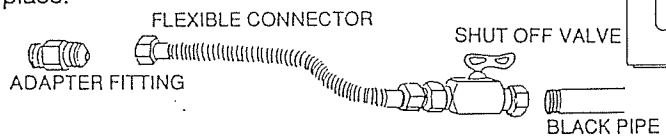


FIGURE 18

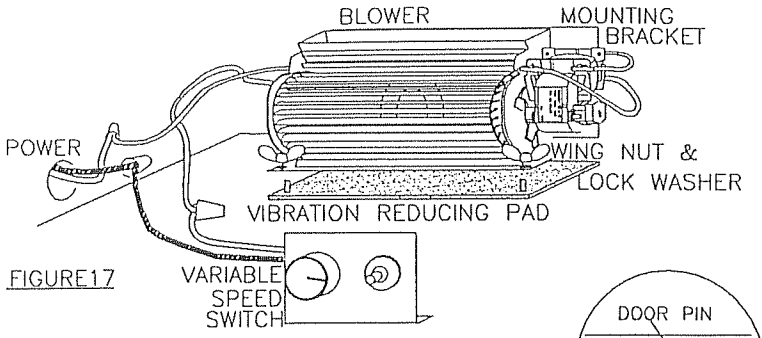


FIGURE17

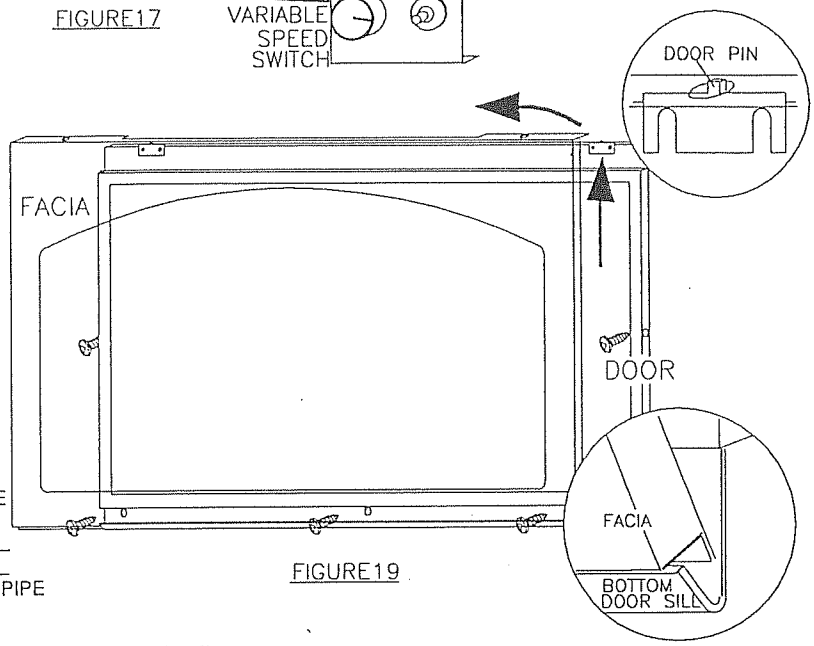


FIGURE19

5.1 MOBILE HOME INSTALLATION (CANADA / PROPANE ONLY)

The fireplace is equipped with two 1/4 inch 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 to secure the fireplace in all installation cases.

6.0 FRAMING

It is best to frame your fireplace after it is positioned and the vent system is installed. Use 2 x 4's and frame to local building codes (Fig. 20 through 24).

To install the fireplace facing flush with the finished wall, position the framework to accomodate the thickness of the finished wall. Pull out the two nailing tabs on each side and secure to the framing. (Fig. 24).

It is not necessay to install a hearth extension with this fireplace system.

A combustible mantle shelf projecting a maximum of 12 inches from the wall may be installed at a minimum distance of 7 inches above the top of the fireplace.

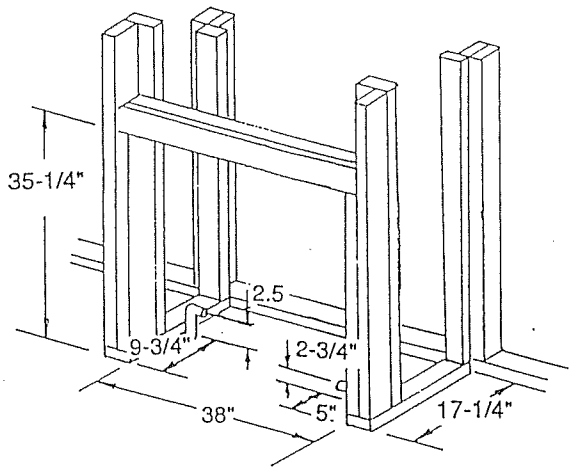


FIGURE 20

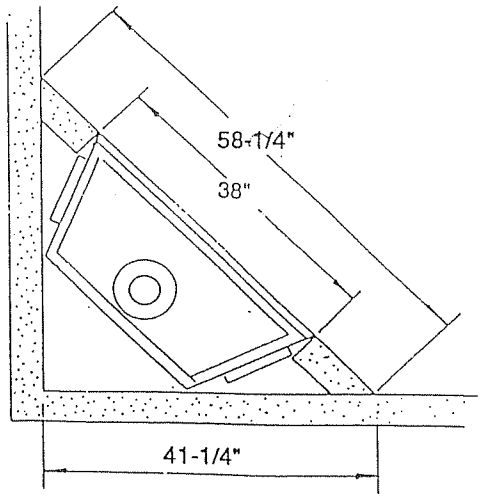


FIGURE 21

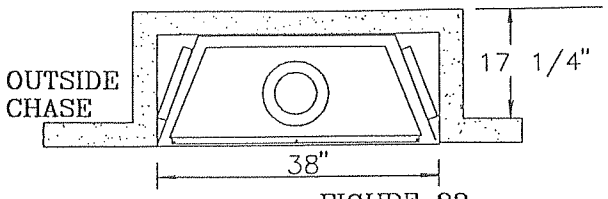


FIGURE 22

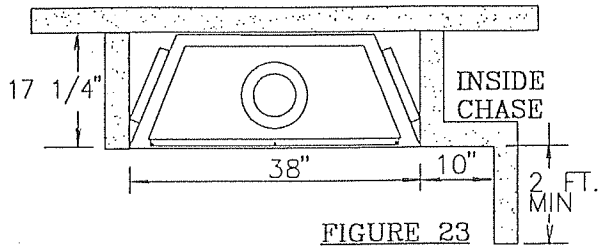


FIGURE 23

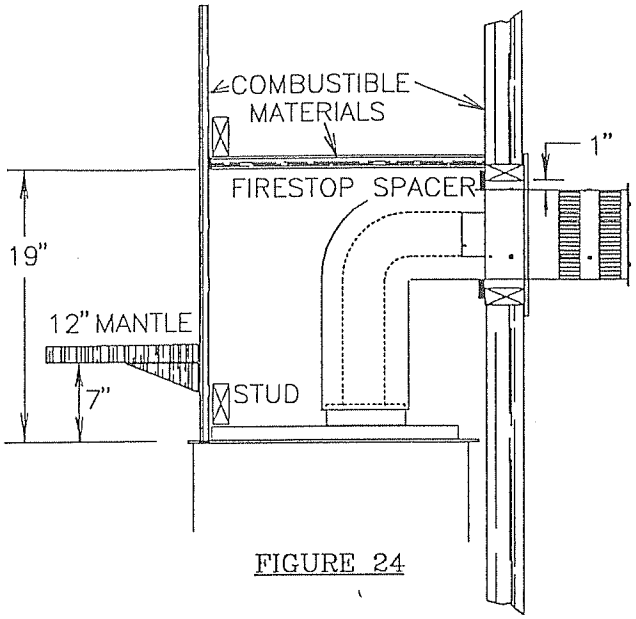


FIGURE 24

Objects placed in front of the fireplace should be kept a minimum of 24" away from the front face.

7. LOG PLACEMENT

PHAZER™ logs and charcoal 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 charcoal embers for a maximum glowing effect.

1. Place the front log onto the main burner, pushing it as close as possible to the burner ports without covering/ blocking them. The left and right spacing between the log ends and the burner ports should be equal.

YOU MAY FIND IT EASIER TO PLACE SOME CHARCOAL EMBERS BENEATH THE FRONT LOG NOW.

2. Place the back log onto the log support bracket located on the rear wall of the combustion chamber. The notch situated at the lower left of the back log should be centered evenly above the pilot assembly. **FIGURE 25.**

3. While supporting the back log, to prevent it from falling forward, set the three smaller logs into the pockets and grooves of the front and back logs, respectively.

POSITIONING THE LOGS IMPROPERLY WILL CAUSE FLAME IMPINGEMENT AND CARBONING.

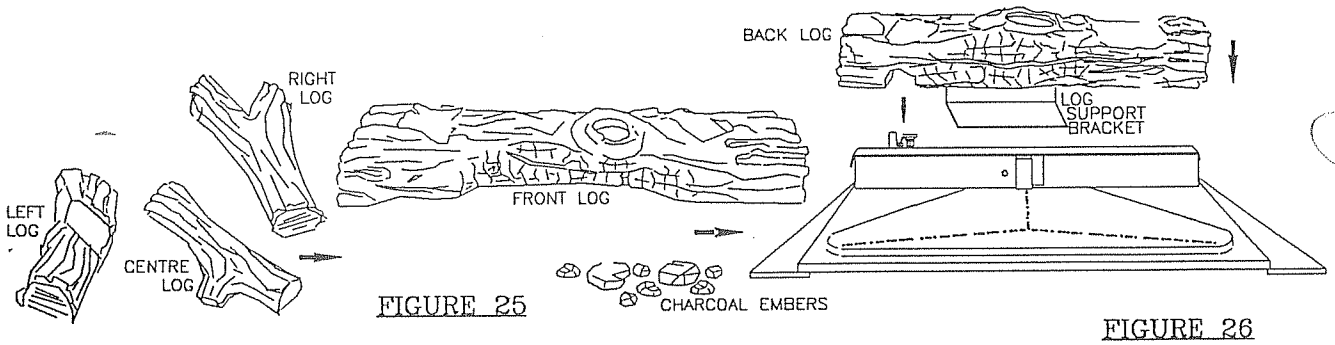


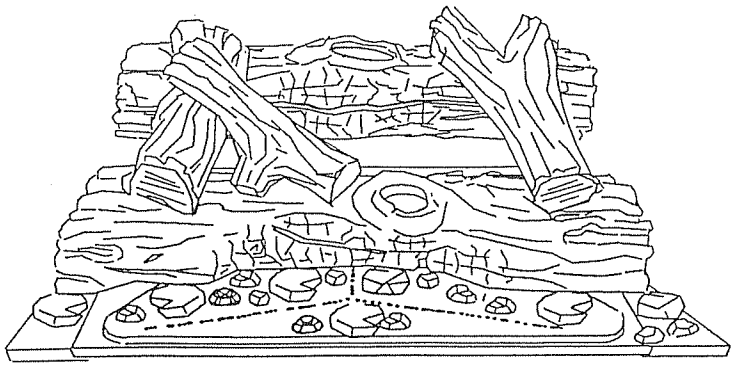
FIGURE 25

FIGURE 26

8. CHARCOAL EMBERS

Randomly place the embers beneath the front log, covering all of the burner area beneath the hollowed out section of the log. **FIGURE 26.** Place the remaining embers along the front. Keep ember dust away from burner ports to avoid plugging them.

Fine dust found in bottom of bag not to be used. ***PHAZER***™ logs and charcoal embers glow when exposed to direct flame. Use only certified ***PHAZER***™ logs and charcoal embers available from your Napoleon / Wolf Steel Ltd. dealer.



9.0 OPERATING INSTRUCTIONS

NOTE: When lit for the first time the fireplace will emit a slight odour for one or two hours. This is due to the curing of the logs and "burn in" of internal paints and lubricants used in the manufacturing process. This condition is temporary. Open doors and windows to ventilate the room(s) sufficiently.

FOR YOUR SAFETY READ BEFORE LIGHTING:

A. This appliance has a pilot which must be lit by hand while following these instructions exactly.

B. Before lighting, 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:

- 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.

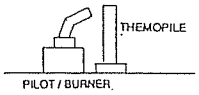
C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

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 touched by water.

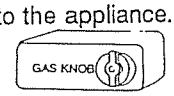
LIGHTING INSTRUCTIONS:

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

1. Turn off all electrical power to the appliance.
2. Turn gas knob clockwise ↷ to off.
3. Wait five (5) minutes to clear out any gas. If you smell gas, including near the floor, **STOP!** Follow "B" in the preceding safety information. If you don't smell gas, go to the next step.
4. If the appliance is equipped with a flame adjustment valve, turn clockwise ↷ to off.
5. Find the pilot located in front of the back log.
6. Turn the gas knob counter-clockwise ↶ to pilot.



7. Depress and hold the gas knob while lighting the pilot with the push button ignitor. Keep the knob fully depressed for one (1) minute, then release. If the pilot does not continue to burn, repeat steps 3 through 7.
8. With pilot lit, turn the gas knob counter-clockwise ↶ to on.
9. If equipped with a flame adjustment valve, push an turn knob to high.
10. If equipped with remote on-off switch, main burner may not come on when you turn the valve to ON or HIGH. Remote switch must be in the 'on' position to ignite burner.
11. Turn on all electrical power to the appliance.



TO TURN OFF GAS

1. Turn off all electrical 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.

9.1 PILOT BURNER ADJUSTMENT (Figure 16)

1. Remove the pilot adjustment cap.
2. Adjust the pilot screw to provide a properly sized flame.
3. Replace the pilot adjustment cap.

9.2 FLAME SWITCH

Your fireplace has been equipped with a flame switch which senses the flame and shuts off the gas flow to the pilot and the main burner in the event that the pilot flame is unstable or becomes extinguished.

This switch is wired in series with the thermopile. Bypassing this switch may lead to an explosion which could result in personal injury. DO NOT alter the wiring of the control. Replace the flame switch only with components approved by the manufacturer.

LOCATE THE CLEARANCES FOR THE FLAME SWITCH BULB AS SHOWN:

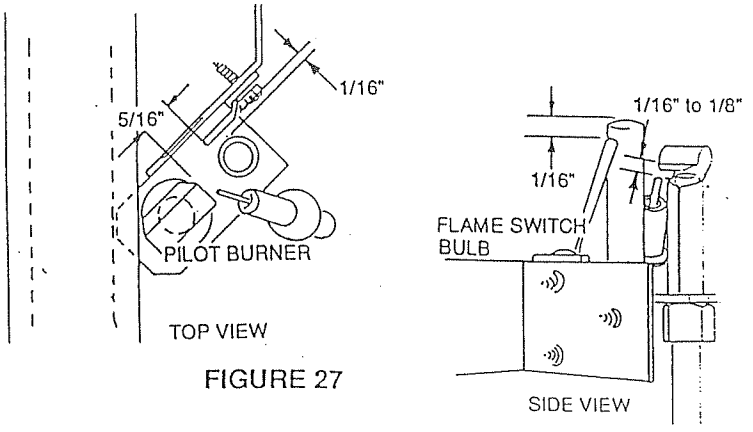


FIGURE 27

10.0 VENTURI ADJUSTMENT

Natural gas models have air shutters set at 3/16 (0.188) inch open. Propane gas models have air shutters set at 1/4 (0.250) 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 (Figure 28).

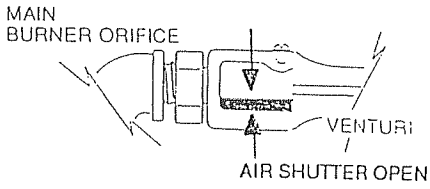


FIGURE 28

NOTE: AIR SHUTTER ADJUSTMENT MUST ONLY BE DONE BY A QUALIFIED GAS INSTALLER.

11.0 SPECIAL INSTALLATION CASE

A through the roof installation requires a total 5 foot rise (Fig. 29). The location of the fireplace dictates a horizontal run of 5 feet. What is the required vertical rise to the centre of the initial 90° elbow?

The total run is:

5 Feet (Through roof vertical rise)
+10 Feet (90° elbow)
+ 5 Feet (Horizontal run)
20 Feet (Total run)

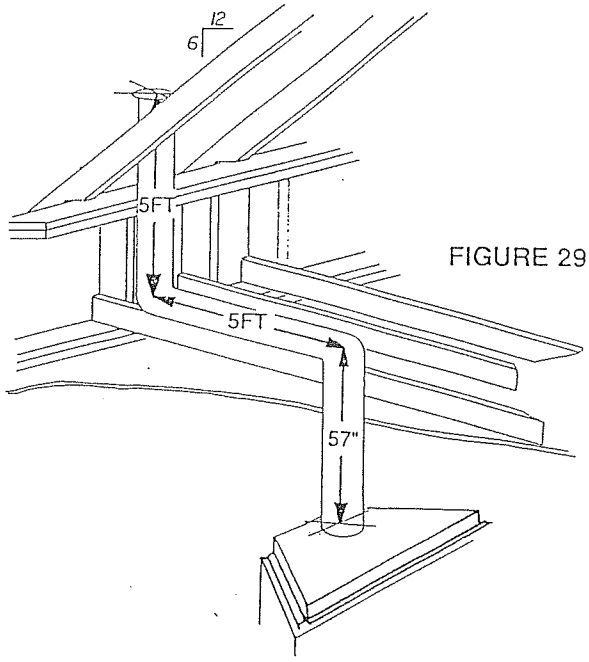


FIGURE 29

NOTE: THE FIRST ELBOW ABOVE THE UNIT IS NOT FACTORED INTO THE CALCULATIONS.

From Fig. 4 we determine that a 57 inch minimum vertical rise immediately off the unit is required for satisfactory venting conditions.

It is recommended to achieve this venting arrangement, use the following Napoleon vent kits and components:

- 1 - GD100 (Air terminal kit)
- 2 - GD300 (5 - 10 foot kit)
- 1 - 4 inch connector
- 1 - 8 inch connector
- 1 - roof support
- 1 - 1/12 - 7/12 roof flashing c/w storm collar and caulking
- 1 - 8" telescoping sleeve
- 1 - storm collar
- 1 - vertical rain cap

ALTHOUGH THE IMMEDIATE VERTICAL RUN MAY BE GREATER THAN 57 INCHES, THE MAXIMUM COMBINATION OF HORIZONTAL AND VERTICAL RUNS BEYOND THE 57 INCHES, **MUST NOT EXCEED 20 FEET.**

12.0 MAINTENANCE INSTRUCTIONS

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

This fireplace and venting system should be inspected before use and at least annually by a qualified service person.

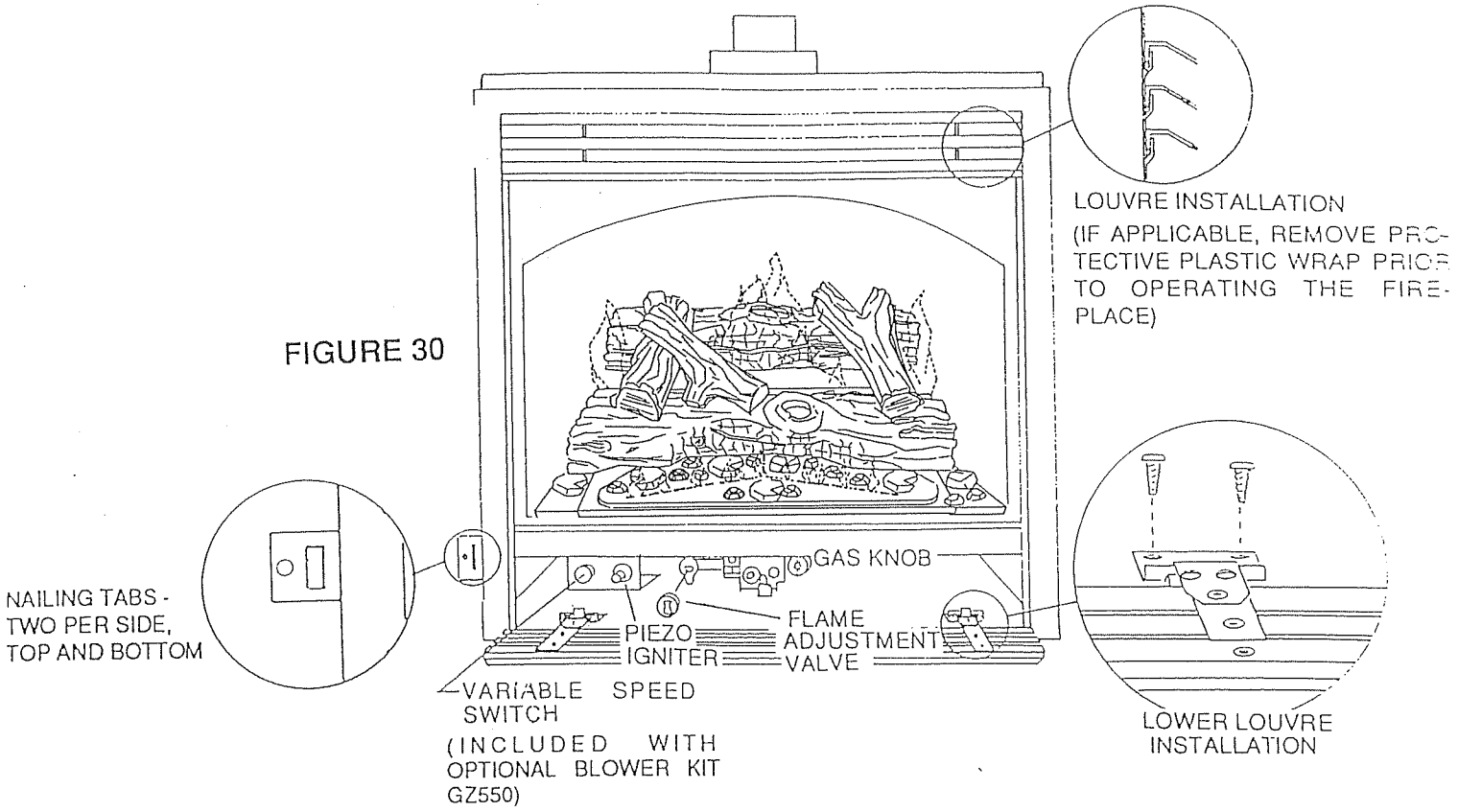
The fireplace area must be kept clear and free from combustible materials, gasoline and other flammable vapours and liquids.

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 exposing the burner and pilot assembly.
2. Keep the control compartment, logs, burners and the area surrounding the logs clean by vacuuming or brushing at least once a year.
3. Check to see that all the burner ports are burning. Clean out any of the ports which may not be burning or are not burning properly (Figure 30).
4. Check to see that the pilot flame is large enough to engulf th flame sensor on one leg and reaches the burner on th other leg.
5. Replace the cleaned logs.
6. Check to see that the main burner ignites on all ports when th switch for the burner is turned on. A 5-10 second tot light-up period is satisfactory. If ignition takes longe consult your Napoleon dealer/distributor.

CHECK THAT THE DOOR GASKETING IS NOT BROKEN OR MISSING. IF GASKETING IS NOT SATISFACTORY CONSULT YOUR NAPOLEON DEALER/DISTRIBUTOR.

FIGURE 30


LOUVRE INSTALLATION
(IF APPLICABLE, REMOVE PROTECTIVE PLASTIC WRAP PRIOR TO OPERATING THE FIREPLACE)
NAILING TABS - TWO PER SIDE, TOP AND BOTTOM
GAS KNOB
PIEZO IGNITER
FLAME ADJUSTMENT VALVE
VARIABLE SPEED SWITCH
(INCLUDED WITH OPTIONAL BLOWER KIT GZ550)
LOWER LOUVRE INSTALLATION

13.0 TROUBLE SHOOTING GUIDE

NOTE: Before attempting to trouble shoot, purge your unit and initially light the pilot and the main burner with the glass door of the fireplace removed.

SYMPTOM	PROBLEM	TEST SOLUTION
Pilot will not light.	A - No spark at the pilot burner	- check that the wire is connected to the push button ignitor. - check if the push button ignitor needs tightening. - replace the pilot assembly if the wire insulation is frayed or broken. - replace the pilot assembly if the ceramic insulator is cracked or broken. - replace the push button ignitor.
	B - spark gap is incorrect	- spark gap should be 1/16" to 1/8" from the electrode tip and the pilot burner. Light the pilot with a match and adjust the electrode tip to the required spark gap and proper location (See figure 27).
	C - No gas at the pilot burner	- check that the manual valve(s) is (are) turned on. - check the pilot orifice for blockage. - replace the valve. - call the gas distributor.
	D - Out of propane gas	- fill the tank
Pilot goes out when the gas knob is released.	A - System is not correctly purged	- purge the gas line.
	B - Out of propane gas	- fill the tank
	C - Pilot flame is not large enough	- turn up the pilot flame.
	D - Pilot flame is not engulfing the generator (thermopile)	- gently twist the pilot head to improve the flame pattern around the generator (thermopile).
	E - Thermopile shorting	- clean the thermopile and valve terminals. - check that the thermopile insulation is not frayed and grounding out on the fireplace housing or burner support. - replace thermopile. - replace valve.
	F - Faulty thermopile	- replace thermopile
	G - Faulty flame switch	- disconnect the lead between the flame switch and terminal 1 on the gas valve. Connect the second lead from the flame switch to terminal 1. Try lighting and releasing the gas knob. If the pilot stays lit, replace the flame switch.
	DO NOT LEAVE THE FIREPLACE OPERATING WITH THE FLAME SWITCH DISCONNECTED. THIS COULD CAUSE AN EXPLOSION AND/OR PERSONAL INJURY.	

CONT . . .

SYMPTOM	PROBLEM	TEST SOLUTION
Pilot goes out when the gas knob is released.	H - Faulty valve	- replace valve.
Pilot burning; no gas to main burner; gas knob is 'on'; wall switch is 'on'; heat/flame adjustment valve is 'on' (if equipped).	A - Wall switch is defective	- connect a jumper wire across the wall switch terminals; if the main burner lights, replace the wall switch.
	B - Wall switch wiring is defective	- connect a jumper wire across terminals 1 and 3; if main burner lights, check the wires for defects and/or replace wires.
	C - Main burner orifice is plugged	- remove stoppage in orifice.
	D - Remote gas valve operator is defective	- connect a jumper wire across terminals 1 and 3; if main burner does not light, replace gas valve.
Main burner goes out; pilot stays on.	A - Pilot flame is not large enough or not engulfing the thermopile	- turn on the pilot flame. Gently twist the pilot head to improve the flame pattern around the thermopile.
	B - Thermopile shorting	- clean thermopile and valve terminals. - check that the thermopile insulation is not frayed and grounding out on the fireplace housing or burner support
	C - Remote wall switch wire is too long, too much resistance in the system	- shorten the wall switch wire length to 20 feet; use 18 gauge solid core wire.
Remote wall switch is in off position; main burner comes on when the gas knob is turned to the 'on' position	A - wall switch is mounted upside down	- reverse the wall switch.
	B - remote wall switch is grounding	- replace remote wall switch.
	C - remote wall switch wire is grounding	- check for ground (short); repair ground or replace wire.
	D - faulty valve	- replace valve.
Carbon is being deposited on glass, logs or combustion chamber surfaces	A - 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 valves. - check that the sides and top and bottom door gasketing are not broken or missing. - check that the seal between the door glass and the gasket is tight. - check that both the 4" and 8" vent liners are free of holes and well sealed at all joints.
White/grey film forms.	Sulphur from fuel is being deposited on glass, logs or combustion chamber surfaces.	- clean 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.

14. 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

14.1 REPLACEMENT PARTS - DIRECT VENT

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
GA GI 135.07	BACK LOG	GA GD 225.36	BLACK DOOR FRAME
GA GI 135.06	FRONT LOG	WS 300-20	GLASS ONLY
GA GI 135.10	RIGHT LOG	GA GD 321K	BLACK DOOR c/w GLASS
GA GI 135.09	CENTER LOG	GA GD 562.09	DOOR GASKET (100 INCHES)
GA GI 135.08	LEFT LOG	GD 225K	BLACK FACIA
GL-608	LOG SET ASSEMBLY COMPLETE	WS 573-07	HIGH TEMPERATURE SEALANT - 10 OZ
GA GI 550.01	CHARCOAL EMBERS	WS 455-4	#36 NATURAL GAS ORIFICE
GA GD 10.351	BURNER ASSEMBLY - PROPANE	WS 455-3	#54 PROPANE GAS ORIFICE
GA GD 10.352	BURNER ASSEMBLY - NATURAL GAS	WS 357-01	PIEZO IGNITER
WS 455-5	NATURAL GAS PILOT ORIFICE	WS 680-01	THERMOPILE
WS 455-6	PROPANE GAS PILOT ORIFICE	GZ 627	NATURAL GAS PILOT ASSEMBLY
WS 725-13	NATURAL GAS VALVE - RBT SHAW	GZ 627A	PROPANE GAS PILOT ASSEMBLY
G-522C	PROPANE GAS VALVE - RBT SHAW	WS 660-4	FLAME SWITCH
WS 725-17	NATURAL GAS VALVE - HONEYWELL	WS 385-33	NAPOLEON LOGO
WS 725-18	PROPANE GAS VALVE - HONEYWELL		

14.2 TERMINAL KITS

WALL TERMINAL KIT - GD100

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
GA GD 490.04	AIR TERMINAL	GA GD 500.40	WALL MOUNTING PLATE

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

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
GA GD 10.210	AIR TERMINAL	IF06SC	STORM COLLAR
GA GD 120.8	VERTICAL CAP	IF06RS	ROOF SUPPORT
GA GD 490.5	TELESCOPIC SLEEVE	IF06RF17 / IF06RF812 / IF06RFO	ROOF FLASHING

PERISCOPE - GD201

14.3 VENT KITS

GD200 (2 - 5 FOOT) & GD300 (5 - 10 FOOT)

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
GA GD 615.25	SPACER	WS 410-01	4" FLEXIBLE ALUMINUM LINER (5-10 FEET)
GA GD 10.67	WALL SUPPORT ASSEMBLY	WS 410-03	8" FLEXIBLE ALUMINUM LINER (2-5 FEET)
WS 410-04	4" FLEXIBLE ALUMINUM LINER (2-5 FEET)	WS 410-05	8" FLEXIBLE ALUMINUM LINER (5-10 FEET)

14.4 ACCESSORIES

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
GA GD 500.28	FIRE STOP	GA GD 715.16	POLISHED BRASS 2" SIDE TRIM
GD 101	WINDSHIELD KIT	GA GD 715.17	POLISHED BRASS 2" TOP TRIM
GD 301	HEAT GUARD	GA GD 715.18	ANTIQUE BRASS 2" SIDE TRIM
GD 303	VINYL SIDING SHIELD	GA GD 715.19	ANTIQUE BRASS 2" TOP TRIM
GD 225PB	DOOR FACIA - POLISHED BRASS	GA GD 715.29	CHROME 2" SIDE TRIM
GD 225AB	DOOR FACIA - ANTIQUE BRASS	GA GD 715.28	CHROME 2" TOP TRIM
GD 225C	DOOR FACIA - CHROME	GA GD 715.85	POLISHED BRASS 3" SIDE TRIM
GA-GDLK	BLACK LOUVRE KIT	GA GD 715.82	POLISHED BRASS 3" TOP TRIM
GA-GDLPB	POLISHED BRASS LOUVRE KIT	GA GD 715.84	ANTIQUE BRASS 3" SIDE TRIM
GA-GDLAB	ANTIQUE BRASS LOUVRE KIT	GA GD 715.81	ANTIQUE BRASS 3" TOP TRIM
GA-GDLC	CHROME LOUVRE KIT	GA GD 715.86	CHROME 3" SIDE TRIM
GA GD 715.80	BLACK LOUVRE	GA GD 715.83	CHROME 3" TOP TRIM
GA GD 715.11	POLISHED BRASS LOUVRE	GA GD 715.20	POLISHED BRASS 6" SIDE TRIM
GA GD 715.12	ANTIQUE BRASS LOUVRE	GA GD 715.21	POLISHED BRASS 6" TOP TRIM
GA GD 715.13	CHROME LOUVRE	GA GD 715.22	ANTIQUE BRASS 6" SIDE TRIM
WS 660-2	HAND HELD WIRELESS REMOTE SWITCH	GA GD 715.23	ANTIQUE BRASS 6 TOP TRIM
GZ-550KT	BLOWER KIT	GA GD 715.26	CHROME 6" SIDE TRIM
KB35	VARIABLE SPEED SWITCH	GA GD 715.27	CHROME 6" TOP TRIM
WS 500-33	V.S.S. MOUNTING PLATE for wall switch	WS 175-1	4" COUPLER
WS 690-1	MILLIVOLT THERMOSTAT	WS 175-2	8" COUPLER