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

CERTIFIED UNDER AMERICAN NATIONAL STANDARDS, ANSI Z21.11.2b, VOLUME II FOR UNVENTED ROOM HEATERS.

NAPOLEON FIREPLACES

UNVENTED MILLIVOLT SYSTEM

INSTALLATION AND OPERATION INSTRUCTIONS FOR UNVENTED GAS FIREPLACE - GVF30

NATURAL GAS *MODEL* ***GVF30-N***

PROPANE GAS *MODEL* ***GVF30-P***

CERTIFIED FOR THE UNITED STATES USING ANSI / AGA METHODS

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

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:

- Do not try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This is an unvented gas-fired heater that uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided.

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

Fax: **(705)722-6031** *Email:* **ask@napoleon.on.ca**
Web: **www.napoleon.on.ca**

HEARTH PRODUCTS ASSOCIATION

Warnock Hersey member gama

WS-415-131 / A / 09.11.00

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PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE

WARNING

- **Under no circumstances should this heater be modified.**
- **Provide adequate ventilation and combustion air. Provide adequate accessibility clearance for servicing and operating the heater. Never obstruct the front opening of the heater.**
- **If heater shuts off, do not re-light until you provide fresh air. If heater keeps shutting off, have it serviced. Keep burner and control compartment clean.**
- **Do not burn wood or other materials in this heater.**
- **Adults and especially children should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition. Supervise young children when they are in the same room as the heater.**
- **Due to high temperatures, the heater 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 heater.**
- **Any safety screen or guard removed for servicing must be replaced prior to operating the heater.**
- **It is imperative that the control compartments, burners and circulating air passageways in the heater are kept clean. The heater should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. The heater area must be kept clear and free from combustible materials, gasoline and other flammable vapours and liquids.**
- **Furniture or other objects must be kept a minimum of 4 feet away from the front of the fireplace.**
- **Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.**

ANY CHANGE TO THIS HEATER OR ITS CONTROLS CAN BE DANGEROUS AND IS PROHIBITED.

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 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 catalytic tiles, 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 the **GVF30** to the current National Fuel Gas Code, ANSI Z223.1 Installation Code which can be obtained from:

American Nation Standards Institute Inc.
1430 Broadway
New York, NY 10018

or

National Fire Protection Association Inc.
Batterymarch Park
Quincy, MA 02269

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).

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.

If the optional fan or blower is installed, the junction box must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current ANSI/NFPA 70-1996 NATIONAL ELECTRICAL CODE in the United States.

GENERAL INFORMATION

FOR YOUR SATISFACTION, THIS FIREPLACE HAS BEEN TEST-FIRED TO ASSURE ITS OPERATION AND QUALITY! Maximum input is 30,000 BTU/hr for natural gas and propane. When the fireplace is installed at elevations above 2,000ft, and in the absence of specific recommendations from the local authority having jurisdiction, the certified high altitude input rating shall be reduced at the rate of 4% for each additional 1,000ft.

Suitable for mobile home installation where the mobile home has been permanently placed on its site. This heater must not be installed in a bedroom or bathroom.

This fireplace may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes.

This fireplace is only for use with the type of gas indicated on the rating plate. This fireplace is not convertible for use with other gases, unless a certified kit is used.

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.

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

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

CARE OF OPTIONAL GLASS DOOR, CATALYTIC TILES AND PLATED PARTS

Do not use abrasive cleaners to clean plated parts. Buff lightly with a clean dry cloth. This fireplace may have an optional glass door which is equipped with 3/16" thick ceramic glass. Use only replacement glass available from your Napoleon dealer. DO NOT SUBSTITUTE MATERIALS. Clean the glass after the first 10 hours of operation with a recommended gas fireplace 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.

Catalytic tiles normally do not require cleaning. Physical contact should be avoided. *See Maintenance.*

This heater is equipped with a pilot light safety system referred to as an *OXYGEN DEPLETION SENSOR* and is designed to turn off the heater if not enough fresh air is available.

Use only accessories designed for and listed with your specific fireplace.

CARBON MONOXIDE POISONING MAY LEAD TO DEATH

Early signs of carbon monoxide poisoning resemble the flu, with headache, dizziness and/or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once! Have heater serviced.**

Some people---pregnant women, persons with heart or lung disease, anaemia, those under the influence of alcohol, those at high altitudes--- are more affected by carbon monoxide than others.

INSTALLATION

COMBUSTION AND VENTILATION AIR PROVISIONS

This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.

This fireplace must be installed against a finished wall. Do not install against a vapour barrier or exposed insulation.

The *National Fuel Gas Code, ANSI Z223.1* defines a confined space as a space whose volume is **less than 50 cubic feet** per 1,000 Btu per hour (4.8 m^3 per kW) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is **not less than 50 cubic feet** per 1,000 Btu per hour (4.8 m^3 per kW) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors are considered a part of the unconfined space.

The GVF30 is rated at 30,000BTUs per hour and therefore requires a minimum unconfined space of 1,500 cubic feet.

DETERMINING CONFINED OR UNCONFINED SPACE: To determine the volume of the room where the heater is to be installed, multiply the width x the length x the ceiling height of that room measured in feet. If any adjoining rooms are connected by grills or openings such as kitchen pass-throughs, etc., the volume of those rooms may be added to the total.

Multiply the room volume by 1000 and divide this amount by 50 to determine the maximum Btu/hr that the space can support with adequate combustion and ventilation air.

Add the Btu/hr of all fuel burning appliances located within the space such as gas furnace, gas water heater, etc. Do not include direct vent gas appliances which draw their input and output air from and to the outdoors.

WARNING: If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code ANSI Z223.1, Section 5.3 or the applicable local code.

Room Volume = Length x Width x Height
Max BTU/hr = Room Volume x 1000 ÷ 50

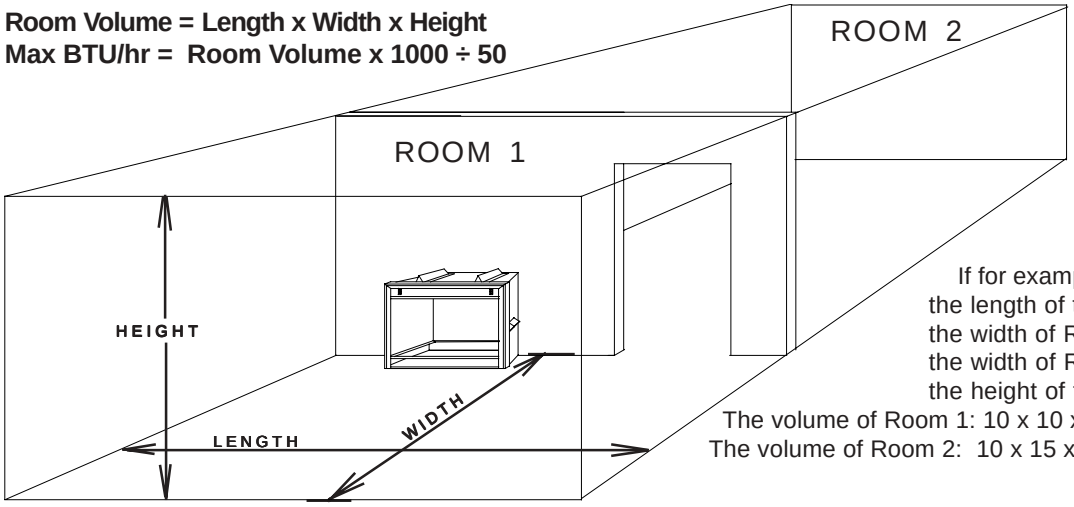


FIGURE 1

If for example,
the length of the rooms is 10 feet,
the width of Room 1 is 10 feet,
the width of Room 2 is 15 feet
the height of the rooms is 8 feet.
The volume of Room 1: 10 x 10 x 8 = 800 cubic feet.
The volume of Room 2: 10 x 15 x 8 = 1200 cubic feet.

EXAMPLE 1

In this example, because there is no door to the adjoining room, the volume of the adjoining room may be added to the volume of the room with the heater to get a total unconfined space.

The total unconfined space: 800 + 1200 = 2000 cubic feet.

Maximum BTU/h: $\frac{2000 \times 1000}{50}$ = 40,000 BTU/h

If there are no more fuel burning appliances within this space then the 30,000 BTU/h input of the fireplace is suitable to be installed. This also assumes that the construction of this space is not unusually tight.

EXAMPLE 2

If in this example a solid door separates Room 1 from Room 2, the volume of Room 2 could not be used. In this case the maximum BTU/h would be:

Maximum BTU/h: $\frac{800 \times 1000}{50}$ = 16,000 BTU/h

This would be considered a confined space since it can not support the 30,000BTU/h input of the heater and it would be necessary to provide adequate combustion and ventilation air to Room 1.

Unusually tight construction is defined as construction where:

a) Walls and ceilings exposed to the outside atmosphere have a continuous water vapour retarder with a rating of 1 perm (6 x 10^{-11} kg per pa-sec-m^2) or less with openings gasketed or sealed, and

b) Weather stripping has been added on openable windows and doors, and

c) Caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

An unvented room heater is recommended for use as a secondary heat source rather than as a primary source. Gas combustion produces water vapour which could occur at the rate of approximately one ounce of water for every 1,000 BTU/hr of gas input. During the cold weather season, indoor humidity levels tend to be low. Consequently, this water vapour can enhance the living space. However if a problem should occur:

a) ensure sufficient combustion and circulation air

b) use a dehumidifier

c) do not use the unvented room heater as a primary heat source

Without sufficient fresh air for proper operation, poor fuel combustion can result. Carbon Monoxide is a result of poor combustion.

If additional fresh air **is required,** use one of the methods described in the National Fuel Gas Code, ANSI Z223.1, Section 5.3 or the applicable local code.

GAS INSTALLATION

1. Move the fireplace into position and secure using the nailing tabs and/or secure to the floor through the ¼"ø holes located at either end of the base.

2. 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.

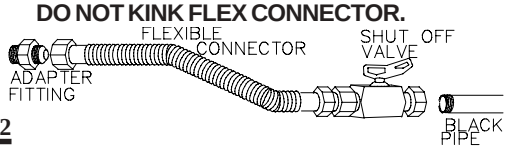


FIGURE 2

3. Check for gas leaks by brushing on a soap and water solution.

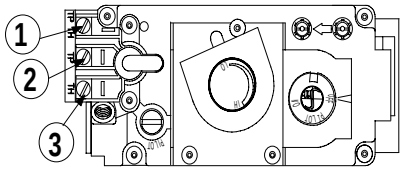
DO NOT USE OPEN FLAME.

4. For ease of accessibility, an optional remote wall switch or millivolt thermostat may be installed in a convenient location. Route a 2 strand, solid core millivolt wire 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 3



Do not connect either the wall switch, thermostat or gas valve to electricity (110 volts).

USING DOOR OPTION:

Purge all gas lines with the glass door of the fireplace opened. Assure that a continuous gas flow is at the burner before closing the door.

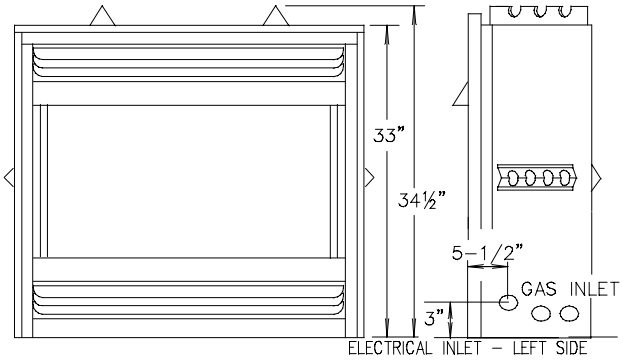
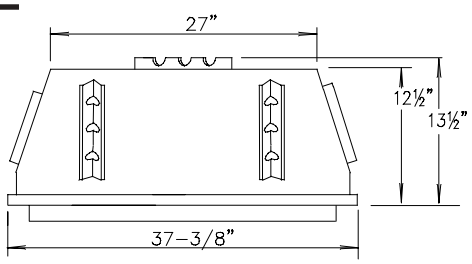


FIGURE 4



FRAMING

It is best to frame your fireplace after it is positioned. Use 2x4's and frame to local building codes. **FIGURE 5-7.**

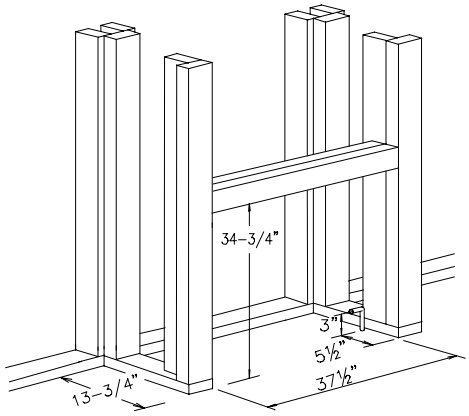


FIGURE 5

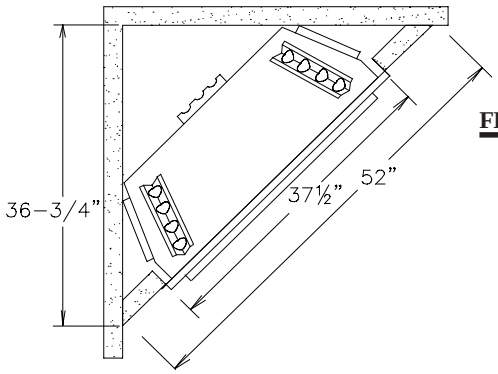
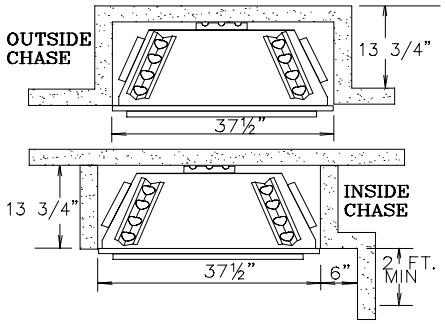


FIGURE 6



FIGURES 7

Minimum clearance to combustible construction from fireplace:

sides, back, bottom and top of the unit	0 inch
recessed depth	13 ¾ inches

To install the fireplace face flush with the finished wall, position the framework to accommodate the thickness of the finished wall. Bend out the four nailing tabs, attached on either side of the fireplace and secure to the 2x4 framing. The tabs will facilitate the installation of either a ¾" or a 1" finished wall thickness. *The nailing tabs must not be removed.*

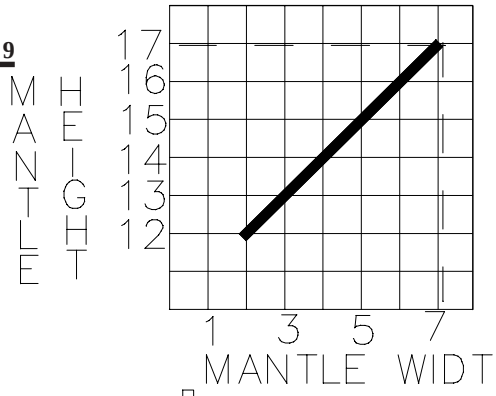
FIGURE 8

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. Non-combustible 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 4 feet away from the front face.

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

FIGURE 9



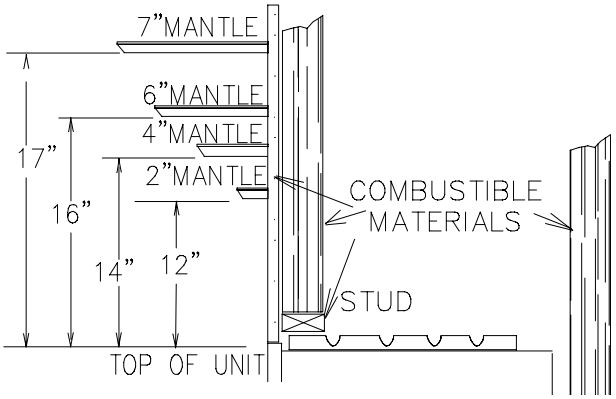


FIGURE 10

FINISHING

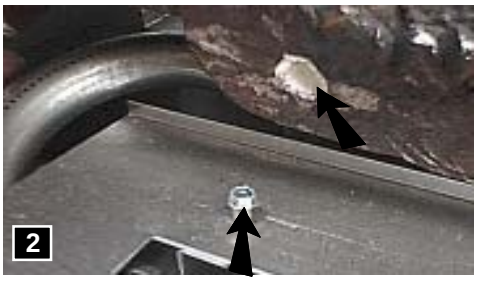
LOG PLACEMENT

POSITIONING THE LOGS IMPROPERLY WILL CAUSE FLAME IMPINGEMENT AND CARBONING.

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

FIGURES 11

1. Place the back log onto the log support bracket, located on the rear wall of the combustion chamber, pushing it as close to the firebox wall as possible. CENTRE it.

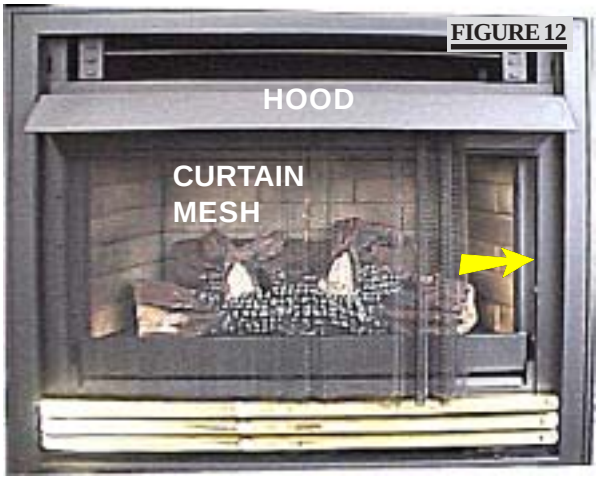


2. & 3. Centre the front log, as shown. The underside of the log contains two cavities which are placed over the locating screws on the burner.

4. Set the two smaller logs into the pockets and grooves of the front and back logs, respectively.

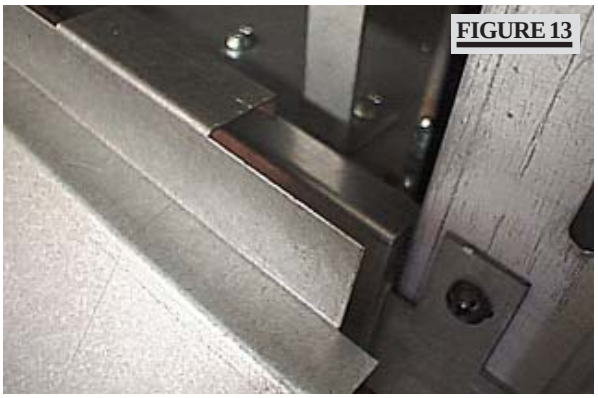
HOOD

FIGURE 12



The curtain mesh must be kept fully closed during operation to help prevent accidental burns from occurring.

FIGURE 13

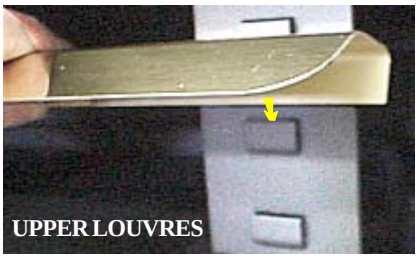


The heater must not be used when the hood is removed. Hook the hood over the lip of the curtain support plate.

OPTIONAL LOUVRE INSTALLATION & REMOVAL

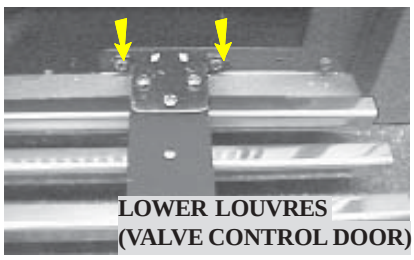
The louvres are installed as illustrated.

Ensure that the upper louvres snap into place. This will ensure proper air flow.



FIGURES 14

The lower louvre assembly is fastened by two screws securing the hinges on either side to the heater base.



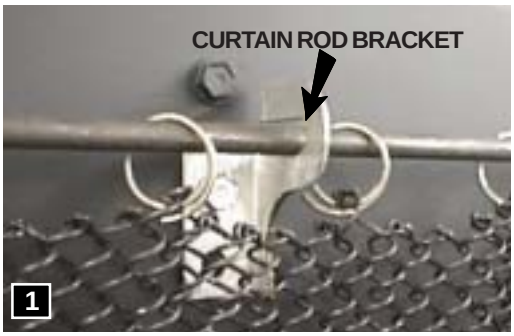
OPTIONS

GVF103-KT - PATENTED CATALYTIC DOOR INSTALLATION

This unique patented catalytic system was designed to provide unparalleled safety and peace of mind. The top of the door contains four catalytic tiles which are designed to filter out harmful gases and limit the carbon monoxide output. It is likely that with the fireplace in operation, the catalytic tiles will actually scrub the carbon monoxide normally found in the room and reduce it to a lower level. The tiles must not be altered or removed. They are not field serviceable and must be tested annually.

The heater with an optional catalytic door in place must not be operated when using any products such as paint, paint thinner, adhesives, etc. These products will permanently affect the catalytic tiles' ability to scrub the air.

FIGURES 15



1. The mesh must be removed if the catalytic door is used. Remove the centre bracket and bend the curtain rod slightly to disengage the rod from either side.

2. Remove the curtain support plate. Remove the two latch securing screws, already installed, position latch as shown in **4** and re-secure with the screws. A ¼" socket ratchet is recommended for this.

Repeat at the bottom. For location, see **5**.

3. Screw the door hinge onto the heater by first starting each of the five machine screws and then tightening all screws.

4. & 5. Secure the door using the two latches.

Replace the hood by hooking it over the top lip of the door assembly.

The heater must not be used when the hood is removed.

Care must be taken when closing and opening the catalytic door to avoid damaging the catalytic tiles.

BLOWER INSTALLATION

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 ANSI/NFPA 70-1996 NATIONAL ELECTRICAL CODE.

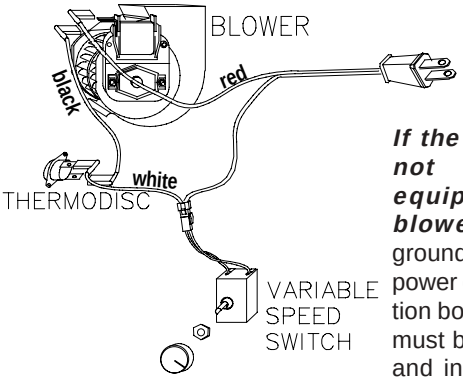


FIGURE 16

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.

The three slots on the blower mounting bracket allow ease of adjustment when attaching the blower. For a quiet running blower, do not allow the assembly to sit on the firebox base.

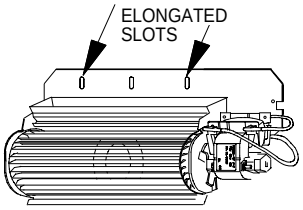


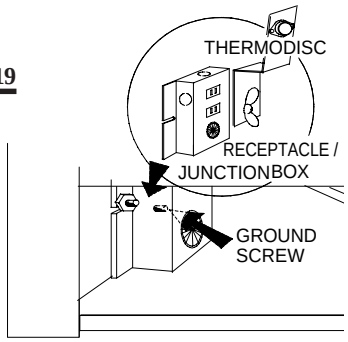
FIGURE 17

Slide the vibration reducing pad **(A)** into the clip **(C)** and up against the threaded stud **(B)** at the other end. The blower must be able to be positioned entirely onto the pad.

Tilt the blower onto its side. Slide it past the controls and into the clip **(C)**. Secure to the threaded stud using the lock washer and wing nut provided. Ensure that the blower does not touch the fireplace base or the firebox.

FIGURES 18

FIGURE 19



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.

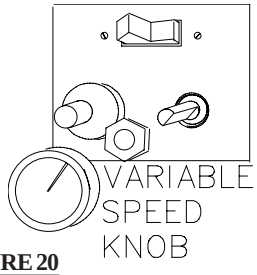


FIGURE 20

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 10 minutes after lighting the fireplace and will run for approximately 30-45 after the fireplace has been turned off. Use of the fan increases the output of heat.

Drywall dust will penetrate into the blower bearings causing irreparable damage. Care must be taken to prevent drywall dust from coming into contact with the blower or its compartment. Any damage resulting from this condition is not covered by the warranty policy.

GD65 FAN INSTALLATION

ELECTRICAL INSTALLATION TO BE DONE BY A QUALIFIED INSTALLER and must be connected and grounded in accordance with local codes. In the absence of local codes, use the current ANSI/NFPA 70-1996 NATIONAL ELECTRICAL CODE.

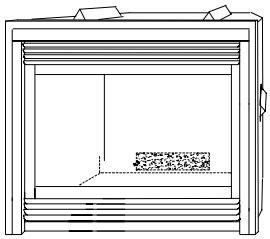


FIGURE 21

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.

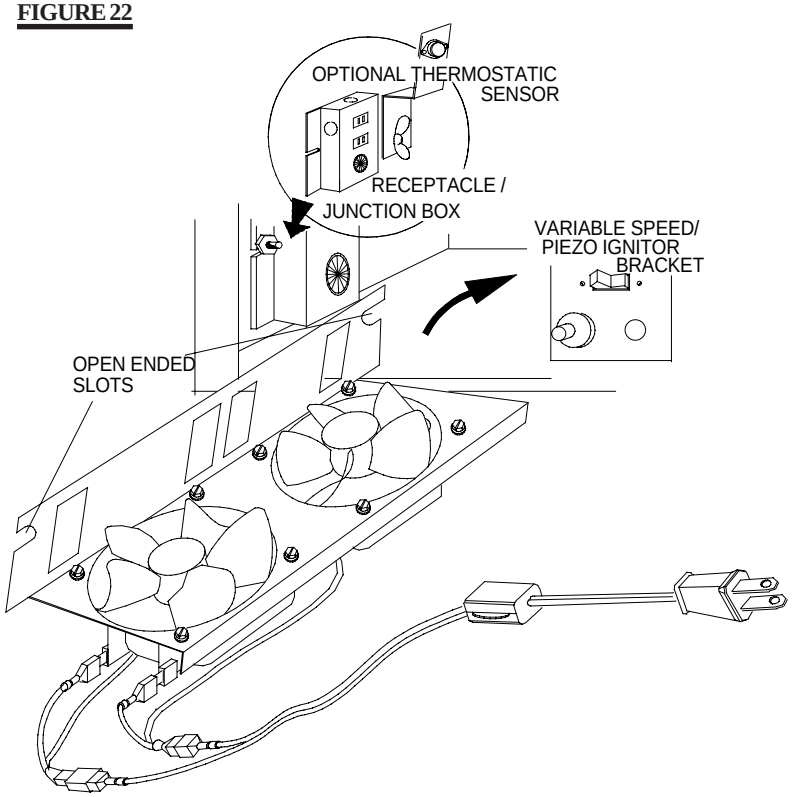
The wire harness provided in this kit is a universal harness. When installed, ensure that any excess wire is contained, preventing it from making contact with moving or hot objects.

Position the vibration reducing pad into the clip and onto the threaded stud at the other end, piercing a hole into the pad. The fan assembly must be able to be positioned entirely onto the pad.

Slide the fan assembly past the controls and into the clip. Secure using the lock washer and nut provided.

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.

FIGURE 22



THERMOSTATIC SENSOR CONTROL

This optional kit is meant to be used only in conjunction with the GD65 Fan Kit, which may be ordered from your Wolf Steel /Napoleon dealer.

With the thermostatic sensor option, the fan, when turned on, becomes thermally activated, and will automatically run approximately 10 minutes after the fireplace has been lit and for approximately 30-45 minutes after the fireplace has been turned off.

Use of the fan increases the output of heat.

Unplug the power cord from the receptacle. Connect all wires as shown.

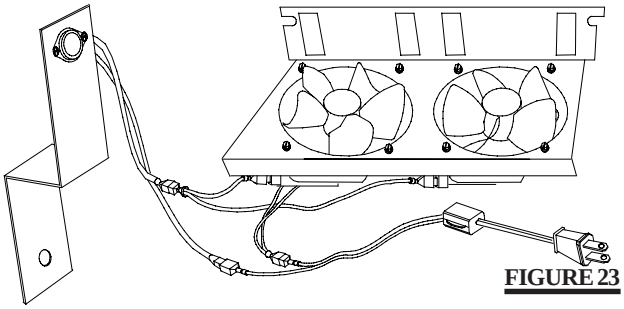


FIGURE 23

Attach and secure the sensor assembly bracket to the securing stud located next to the receptacle/junction box at the bottom left of the unit using the lock washer and wing nut. Ensure that the thermodisc touches the firebox wall.

Plug the power cord back into the receptacle.

When installed, ensure that any excess wire is contained, preventing it from making contact with moving or hot objects.

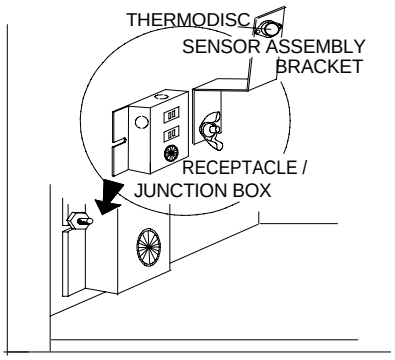


FIGURE 24

OPERATION / MAINTENANCE

OPERATING INSTRUCTIONS

If heater shuts off, do not relight until you provide fresh air. If heater keeps shutting off, have it serviced. Keep burner and control compartment clean.

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.

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 burning off. In both cases, open a window to sufficiently ventilate the room.

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

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

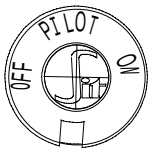
B. Before operating smell all around the fireplace area for gas and next to the floor because some gas is heavier than air and will settle on the floor.

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

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

WHAT TO DO IF YOU SMELL GAS:

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

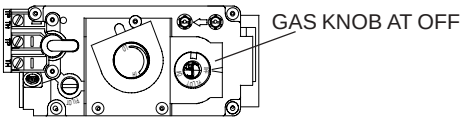


OXYGEN DEPLETION SENSOR **GAS KNOB**

LIGHTING INSTRUCTIONS

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

1. STOP! Read the above safety information on this label.
2. Set the thermostat to lowest setting.
3. Turn off all electric power to the fireplace.
4. Open the control door. Turn the gas knob clockwise ↷ to off.
5. Wait five (5) minutes to clear out any gas. If you smell gas including near the floor, STOP! Follow "B" in the above safety information on this label. If you don't smell gas go to the next step.
6. Find pilot located in front of the back log.
7. Turn gas knob counter-clockwise ↶ to pilot.
8. Depress and hold gas knob while lighting the pilot with the push button igniter. Keep knob fully depressed for one minute, then release. If pilot does not continue to burn repeat steps 3 through 7.
9. With pilot lit, turn gas knob counter-clockwise ↶ to on.
10. If equipped with remote on-off switch, main burner may not come on when you turn the valve to on. Remote switch must be in the on position to ignite burner.
11. 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. Push in gas control knob slightly and turn clockwise ↷ to off. Do not force.

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 heater should be inspected and serviced 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 oxygen depletion sensor system, 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 promptly ignites the main burner.

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. If using an optional catalytic door, check that the gasketing on the sides, and top of the door is not broken or missing. Replace if necessary.

CATALYTIC TILE MAINTENANCE

The catalytic tile is not field serviceable. It may only be handled or replaced by a qualified service person familiar with the specific characteristics of the appliance. Both room values and output from the catalytic tiles must be checked.

Check the room value with the heater off. Check the fireplace value after 10 minutes of heater operation to allow the tiles to come up to temperature.

In both cases the value of CO should not exceed 9ppm.

Catalytic output must be checked annually at the beginning of the heating season.

FIGURE 25

OXYGEN DEPLETION SENSOR PILOT CLEANING

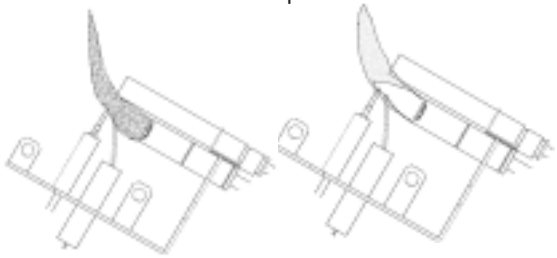
This procedure must be performed by a qualified service person!

Inspect the pilot for any visible contamination or debris (usually lint, pet hair, spider webs, carpet fibre, etc.) and remove.

Disconnect the pilot from the pilot tubing line. Using a 7/16" wrench, remove the injector from the pilot housing. Blow out the housing in the same direction as the gas flow.

Re-install the injector and the pilot tube, turn on the gas and check for leaks.

If this does not improve the performance, replace the pilot with **an exact replacement.** The device is tamper resistant with no field serviceable parts.



CORRECT PILOT FLAME

INCORRECT PILOT FLAME

FIGURES 26

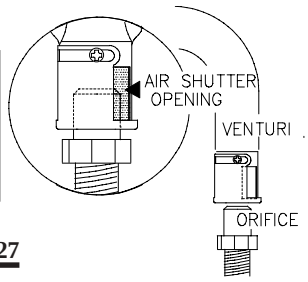
VENTURI ADJUSTMENT

Air shutter adjustment must only be done by a qualified gas installer!

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.

Opening the air shutter will also reduce exhaust odours smelled within the room. *See Trouble Shooting Guide.*

AIR SHUTTER OPENINGS	
NG	3/16"
LP	3/8"



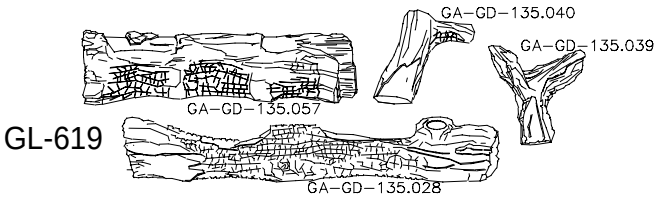
FIGURES 27

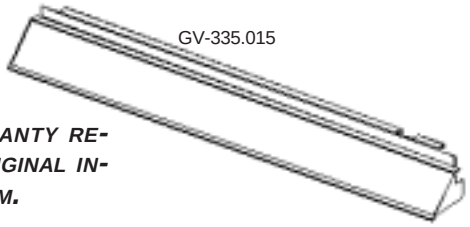
REPLACEMENTS

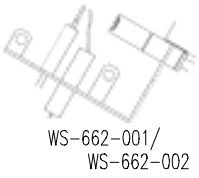
ORDERING REPLACEMENT PARTS

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 fireplace
2. Installation date of fireplace
3. Part Number
4. Description of part
5. Finish



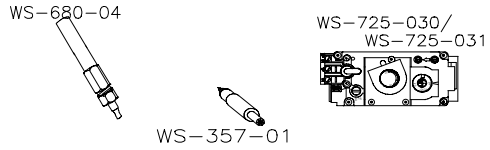


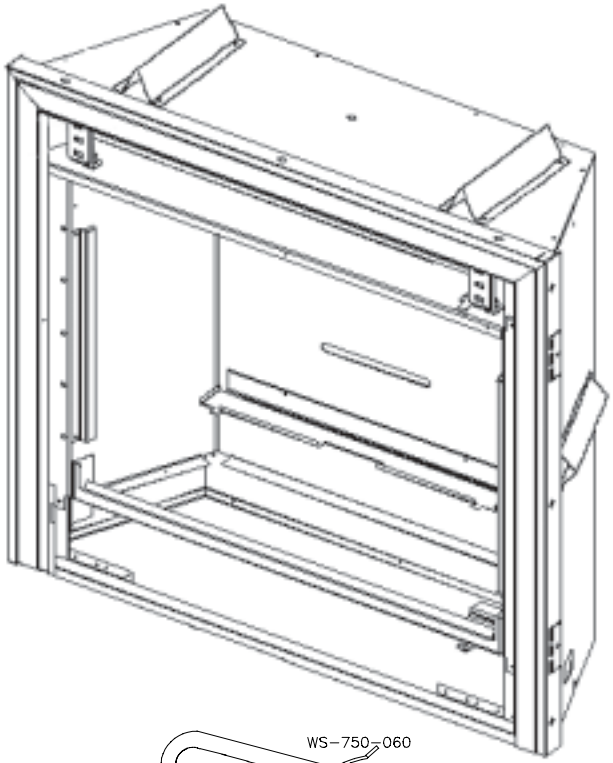


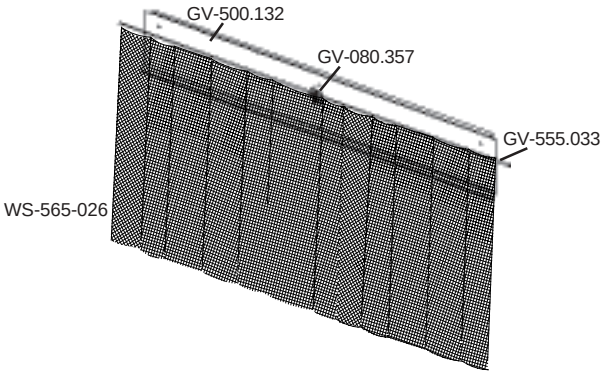
REPLACEMENT PARTS *FOR WARRANTY REPLACEMENT PARTS, A PHOTOCOPY OF THE ORIGINAL INVOICE WILL BE REQUIRED TO HONOUR THE CLAIM.*

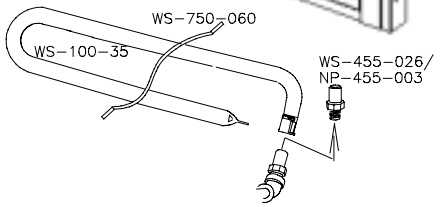
REPLACEMENT PARTS

PART NO.	DESCRIPTION
WS-357-01	PIEZO IGNITER
WS-662-001	NATURAL GAS OXYGEN DEPLETION SENSOR SYSTEM
WS-662-002	PROPANE GAS OXYGEN DEPLETION SENSOR SYSTEM
WS-680-04	THERMOPILE
WS-660-5	ON/OFF TOGGLE SWITCH
WS-725-030	NATURAL GAS VALVE
WS-725-031	PROPANE GAS VALVE
WS-750-060	IGNITER WIRE
WS-385-33	NAPOLEON LOGO
GD660	STANDARD WALL SWITCH & 20FT OF WIRE
GD-135.057	BACK LOG
GD-135.028	FRONT LOG
DS-135.040	RIGHT LOG
GD-135.039	LEFT LOG
GL619	LOG SET ASSEMBLY
WS-100-35	BURNER TUBE
WS-455-026	#38 NATURAL GAS BURNER ORIFICE
NP-455-003	#52 PROPANE GAS BURNER ORIFICE
GV-335.015	HOOD
WS-565-026	CURTAIN MESH
GV-555.033	CURTAIN ROD
GV-080.357	CURTAIN ROD BRACKET
GV-500.132	CURTAIN SUPPORT PLATE



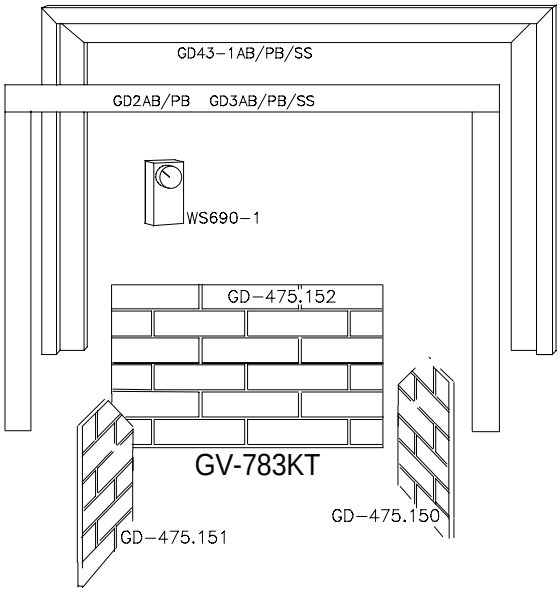


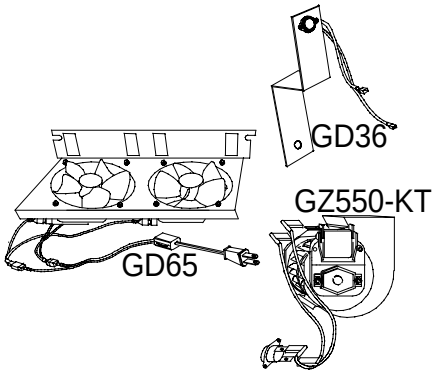


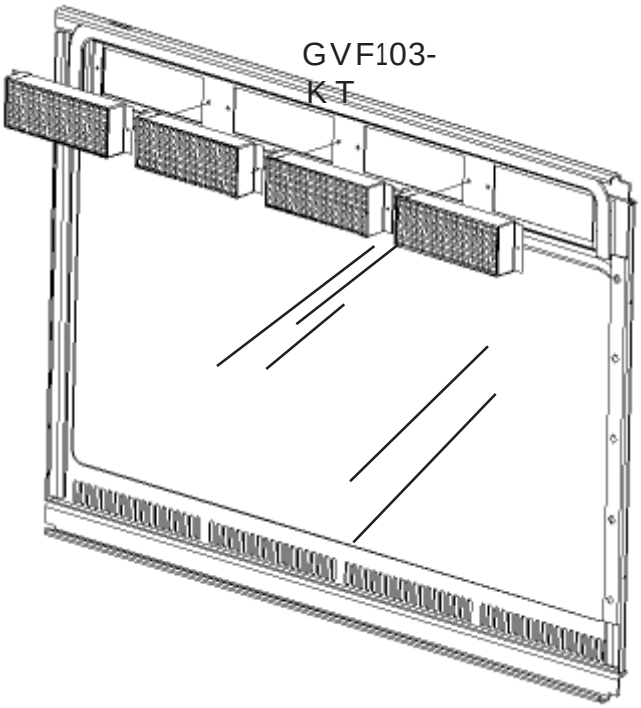


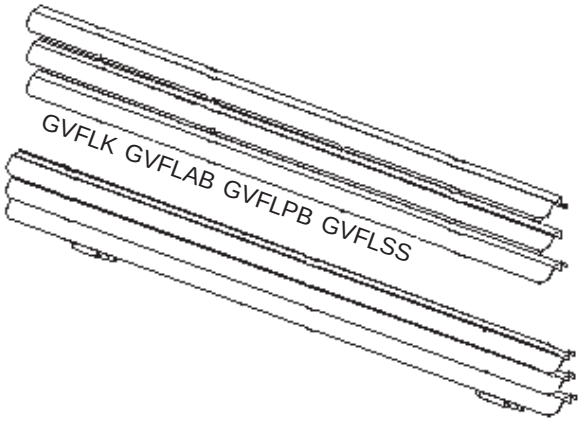
ACCESSORIES:

PART NO.	DESCRIPTION
GD2AB	2" TRIM KIT - ANTIQUE BRASS
GD2PB	2" TRIM KIT - POLISHED BRASS
GD3AB	3" TRIM KIT - ANTIQUE BRASS
GD3PB	3" TRIM KIT - POLISHED BRASS
GD3SS	3" TRIM KIT - STAINLESS STEEL
GD43-1AB	4" - 3D TRIM KIT - ANTIQUE BRASS
GD43-1PB	4" - 3D TRIM KIT - POLISHED BRASS
GD43-1SS	4" - 3D TRIM KIT - STAINLESS STEEL
WS690-1	MILLIVOLT THERMOSTAT
WS-660-010	REMOTE CONTROL - ADVANTAGE
WS-660-011	REMOTE CONTROL - ADVANTAGE PLUS
WS660-2	HAND HELD WIRELESS REMOTE SWITCH
WS500-33	VARIABLE SPEED SWITCH WALL MOUNTING PLATE
GVF103-KT	CATALYTIC DOOR
GV-783KT	DECORATIVE BRICK PANELS
MBP	METAL BRICK PANEL SET
GZ550-KT	BLOWER KIT
GD65	FAN KIT
GD36	THERMOSTATIC SENSOR CONTROL KIT FOR USE WITH GD65 ONLY
GVFLK	LOUVRE KIT - BLACK
GVFLAB	LOUVRE KIT - ANTIQUE BRASS
GVFLPB	LOUVRE KIT - POLISHED BRASS
GVFLSS	LOUVRE KIT - STAINLESS STEEL



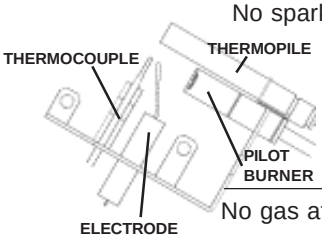






TROUBLE SHOOTING GUIDE

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

SYMPTOM	PROBLEM	TEST SOLUTION
Main burner goes out; pilot stays on.	Pilot flame is not large enough or not engulfing the thermopile	- service or replace Oxygen Depletion Sensor System - correct piping and/or regulator to provide correct pressure
	Thermopile shorting	- clean thermopile connection to the valve. Reconnect. - replace Oxygen Depletion Sensor System / 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.
Main burner goes out; pilot goes out.	Insufficient air supply	- open window or door. (Use one of the methods described in ANSI Z223.1 Section 5.3 or the applicable local code.)
	Out of propane gas.	- fill the tank.
	Pilot flame is not large enough. (Supply pressure too low.)	- service or replace Oxygen Depletion Sensor System - correct piping and / or regulator to provide correct pressure.
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. If a glass door has been installed, ensure that the door is open or removed prior to purging.
	Out of propane gas.	- fill the tank.
	Pilot flame is not large enough. (Supply pressure too low.)	- service or replace Oxygen Depletion Sensor System
	Thermocouple shorting / faulty.	- loosen and tighten thermocouple. - clean thermocouple and valve connection. - replace Oxygen Depletion Sensor System - test and replace valve.
	Faulty valve.	- replace.
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.	- disconnect wires from valve. 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 will not light.	Out of propane gas	- fill the tank.
	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 the electrode if the ceramic insulator is cracked or broken. - replace the push button ignitor.
	No gas at the pilot burner	- check that the manual valve is turned on. - check the pilot orifice for blockage. - replace the valve / Oxygen Depletion Sensor System. - call the gas distributor.

SYMPTOM	PROBLEM	TEST SOLUTION
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.
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. Check with burner operating on "HI". Gauge should read 7" (minimum 4.5") water column for natural gas or 13" (11" minimum) water column for propane. Outlet pressure can be checked the same as above using screw (B). Check with burner operating on "HI". Gauge should read 3.5" water column for natural gas or 10" water column for propane. 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 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. See air shutter openings, page 13. - check the input rate: check the manifold pressure and orifice size as specified by the rating plate values.
White / grey film forms on the glass of the optional catalytic door.	Sulphur from fuel is being deposited on glass, logs or combustion chamber surfaces.	- clean the glass with a recommended gas fireplace glass cleaner. DO NOT CLEAN GLASS WHEN HOT. If deposits are not cleaned off regularly, the glass may become permanently marked.
Exhaust fumes smelled in room, headaches.	Not enough combustion air.	- increase fresh air supply. (Use one of the methods described in ANSI Z223.1 Section 5.3 or the applicable local code.)
	Not enough ventilation air.	- increase fresh air supply. (Use one of the methods described in ANSI Z223.1 Section 5.3 or the applicable local code.)
	Catalytic tile is masked (contaminated by dust, paint fumes).	- check CO output from catalytic tiles. See Maintenance Section. Replace if necessary.
	Flame is impinging on the logs or combustion chamber.	- check that the logs are correctly positioned. - open air shutter to increase the primary air. See air shutter openings, page 13. - check the input rate: check the manifold pressure and orifice size as specified by the rating plate values.
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.

WS-415-131 / A / 09.11.00

Wolf Steel Fireplace Service History

This fireplace must be serviced annually depending on usage.

Date	Dealer Name	Service Technician Name	Service Performed	Special Concerns

NOTES: