

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

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



QUALITY FIREPLACES

UNVENTED MILLIVOLT SYSTEM

INSTALLATION AND OPERATION INSTRUCTIONS FOR
UNVENTED GAS FIREPLACE - GVF42

NATURAL GAS *MODEL GVF42N*

PROPANE GAS *MODEL GVF42P*

CERTIFIED FOR UNITED STATES USING ANSI 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.



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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.
- Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.
- Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

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

NOTE: CHANGES, OTHER THAN EDITORIAL, ARE DENOTED BY A VERTICAL LINE IN THE MARGIN

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

NAPOLEON products are designed with superior components and materials, assembled by trained craftsmen who take great pride in their work. The burner and valve assembly are leak and test-fired at a quality test station. The complete 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.

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

GENERAL INSTRUCTIONS

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

for example: in Massachusetts State:

- The fireplace damper must be removed or welded in the open position prior to installation of a fireplace insert or gas log.
- The appliance off valve must be a "T" handle gas cock.
- The flexible connector must not be longer than 36 inches.
- The appliance is not approved for installation in a bedroom or bathroom unless the unit is a direct vent sealed combustion product.
- **WARNING:** This product must be installed by a licensed plumber or gas fitter when installed within the commonwealth of Massachusetts.

In absence of local codes, install the GVF42 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 NATIONAL ELECTRICAL CODE in the United States.

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.

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.

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.

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.

Not designed for use with a glass door. Screen must be closed when appliance is in operation.

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

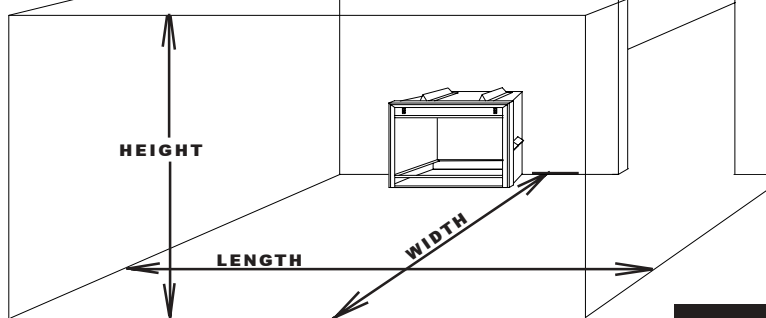
COMBUSTION AND VENTILATION AIR PROVISIONS

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

In order to avoid the possibility of exposed insulation or vapour barrier coming in contact with the fireplace body, it is recommended that the walls of the fireplace enclosure be 'finished', (i.e. drywall/sheetrock) as would any other outside wall of the home. This will ensure that clearance to combustibles is maintained within the cavity.

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 m³ 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 m³ 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 GVF42 is rated at 30,000BTUs per hour and therefore requires a minimum unconfined space of 1,500 cubic feet.



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

EXAMPLE 1

The volume of Room 2: 10 x 15 x 8 = 1200 cubic feet. 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

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 2

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.

EXAMPLE 2

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.

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 (6×10^{-11} kg per pa-sec-m²) 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 $\frac{1}{4}$ " \varnothing 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.

FIGURE 2 DO NOT KINK FLEX CONNECTOR.

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.

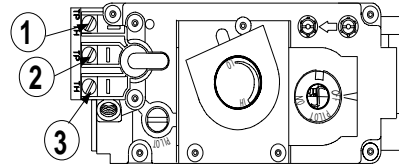


FIGURE 3

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

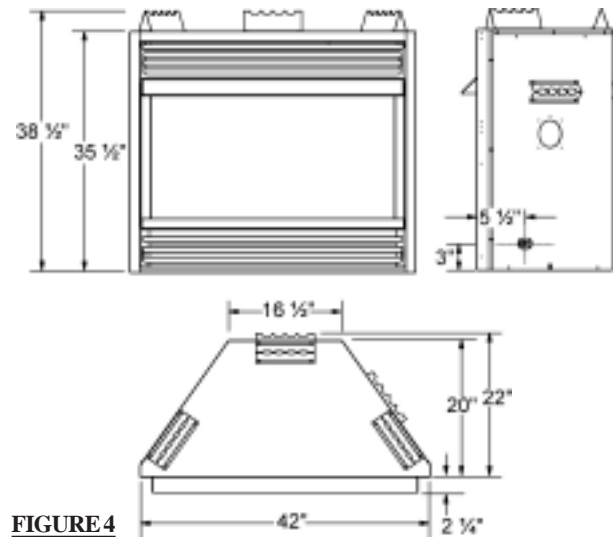


FIGURE 4

FRAMING

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

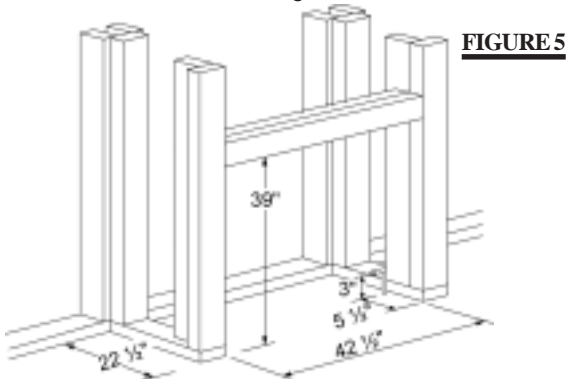


FIGURE 5

Note: In order to avoid the possibility of exposed insulation or vapour barrier coming in contact with the fireplace body, it is recommended that the walls of the fireplace enclosure be “finished” (ie: drywall/sheetrock), as you would finish any other outside wall of a home. This will ensure that clearance to combustibles is maintained within the cavity.

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

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

Raise the fireplace up to the height of the finished flooring to ensure control access and accessory installations.

Objects placed in front of the fireplace should be kept a minimum of 4 feet away from the front face.

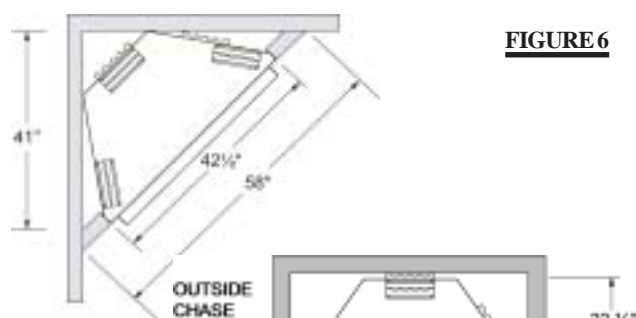
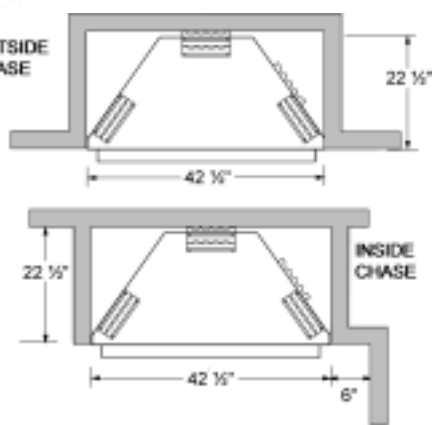


FIGURE 6

FIGURES 7



Minimum clearance to combustible construction from fireplace:

sides, back, bottom and top of the unit	0 inch
recessed depth	22 inches

NAILING TAB INSTALLATION

1) Attach the nailing tabs to the corner posts using the 2 sheet metal screws supplied. Secure through the centre of the top and bottom slots in the nailing tab and then through the existing holes in the corner posts.

If there are no existing holes, follow these instructions:

Position the nailing tab so that the front face is offset with the front edge of the corner post (approx. 1/2"). Centre the nailing tab vertically on the corner post.



FIGURE 8

Figure 8 a.

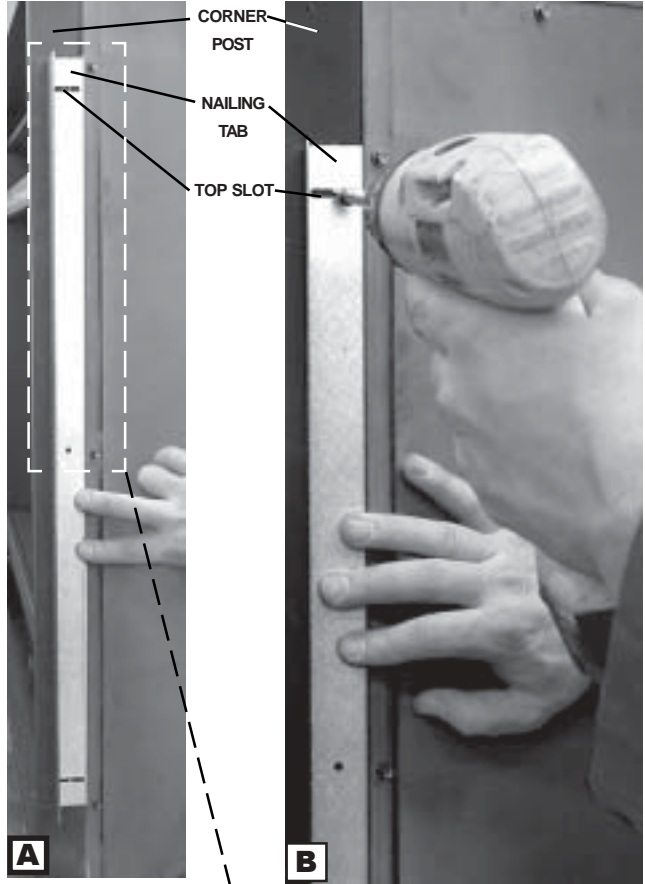
Drill through the centre of the top and bottom slots in the nailing tab. Secure using the two sheet metal screws supplied. This allows the nailing tab to slide back and forth for desired framing. **Figure 8 b.**

2) To determine the final location of the nailing tab you must first determine the width of your finishing material (i.e. drywall). This will determine the dimension from the front edge of the corner post to the nailing tab. Once the nailing tab is in the desired location, drill through the centre hole of the nailing tab. Secure with a sheet metal screw*.

Figure 8 c.

* Additional set screws may be installed.

FIGURES 8a-c



MANTLE CLEARANCES

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.

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

FIGURE 9

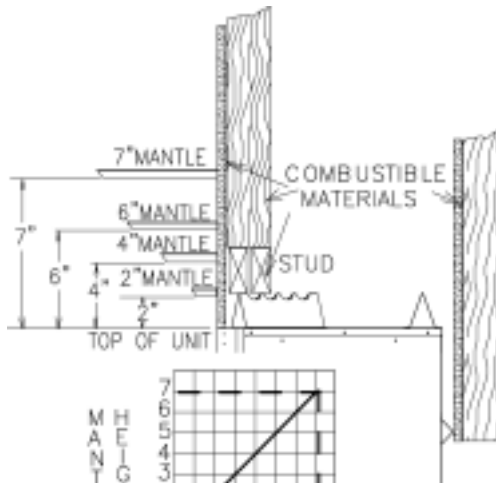
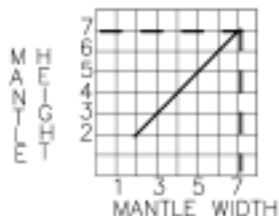


FIGURE 10



FINISHING

LOG PLACEMENT

PHAZER™ logs and glowing embers, exclusive to Napoleon Fireplaces, provide a unique and realistic glowing effect that is different in every installation. Take the time to carefully position the glowing embers for a maximum glowing effect. Log colours may vary. During the initial use of the fireplace, the colours will become more uniform as colour pigments burn in during the heat activated curing process.

FIGURES 11a-e



1. Place the back log (#1) onto the base of the firebox. Ensure that the back of the log rests against the rear log support on the back wall of the firebox.



2. Move the two small logs (#2 & #3) into position, lining up the studs located on the burner with the holes on the



bottom of the logs.

3. Tear the glowing embers into pieces and place along the front row of ports covering all of the burner area in front of the small logs (#2 & #3). Care should be taken to shred the embers into thin, small irregular pieces as only the exposed edges of the fibre hairs will glow. *The ember material will only glow when exposed to direct flame; however, care should be taken to not block the burner ports.* Blocked burner ports can cause an incorrect flame pattern, carbon deposits and delayed ignition. **PHAZER™** logs glow when exposed to direct flame.



4. Place the bottom of the left crossover log (#4) against the left tab protruding from the log support and between the two far left grate posts. Place the top of log # 4 into the pocket provided on the back log. Position the notch located on the end of the center log (#5) against the middle grate post with the other end of the log resting in the pocket of the left (crossover) log.



5. Place the bottom of the right crossover log (#6) against the right tab of the log support and the right outermost grate post. Place the top into the pocket provided on the center log (#5). Log #6 should also rest against the bracket of the log support.

CHARCOAL EMBERS

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

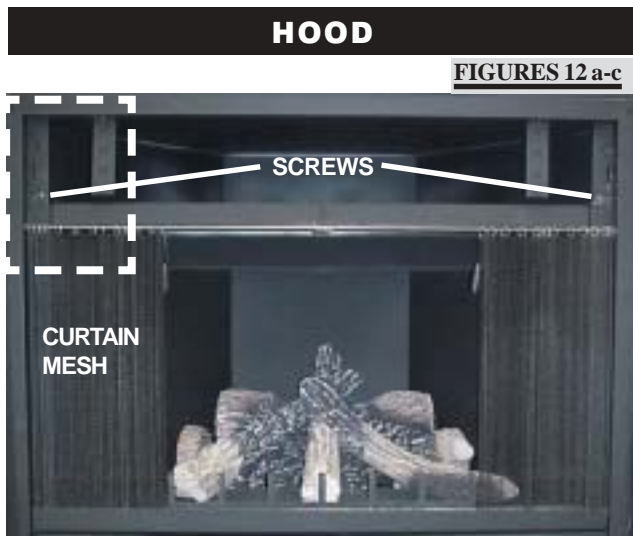
VERMICULITE

Sprinkle vermiculite around the charcoal embers.

Note: *Both charcoal embers and vermiculite are not to be placed on the burner.*

CHARCOAL LUMPS

Place the lumps between the logs in a realistic manner taking care not to block any of the burner ports.



1) Remove the screws located on either side of the frame, above the curtain rod.

2) Align the slots on the hood with the holes from which the screws were removed.



3) Secure the hood using the screws removed in step 1. Ensure that the louvre brackets are positioned in front of the hood.

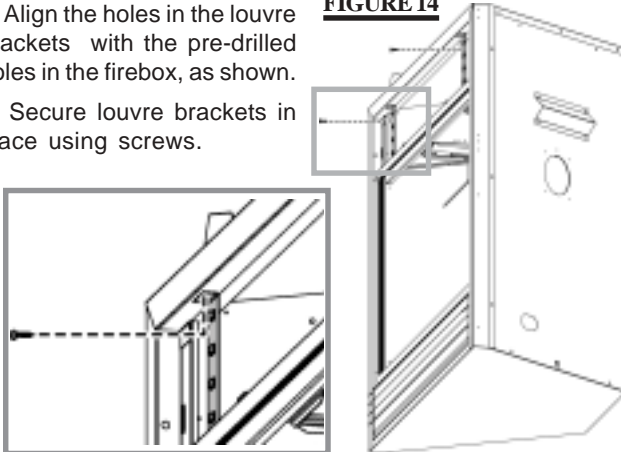


The curtain mesh must be kept fully closed during operation to help prevent accidental burns from occurring.

LOUVRE BRACKET INSTALLATION

1. Align the holes in the louvre brackets with the pre-drilled holes in the firebox, as shown.
2. Secure louvre brackets in place using screws.

FIGURE 14



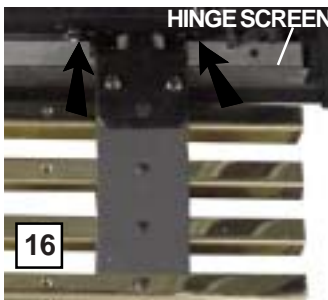
DOOR INSTALLATION

The upper louvres must be removed to allow the door to be removed. Release the two door latches, located across the top of the door and lift off the lower door bracket.

GDL42 LOUVRE INSTALLATION



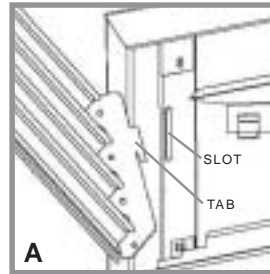
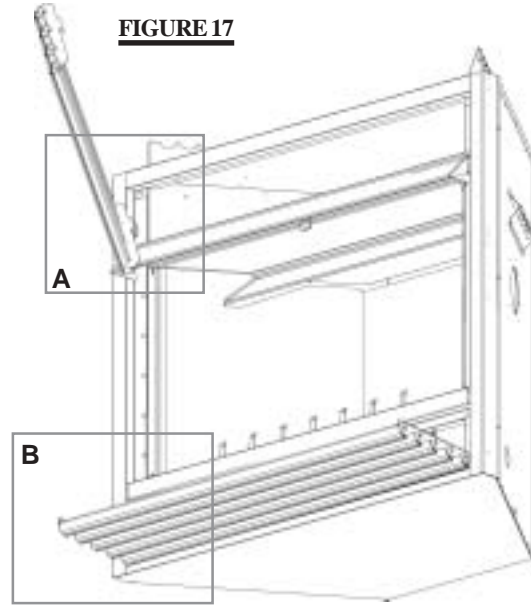
Insert the upper louvres into the slots on both brackets.



Attach each hinge on the lower louvre assembly to the lip of the fireplace base with 2 screws. Position the hinge screen into place and with the control door open, secure to the fireplace using three screws.

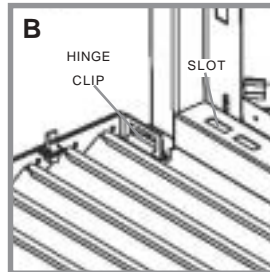
L42 LOUVRE INSTALLATION

FIGURE 17



UPPER LOUVRES

Insert the louvre tabs into the slots located at the top left and right corners of the unit.



LOWER LOUVRES

Insert the hinge clips into the slots located at the bottom left and right corners of the unit. To remove the louvres, pull the back tabs of the clips forward, while pushing the louvre assembly back. Lift the clip.

LOGO PLACEMENT

Remove the backing of the logo supplied and place on the screen cover, as indicated.

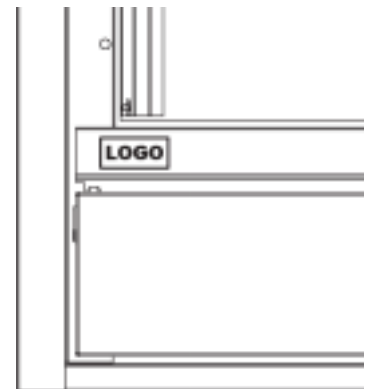


FIGURE 18

OPTIONAL 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 NATIONAL ELECTRICAL CODE.

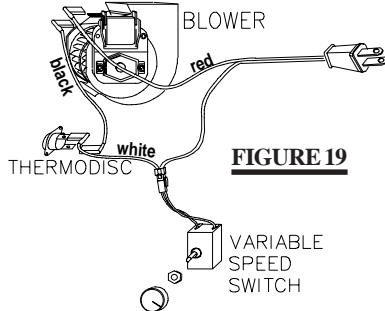


FIGURE 19

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.

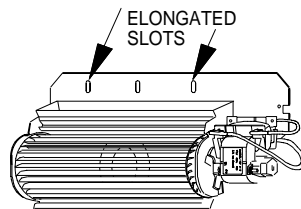


FIGURE 20

If optional blower kit is to be installed, remove thermodisc from the bracket supplied in the kit and discard the bracket. Install thermodisc in the bracket supplied with the fireplace. It is recommended to attach the wires to the disc and install the bracket before installing the blower. Attach the black and white wires to the disc, then secure the bracket to the stud at the bottom left on the unit using the lock washer and wing nut. Ensure that the thermodisc touches the firebox wall.

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 21

B

A

FIGURE 22

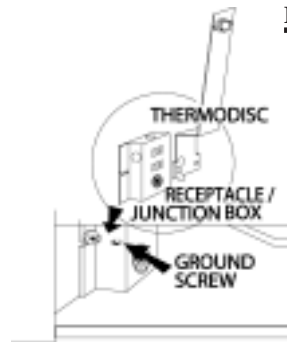
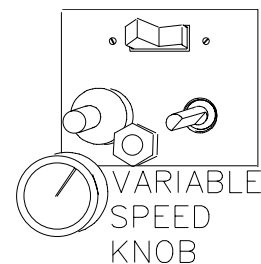


FIGURE 23



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.

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 NATIONAL ELECTRICAL CODE.



FIGURE 24

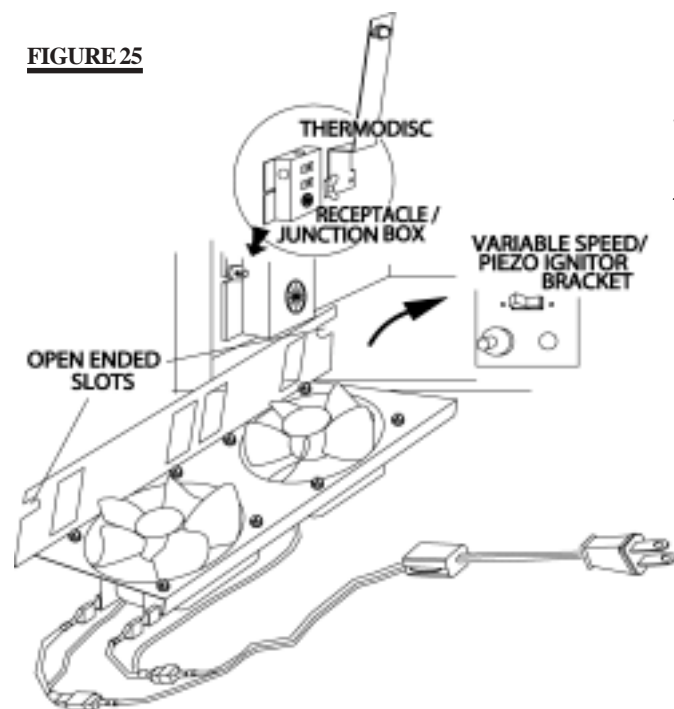
If the fireplace was not previously equipped with a blower, route a grounded 2-wire, 60hz power cable to the junction box. At this point, it must be strain relieved and insulated.

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.

Plug the harness cord connectors onto the connections of the fan as illustrated. Plug the power cord into the receptacle.



THERMOSTATIC SENSOR CONTROL

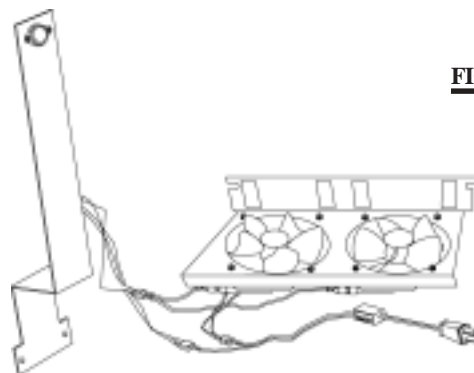
This optional kit is meant to be used only in conjunction with the GD65 Fan Kit, which may be ordered from your Wolf Steel /Napoleon dealer.

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.

If optional thermostatic sensor kit is to be installed, remove thermidisc from the bracket supplied in the kit and discard the bracket. Install thermidisc in the bracket supplied with the fireplace. It is recommended to attach the wires to the disc and install the bracket before installing the blower. Attach the black and white wires to the disc, then secure the bracket to the stud at the bottom left on the unit using the lock washer and wing nut. Ensure that the thermidisc touches the firebox wall.

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



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.

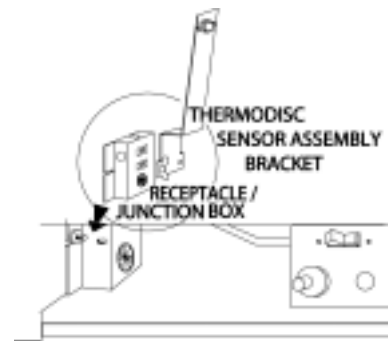


FIGURE 27

OPERATION / MAINTENANCE

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.

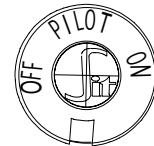
FOR YOUR SAFETY READ BEFORE LIGHTING:

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

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

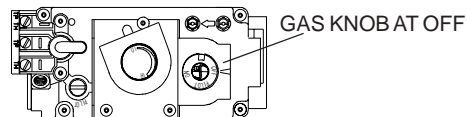
GAS KNOB

LIGHTING INSTRUCTIONS


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

- STOP! Read the above safety information on this label.
- Set the thermostat to lowest setting.
- Turn off all electric power to the fireplace.
- Open the control door. Turn the gas knob clockwise  to off.
- 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.
- Find pilot located in front of the back log.
- Turn gas knob counter-clockwise  to pilot.

- 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.
- With pilot lit, turn gas knob counter-clockwise to on.
- 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.
- Turn on all electric power to the fireplace.



TO TURN OFF GAS

- Turn off all electric power to the fireplace if service is to be performed.
- 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 pilot 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.

OXYGEN DEPLETION SENSOR PILOT CLEANING

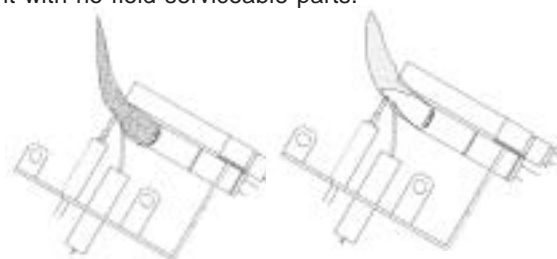
This procedure must be performed by a qualified service person!

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 $\frac{7}{16}$ " 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 28

VENTURI ADJUSTMENT

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

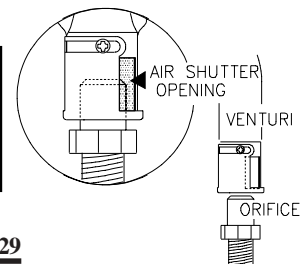
Closing the air shutter will cause a more yellow flame, but can lead to carboning.

WARNING: Carbon can be distributed in surrounding living area if the air shutter is improperly adjusted.

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	$\frac{3}{16}$ "
LP	$\frac{1}{4}$ "



FIGURES 29

REPLACEMENTS

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:

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

1. MODEL & SERIAL NUMBER OF FIREPLACE
2. INSTALLATION DATE OF FIREPLACE
3. PART NUMBER
4. DESCRIPTION OF PART
5. FINISH

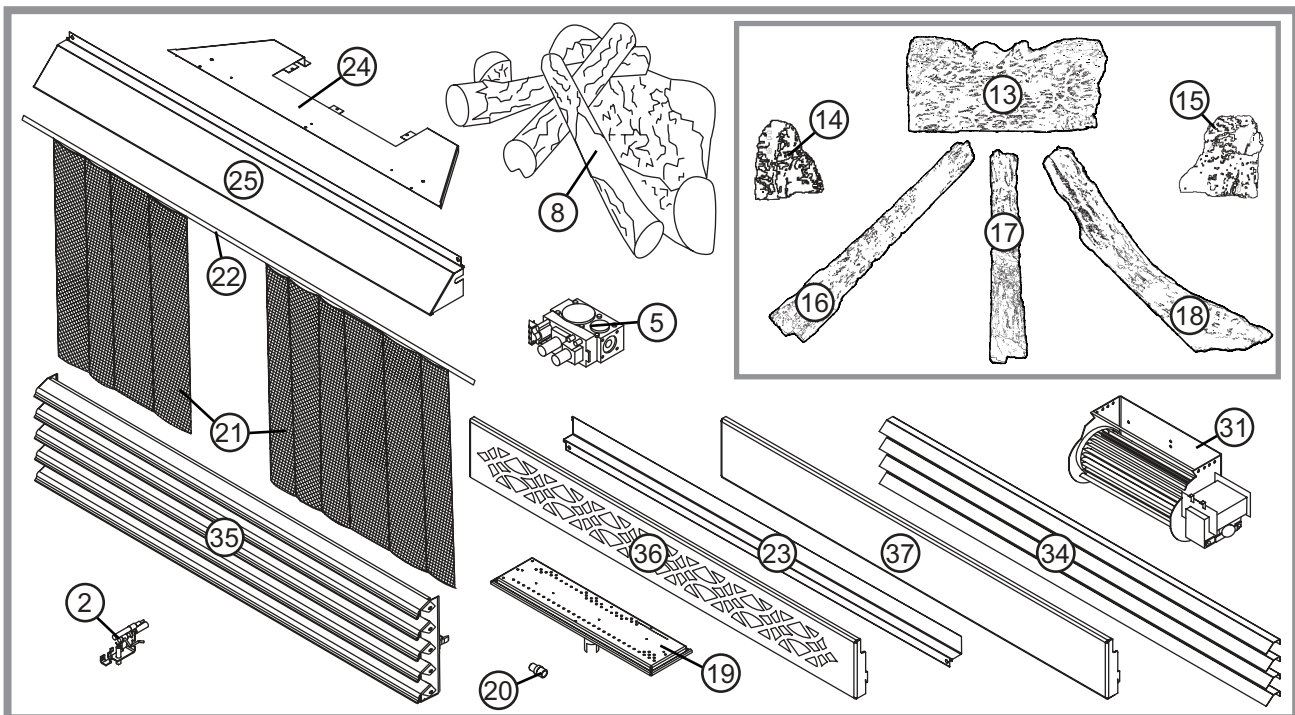
** IDENTIFIES ITEMS WHICH ARE NOT ILLUSTRATED. FOR FURTHER INFORMATION, CONTACT YOUR NAPOLEON DEALER.*

REPLACEMENT PARTS

#	PART NO.	DESCRIPTION
1	W357-0001	PIEZO IGNITER
2	W662-0001	NATURAL GAS OXYGEN DEPLETION SENSOR SYSTEM
2	W662-0002	PROPANE GAS OXYGEN DEPLETION SENSOR SYSTEM
3*	W680-0004	THERMOPILE
4*	W660-0005	ON/OFF TOGGLE SWITCH
5	W725-0030	NATURAL GAS VALVE
5	W725-0031	PROPANE GAS VALVE
6*	W385-0245	NAPOLEON LOGO
7*	GD660	STANDARD WALL SWITCH & 20FT OF WIRE
8	GL-633	LOG SET
9*	W361-0016	GLOWING EMBERS
10*	W550-0001	CHARCOAL EMBERS
11*	W550-0002	CHARCOAL LUMPS
12*	W361-0014	VERMICULITE
13	W135-0150	BACK - LOG #1
14	W135-0151	SMALL LEFT - LOG #2
15	W135-0152	SMALL RIGHT - LOG #3
16	W135-0131	LEFT CROSSOVER - LOG #4
17	W135-0132	CENTRE - LOG #5
18	W135-0133	RIGHT CROSSOVER - LOG #6
19	W010-0882	PAN BURNER
20	W455-0026	#38 NATURAL GAS BURNER ORIFICE
20	W455-0059	#53 PROPANE GAS BURNER ORIFICE
21	W565-0053	CURTAIN MESH
22	W555-0038	CURTAIN ROD
23	W200-0116	SCREEN COVER
24	W655-0144	LOG SUPPORT
25	W335-0026	HOOD

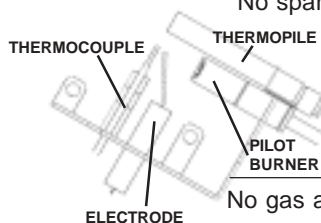
ACCESSORIES

#	PART NO.	DESCRIPTION
26*	W690-0001	MILLIVOLT THERMOSTAT
27*	W660-0010	REMOTE CONTROL - ADVANTAGE
27*	W660-0011	REMOTE CONTROL - ADVANTAGE PLUS
28*	W660-0013	MODULATING REMOTE
29*	GD825N	VALVE REGULATOR - NATURAL GAS
29*	GD825P	VALVE REGULATOR - PROPANE
30*	W500-0033	VARIABLE SPEED SWITCH WALL MOUNTING PLATE
31	GZ550-KT	BLOWER KIT
32*	GD65	FAN KIT
33*	GD36	THERMOSTATIC SENSOR CONTROL KIT FOR USE WITH GD65 ONLY
34	GDL42K	LOUVRE KIT - UPPER & LOWER - BLACK
34	GDL42PB	LOUVRE KIT - UPPER & LOWER - POLISHED BRASS
34	GDL42SS	LOUVRE KIT - UPPER & LOWER - BRUSHED STAINLESS STEEL
35	L42K	LOUVRE KIT - UPPER & LOWER - BLACK
36	GDOI42BG	ORNAMENTAL INSET - BRUSHED GOLD
36	GDOI42K	ORNAMENTAL INSET - BLACK
36	GDOI42G	ORNAMENTAL INSET - GOLD
36	GDOI42SS	ORNAMENTAL INSET - STAINLESS STEEL
37	GVSP42K	SOLID INSET PANEL



TROUBLE SHOOTING GUIDE

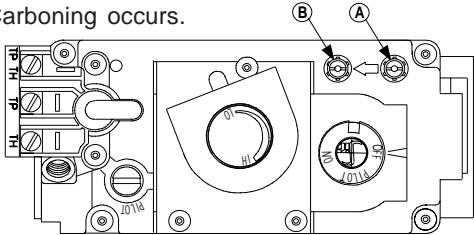
SYMPTOM	PROBLEM	TEST SOLUTION
Main burner goes out; pilot stays on.	Pilot flame is not large enough or not engulfing the thermopile	<ul style="list-style-type: none"> - service or replace Oxygen Depletion Sensor System - correct piping and/or regulator to provide correct pressure
	Thermopile shorting	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - shorten wire to correct length or wire gauge.
	Faulty thermostat or switch.	<ul style="list-style-type: none"> - replace.
Main burner goes out; pilot goes out.	Insufficient air supply	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - fill the tank.
	Pilot flame is not large enough. (Supply pressure too low.)	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - purge the gas line.
	Out of propane gas.	<ul style="list-style-type: none"> - fill the tank.
	Pilot flame is not large enough. (Supply pressure too low.)	<ul style="list-style-type: none"> - service or replace Oxygen Depletion Sensor System
	Thermocouple shorting / faulty.	<ul style="list-style-type: none"> - loosen and tighten thermocouple. - clean thermocouple and valve connection. - replace Oxygen Depletion Sensor System - test and replace valve.
	Faulty valve.	<ul style="list-style-type: none"> - replace.
Pilot burning; no gas to main burner; gas knob is on 'HI'; wall switch / thermostat is on.	Thermostat or switch is defective.	<ul style="list-style-type: none"> - connect a jumper wire across the wall switch terminals; if main burner lights, replace switch / thermostat.
	Wall switch wiring is defective.	<ul style="list-style-type: none"> - disconnect 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.	<ul style="list-style-type: none"> - remove stoppage in orifice.
	Faulty valve.	<ul style="list-style-type: none"> - replace.
Pilot will not light.	Out of propane gas	<ul style="list-style-type: none"> - fill the tank.
	No spark at pilot burner	<ul style="list-style-type: none"> - check if pilot can be lit by a match - check that the wire is connected to the push button 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	<ul style="list-style-type: none"> - 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
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Pilot goes out while standing; Main burner is in 'OFF' position.	Gas piping is undersized.	<ul style="list-style-type: none"> - turn on all gas appliances and see if pilot flame flutters, diminishes or extinguishes, especially when main burner ignites. Monitor appliance supply working pressure. - check if supply piping size is to code. Correct all undersized piping.
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Flames are consistently too large or too small. Carboning occurs.	Unit is over-fired or under-fired.	<ul style="list-style-type: none"> - check pressure readings:
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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 Flame is impinging on the logs or combustion chamber.	<ul style="list-style-type: none"> - ensure air shutter opening is free of lint or other obstructions. - 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.
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Exhaust fumes smelled in room, headaches.	Not enough combustion air. Not enough ventilation air. Flame is impinging on the logs or combustion chamber.	<ul style="list-style-type: none"> - increase fresh air supply. (Use one of the methods described in ANSI Z223.1 Section 5.3 or the applicable local code.) - increase fresh air supply. (Use one of the methods described in ANSI Z223.1 Section 5.3 or the applicable local code.) - 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.
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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 Remote wall switch is grounding. Remote wall switch wire is grounding. Faulty valve.	<ul style="list-style-type: none"> - reverse. - replace. - check for ground (short); repair ground or replace wire. - replace.
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