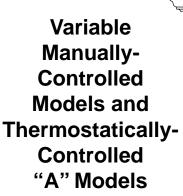
# DESA INTERNATIONAL UNVENTED (VENT-FREE) PROPANE GAS FIREPLACE

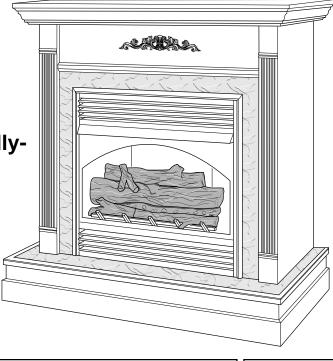
This appliance may be installed in an aftermarket\* manufactured (mobile) home, where not prohibited by state or local codes.

\* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer

#### OWNER'S OPERATION AND INSTALLATION MANUAL







Shown with optional cabinet mantel, hearth base, and trim accessories.

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor'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.

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

WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to Air for Combustion and Ventilation section in this manual.

Save this manual for future reference.

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# SAFETY INFORMATION

#### **A WARNINGS**

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

#### **A** DANGER

Carbon monoxide poisoning may lead to death!

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the fireplace may not be working properly. **Get fresh air at once!** Have fireplace serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

**Propane Gas**: Propane gas is odorless. An odor-making agent is added to the gas. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all Warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

Safety Information continues on next page

# SAFETY INFORMATION

#### Continued

#### A WARNINGS Continued

**WARNING:** Any change to this fireplace or its controls can be dangerous.

- 1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.
- 2. Do not place propane supply tank(s) inside any structure. Locate propane supply tank(s) outdoors.
- 3. If you smell gas
  - shut off gas supply
  - 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 neighbor's phone. Follow the gas supplier's instructions
  - if you cannot reach your gas supplier, call the fire department
- 4. This fireplace shall not be installed in a bedroom or bathroom.
- 5. Never install the fireplace
  - in a recreational vehicle
  - where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the fireplace
  - in high traffic areas
  - · in windy or drafty areas
- 6. Do not use this fireplace as a wood-burning fireplace. Use only the logs provided with the fireplace.
- 7. Do not add extra logs or ornaments such as pine cones, vermiculite, or rock wool. Using these added items can cause sooting. Do not add lava rock around base. Rock and debris could fall into the control area of fireplace.
- 8. You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is in place before running fireplace.
- 9. This fireplace is designed to be smokeless. If logs ever appear to smoke, turn off fireplace and call a qualified service person. *Note*: During initial operation, slight smoking could occur due to log curing and fireplace burning manufacturing residues.
- 10. Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.
- 11. Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.
- 12. This fireplace needs fresh air ventilation to run properly. This fireplace has an oxygen depletion sensor (ODS) pilot light safety system. The ODS shuts down the fireplace if not enough fresh air is available. See *Air for Combustion and Ventilation*, pages 6 through 8. If fireplace keeps shutting off, see *Troubleshooting*, pages 27 through 30.
- 13. Do not run fireplace
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
- 14. Do not use this fireplace to cook food or burn paper or other objects.
- 15. Never place any objects in the fireplace or on logs.
- 16. Fireplace front and screen becomes very hot when running fireplace. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Fireplace will remain hot for a time after shut-down. Allow surfaces to cool before touching.
- 17. Carefully supervise young children when they are in the room with fireplace.
- 18. Do not use fireplace if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.
- 19. Do not operate fireplace if any log is broken. Do not operate fireplace if a log is chipped (dime-sized or larger).
- 20. Turn fireplace off and let cool before servicing. Only a qualified service person should service and repair fireplace.
- 21. Operating fireplace above elevations of 4,500 feet could cause pilot outage.

# PRODUCT IDENTIFICATION

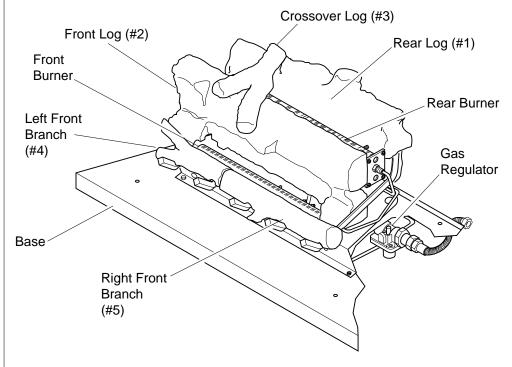
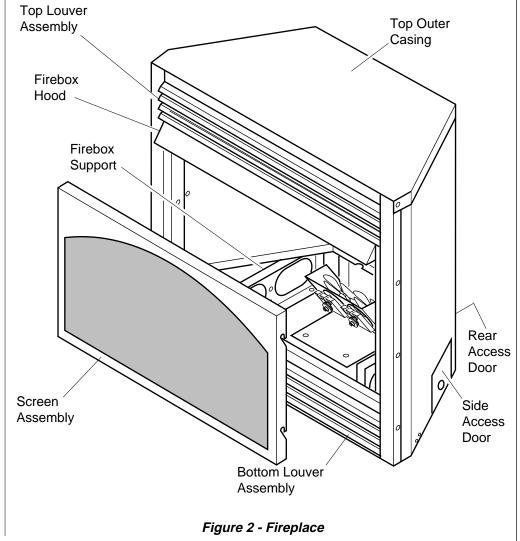


Figure 1 - Log Base Assembly



#### **LOCAL CODES**

Install and use fireplace with care. Follow all local codes. In the absence of local codes, use the latest edition of The National Fuel Gas Code ANSI Z223, also known as NFPA 54\*.

\*Available from:

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

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

#### **UNPACKING**

- 1. Place the carton containing the fireplace unit on its back. Hold fireplace and pull the carton and pallet away. Remove trim kit from front of fireplace.
- 2. Locate two screws above top corners of the fireplace screen. Remove and discard these screws. Lift fireplace screen up and pull out to remove.
- 3. Remove protective packaging applied to logs, log base assembly, and fireplace.
- 4. Check all items for any shipping damage. If damaged, promptly inform dealer where you bought fireplace.

# PRODUCT FEATURES

#### Operation

This vent-free fireplace is clean burning. It requires no outside venting. There is no heat loss out a vent or up a chimney. Heat is generated by both realistic flames and glowing embers. When used without the blower, the fireplace requires no electricity making it ideal for emergency back-up heat.

#### **Safety Device**

This fireplace has a pilot with an Oxygen Depletion Sensor Shutoff System (ODS). The ODS/pilot is a required feature for vent-free room heaters. The ODS system shuts off the fireplace if there is not enough fresh air.

#### Piezo Ignition System

This fireplace has a piezo ignitor. This system requires no matches, batteries, or other sources to light fireplace.

#### **Blower Assembly**

This fireplace has a blower assembly. The blower operates thermostatically or manually. The blower circulates heated air from the fireplace into the room. Use of blower is optional.

#### Thermostat Control Models (VGF28PTA/CFGF28PTA)

These fireplaces have a thermostat sensing bulb and a control valve. The thermostat controls the heat output and flame height. This maintains a consistent room temperature. Even the lowest setting provides realistic flames and glowing embers from two burners. Selecting higher comfort settings allows fireplace to run longer, producing greater heat output. At lower comfort settings, the fireplace will run less. This results in increased heating comfort. This can also result in lower gas bills.

#### Variable Manual Control (VGF28PV/CFGF28PV)

These fireplaces have a variable manual control valve which allows the user to choose the heat setting that best suits his needs. Any setting between low and high may be selected by simply turning the control knob.

# AIR FOR COMBUSTION AND VENTILATION

#### **A** WARNING

This heater shall not be installed in a confined space unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation, and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, fireplaces, clothes dryers, and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuel-burning appliances.

#### PROVIDING ADEQUATE VENTILATION

The following is exerpts from *National Fuel Gas Code*. *NFPA 54/ANSI Z223.1*, *Section 5.3*, *Air for Combustion and Ventilation*.

All spaces in homes fall into one of the three following ventilation classifications:
1. Unusually Tight Contruction; 2. Unconfined Space; 3. Confined Space.
The information on pages 5 through 7 will help you classify your space and provide adequate ventilation.

#### **Unusually Tight Construction**

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm or less with openings gasketed or sealed <u>and</u>
- 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.

If your home meets all of the three criteria above, you must provide additional fresh air. See *Ventilation Air From Outdoors*, page 7.

If your home does not meet all of the three criteria above, proceed to page 6.

#### Unconfined Space

The *National Fuel Gas Code, ANSIZ223.1, 1992, Section 5.3* defines unconfined space as having a minimum air volume of 50 cubic feet (127 cubic cm) for each 1000 Btu/Hr input rating of all appliances in the space (cubic feet equals length x width x height of space). Include adjoining rooms only if there are doorless passageways or ventilation grills between the rooms.

#### **Confined Space**

The *National Fuel Gas Code, ANSIZ223.1, 1992, Section 5.3* defines confined space as having an air volume of less than 50 cubic feet (127 cubic cm) for each 1000 Btu/Hr input rating of all appliances in the space (cubic feet equals length x width x height of space). Include adjoining rooms only if there are doorless passageways or ventilation grills between the rooms.

# AIR FOR COMBUSTION AND VENTILATION

Continued

#### DETERMINING AIR FLOW FOR FIREPLACE LOCATION

#### **Determining if You Have a Confined or Unconfined Space**

Use this work sheet to determine if you have a confined or unconfined space.

**Space:** Includes the room in which you will install fireplace plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

| 1. Determine               | the volume o  | f the space (le                   | ength x w   | idth x height).                               |   |
|----------------------------|---|-----------------------------------|-------------|---|---|
|                            | idth x Heigh<br>Space size  |                                   | th) x 18 ft | t. (width) x 8 ft.                            | (volume of space)<br>(ceiling height) = |
|                            |   | to adjoining r<br>o the total vol |             |   | lls or openings, add the                |
| 2. Divide the scan support | -   | by 50 cubic                       | feet to de  | termine the max                               | ximum Btu/Hr the space                  |
| the space ca               |   | ne of space) ÷                    | 50 cu. ft.  | = (Maximum I                                  | Btu/Hr                                  |
| •                          |   | volume of spape can supp          |             | cu. ft. = 63.3 or                             | 63,300 (maximum                         |
| 3. Add the Btu             | ı/Hr of all fu  | el burning app                    | oliances in | n the space.                                  |   |
|                            | Vent-free f<br>Gas water I<br>Gas furnac<br>Vented gas<br>Gas firepla<br>Other gas a<br>Total | heater*<br>e<br>heater            | +           |   | Btu/Hr                                  |
|                            | Gas water I<br>Vent-free f<br>Total<br>clude direct-<br>id vents to the                       | ireplace<br>vent gas appli        | =           | 40,000<br>28,000<br>68,000<br>rect-vent draws |   |
| 4. Compare th used.        |   | Btu/Hr (maxir                     | num the s   | space can suppo                               |   |
|                            | ]   | Btu/Hr (actual                    | l amount    | of Btu/Hr used)                               |   |
| Example:                   |   |                                   |             | space can suppo<br>of Btu/Hr used)            |   |
| -                          |   | •                                 | -           |   | ctual Btu/Hr used is more               |

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework work sheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See *Ventilation Air from Inside Building*, page 8.
- B. Vent room directly to the outdoors. See *Ventilation Air from Outdoors*, page 8.
- C. Install a lower Btu/Hr fireplace, if lower Btu/Hr size makes room unconfined.

If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

# AIR FOR COMBUSTION AND VENTILATION Continued

#### **A** WARNING

If the area in which the heater may be operated is smaller than that defined as an unconfined space, provide adequate combustion and ventilation air by one of the methods described in the *National Fuel Gas Code, ANSI Z223.1, 1992, Section 5.3.* 

#### VENTILATION AIR

#### **Ventilation Air From Inside Building**

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, Figure 3). You can also remove door into adjoining room (see option 3, Figure 3). Follow the *National Fuel Gas Code NFPA 54/ANSI Z223.1, Section 5.3, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

#### **A** WARNING

Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.

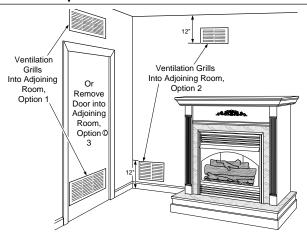


Figure 3 - Ventilation Air from Inside Building

#### **Ventilation Air From Outdoors**

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces.

*IMPORTANT:* Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

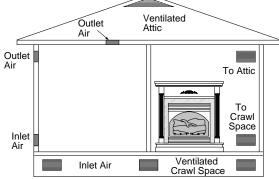


Figure 4 - Ventilation Air from Outdoors

#### **NOTICE**

A qualified service person must install fireplace. Follow all local codes.

#### **A** WARNING

Never install the fireplace

- in a bedroom or bathroom
- in a recreational vehicle
- where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the fireplace
- in high traffic areas
- · in windy or drafty areas

#### WARNING

This fireplace has a three-prong, grounded electrical plug. This plug helps protect you against electrical shock. Only connect plug to a properly grounded, three-prong receptacle. Do not cut or remove the grounding prong from this plug.

#### **A** CAUTION

This fireplace creates warm air currents. These currents move heat to wall surfaces next to fireplace. Installing fireplace next to vinyl or cloth wall coverings or operating fireplace where impurities in the air (such as tobacco smoke) exist, may discolor walls.

*IMPORTANT:* Vent-free heaters add moisture to the air. Although this is beneficial, installing fireplace in rooms without enough ventilation air may cause mildew to form from too much moisture. See *Air for Combustion and Ventilation*, pages 6 through 8.

*IMPORTANT:* Make sure the fireplace is level. If fireplace is not level, log set will not work properly.

#### **CHECK GAS TYPE**

Use only natural gas. If your gas supply is not natural gas, do not install fireplace. Call dealer where you bought fireplace for proper type fireplace.

#### **ELECTRICAL HOOKUP**

This fireplace has a blower assembly with an electrical cord. The electrical cord is five feet in length. You must locate fireplace within reach of a 120 volt grounded electrical outlet. If not, you must install an electrical outlet within reach of fireplace power cord.

#### Continued

#### ASSEMBLING AND ATTACHING BRASS TRIM

*Note:* The instructions below show assembling and attaching brass trim to fireplace.

- 1. Remove packaging from three pieces of brass trim.
- 2. Locate four brass screws, two adjusting plates with set screws, and two shims in the hardware packet.
- 3. Align shim under adjusting plate as shown in Figure 5.
- 4. Slide one end of adjusting plate/shim in slot on mitered edge of top brass trim (see Figure 5).
- 5. Slide other end of adjusting plate/shim in slot on mitered edge of side brass trim (see Figure 5).
- 6. While firmly holding edges of brass trim together, tighten both set screws on the adjusting plate with slotted screwdriver.
- 7. Repeat steps 1 through 6 for other side.

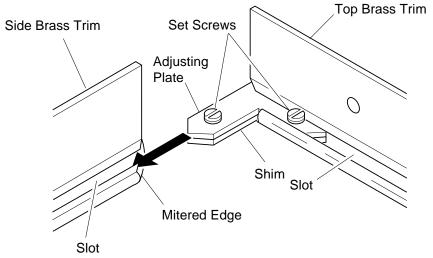


Figure 5 - Assembling Brass Trim

8. Tighten trim hanging screws (#10 x 6.25 shoulder) into holes in cabinets. Place the assembled trim onto fireplace cabinet. Align hanging notches on trim with hanging screws on side of fireplace (see Figure 6). Push trim firmly into place, sliding hanging notches over hanging screws.

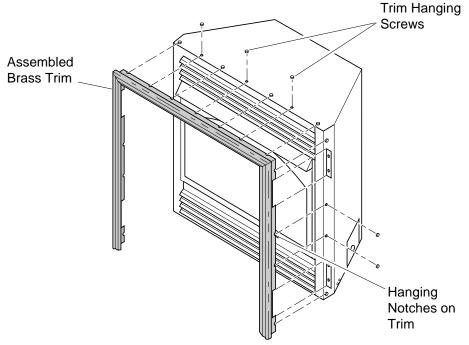


Figure 6 - Attaching Brass Trim to Fireplace

#### Continued

#### INSTALLATION CLEARANCES

#### **A** WARNING

Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling, and adjoining wall.

Carefully follow the instructions below. This will ensure safe installation.

#### Minimum Wall and Ceiling Clearances (see Figure 7)

- A. Clearances from the side of the fireplace opening to any combustible wall should not be less than 16 inches for a cabinet mantel or 12 inches for a corner installation.
- B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42 inches.

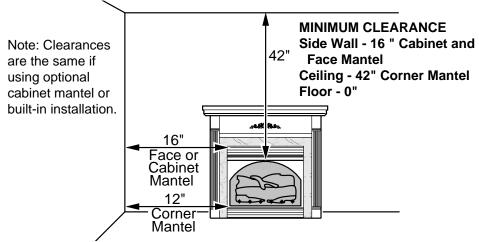


Figure 7 - Minimum Clearance to Wall and Ceiling

#### CONVENTIONAL FIREPLACE INSTALLATION

Conventional installation of this fireplace involves installing fireplace along with the corner, face, or cabinet mantel with hearth base accessories against a wall in your home. Follow the instructions below to install the fireplace in this manner.

#### **A** WARNING

For conventional installation, it is recommended you use the cabinet mantel, corner mantel, face mantel, or hearth bases specified in this manual. Surface clearances may not be sufficient with other cabinet mantels and hearth bases. This may create a fire hazard. See *Accessories*, pages 32 and 33 for correct mantels and hearth bases.

*Note:* The instructions below show installation using the cabinet mantel and the G3000F/G3001U hearth base accessories. The hearth base accessory shown is optional for this installation. You can install fireplace and cabinet mantel directly on the floor. The corner mantel and face mantel accessories cannot be installed with the G3000F/G3001U hearth base. You must install corner and face mantel directly on the floor. If mounting fireplace and cabinet mantel to the floor or using face mantel or corner mantel, an optional G3005 Slim Base kit may be installed.

- 1. Assemble cabinet mantel, hearth base, and trim accessories. Assembly instructions are included with each accessory.
- 2. Install a properly grounded, 120 volt three-prong electrical outlet at fireplace location if an outlet is not there. If possible, locate outlet so cabinet mantel will cover it when installed (see Figure 8, page 12). *Continued*

#### Continued

- 3. Install gas piping to fireplace location. This installation includes an approved flexible gas line (if allowed by local codes) after the manual shutoff valve. The flexible gas line must be the last item installed on the gas piping. See *Installing Gas Piping to Fireplace Location*, page 16.
- 4. Place hearth base accessory against wall at installation location. Cut an access hole in hearth top to run flexible gas line to fireplace (see Figure 8). Make sure to locate access hole so cabinet mantel will cover it when installed. *Note:* You can secure base to floor using wood screws. Countersink screw heads and putty over.

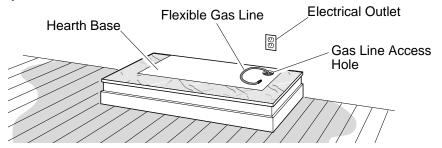


Figure 8 - Placing Hearth Base Accessory Against Wall

- 5. Route flexible gas line through access hole in hearth base.
- 6. Center cabinet mantel on hearth base (see Figure 9). Make sure mantel is flush against wall.

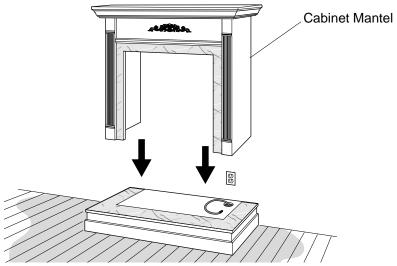


Figure 9 - Installing Cabinet Mantel

7. Break off nailing flanges (see Figure 10) with hammer or pliers.

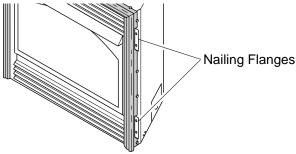


Figure 10 - Location of Nailing Flanges

8. Place cardboard or other protective material on top of hearth base. Carefully set fireplace on protective material, with back of fireplace inside mantel opening.

#### Continued

- 9. Attach flexible gas line to fireplace gas regulator. See *Connecting Fireplace to Gas Supply*, page 17.
- 10. Route blower electrical cord through side or rear access door of fireplace. Plug electrical cord into electrical outlet.
- 11. Carefully insert fireplace into cabinet mantel. Be careful not to scratch or damage hearth base, cabinet mantel, or any laminate trim on hearth base. Remove protective material from top of hearth base and from front of fireplace (if any). *Note:* You can secure fireplace to hearth or floor. Open lower louver. Locate screw holes in bottom of base. Tighten wood screws through these holes and into hearth or floor.
- 12. Check all gas connections for leaks. See *Checking Gas Connections*, page 18.

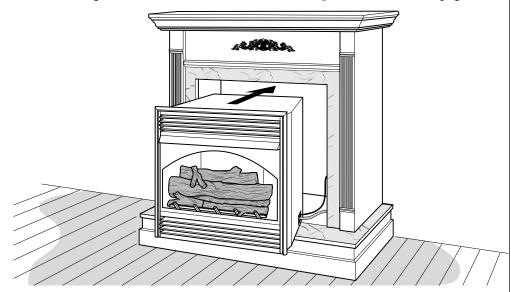


Figure 11 - Inserting Fireplace Into Cabinet Mantel

#### BUILT-IN FIREPLACE INSTALLATION

Built-in installation of this fireplace involves installing fireplace into a framed-in enclosure. This makes the front of fireplace flush with wall. If installing a mantel above the fireplace, but you must follow the clearances shown in Figure 15, page 15. Follow the instructions below to install the fireplace in this manner.

| Height                           |         | Front Width                       |                                  | Dep                                | oth                              |
|----------------------------------|---------|-----------------------------------|----------------------------------|------------------------------------|----------------------------------|
| Actual                           | Framing | Actual                            | Framing                          | Actual                             | Framing                          |
| 32 <sup>3</sup> / <sub>8</sub> " | 33"     | 34 <sup>5</sup> / <sub>16</sub> " | 35 <sup>1</sup> / <sub>2</sub> " | 16 <sup>11</sup> / <sub>16</sub> " | 17 <sup>3</sup> / <sub>4</sub> " |

1. Frame in rough opening. Use dimensions shown in Figure 12 for the rough opening.

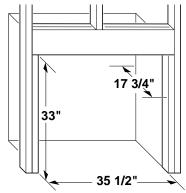


Figure 12 - Rough Opening for Installing in Wall

#### Continued

If installing in a corner, use dimensions shown in Figure 13 for the rough opening. The height is 33" which is the same as the wall opening, on page 13. n

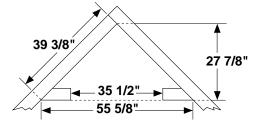


Figure 13 - Rough Opening for Installing in Corner

- 2. Install a properly grounded, three-prong 120 volt electrical outlet at fireplace location. Locate outlet inside the framed enclosure.
- 3. Install gas piping to fireplace location. This installation includes an approved flexible gas line (if allowed by local codes) after the manual shutoff valve. The flexible gas line must be the last item installed on the gas piping. See *Installing Gas Piping to Fireplace Location*, page 15.
- 4. Carefully set fireplace in front of rough opening with back of fireplace inside wall opening.
- 5. Attach flexible gas line to fireplace gas regulator. See *Connecting Fireplace to Gas Supply*, page 17.
- 6. Route blower electrical cord through side or rear access door of fireplace. Plug electrical cord into electrical outlet.
- 7. Carefully insert fireplace into rough opening.
- 8. Attach fireplace to wall studs using nails or wood screws through holes in nailing flange (see Figure 14).
- 9. Check all gas connections for leaks. See *Checking Gas Connections*, page 18.
- 10. Install brass trim (see Figure 6, page 10) after final finishing and/or painting of wall.

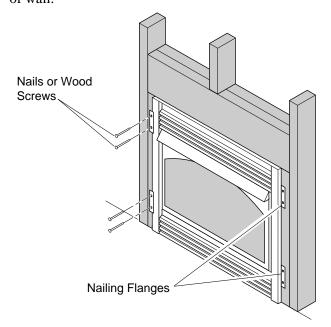


Figure 14 - Attaching Fireplace to Wall Studs

#### Continued

#### Mantel Clearances for Built-In Installation

If placing mantel above built-in fireplace, you must meet minimum clearance between mantel shelf and top of fireplace opening.

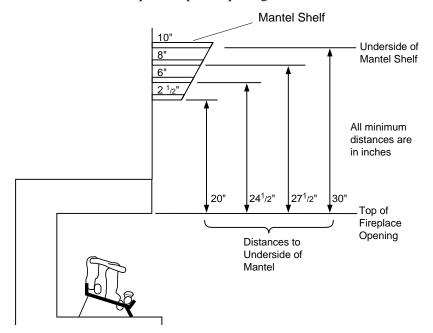


Figure 15 - Minimum Mantel Clearances for Built-In Installation

If your installation does not meet the above minimum clearances, you must:

- raise the mantel to an acceptable height, OR
- remove the mantel.

#### INSTALLING GAS PIPING TO FIREPLACE LOCATION

#### **NOTICE**

A qualified service person must connect fireplace to gas supply. Follow all local codes.

#### **CAUTION**

Never connect heater directly to the propane supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane supply.

#### **Installation Items Needed**

Before installing fireplace, make sure you have the items listed below.

- external regulator (supplied by installer, see Figure 16, page 16)
- piping (check local codes)
- sealant (resistant to LP gas)
- manual shutoff valve \*
- test gauge connection \*

- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes) (not provided)
- \* An A.G.A. design-certified manual shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional A.G.A. design-certified manual shutoff valve from your dealer. See *Accessories*, page 32.

#### Continued

The installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11 and 14 inches of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 16. Pointing the vent down protects it from freezing rain or sleet.

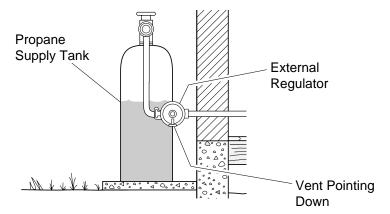


Figure 16 - External Regulator With Vent Pointing Down

#### **A** CAUTION

Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to fireplace. If pipe is too small, undue loss of pressure will occur.

Installation must include a manual shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from fireplace (see Figure 17, page 17).

Check your building codes for any special requirements for locating manual shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged fireplace valves.

#### **A** CAUTION

Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

Install sediment trap in supply line as shown in Figure 17, page 17. Locate sediment trap where it is within reach for cleaning. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into fireplace gas controls. If sediment trap is not installed or is installed wrong, fireplace may not run properly.

#### Continued

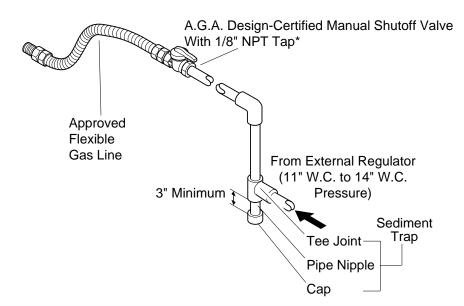


Figure 17 - Gas Connection

\* Purchase the optional A.G.A. design-certified manual shutoff valve from your dealer. See *Accessories*, page 32.

#### CONNECTING FIREPLACE TO GAS SUPPLY

#### **Installation Items Needed**

- 5/16" hex socket wrench or nut-driver
- Phillips screwdriver
- sealant (resistant to LP gas, not provided)
- 1. Remove fireplace screen. Remove two screws that hold fireplace screen in place for shipping. These screws are located near top of screen. Discard screws. Lift fireplace screen up and pull out to remove.
- 2. Remove access door from rear or side of fireplace. See *Product Identification*, page 4, for access door locations.
- 3. Remove screws that attach log base assembly to fireplace. Carefully lift up log base assembly and remove from fireplace (see Figure 18).

 $\it Note:$  If adding the G8000 brick liner accessory, install it now. Follow instructions in G8000 accessory kit.

#### **A** CAUTION

Do not pick up log base assembly by burners. This could damage burners. Only handle base by grates.

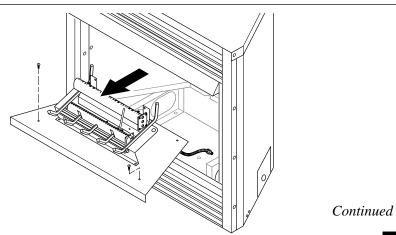


Figure 18 - Removing Log Base Assembly From Fireplace

#### Continued

4. Route flexible gas line from manual shutoff valve into fireplace through side or rear access panel. Route flexible gas supply line through fireplace access door.

#### NOTICE

Most building codes do not permit concealed gas connections. A flexible gas line is provided to allow accessibility from the fire-place. The flexible gas supply line connection to the manual shutoff valve should be accessible.

- 5. Apply pipe joint sealant lightly to male threads of gas connector attached to flexible gas line (see Figure 19). Connect flexible gas line to flexible gas line attached to gas regulator of fireplace (see Figure 19).
- 6. Check all gas connections for leaks. See *Checking Gas Connections*, below.
- 7. Replace log base assembly back into fireplace. Feed flexible gas line into fireplace base area while replacing log base assembly. Make sure the entire flexible gas line is in fireplace base area. Reattach log base assembly to fireplace with screws removed in step 3.

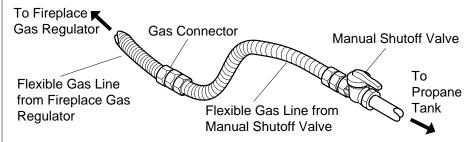


Figure 19 - Attaching Flexible Gas Lines Together

#### CHECKING GAS CONNECTIONS

#### **A** WARNING

Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once.

#### **A** WARNING

Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

#### Pressure Testing Gas Supply Piping System Test Pressures In Excess Of 1/2 PSIG

- 1. Disconnect fireplace and its individual manual shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig will damage fireplace gas regulator.
- 2. Cap off open end of gas pipe where manual shutoff valve was connected.
- 3. Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
- 4. Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Re-connect fireplace and manual shutoff valve to gas supply. Check reconnected fittings for leaks.

#### Continued

#### Test Pressures Equal To or Less Than 1/2 PSIG

- 1. Close manual shutoff valve (see Figure 20).
- 2. Pressurize supply piping system by either using compressed air or opening propane supply tank valve.
- 3. Check all joints from propane supply tank to manual shutoff valve (see Figure 21). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

#### **Pressure Testing Fireplace Gas Connections**

- 1. Open manual shutoff valve (see Figure 20).
- 2. Open propane supply tank valve.
- 3. Make sure control knob of fireplace is in the OFF position.
- 4. Check all joints from manual shutoff valve to thermostat gas valve (see Figure 21). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Light fireplace (see *Operating Fireplace*, pages 21 through 23 [Thermostat-controlled models] or pages 23 through 25 [Manually-controlled models]). Check all other internal joints for leaks.
- 7. Turn off fireplace (see *To Turn Off Gas to Appliance*, page 23, [Thermostat-controlled models] or page 25 [Manually-controlled models]).

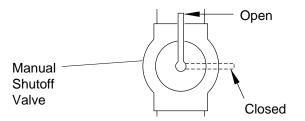


Figure 20 - Manual Shutoff Valve

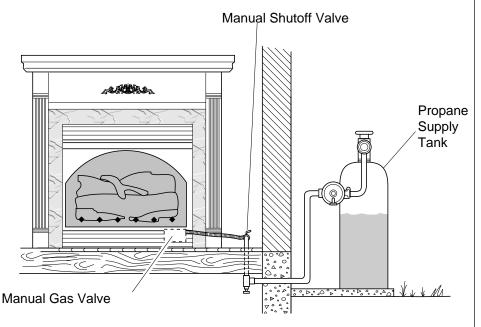


Figure 21 - Checking Gas Joints

#### Continued

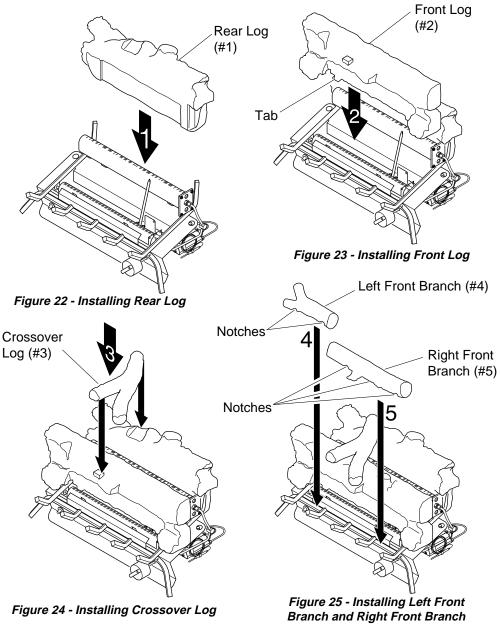
#### **INSTALLING LOGS**

#### **A** WARNING

Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

Each log is marked with a number. These numbers will help you identify the log when installing. It is very important to install these logs exactly as instructed. Do not modify logs. Only use logs supplied with heater.

- 1. Slide rear log (#1) into place behind rear burner (see Figure 22).
- 2. Slide front log (#2) into place behind front burner. Make sure tabs at bottom of log are behind front burner (see Figure 23).
- 3. Place crossover log (#3) into place (see Figure 24). Be sure to place back of crossover log into notch on left side of rear log. The indentation under front right fork of crossover log must rest on rectangular knob of front log.
- 4. Place left front branch (#4) and right front branch (#5) into place (see Figure 25). Make sure notches on bottom rest on grates.
- 5. Add lava rock around base of heater.



Continued

#### **A** WARNING

You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is in place before running fireplace.

5. Install fireplace screen by slipping notches of fireplace screen over screws on front of fireplace (see Figure 26).

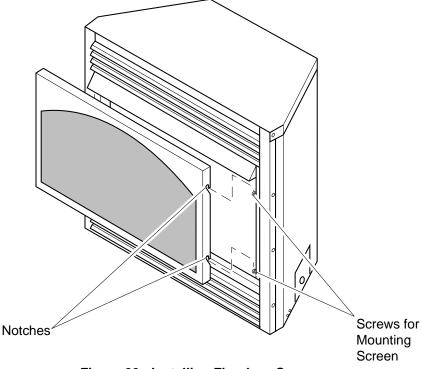


Figure 26 - Installing Fireplace Screen

# OPERATING FIREPLACE

Thermostat-Controlled Models

#### FOR YOUR SAFETY READ BEFORE LIGHTING



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 appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor. WHAT TO DO IF YOU SMELL GAS
  - · Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Continued

Thermostat-Controlled Models Continued

#### LIGHTING INSTRUCTIONS

#### **A** WARNING

You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is installed before running fireplace.

#### **NOTICE**

During initial operation of new fireplace, burning logs will give off a paper-burning smell. Orange flame will also be present. Open window to vent smell. Operate fireplace on HI position to burn off odor. This will only last a few hours.

- 1. STOP! Read the safety information on page 21.
- 2. Make sure manual shutoff valve is fully open.
- 3. Turn control knob clockwise \_\_\_\_\_ to the OFF position.

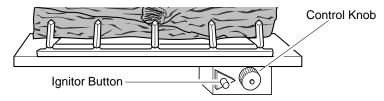


Figure 27 - Control Knob and Ignitor Button Location

- 4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.
- 5. Turn control knob counterclockwise / to the PILOT position. Press in control knob for five (5) seconds (see Figure 26, above).

*Note:* If running fireplace for first time, there will be air in gas line. You may need to press in control knob for 30 seconds or longer. This will allow air to bleed from the gas system.

6. Continue pressing control knob in. Press and release ignitor button. This will light pilot. The pilot is attached to the front burner. If needed, keep pressing ignitor button until pilot lights.

**Note:** If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure*, page 23.

7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

*Note:* If pilot goes out, repeat steps 3 through 7. This fireplace has a safety interlock system. Wait one (1) minute for system to reset before lighting pilot again.

• If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.

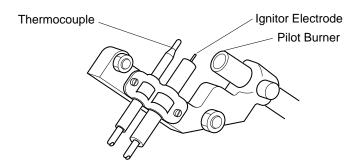


Figure 28 - Pilot

Thermostat-Controlled Models Continued 8. Turn control knob counterclockwise to desired heating level. The burners should light. Set control knob to any heat level between HI and LO.

#### **CAUTION**

Do not try to adjust heating levels by using the manual shutoff valve.

#### TO TURN OFF GAS TO APPLIANCE



**Shutting Off Fireplace** 

Turn control knob clockwise \_\_\_\_\_ to the OFF position.

**Shutting Off Burners Only (pilot stays lit)** 

Turn control knob clockwise \_\_\_\_\_ to the PILOT position.



#### THERMOSTAT CONTROL OPERATION



You can set the thermostat control knob to any comfort level between HI and LO. The thermostat will gradually modulate the heat output and flame height from higher to lower settings, or pilot, in order to maintain the comfort level you select. The ideal comfort setting will vary by household depending upon the amount of space to be heated, the output of the central heating system, etc.

**Note:** Selecting the HI setting will cause the burner to remain on without modulating down in most cases.



#### MANUAL LIGHTING PROCEDURE



- 1. Follow steps 1 through 5 under Lighting Instructions, page 22.
- 2. Depress control knob and light pilot with match.
- 3. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow step 8, above.

# OPERATING FIREPLACE

Manually-Controlled Models

#### FOR YOUR SAFETY READ BEFORE LIGHTING





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 appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor. WHAT TO DO IF YOU SMELL GAS
  - Do not try to light any appliance.
  - · Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Manually-Controlled Models *Continued* 

#### LIGHTING INSTRUCTIONS

#### **A** WARNING

You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is installed before running fireplace.

#### **NOTICE**

During initial operation of new fireplace, burning logs will give off a paper-burning smell. Orange flame will also be present. Open window to vent smell. Operate fireplace on HI position to burn off odor. This will only last a few hours.

- 1. STOP! Read the safety information on page 23.
- 2. Make sure manual shutoff valve is fully open.
- 3. Turn control knob clockwise \( \) to the OFF position.

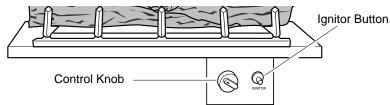


Figure 29 - Control Knob and Ignitor Button Location

- 4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.
- 5. Slightly depress and turn control knob counterclockwise to the PILOT position. Press in control knob for five (5) seconds (see Figure 29, above).

**Note:** If running fireplace for first time, there will be air in gas line. You may need to press in control knob for 30 seconds or longer. This will allow air to bleed from the gas system.

6. Continue pressing control knob in. Press and release ignitor button. This will light pilot. The pilot is attached to the front burner. If needed, keep pressing ignitor button until pilot lights.

**Note:** If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure*, page 25.

7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

*Note:* If pilot goes out, repeat steps 3 through 7.

• If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.

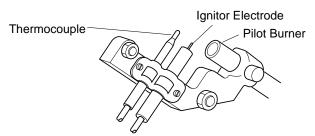


Figure 30 - Pilot

8. Slightly depress and turn control knob counterclockwise / to the HIGH position. Both burners should light. Set control knob to either HIGH or LOW.

Manually-Controlled Models Continued

#### **VARIABLE CONTROL OPERATION**

The variable control valve can be set to any heat setting and flame height desired, by simply turning the control knob until that setting is attained. Even the lowest setting provides realistic flames and glowing embers from two burners. Selecting higher settings produces greater heat output. This results in increased heating comfort.

#### **A** WARNING

Do not operate heater between locked positions.

#### **A** CAUTION

Do not try to adjust heating levels by using the manual shutoff valve.

#### TO TURN OFF GAS TO APPLIANCE

#### **Shutting Off Fireplace**

- 1. Turn control knob clockwise \_\_\_\_\_ to the HIGH position.
- 2. Slightly depress control knob and turn clockwise \( \) to the PILOT position.
- 3. Slightly depress control knob and turn clockwise to the OFF position.

#### **Shutting Off Burners Only (pilot stays lit)**

- 1. Turn control knob clockwise \_\_\_\_\_ to the HIGH position.
- 2. Press in and turn clockwise to the PILOT position.

#### MANUAL LIGHTING PROCEDURE

- 1. Follow steps 1 through 5 under Lighting Instructions, page 24.
- 2. Depress control knob and light pilot with match.
- 3. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow step 8, above.

#### OPERATING FIREPLACE All Models

#### **BLOWER OPERATION**

#### **WARNING**

This fireplace has a three-prong, grounded electrical plug. This plug helps protect you against electrical shock. Only connect plug to a properly grounded, three-prong receptacle. Do not cut or remove the grounding prong from this plug.

Locate the blower switch by opening lower louver on fireplace. Blower switch is located at lower left inside louver door.

Thermostat-controlled blowers have three settings: ON, OFF, and AUTO. In the ON position, the blower will operate constantly. In the OFF position, the blower will not operate. In the AUTO position, the blower will start when the thermostat senses a sufficient increase in firebox temperature.

**Note:** Your gas logs and thermostat blower will not turn on and off at the same time. The fireplace may run for several minutes before the blower turns on. After the heater modulates to the pilot position, the blower will continue to run. The blower will shut off after the firebox temperature decreases.

*Note:* It is safe to operate fireplace with blower turned off. However, the blower helps distribute heated air from the fireplace.

Manual blowers on manually-controlled models have an ON and OFF position.

#### INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

#### **PILOT FLAME PATTERN**

Figure 31 shows a correct pilot flame pattern. Figure 32 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the fireplace will shut down.

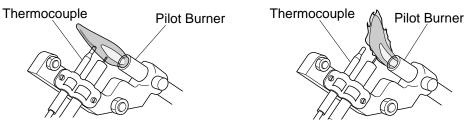


Figure 31 - Correct Pilot Flame Pattern

Figure 32 - Incorrect Pilot Flame Pattern

If pilot flame pattern is incorrect, as shown in Figure 32

- turn fireplace off (see *To Turn Off Gas to Appliance*, page 23 [Thermostat-controlled models] or page 25 [Manually-controlled models])
- see Troubleshooting, pages 27 through 30

#### FRONT BURNER FLAME PATTERN

Figure 33 shows correct front burner flame pattern. Figure 34 shows incorrect front burner flame pattern. The incorrect burner flame pattern shows yellow tipping at top of blue flame.

#### **A** WARNING

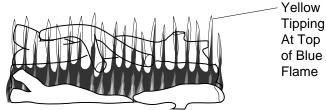
If front burner flame pattern shows yellow tipping, your fireplace could produce increased levels of carbon monoxide. Follow instructions at bottom of this page. Yellow flame on rear burner is normal.

#### NOTICE

Do not mistake orange flames with yellow tipping. Dirt or other fine particles are burned by fireplace, causing brief patches of orange flame.



Figure 33 - Correct Front Burner Flame Pattern



INCORRECT FLAME PATTERN AT HIGH POSITION
Figure 34 - Incorrect Front Burner Flame Pattern

If front burner flame pattern is incorrect, as shown in Figure 34

- turn fireplace off (see *To Turn Off Gas to Appliance*, page 23 [Thermostat-controlled models] or page 25 [Manually-controlled models])
- see *Troubleshooting*, pages 27 through 30

#### CLEANING AND MAINTENANCE

#### **A** WARNING

Turn off fireplace and let cool before cleaning.

#### **A** CAUTION

You must keep control areas, burners, and circulating air passageways of fireplace clean. Inspect these areas of fireplace before each use. Have fireplace inspected yearly by a qualified service person. Fireplace may need more frequent cleaning due to excessive lint from carpeting, bedding material, etc.

#### **ODS/PILOT AND BURNERS**

• Use a vacuum cleaner or small, soft bristled brush to clean.

#### LOGS

- If you remove logs for cleaning, refer to *Installing Logs*, pages 20 and 21, to properly replace logs.
- Replace log(s) if broken or chipped (dime-sized or larger).

#### TROUBLE-SHOOTING

*Note:* All troubleshooting items are listed in order of operation.

#### **A** WARNING

Turn off fireplace and let cool before servicing. Only a qualified service person should service and repair fireplace.

#### **A** CAUTION

Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

| OBSERVED<br>PROBLEM                         | POSSIBLE<br>CAUSE                                     | REMEDY   |
|---|---|--|
| When ignitor button is pressed, there is no | Ignitor electrode not con-<br>nected to ignitor cable | 1. Reconnect ignitor cable   |
| spark at ODS/pilot                          | 2. Piezo ignitor nut is loose                         | 2. Tighten nut holding piezo ignitor to base panel of log set. Nut is located behind base panel. |
|   | 3. Ignitor cable pinched or wet                       | 3. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry                  |
|   | 4. Broken ignitor cable                               | 4. Replace ignitor cable   |
|   | 5. Bad piezo ignitor                                  | 5. Replace piezo ignitor   |
|   | 6. Ignitor electrode broken                           | <ol><li>Replace ignitor</li></ol>  |
|   | 7. Ignitor electrode positioned wrong                 | 7. Replace ignitor   |
|   |   |  |

#### TROUBLE-SHOOTING

Continued

#### OBSERVED POSSIBLE PROBLEM CAUSE

When ignitor button is pressed, there is spark at ODS/pilot but no ignition

- Gas supply turned off or manual shutoff valve closed
- 2. Control knob not in PILOT position
- Control knob not pressed in while in PILOT position
- 4. Air in gas lines when installed
- 5. ODS/pilot is clogged
- 6. Gas regulator setting is not correct

- REMEDY
- Turn on gas supply or open manual shutoff valve
- 2. Turn control knob to PILOT position
- 3. Press in control knob while in PILOT position
- 4. Continue holding down control knob. Repeat igniting operation until air is removed
- 5. Clean ODS/pilot (see *Cleaning and Mainte-nance*, page 27) or replace ODS/pilot assembly
- 6. Replace gas regulator

ODS/pilot lights but flame goes out when control knob is released

- 1. Control knob not fully pressed in
- 2. Control knob not pressed in long enough
- 3. Manual shutoff valve not fully open
- 4. Thermocouple connection loose at control valve
- 5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:
  - A) Low gas pressure
    B) Dirty or partially clogged ODS/pilot
- 6. Thermocouple damaged
- 7. Control valve damaged
- 8. On thermostat models, safety interlock system has been triggered

- 1. Press in control knob fully
- 2. After ODS/pilot lights, keep control knob pressed in 30 seconds
- 3. Fully open manual shutoff valve
- 4. Hand tighten until snug, then tighten 1/4 turn more
- 5. A) Contact local natural gas company
  - B) Clean ODS/pilot (see *Cleaning and Mainte-nance*, page 27) or replace ODS/pilot assembly
- 6. Replace thermocouple
- 7. Replace control valve
- 8. Wait one minute for safety interlock system to reset. Repeat ignition operation

#### **TROUBLE-SHOOTING**

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Continued

| OBSERVED<br>PROBLEM  | POSSIBLE<br>CAUSE  | REMEDY   |
|--|--|--|
| One or both burners do<br>not light after ODS/<br>pilot is lit | <ol> <li>Burner orifice(s) clogged</li> <li>Burner orifice(s)</li> </ol>   | Clean burner(s) (see     Cleaning and Mainte-     nance, page 27) or replace     burner orifice(s)      Replace burner orifice(s)  |
|  | diameter is too small 3. Inlet gas pressure is too low 4. Mislocated crossover tube                                    | <ul><li>3. Contact local propane gas company</li><li>4. Contact qualified service person</li></ul>   |
| Delayed ignition of one or both burners                        | <ol> <li>Manifold pressure is too low</li> <li>Burner orifice(s) clogged</li> <li>Mislocated crossover tube</li> </ol> | <ol> <li>Contact local propane gas company</li> <li>Clean burner(s) (see Cleaning and Maintenance, page 27) or replace burner orifice(s)</li> <li>Contact qualified service person</li> </ol>  |
| Burner backfiring during combustion                            | <ol> <li>Burner orifice is clogged or damaged</li> <li>Damaged burner</li> <li>Gas regulator defective</li> </ol>      | Clean burner (see <i>Cleaning and Maintenance</i> , page 27) or replace burner orifice     Replace damaged burner     Replace gas regulator  |
| Yellow flame in front<br>burner during burner<br>combustion    | Not enough air     Gas regulator defective   | 1. Check burner(s) for dirt and debris. If found, clean burner(s) (see <i>Cleaning and Maintenance</i> , page 27) 2. Replace gas regulator   |
| Slight smoke or odor during initial operation                  | Residues from manufacturing processes and logs curing  | Problem will stop after a few hours of operation   |
| Fireplace produces a whistling noise when burners are lit      | <ol> <li>Turning control knob<br/>to HI position when<br/>burners are cold</li> <li>Air in gas line</li> </ol>         | <ol> <li>Turn control knob to LO position and let warm up for a minute</li> <li>Operate burners until air is removed from line. Have gas line checked by local propage gas company.</li> </ol> |
|  | <ul><li>3. Air passageways on fireplace blocked</li><li>4. Dirty or partially clogged burner orifice(s)</li></ul>      | propane gas company 3. Observe minimum installation clearances (see page 11) 4. Clean burners (see Cleaning and Mainte- nance, page 27) or replace burner orifice(s)                           |
| Moisture/condensation<br>noticed on windows                    | Not enough combustion/ventilation air  | 1. Refer to Air for Combustion and Ventilation requirements (page 5)  Continued  |

#### TROUBLE-SHOOTING

Continued

#### **A** WARNING

If you smell gas

- Shut off gas supply.
- 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 neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

*IMPORTANT:* Operating fireplace where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

| OBSERVED<br>PROBLEM  | POSSIBLE<br>CAUSE   | REMEDY   |
|--|---|--|
| Fireplace produces a clicking/ticking noise just after burners are lit or shut off | Metal expanding while<br>heating or contracting<br>while cooling  | 1. This is common with most fireplaces. If noise is excessive, contact qualified service person                |
| Fireplace produces unwanted odors  | 1. Fireplace burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See <i>IMPORTANT</i> statement above) | Open window and ventilate room. Stop using odor causing products while fireplace is running                    |
|  | 2. Gas leak. See Warning statement above  | 2. Locate and correct all leaks (see <i>Checking Gas Connections</i> , page 18)                                |
| Fireplace shuts off in use (ODS operates)  | <ol> <li>Not enough fresh air is<br/>available</li> <li>Low line pressure</li> </ol>  | <ol> <li>Open window and/or door<br/>for ventilation</li> <li>Contact local natural gas<br/>company</li> </ol> |
|  | 3. ODS/pilot is partially clogged   | 3. Clean ODS/pilot (see <i>Cleaning and Mainte-nance</i> , page 27)  |
| Gas odor even when control knob is in OFF position                                 | Gas leak. See Warn-<br>ing statement above  | 1. Locate and correct all leaks (see <i>Checking Gas Connections</i> , page 18)                                |
| position   | 2. Control valve defective  | 2. Replace control valve   |
| Gas odor during combustion   | Foreign matter be-<br>tween control valve<br>and burner   | Take apart gas tubing and remove foreign matter  |
|  | 2. Gas leak. See Warning statement above  | 2. Locate and correct all leaks (see <i>Checking Gas Connections</i> , page 18)                                |
| Moisture/condensation noticed on windows   | 1. Not enough combustion/ventilation air  | 1. Refer to Air for Combustion and Ventilation requirements (page 6)   |

# TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact DESA International's Technical Service Department at 1-800-DESA LOG (1-800-337-2564).

#### SERVICE HINTS

#### When gas pressure is too low

- pilot will not stay lit
- burners will have delayed ignition
- fireplace will not produce specified heat

#### When gas quality is bad

- pilot will not stay lit
- burners will produce flames and soot
- fireplace will backfire when lit

You may feel your gas pressure is too low or gas quality is bad. If so, contact your local natural gas supplier.

### REPLACEMENT PARTS

*Note:* Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

#### **Parts Under Warranty**

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA International's Technical Service Department at 1-800-DESA LOG (1-800-337-2564).

When calling DESA International, have ready

- your name
- your address
- model number of your fireplace
- how fireplace was malfunctioning
- type of gas used (propane or natural gas)
- purchase date

Usually, we will ask you to return the defective part to the factory.

#### **Parts Not Under Warranty**

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA International's Parts Department at 1-800-972-7879 for information.

When calling DESA International, have ready

- model number of your fireplace
- the replacement part number

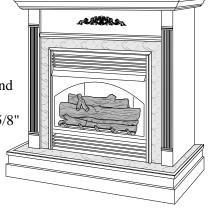
#### **ACCESSORIES**

Purchase these fireplace accessories from your local dealer. If they can not supply these accessories, call DESA International's Sales Department at 1-800-432-2382 for information. You can also write to the address listed on the back page of this manual.

# CABINET MANTEL GM100F - Walnut Finished GM101U - Unfinished

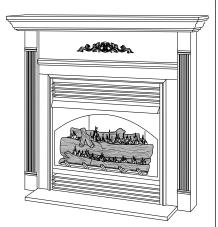
Shown with optional base and laminate hearth and mantel trim accessories.

Dimensions (WxHxD): 56-3/4" x 48-3/4" x 20-5/8"



#### FACE MANTEL GM400F - Walnut Finished GM401U - Unfinished

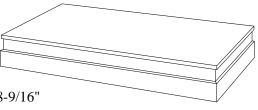
Shown with optional slim base. Dimensions (WxHxD): 56-3/4" x 48-3/4" x 7"



#### HARDWOOD HEARTH BASE G3000F- Walnut Finished G3001U - Unfinished

The hearth base creates a handsome riser for the fireplace (cannot be used with corner mantel or face mantel).

Dimensions (WxHxD): 58" x 6-1/2" x 28-9/16"



#### **SLIM HEARTH BASE**

**G3005J - Jade Marble Laminate** 

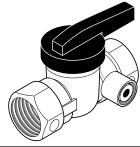
**G3005S - Sandstone Marble Laminate** 

G3005B - Black Onyx Marble Laminate

The slim hearth base allows you to further customize your fireplace. Dimensions (WxHxD): 41-7/8" x 5/8" x 10"

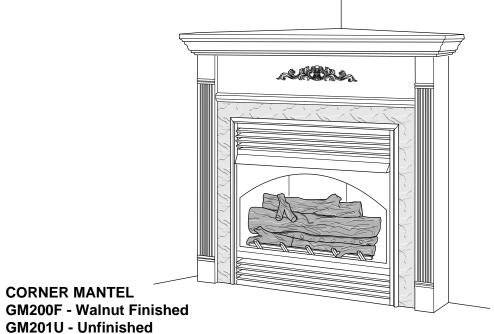
#### MANUAL SHUTOFF VALVE - GA5010

For all models. Manual shutoff valve with 1/8" NPT tap. Fits 1/2" NPT pipe.



#### **ACCESSORIES**

Continued



Shown with optional laminate mantel trim accessory. Dimensions (WxHxD): 60-7/8" x 48-3/4" x 34-5/8"



#### LAMINATE TRIM FOR HEARTH OR MANTEL

G3002J - Jade Marble Laminate Mantel Trim

G3003J - Jade Marble Laminate Hearth Base Trim

**G3002S - Sandstone Marble Laminate Mantel Trim** 

**G3003S - Sandstone Marble Laminate Hearth Base Trim** 

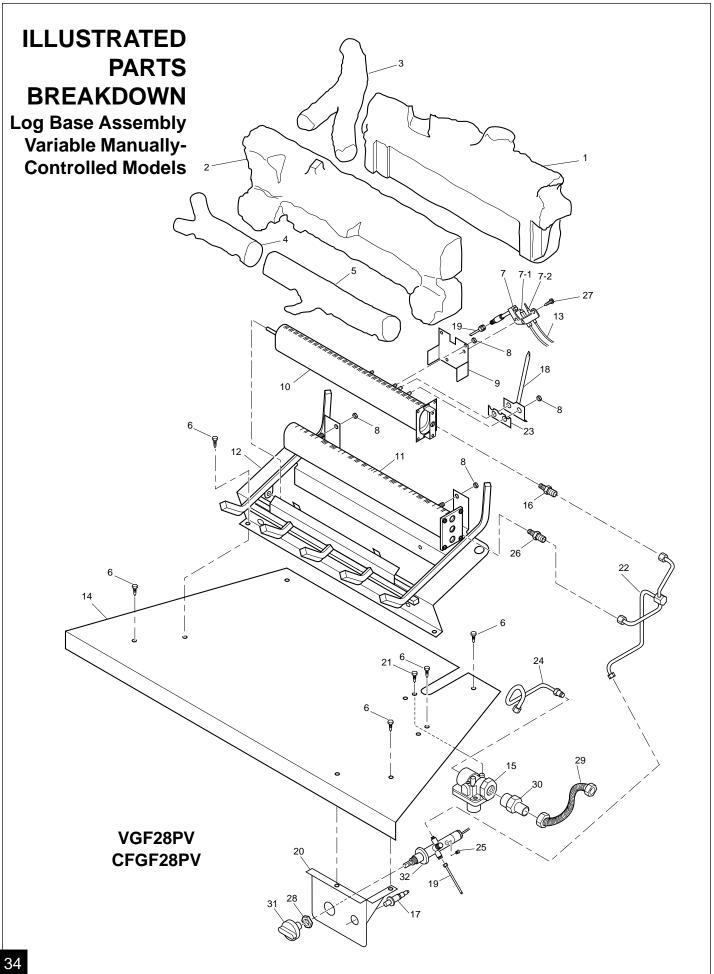
G3002B - Black Onyx Marble Laminate Trim

G3003B - Black Onyx Marble Laminate Hearth Base Trim

Mantel trim for cabinet, face, or corner mantel. Hearth base trim for hardwood hearth bases.

#### **FIREBOX BRICK LINER - G8000**

Ceramic fiber firebox liner adds the look of real brick.



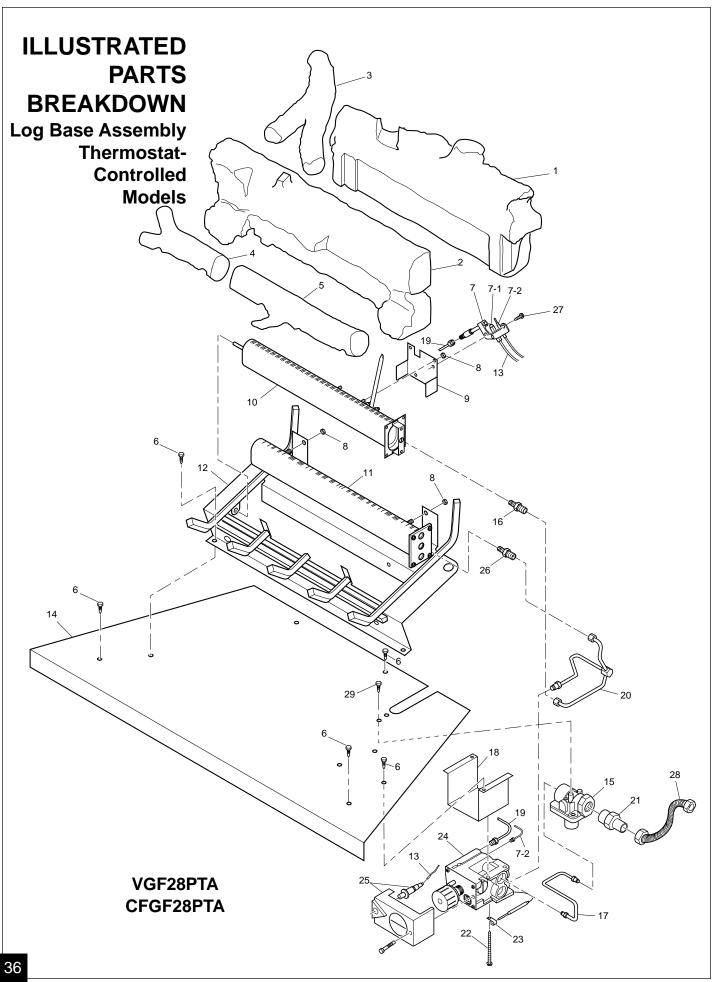
#### **PARTS LIST**

# Log Base Assembly Variable Manually-Controlled Models

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 31 of this manual.

#### VGF28PV CFGF28PV

| KEY |             |                             |      |
|-----|-------------|-----------------------------|------|
| NO. | PART NUMBER | DESCRIPTION                 | QTY. |
| 1   | 101337-02   | Rear Log (#1)               | 1    |
| 2   | 101336-02   | Front Log (#2)              | 1    |
| 3   | 101335-01   | Crossover Log (#3)          | 1    |
| 4   | 101332-01   | Left Front Branch (#4)      | 1    |
| 5   | 101333-01   | Right Front Branch (#5)     | 1    |
| 6   | 098304-01   | Screw, #10 Phillips, Black  | 8    |
| 7   | 099059-02   | O.D.S. Pilot                | 1    |
| 7-1 | 098594-01   | Ignitor                     | 1    |
| 7-2 | 098593-01   | Thermocouple                | 1    |
| 8   | 098249-01   | Nut                         | 6    |
| 9   | 101006-01   | Pilot Bracket               | 1    |
| 10  | 100998-02   | Front Burner                | 1    |
| 11  | 100999-02   | Rear Burner Assembly        | 1    |
| 12  | 102256-04BR | Base Assembly               | 1    |
| 13  | 098271-06   | Ignitor Cable               | 1    |
| 14  | 101924-01CB | Firebox Bottom              | 1    |
| 15  | 098867-10   | Gas Regulator               | 1    |
| 16  | 101004-01   | Front Burner Injector       | 1    |
| 17  | 097159-02   | Piezo Ignitor               | 1    |
| 18  | 101007-01   | Crossover Tube              | 1    |
| 19  | 099387-05   | Pilot Tube                  | 1    |
| 20  | 101972-01   | Valve and Piezo Bracket     | 1    |
| 21  | M11084-38   | Regulator Hex Screw         | 2    |
| 22  | 102668-01   | Front Burner Tube           | 1    |
| 23  | 101008-01   | Gasket                      | 1    |
| 24  | 101973-01   | Inlet Tube                  | 1    |
| 25  | 098276-01   | 1/8" Plug                   | 1    |
| 26  | 101004-10   | Rear Burner Injector        | 1    |
| 27  | M11084-26   | Hex Screw, #10              | 2    |
| 28  | 098508-01   | Valve Retainer Nut          | 1    |
| 29  | 101628-01   | Flex Hose                   | 1    |
| 30  | 097809-02   | Adapter                     | 1    |
| 31  | 098354-01   | Control Knob                | 1    |
| 32  | 102568-02   | Control Valve               | 1    |
|     | PARTS AV    | AILABLE — NOT SHOWN         |      |
|     | 100563-01   | Warning Plate               | 1    |
|     | 101055-02   | Lighting Instructions Plate | 1    |
|     | 100565-01   | Warning Plate Fastener      | 1    |
|     | 101416-15   | Information Video           | 1    |
|     | 101976-02   | Control Position Decal      | 1    |
|     |             |                             |      |



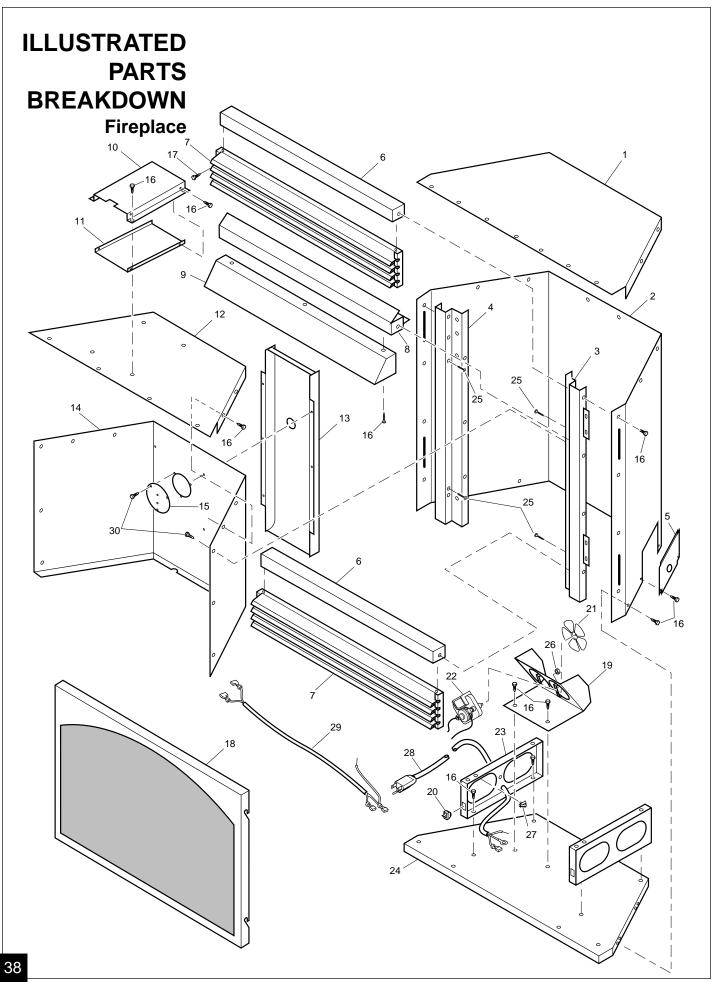
#### **PARTS LIST**

#### Log Base Assembly Thermostat-Controlled Models

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 31 of this manual.

#### VGF28PTA CFGF28PTA

| KEY |             |                               |      |
|-----|-------------|-------------------------------|------|
| NO. | PART NUMBER | DESCRIPTION                   | QTY. |
| 1   | 101337-02   | Rear Log (#1)                 | 1    |
| 2   | 101336-02   | Front Log (#2)                | 1    |
| 3   | 101335-01   | Crossover Log (#3)            | 1    |
| 4   | 101332-01   | Left Front Branch (#4)        | 1    |
| 5   | 101333-01   | Right Front Branch (#5)       | 1    |
| 6   | 098304-01   | Screw, #10 Phillips, Black    | 8    |
| 7   | 099059-02   | O.D.S. Pilot                  | 1    |
| 7-1 | 098594-01   | Ignitor                       | 1    |
| 7-2 | 098593-01   | Thermocouple                  | 1    |
| 8   | 098249-01   | Nut                           | 4    |
| 9   | 101006-01   | Pilot Bracket                 | 1    |
| 10  | 101330-02   | Front Burner Assembly         | 1    |
| 11  | 100999-02   | Rear Burner Assembly          | 1    |
| 12  | 101392-02BR | Base Assembly                 | 1    |
| 13  | 098271-06   | Ignitor Cable                 | 1    |
| 14  | 101924-01CB | Firebox Bottom                | 1    |
| 15  | 098867-10   | Gas Regulator                 | 1    |
| 16  | 101004-01   | Front Burner Injector         | 1    |
| 17  | 102845-01   | Inlet Tube                    | 1    |
| 18  | 101382-01   | Thermovalve Bracket           | 1    |
| 19  | 099387-03   | Pilot Tube                    | 1    |
| 20  | 102846-01   | Burner Tube                   | 1    |
| 21  | 097809-02   | Adapter                       | 1    |
| 22  | 099211-01   | Screw                         | 2    |
| 23  | 098544-01   | Thermostat Clamp              | 1    |
| 24  | 101329-18   | Thermostat Gas Valve Assembly | 1    |
| 25  | 101381-01   | Cover and Piezo               | 1    |
| 26  | 101004-10   | Rear Burner Injector          | 1    |
| 27  | M11084-26   | Hex Screw, #10                | 2    |
| 28  | 101628-01   | Flex Hose                     | 1    |
| 29  | M11084-38   | Screw                         | 2    |
|     | PARTS AVA   | AILABLE — NOT SHOWN           |      |
|     | 100563-01   | Warning Plate                 | 1    |
|     | 101054-01   | Lighting Instructions Plate   | 1    |
|     | 100565-01   | Warning Plate Fastener        | 1    |
|     | 101416-15   | Information Video             | 1    |



# PARTS LIST Fireplace

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 31 of this manual.

#### VGF28PV/CFGF28PV VGF28PTA/CFGF28PTA

| KEY |             |                                   |      |
|-----|-------------|-----------------------------------|------|
| NO. | PART NUMBER | DESCRIPTION                       | QTY. |
| 1   | 101357-01   | Top Outer Casing                  | 1    |
| 2   | 101373-01   | Outer Casing                      | 1    |
| 3   | 102806-01CB | Right Front Side                  | 1    |
| 4   | 102805-01CB | Left Front Side                   | 1    |
| 5   | 101368-01   | Access Door                       | 2    |
| 6   | 101352-01CB | Top Front                         | 2    |
| 7   | 102455-01   | Louver Assembly                   | 2    |
| 8   | 101354-01CB | Middle Front                      | 1    |
| 9   | 101712-01   | Firebox Hood                      | 1    |
| 10  | 101403-01   | Top Duct                          | 1    |
| 11  | 101404-01   | Baffle                            | 1    |
| 12  | 101872-01   | Firebox Top                       | 1    |
| 13  | 101573-01   | Back Duct with Bushing            | 1    |
| 14  | 101375-03BR | Firebox Wrapper                   | 1    |
| 15  | 101614-01   | Limit Switch (thermal disk) Assy. | 1    |
| 16  | M11084-26   | Hex Screw, #10                    | 76   |
| 17  | 098304-03   | Phillips Pan Head Screw, #8       | 4    |
| 18  | 101727-01   | Screen Assembly                   | 1    |
| 19  | 101575-01   | Motor Housing Assembly            | 1    |
| 20  | 099998-01   | Fan Switch (Thermostat Models)    | 1    |
|     | 101886-01   | Fan Switch (Manual Models)        | 1    |
| 21  | 101379-01   | Fan                               | 2    |
| 22  | 101408-01   | Motor                             | 2    |
| 23  | 101348-01   | Firebox Support                   | 2    |
| 24  | 101347-01CB | Outer Base                        | 1    |
| 25  | 099230-01   | Shoulder Screw                    | 4    |
| 26  | 097384-02   | Hex Nut with Washer 8-32          | 2    |
| 27  | 099123-01   | Wire Clip                         | 4    |
| 28  | 098219-28   | Power Cord Assembly               | 1    |
| 29  | 101398-01   | Wire Harness (Thermostat Models)  | 1    |
|     | 102664-01   | Wire Harness (Manual Models)      | 1    |
| 30  | 098304-01   | Phillips Pan Head Screw, #10      | 9    |
|     | PARTS AVA   | AILABLE — NOT SHOWN               |      |
|     | 102753-01   | Brass Trim Kit                    | 1    |
|     | 101785-01   | Brass Trim Hardware               | 1    |
|     | 102032-01   | Louvered Door Hinge               | 2    |
|     | 099038-01   | Strain Relief Bushing             | 1    |
|     | 100639-01   | Caution Decal                     | 1    |
|     |             |                                   |      |

#### **SPECIFICATIONS**

Btu (Low/High) 20,000/28,000

Type Gas LP Gas Only

Ignition Piezo
Manifold Pressure 7.9" W.C.

Inlet Gas Pressure (in. of water)

Maximum 14"
Minimum 11"
Shipping Weight 92 lbs.

# WIRING DIAGRAMS

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

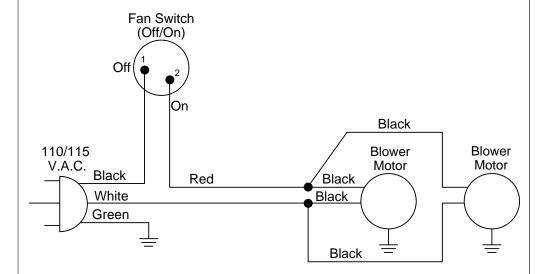


Figure 35 - Blower Wiring Diagram for Manually-Controlled Models

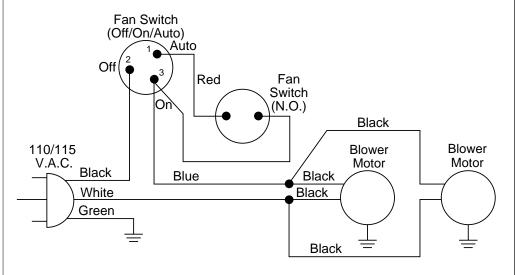


Figure 36 - Blower Wiring Diagram for Thermostat-Controlled Models

| NOTES |  |
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# **NOTES**

# **NOTES**

#### WARRANTY INFORMATION

#### **KEEP THIS WARRANTY**

| Model            |  |
|------------------|--|
| Serial No.       |  |
| Date Purchased — |  |

Always specify model and serial numbers when communicating with the factory.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

#### LIMITED WARRANTY VENT-FREE PROPANE GAS FIREPLACE

DESA International warrants this product to be free from defects in materials and components for three (3) years and five (5) years on stainless steel burners from the date of first purchase, provided that the product has been properly installed, operated and maintained in accordance with all applicable instructions. To make a claim under this warranty the Bill of Sale or cancelled check must be presented.

This warranty is extended only to the original retail purchaser. This warranty covers the cost of part(s) required to restore this heater to proper operating condition and an allowance for labor when provided by a DESA Authorized Service Center. Warranty part(s) MUST be obtained through authorized dealers of this product and/or DESA International who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater MUST be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit.

This warranty does not apply to parts that are not in original condition because of normal wear and tear, or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance or defects caused by improper installation. Travel, diagnostic cost, labor, transportation and any and all such other costs related to repairing a defective heater will be the responsibility of the owner.

TO THE FULL EXTENT ALLOWED BY THE LAW OF THE JURISDICTION THAT GOVERNS THE SALE OF THE PRODUCT; THIS EXPRESS WARRANTY EXCLUDES ANY AND ALL OTHER EXPRESSED WARRANTIES AND LIMITS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THREE (3) YEARS ON ALL COMPONENTS AND FIVE (5) YEARS ON STAINLESS STEEL BURNERS FROM THE DATE OF FIRST PURCHASE; AND DESA INTERNATIONAL'S LIABILITY IS HEREBY LIMITED TO THE PURCHASE PRICE OF THE PRODUCT AND DESA INTERNATIONAL SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES WHATSOEVER INCLUDING INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow a limitation on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation on implied warranties, or exclusion or limitation on damages may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For information about this warranty write:

**DESA**INTERNATIONAL

2701 Industrial Drive P.O. Box 90004 Bowling Green, KY 42102-9004

102667-01 Rev. C 4/96