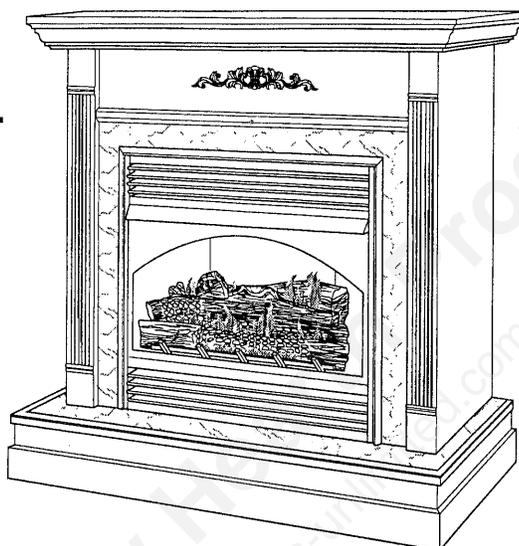


# DESA INTERNATIONAL UNVENTED (VENT-FREE) NATURAL GAS FIREPLACE

## OWNER'S OPERATION AND INSTALLATION MANUAL

**Variable Manually-  
Controlled "A"  
Models and  
Thermostatically-  
Controlled  
"C" Models  
with  
Split Oak Logs**



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 on page 4 of this manual.

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

**Save this manual for future reference.**

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS FIREPLACE

### SAFETY INFORMATION

#### 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.

** 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.

**Natural Gas:** Natural 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.

** 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. 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
3. This fireplace shall not be installed in a bedroom or bathroom.
4. Never install the fireplace
  - in a recreational vehicle
  - where curtains, furniture, clothing, or other flammable objects are less than 42 inches from the front, top, or sides of the fireplace
  - in high traffic areas
  - in windy or drafty areas
5. Do not use this fireplace as a wood-burning fireplace. Use only the logs provided with the fireplace.
6. 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.
7. You must operate this fireplace with the fireplace screen and hood in place. Make sure fireplace screen and hood are in place before running fireplace.
8. 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.
9. To prevent the creation of soot, follow the instructions in *Cleaning and Maintenance*, page 21.
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 flame patterns can cause sooting.
11. Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls or furniture.
12. Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.
13. 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 4 through 6. If fireplace keeps shutting off, see *Troubleshooting*, pages 22 through 24.
14. Do not run fireplace
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
15. Do not use this fireplace to cook food or burn paper or other objects.
16. Never place any objects in the fireplace or on logs.
17. 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 shutdown. Allow surfaces to cool before touching.
18. Carefully supervise young children when they are in the room with fireplace.
19. 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.
20. Do not operate fireplace if any log is broken. Do not operate fireplace if a log is chipped (dime-sized or larger).
21. Turn fireplace off and let cool before servicing. Only a qualified service person should service and repair fireplace.
22. Operating fireplace above elevations of 4,500 feet could cause pilot outage.

# OWNER'S MANUAL

## PRODUCT IDENTIFICATION

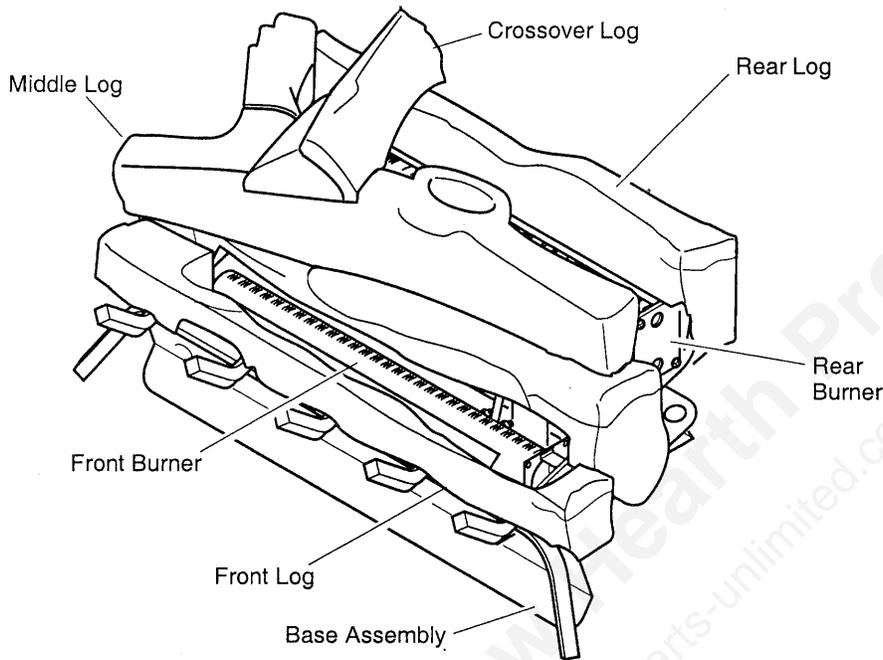


Figure 1 - Log Base Assembly, Split Oak Set

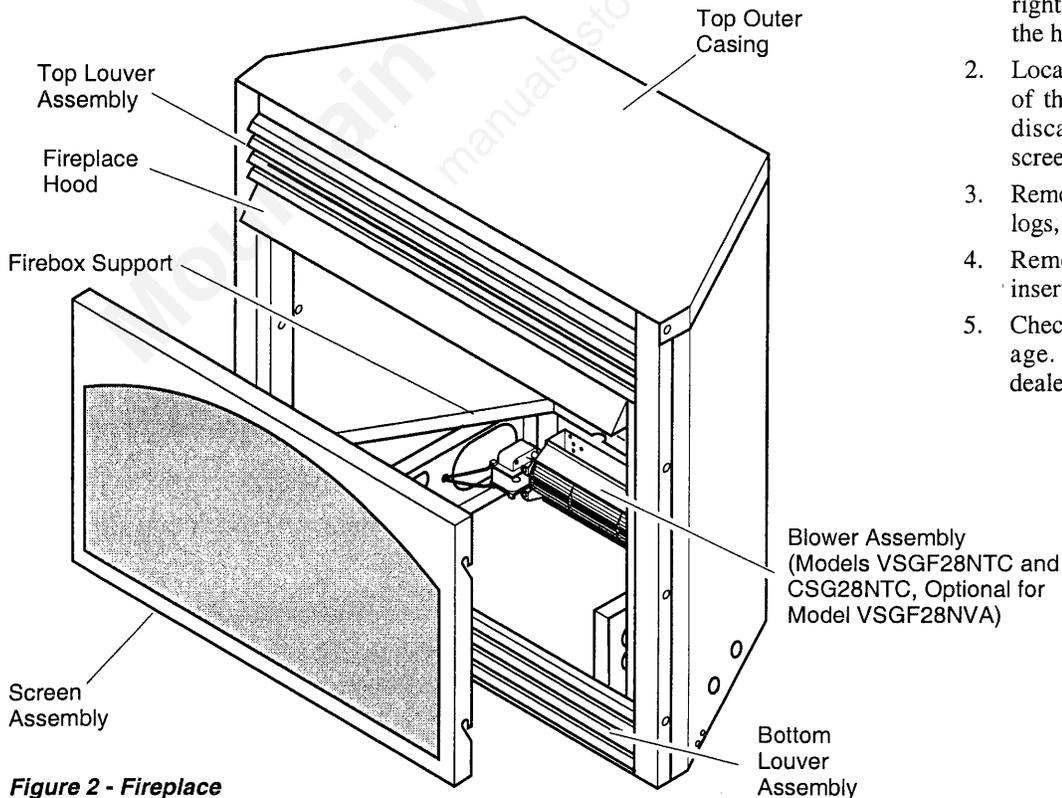


Figure 2 - Fireplace

## 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 ANS Z223.1*, 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

**⚠ WARNING:** Do not remove the metal data plates attached to the heater base assembly. The data plates contain important warranty information.

1. With utility knife, cut the carton all the way around above the staples on the bottom tray. Lift the carton off the heater. Remove packing. *Note:* The hood is located in the packing on the right hand side of the heater front. Lift the heater off the bottom tray.
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. Remove fireplace hood from carton insert.
5. Check all items for any shipping damage. If damaged, promptly inform dealer where you bought fireplace.

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS 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 backup 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 (VSGF28NTC/CSGF28NTC)

This fireplace has a blower assembly. The blower operates thermostatically. The blower circulates heated air from the fireplace into the room. Use of blower is optional. Optional blower accessories are available for model VSGF28NVA.

### THERMOSTAT CONTROL MODELS (VSGF28NTC/CSGF28NTC)

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 (VSGF28NVA)

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

**⚠ WARNING: This heater shall not be installed in a confined space or unusually tight construction 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 are excerpts from *National Fuel Gas Code. NFPA 54/ANS 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 Construction
2. Unconfined Space
3. Confined Space

The information on pages 4 through 6 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 ( $6 \times 10^{-11}$  kg per pa-sec- $m^2$ ) or less with openings gasketed or sealed and
- b. weather stripping has been added on openable windows and doors and
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See *Ventilation Air From Outdoors*, page 6.

If your home does not meet all of the three criteria above, proceed to *Determining Fresh-Air Flow for Fireplace Location* on page 5.

### Confined Space and Unconfined Space

*The National Fuel Gas Code (ANS Z223.1, 1992 Section 5.3)* defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8  $m^3$  per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8  $m^3$  per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed\*, through openings not furnished with doors, are considered a part of the unconfined space.

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

\* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

## AIR FOR COMBUSTION AND VENTILATION

*Continued*

### DETERMINING FRESH-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.

- Determine the volume of the space (length x width x height).

Length x Width x Height = \_\_\_\_\_ cu. ft. (volume of space)

*Example:* Space size 22 ft. (length) x 18 ft. (width) x 8 ft. (ceiling height) = 3168 cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

- Divide the space volume by 50 cubic feet to determine the maximum Btu/Hr the space can support.

\_\_\_\_\_ (volume of space) ÷ 50 cu. ft. = (Maximum Btu/Hr the space can support)

*Example:* 3168 cu. ft. (volume of space) ÷ 50 cu. ft. = 63.3 or 63,300 (maximum Btu/Hr the space can support)

- Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free fireplace \_\_\_\_\_ Btu/Hr

Gas water heater\* \_\_\_\_\_ Btu/Hr

Gas furnace \_\_\_\_\_ Btu/Hr

Vented gas heater \_\_\_\_\_ Btu/Hr

Gas fireplace logs \_\_\_\_\_ Btu/Hr

Other gas appliances\* + \_\_\_\_\_ Btu/Hr

Total = \_\_\_\_\_ Btu/Hr

*Example:*

Gas water heater                      40,000      Btu/Hr

Vent-free fireplace      +      28,000      Btu/Hr

Total                                      =      68,000      Btu/Hr

\* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

- Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

\_\_\_\_\_ Btu/Hr (maximum the space can support)

\_\_\_\_\_ Btu/Hr (actual amount of Btu/Hr used)

*Example:* 63,300 Btu/Hr (maximum the space can support)

68,000 Btu/Hr (actual amount of Btu/Hr used)

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:

- 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 6.
- Vent room directly to the outdoors. See *Ventilation Air from Outdoors*, page 6.
- 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.

**⚠ 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, ANS Z223.1, 1992, Section 5.3* or applicable local codes.

*Continued*

# DESA INTERNATIONAL UNVENTED NATURAL GAS FIREPLACE

## AIR FOR COMBUSTION AND VENTILATION

*Continued*

### 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/ANS Z223.1, Section 5.3, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

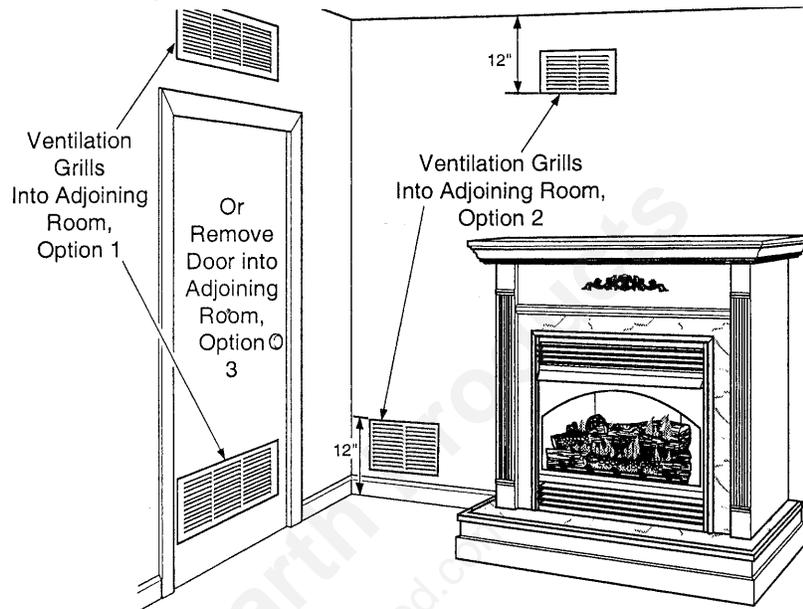


Figure 3 - Ventilation Air from Inside Building

**⚠ 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.

#### 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.

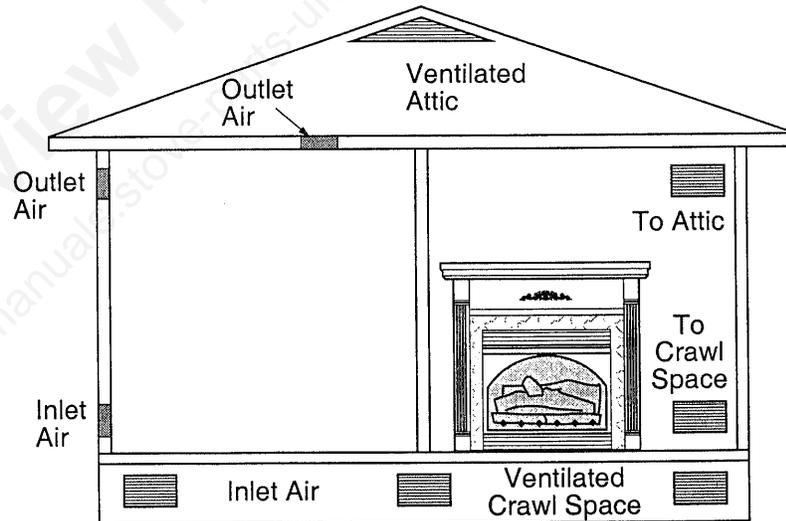


Figure 4 - Ventilation Air from Outdoors

# OWNER'S MANUAL

## INSTALLATION

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

**NOTICE:** This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

**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 42 inches from the front, top, or sides of the fireplace
- in high traffic areas
- in windy or drafty areas

**WARNING:** Models VSGF28NTC /CSGF28NTC have 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.

**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 (such as tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls.

*Note:* Your fireplace is designed to be used in zero clearance installations. Wall or framing material can be placed directly against any exterior surface on the rear, sides, or top of your fireplace, except where standoff spacers are integrally attached. If standoff spacers are attached to your fireplace, these spacers can be placed directly against wall or framing materials.

Use the dimensions shown for rough openings to create the easiest installation (see *Built-In Fireplace Installation*, page 13).

**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 4 through 6.

**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 (Models VSGF28NTC/ CSGF28NTC)

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. This same information applies if installing optional blower accessories to Model VSGF28NVA.

### INSTALLING HOOD

Install hood to rail already installed in fireplace as shown in Figure 5. Use 3 Phillips screws provided.

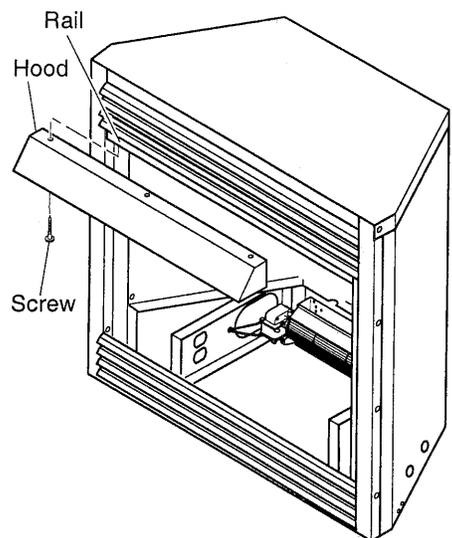


Figure 5 - Installing Hood

Continued

# DESA INTERNATIONAL UNVENTED NATURAL GAS FIREPLACE

## INSTALLATION

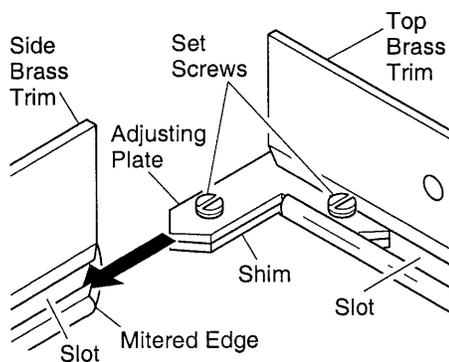
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### ASSEMBLING AND ATTACHING OPTIONAL BRASS TRIM (Included with Mantel Accessory)

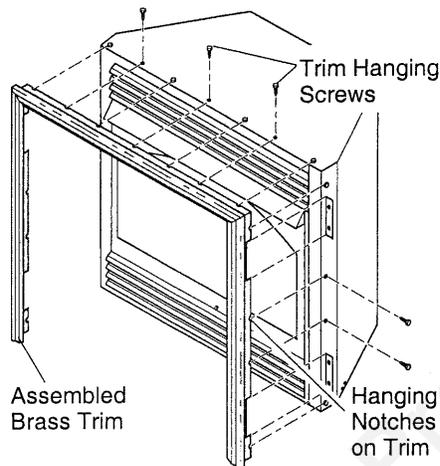
**IMPORTANT:** If you are recessing the firebox in a wall, do not attach brass trim at this time. See page 13.

**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 6.
4. Slide one end of adjusting plate/shim in slot on mitered edge of top brass trim (see Figure 6).
5. Slide other end of adjusting plate/shim in slot on mitered edge of side brass trim (see Figure 6).
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.
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 7). Push trim firmly into place, sliding hanging notches over hanging screws.



**Figure 6 - Assembling Brass Trim**



**Figure 7 - Attaching Brass Trim to Fireplace**

### INSTALLING OPTIONAL BLOWER ACCESSORY (FOR MODEL VSGF28NVA)

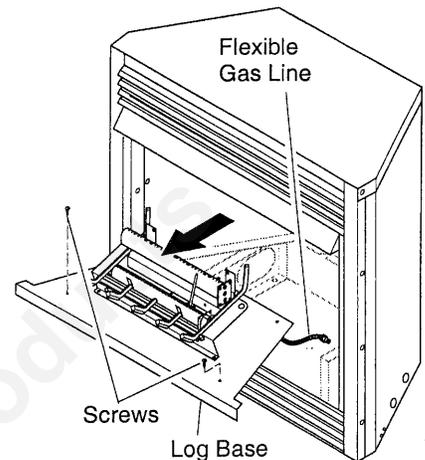
The following instructions are for optional blower accessories GA3700 and GA3700T. If you do not have this accessory and wish to purchase one, see *Accessories* on pages 26 and 27 of this manual.

#### Installing Optional GA3700 Blower Accessory

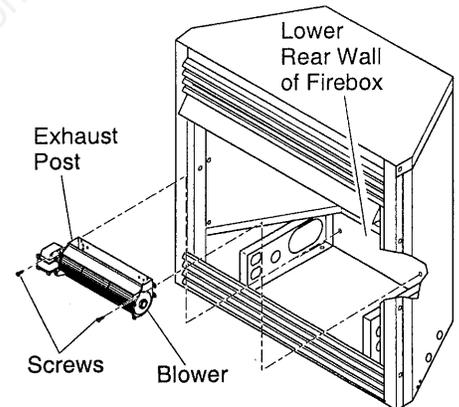
1. Remove screws that attach log base assembly to fireplace. Carefully lift up log base assembly and remove from fireplace, taking care to pull flexible gas line through the access holes (see Figure 8).

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

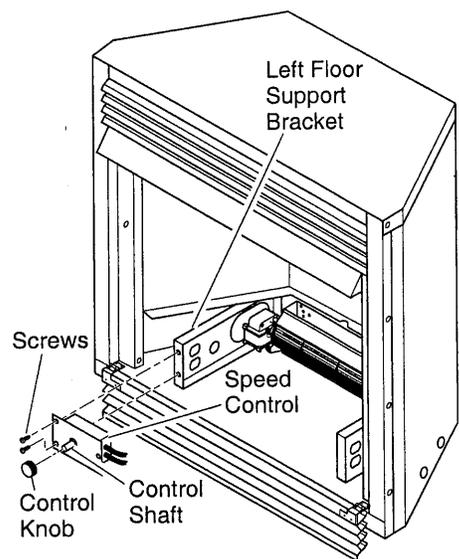
2. Place the blower against lower rear wall of firebox outer wrapper with the exhaust port directed upward. Align the holes in top mounting tabs of blower with holes in wall of wrapper (see Figure 9). Using 2 screws provided, mount blower and tighten screws securely.
3. Be certain that all wire terminals are securely attached to terminals on blower motor and that the screw retaining the green ground wire is tight.
4. Place control knob provided on plastic control shaft of speed control.
5. Mount the speed control on the front leg of the left floor support bracket using 2 screws provided (see Figure 10).



**Figure 8 - Removing Log Base from Fireplace**



**Figure 9 - Mounting Blower to Firebox**



**Figure 10 - Attaching Speed Control to Firebox**

## INSTALLATION Continued

6. Plug in blower power cord.
  - a. **If your fireplace system is installed as a freestanding unit with an accessory mantel**, determine whether the power cord will exit the left side or the right side of the firebox. Install 1 plastic bushing provided into the 1.5" hole in the floor support bracket on the exit side (see Figure 11). Install the second plastic bushing provided into the 1.5" hole in the outer casing through which the power cord will exit. Route power cord through both plastic bushings and plug the power cord into a properly grounded 3-prong wall receptacle near the firebox.
  - b. **If your fireplace system installation is recessed**, plug the power cord into a properly installed duplex outlet. (If an outlet is not available, the Vanguard accessory model GA3555 Outlet kit with/ cover can be installed in your fireplace which will supply a convenient 3-prong grounded electrical outlet for your blower. Refer to the installation manual provided with the model GA3555 accessory for instructions on wiring the duplex outlet.)

7. Check to make sure that the power cord is completely clear of the blower wheel and that there are no other foreign objects in blower wheel. Turn blower on and check for operation. Turn blower off by rotating knob fully counterclockwise before continuing.

**⚠ WARNING: Never touch the blower wheel while in operation.**

8. Peel off the backing paper and stick the supplied wiring diagram decal on the firebox bottom approximately 3" to the right of the blower speed control (Figure 12).

9. Replace log base assembly in fireplace. Feed flexible gas supply line into fireplace base area while replacing log base assembly. Make sure the entire flexible gas line is in fireplace base area.
 

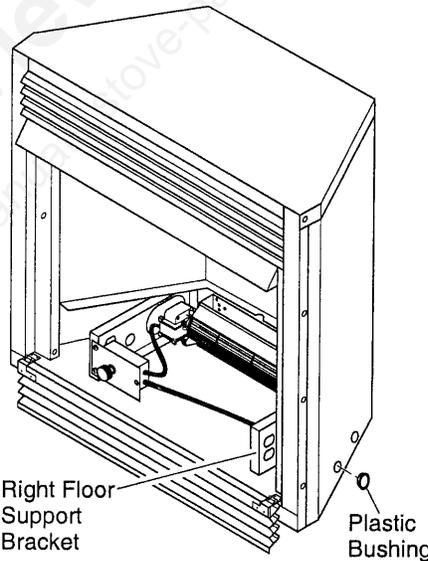
*Note:* If firebrick is installed, make sure the back of the firebox bottom slides under the rear panel of the firebrick. (lift the firebrick up if necessary.)

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

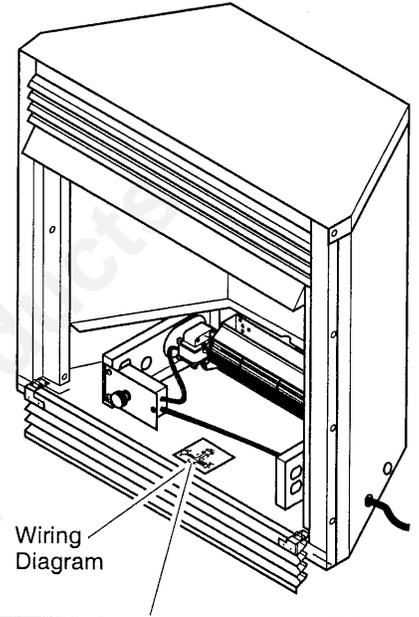
10. Reattach log base assembly to fireplace with screws removed in step 1 on page 8.

*Note:* Discard the remaining hardware items.

**⚠ WARNING: Failure to position the parts in accordance with supplied diagrams or failure to use only parts specifically approved with this heater may result in damage or personal injury.**



**Figure 11 - Installing Plastic Bushing for Power Cord**



**⚠ WARNING**

Never attempt to service heater while it is plugged in, operating, or hot. Burns and electrical shock could result. Only a qualified service person should service or repair heater.

If any of the original wire as supplied with the appliance must be replaced, it must be replaced with 105°C wire or it's equivalent.

120 Vac. 60 Hz. . 78 Amps  
DESA International, Bowling Green, KY 101584-05

**Figure 12 - Location of Wiring Diagram Decal 3" from Blower**

Continued

# DESA INTERNATIONAL UNVENTED NATURAL GAS FIREPLACE

## INSTALLATION

### Continued

#### Installing Optional GA3700T Blower Accessory

1. Remove screws that attach log base assembly to fireplace (do not discard). Carefully lift up log base assembly and remove from fireplace, taking care to pull flexible gas line through the access holes (see Figure 13).

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

2. Place the blower against lower rear wall of firebox outer wrapper with the exhaust port directed upward. Align the holes in top mounting tabs of blower with holes in wall of wrapper (see Figure 14). Using two #8 screws provided, mount blower and tighten screws firmly.
3. Route terminal end of power cord through large hole near top of left floor support bracket. Make sure to pass the cord from the outside (left side) towards the center of firebox (see Figure 15).
4. Using two #6 screws provided attach power cord mounting plate to the outside face of left floor support bracket. Drive screws from inside (right side) of floor support bracket. Attach the plate so that the power cord is directed towards rear of firebox (see Figure 15). Tighten screws firmly.
5. Remove the three screws (do not discard) and cover plate from center of firebox wrapper rear wall. Discard this cover plate.
6. Mount the supplied thermostatic switch and cover assembly into firebox wrapper rear wall. Do this by feeding terminal ends of wire harness into the hole. Allow wires to fall to bottom of firebox cavity (see Figure 16).
7. Using three screws from step 5, attach switch and cover assembly to firebox wrapper rear wall. Tighten screws firmly (see Figure 16).

8. Mount selector switch to front flange of left floor support bracket. Align graphics on switch upright and push firmly to snap switch into rectangular hole. Push the selector switch to the off (middle) position (see Figure 15).
9. Install three plastic wire clips provided into floor support bracket (see Figure 15). Secure by pushing clips firmly into holes.

**WARNING:** Failure to connect all wires properly as indicated may cause electrical short circuit or personal injury. A qualified electrician should check that all connections are made properly.

10. Attach green ground wire ring terminal to floor support bracket using #10 sheet metal grounding screw provided (see Figure 15). Tighten screw firmly.
11. Attach all five remaining wiring terminals to the appropriate switch or motor terminal. Carefully note the correct color coding (see Figures 17 and 19, page 11). Push female wire terminals fully onto male terminal.
12. Secure wires into the appropriate plastic wire clips (see Figure 17, page 11).

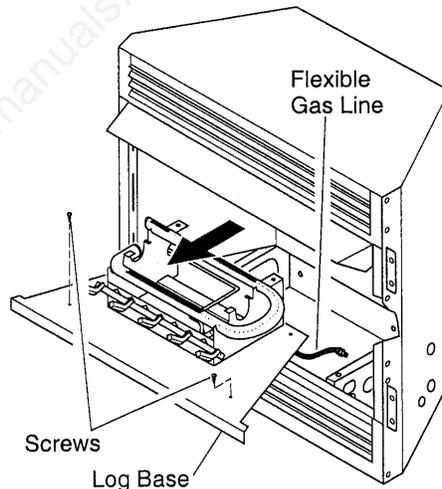


Figure 13 - Removing Log Base from Fireplace

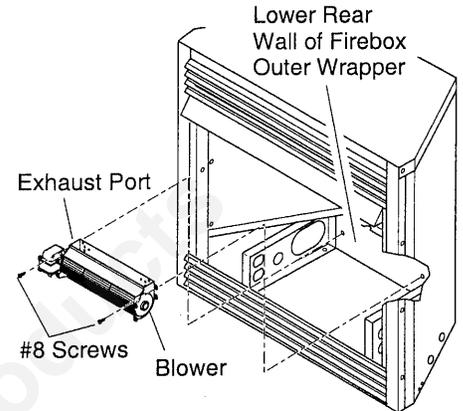


Figure 14 - Mounting Blower to Firebox

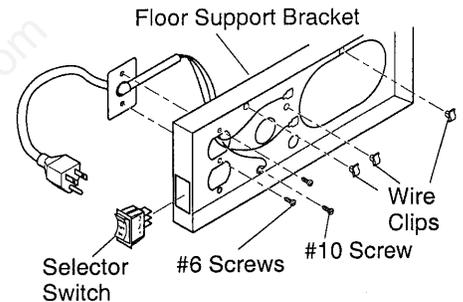


Figure 15 - Installing Power Cord, Mounting Plate, and Selector Switch

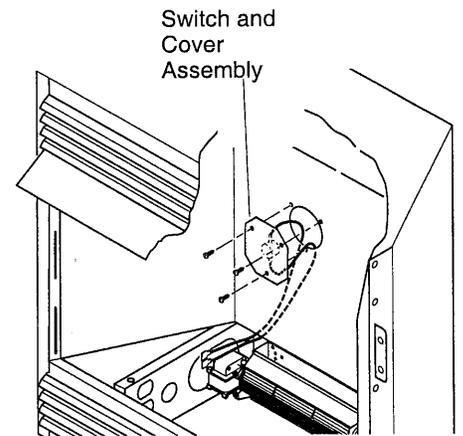


Figure 16 - Installing Switch and Cover Assembly

# OWNER'S MANUAL

## INSTALLATION

### Continued

13. Plug in blower power cord.

If your fireplace system is installed as a freestanding unit with an accessory mantel, install one plastic bushing (provided) into the 1.5" hole in the lower left side of the outer casing (see Figure 18). Route power cord through plastic bushing. Plug the power cord into a properly grounded three-prong wall receptacle near the firebox.

If your fireplace system installation is recessed, install one plastic bushing provided into the 1.5" hole near the middle of the left floor support bracket (see Figure 18). Route power cord through plastic bushing. Plug the power cord into a properly installed duplex outlet. (If an outlet is not available, the accessory model GA3555 Outlet Kit with cover can be installed in your fireplace. This will supply a convenient three-prong grounded electrical outlet for your blower. Refer to the installation manual provided with the model GA3555 accessory for instructions on wiring the duplex outlet.)

14. Check to make sure that the power cord and wires are completely clear of the blower wheel and that there are no other foreign objects in blower wheel. Turn blower on by pushing the selector switch to the on position and check for operation. Turn blower off before continuing.

**WARNING:** Never touch the blower wheel while in operation.

15. Peel off the backing paper and stick the supplied wiring diagram decal on the firebox bottom approximately 12" in front of blower.

*Note:* If any of the original wire as supplied with the appliance must be replaced, it must be replaced with 105°C wire or it's equivalent.

16. Replace log base assembly in fireplace. Feed flexible gas supply line into fireplace base area while replacing log base assembly. Make sure the entire flexible gas line is in fireplace base area.

*Note:* If firebrick is installed, make sure the back of the firebox bottom slides under the rear panel of the firebrick (lift the firebrick up if necessary).

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

17. Reattach log base assembly to fireplace with screws removed in step 1, page 10.

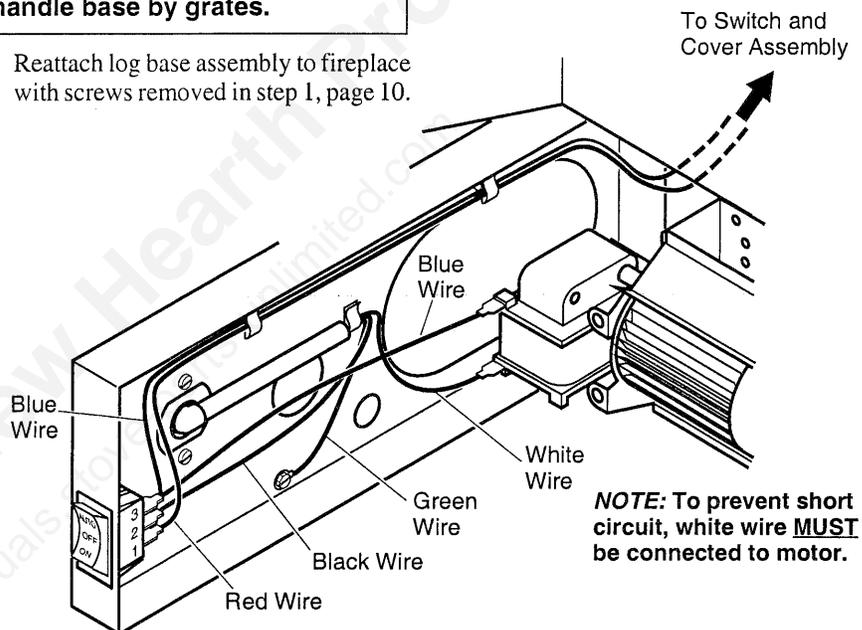


Figure 17 - Wire Attachment

**NOTE:** To prevent short circuit, white wire **MUST** be connected to motor.

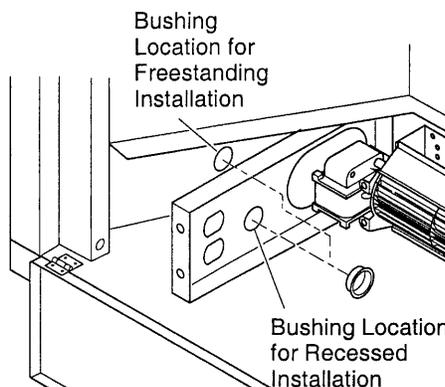


Figure 18 - Installing Bushings

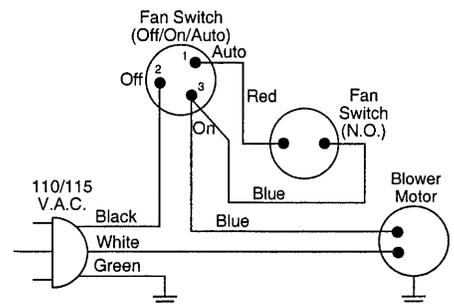


Figure 19 - Wiring Diagram

Continued

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS FIREPLACE

### INSTALLATION

*Continued*

#### INSTALLATION CLEARANCES

**⚠ 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 20)

- 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.
- Clearances from the top of the fireplace opening to the ceiling should not be less than 42 inches.

#### CONVENTIONAL FIREPLACE INSTALLATION

Conventional installation of this fireplace involves installing fireplace along with the corner or cabinet mantel with hearth base accessories against a wall in your home (see *Accessories*, page 26 and 27). Follow the instructions below to install the fireplace in this manner.

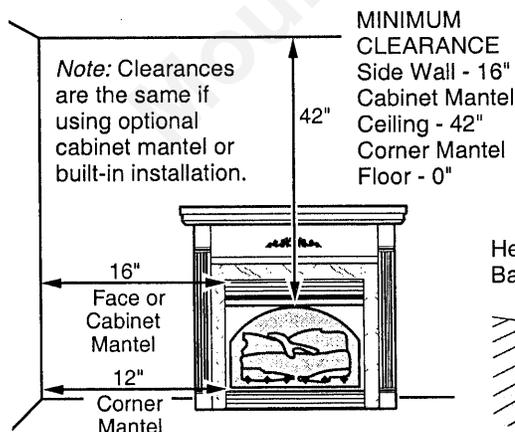


Figure 20 - Minimum Clearance to Wall and Ceiling

*Note:* The instructions below show installation using the cabinet mantel and the G3000F/G3001U/G3004W/G3006F/G3007U series 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 accessory cannot be installed with the G3000F/G3001U/G3004W/G3006F/G3007U hearth base. You must install corner mantel directly on the floor. If mounting fireplace and cabinet mantel to the floor or using corner mantel, an optional G3005 Slim Base kit may be installed.

- Assemble cabinet mantel, hearth base, and trim accessories. Assembly instructions are included with each accessory.
- When installing blower, 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 21).
- 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 14.
- 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 21). Make sure to locate access hole so cabinet mantel will cover it when installed.

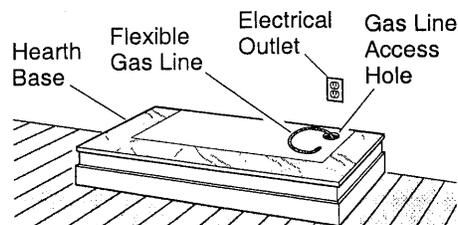


Figure 21 - Placing Hearth Base Accessory Against Wall

*Note:* You can secure base to floor using wood screws. Countersink screw heads and putty over.

- Route flexible gas line through access hole in hearth base.
- Center cabinet mantel on hearth base (see Figure 22). Make sure mantel is flush against wall.
- Break off nailing flanges (see Figure 23, page 13) with hammer or pliers.
- Place cardboard or other protective material on top of hearth base. Carefully set fireplace on protective material, with back of fireplace inside mantel opening.
- Attach flexible gas line to fireplace gas regulator. See *Connecting Fireplace to Gas Supply*, pages 14 and 15.
- If blower is installed, route blower electrical cord through access holes in either side of fireplace. *Note:* Bushing may be moved if necessary. Plug electrical cord into electrical outlet.
- Carefully insert fireplace into cabinet mantel (Figure 24, page 13). 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.
- Check all gas connections for leaks. See *Checking Gas Connections*, page 15.

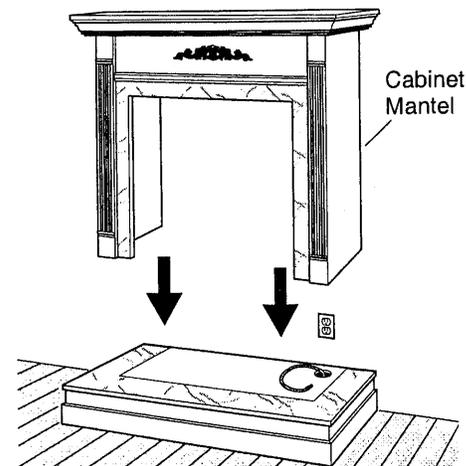


Figure 22 - Installing Cabinet Mantel

# OWNER'S MANUAL

## INSTALLATION

### Continued

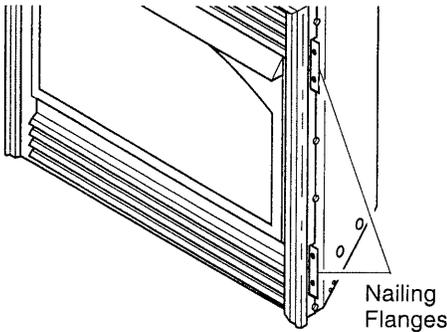


Figure 23 - Location of Nailing Flanges

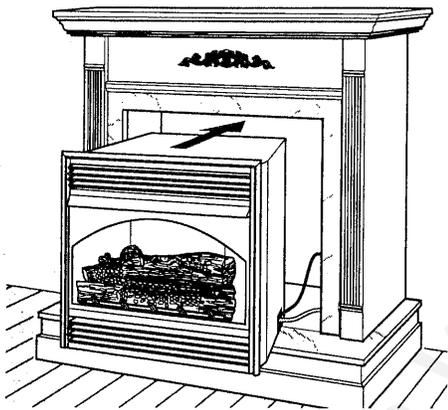


Figure 24 - Inserting Fireplace Into Cabinet Mantel

## 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 28. Follow the instructions below to install the fireplace in this manner.

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

1. Frame in rough opening. Use dimensions shown in Figure 25 for the rough opening.

If installing in a corner, use dimensions shown in Figure 26 for the rough opening. The height is 33" which is the same as the wall opening above.

2. If using blower, install and properly ground GA3555, three-prong 120 volt electrical outlet, in fireplace. Follow instructions included in kit.
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 14.
4. Carefully set fireplace in front of rough opening with back of fireplace inside wall opening.
5. Attach flexible gas line to gas supply. See *Connecting Fireplace to Gas Supply*, pages 14 and 15.
6. Plug electrical cord into electrical outlet installed in step 2.
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 27).
9. Check all gas connections for leaks. See *Checking Gas Connections*, page 15.
10. Install brass trim after final finishing and/or painting of wall (see Figure 7, page 8).

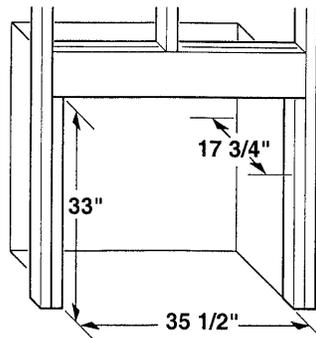


Figure 25 - Rough Opening for Installing in Wall

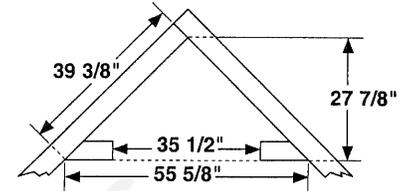


Figure 26 - Rough Opening for Installing in Corner

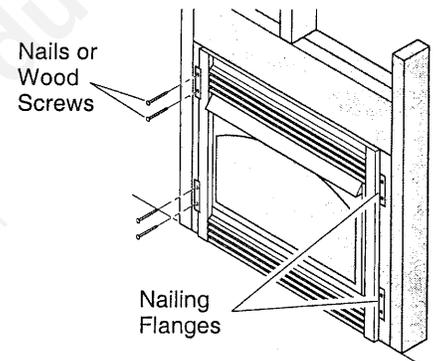


Figure 27 - Attaching Fireplace to Wall Studs

## 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.

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

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

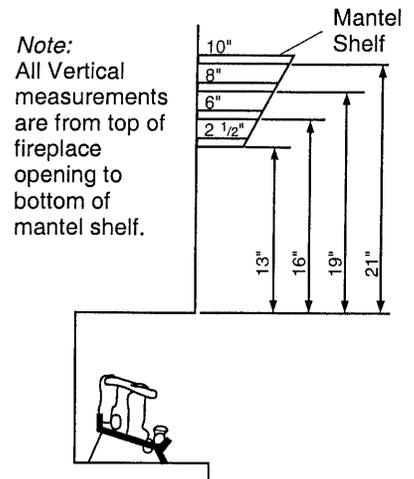


Figure 28 - Minimum Mantel Clearances for Built-In Installation

Continued

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS FIREPLACE

### INSTALLATION

*Continued*

#### INSTALLING GAS PIPING TO FIREPLACE LOCATION

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

#### Installation Items Needed

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

- piping (check local codes)
- sealant (resistant to propane/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*, pages 26 and 27.

**WARNING: Never connect fireplace to private (non-utility) gas wells. This gas is commonly known as wellhead gas.**

**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 29).

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.

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

Install sediment trap in supply line as shown in Figure 29. 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.

#### CONNECTING FIREPLACE TO GAS SUPPLY

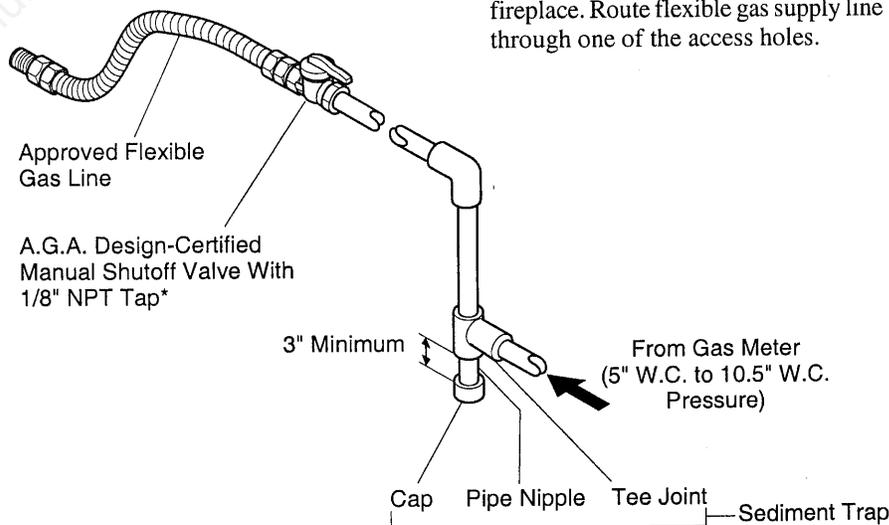
##### Installation Items Needed

- 5/16" hex socket wrench or nut-driver
  - Phillips screwdriver
  - sealant (resistant to propane/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 screws that attach log base assembly to fireplace (see Figure 30, page 15). Carefully lift up log base assembly and remove from fireplace (see Figure 30, page 15).

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

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

3. Route flexible gas line (provided by installer) from manual shutoff valve to fireplace. Route flexible gas supply line through one of the access holes.



**Figure 29 - Gas Connection**

\* Purchase the optional A.G.A. design-certified manual shutoff valve from your dealer. See *Accessories*, pages 26 and 27

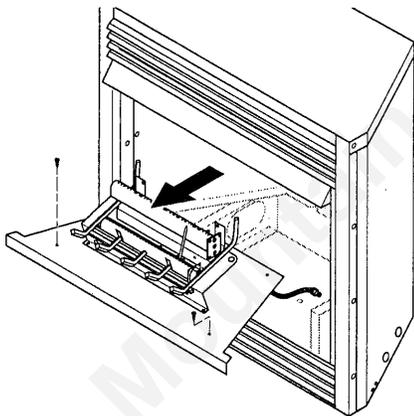
# OWNER'S MANUAL

## INSTALLATION

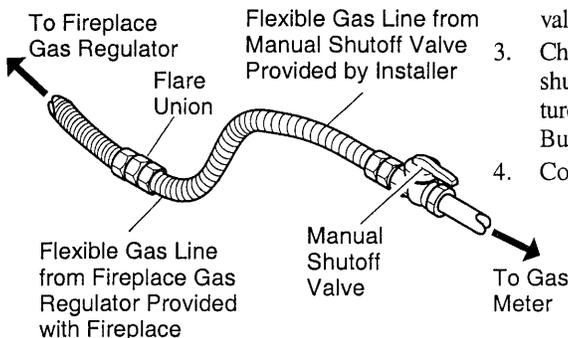
*Continued*

**NOTICE:** Most building codes do not permit concealed gas connections. A flexible gas line is provided to allow accessibility from the fireplace (see Figure 31). The flexible gas supply line connection to the manual shutoff valve should be accessible.

- Attach a 45° flare union gas connector to flexible gas line from gas supply (see Figure 31). Connect flare union to flexible gas line attached to gas regulator of fireplace (see Figure 31).
- Check all gas connections for leaks. See *Checking Gas Connections*, column 2.
- 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 2, page 14.



**Figure 30 - Removing Log Base Assembly From Fireplace**



**Figure 31 - Attaching Flexible Gas Lines Together**

## CHECKING GAS CONNECTIONS

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

**⚠ 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

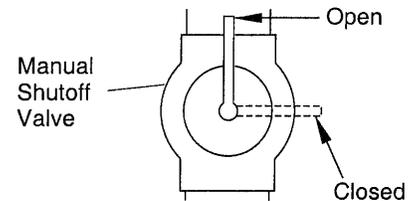
- Disconnect fireplace and its individual manual shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig will damage fireplace gas regulator.
- Cap off open end of gas pipe where manual shutoff valve was connected.
- Pressurize supply piping system by either using compressed air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

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

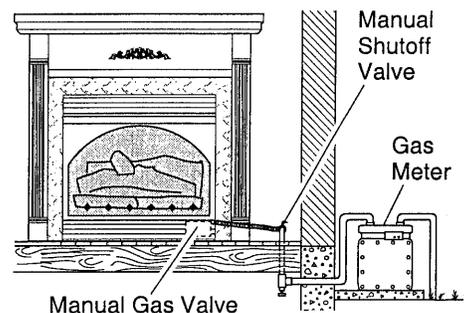
- Close manual shutoff valve (see Figure 32).
- Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
- Check all joints from gas meter to manual shutoff valve (see Figure 33). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- Correct all leaks at once.

### Pressure Testing Fireplace Gas Connections

- Open manual shutoff valve (see Figure 32).
- Open main gas valve located on or near gas meter.
- Make sure control knob of fireplace is in the OFF position.
- Check all joints from manual shutoff valve to thermostat gas valve (see Figure 33). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- Correct all leaks at once.
- Light fireplace (see *Operating Fireplace*, pages 17 and 18 [Thermostat-controlled models] or pages 18 through 19 [Manually-controlled models]). Check all other internal joints for leaks.
- Turn off fireplace (see *To Turn Off Gas to Appliance*, page 18 [Thermostat-controlled models] or page 19 [Manually-controlled models]).



**Figure 32 - Manual Shutoff Valve**



**Figure 33 - Checking Gas Joints**

*Continued*

# DESA INTERNATIONAL UNVENTED NATURAL GAS FIREPLACE

## INSTALLATION

*Continued*

### INSTALLING LOGS

**⚠ 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.

**⚠ CAUTION:** Do not remove the metal data plates attached to the heater base assembly. The data plates contain important warranty information.

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. Place front log (#1) on top of the grate. Make sure the notches in the bottom of the log fit over the grate prongs (see Figure 34). Push back of log flush with metal grate bar.
2. Rest middle log (#2) behind metal posts on front burner. Make sure the grooves in the bottom of the log fit over the grate. Bring the log forward next to the metal posts (see Figure 35).
3. Slide the grooves in the back of the rear log (#3) against the rear grate prongs. Make sure the peg on the log is on top (see Figure 36).
4. Place the crossover log (#4) on the rear log and the middle log. Make sure the peg on the rear log is in the hole in the bottom of the crossover log. The crossover log should fit in the cutout of the middle log (see Figure 37).
5. Install fireplace screen by slipping notches of fireplace screen over screws on front of fireplace (see Figure 38).

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

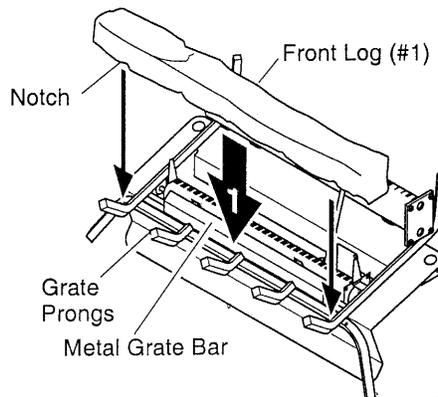


Figure 34 - Installing Front Log (#1)

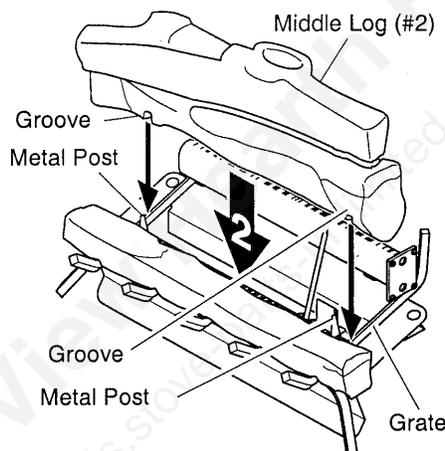


Figure 35 - Installing Middle Log (#2)

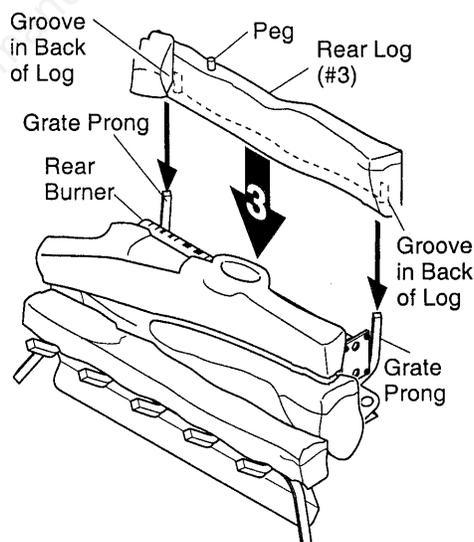


Figure 36 - Installing Rear Log (#3)

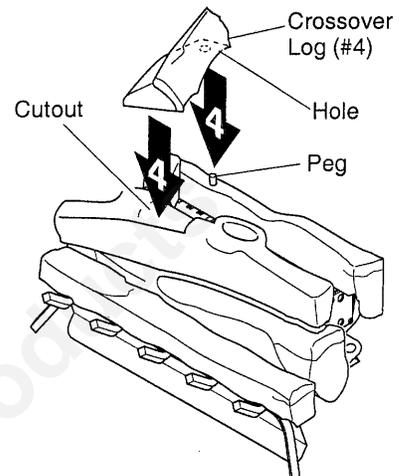


Figure 37 - Installing Crossover Log (#4)

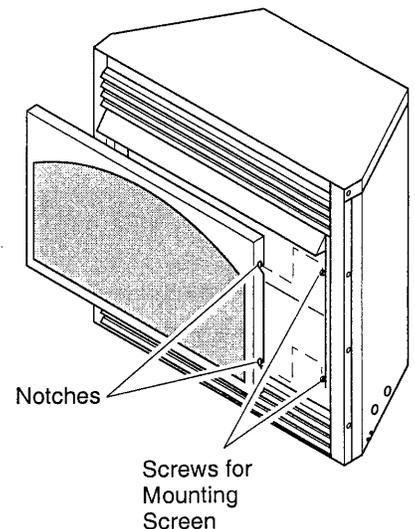


Figure 38 - Installing Fireplace Screen

# OWNER'S MANUAL

## OPERATING FIREPLACE

Thermostat-Controlled Models

### 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.

- 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.

## LIGHTING INSTRUCTIONS

**⚠ 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 in column 1.
2. Make sure manual shutoff valve is fully open.
3. Turn control knob clockwise to the OFF position (see Figure 39).
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, column 1. 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 39).

**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.

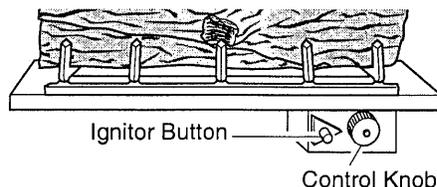


Figure 39 - Control Knob and Ignitor Button Location

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 18.

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.
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.

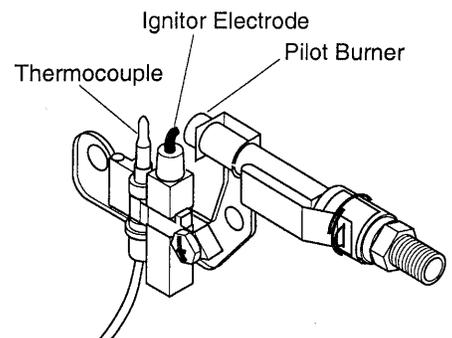


Figure 40 - Pilot

Continued

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS FIREPLACE

### OPERATING FIREPLACE

*Continued*

#### 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 17.
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, page 17.

#### Manually-Controlled Models

#### 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.

- 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.

#### LIGHTING INSTRUCTIONS

**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 in column 2.
2. Make sure manual shutoff valve is fully open.
3. Turn control knob clockwise  to the OFF position. (see Figure 41, page 19)
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, column 2. 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 41, page 19).  
**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 19.

# OWNER'S MANUAL

## OPERATING FIREPLACE

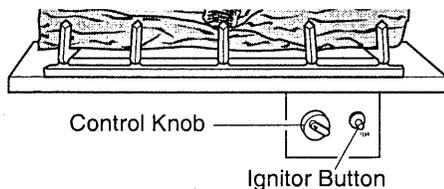
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7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

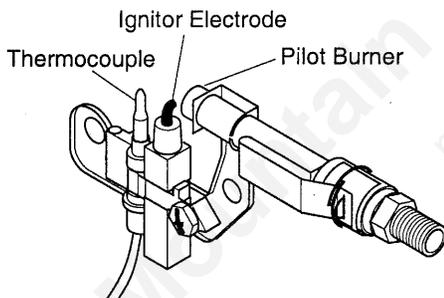
**Note:** If pilot goes out, repeat steps 3 through 7.

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

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



**Figure 41 - Control Knob and Ignitor Button Location**



**Figure 42 - Pilot**

## 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.

**WARNING:** Do not operate heater between locked positions.

**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 18.
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, column 1.

*Continued*

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS FIREPLACE

### OPERATING FIREPLACE

*Continued*

#### BLOWER OPERATION

#### VSGF28NTC/CSGF28NTC

**⚠ 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.

#### VSGF28NVA ONLY Blower Kit Model GA3700

This optional non-thermostat blower kit features a variable control which allows you to select the speed you desire. After about 15 minutes, turn the blower on to deliver heated air at the top louvers. Follow the installation instructions on pages 8 and 9 of this manual.

**IMPORTANT:** Light your gas appliance with the blower off.

**Note:** Periodically check the louvers of the firebox and remove any dust, dirt, or other obstructions.

#### Blower Kit Model GA3700T

This thermostatically-controlled blower features a three position switch. The three settings are: 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. When the heater has been on approximately 5 minutes, turn the blower on to deliver heated air at the top louvers.

**IMPORTANT:** Light your gas appliance with the blower off.

**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 returns 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.

**Note:** Periodically check the louvers of the firebox and remove any dust, dirt, or other obstructions.

### INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

#### PILOT FLAME PATTERN

Figure 43 shows a correct pilot flame pattern. Figure 44 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.

If pilot flame pattern is incorrect, as shown in Figure 44

- turn fireplace off (see *To Turn Off Gas to Appliance*, page 18 [Thermostat-controlled models] or page 19 [Manually-controlled models])
- see *Troubleshooting*, pages 22 through 24

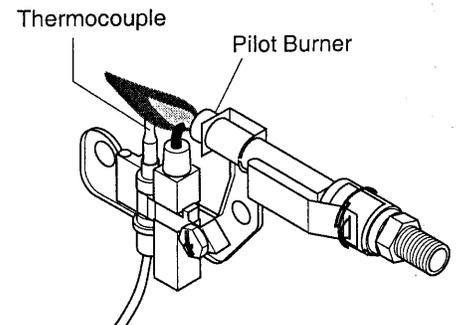


Figure 43 - Correct Pilot Flame Pattern

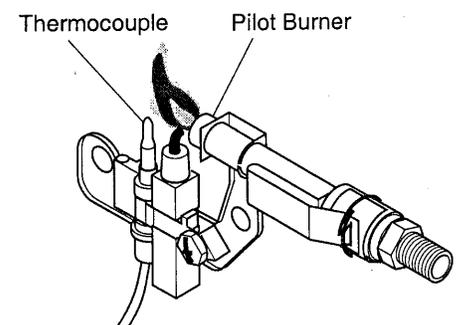


Figure 44 - Incorrect Pilot Flame Pattern

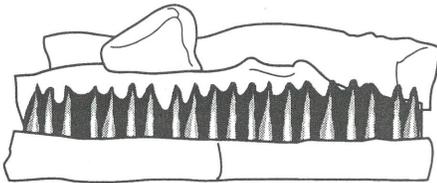
## INSPECTING BURNERS

*Continued*

### FRONT BURNER FLAME PATTERN

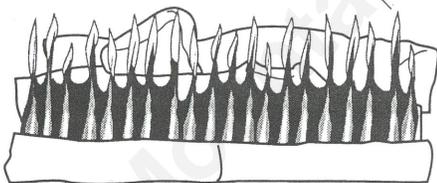
Figure 45 shows correct front burner flame pattern. Figure 46 shows incorrect front burner flame pattern. The incorrect burner flame pattern shows yellow tipping at top of blue flame.

**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.



**Figure 45 - Correct Front Burner Flame Pattern**

Yellow Tipping At Top of Blue Flame



**Figure 46 - Incorrect Front Burner Flame Pattern**

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

If front burner flame pattern is incorrect, as shown in Figure 46

- turn fireplace off (see *To Turn Off Gas to Appliance*, page 18 [Thermostat-controlled models] or page 19 [Manually-controlled models])
- see *Troubleshooting*, pages 22 through 24

## CLEANING AND MAINTENANCE

**WARNING:** Turn off fireplace and let cool before cleaning.

**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, pet hair, etc.

### CLEANING BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

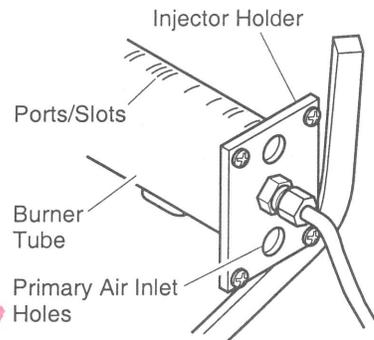
The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, and lint. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every 2,500 hours of operation or every three months.

We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store, or home center may carry compressed air in a can. You can use a vacuum cleaner in the blow position. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

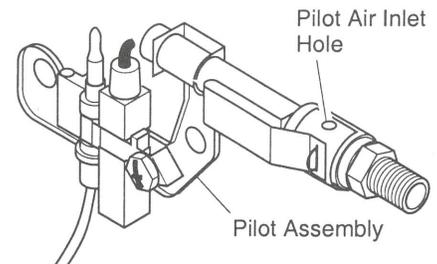
1. Shut off the unit, including the pilot. Allow the unit to cool for at least thirty minutes.
2. Inspect burner, pilot, and primary air inlet holes on injector holder for dust and dirt (see Figure 47).
3. Blow air through the ports/slots and holes in the burner.

4. Check the injector holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint, or pet hairs with a soft cloth or vacuum cleaner nozzle.
5. Blow air into the primary air holes on the injector holder.
6. In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.

Clean the pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about two inches from where the pilot flame comes out of the pilot assembly (see Figure 48). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.



**Figure 47 - Injector Holder On Outlet Burner Tube**



**Figure 48 - Pilot Inlet Air Hole**

### LOGS

- If you remove logs for cleaning, refer to *Installing Logs*, page 16, to properly replace logs.
- Replace log(s) if broken or chipped (dime-sized or larger).

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS FIREPLACE

### TROUBLESHOOTING

*Note:* For additional help, visit DESA International's technical service web site at [www.desatech.com](http://www.desatech.com).

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

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

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

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no spark at ODS/pilot	<ol style="list-style-type: none"> <li>1. Ignitor electrode not connected to ignitor cable</li> <li>2. Piezo ignitor nut is loose</li> <li>3. Ignitor cable pinched or wet</li> <li>4. Broken ignitor cable</li> <li>5. Bad piezo ignitor</li> <li>6. Ignitor electrode broken</li> <li>7. Ignitor electrode positioned wrong</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect ignitor cable</li> <li>2. Tighten nut holding piezo ignitor to base panel of log set. Nut is located behind base panel.</li> <li>3. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry</li> <li>4. Replace ignitor cable</li> <li>5. Replace piezo ignitor</li> <li>6. Replace ignitor</li> <li>7. Replace ignitor</li> </ol>
When ignitor button is pressed, there is spark at ODS/pilot but no ignition	<ol style="list-style-type: none"> <li>1. Gas supply turned off or manual shutoff valve closed</li> <li>2. Control knob not in PILOT position</li> <li>3. Control knob not pressed in while in PILOT position</li> <li>4. Air in gas lines when installed</li> <li>5. ODS/pilot is clogged</li> <li>6. Gas regulator setting is not correct</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn on gas supply or open manual shutoff valve</li> <li>2. Turn control knob to PILOT position</li> <li>3. Press in control knob while in PILOT position</li> <li>4. Continue holding down control knob. Repeat igniting operation until air is removed</li> <li>5. Clean ODS/pilot (see <i>Cleaning and Maintenance</i>, page 21) or replace ODS/pilot assembly</li> <li>6. Replace gas regulator</li> </ol>
ODS/pilot lights but flame goes out when control knob is released	<ol style="list-style-type: none"> <li>1. Control knob not fully pressed in</li> <li>2. Control knob not pressed in long enough</li> <li>3. Manual shutoff valve not fully open</li> <li>4. Thermocouple connection loose at control valve</li> <li>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:               <ol style="list-style-type: none"> <li>A) Low gas pressure</li> <li>B) Dirty or partially clogged ODS/pilot</li> </ol> </li> <li>6. Thermocouple damaged</li> <li>7. Control valve damaged</li> <li>8. On thermostat models, safety interlock system has been triggered</li> </ol>	<ol style="list-style-type: none"> <li>1. Press in control knob fully</li> <li>2. After ODS/pilot lights, keep control knob pressed in 30 seconds</li> <li>3. Fully open manual shut-off valve</li> <li>4. Hand tighten until snug, then tighten 1/4 turn more</li> <li>5. A) Contact local natural gas company B) Clean ODS/pilot (see <i>Cleaning and Maintenance</i>, page 21) or replace ODS/pilot assembly</li> <li>6. Replace thermocouple</li> <li>7. Replace control valve</li> <li>8. Wait one minute for safety interlock system to reset. Repeat ignition operation</li> </ol>

# OWNER'S MANUAL

## TROUBLESHOOTING

*Continued*

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
One or both burners do not light after ODS/pilot is lit	<ol style="list-style-type: none"><li>1. Burner orifice(s) clogged</li><li>2. Burner orifice(s) diameter is too small</li><li>3. Inlet gas pressure is too low</li><li>4. Mislocated crossover tube</li></ol>	<ol style="list-style-type: none"><li>1. Clean burner(s) (see <i>Cleaning and Maintenance</i>, page 21) or replace burner orifice(s)</li><li>2. Replace burner orifice(s)</li><li>3. Contact local natural gas company</li><li>4. Contact qualified service person</li></ol>
Delayed ignition of one or both burners	<ol style="list-style-type: none"><li>1. Manifold pressure is too low</li><li>2. Burner orifice(s) clogged</li><li>3. Mislocated crossover tube</li></ol>	<ol style="list-style-type: none"><li>1. Contact local natural gas company</li><li>2. Clean burner(s) (see <i>Cleaning and Maintenance</i>, page 21) or replace burner orifice(s)</li><li>3. Contact qualified service person</li></ol>
Burner backfiring during combustion	<ol style="list-style-type: none"><li>1. Burner orifice is clogged or damaged</li><li>2. Damaged burner</li><li>3. Gas regulator defective</li></ol>	<ol style="list-style-type: none"><li>1. Clean burner (see <i>Cleaning and Maintenance</i>, page 21) or replace burner orifice</li><li>2. Replace damaged burner</li><li>3. Replace gas regulator</li></ol>
Yellow flame in front burner during burner combustion	<ol style="list-style-type: none"><li>1. Not enough air</li><li>2. Gas regulator defective</li></ol>	<ol style="list-style-type: none"><li>1. Check burner(s) for dirt and debris. If found, clean burner(s) (see <i>Cleaning and Maintenance</i>, page 21)</li><li>2. Replace gas regulator</li></ol>
Slight smoke or odor during initial operation	<ol style="list-style-type: none"><li>1. Residues from manufacturing processes and logs curing</li></ol>	<ol style="list-style-type: none"><li>1. Problem will stop after a few hours of operation</li></ol>
Fireplace produces a whistling noise when burners are lit	<ol style="list-style-type: none"><li>1. Turning control knob to HI position when burners are cold</li><li>2. Air in gas line</li><li>3. Air passageways on fireplace blocked</li><li>4. Dirty or partially clogged burner orifice(s)</li></ol>	<ol style="list-style-type: none"><li>1. Turn control knob to LO position and let warm up for a minute</li><li>2. Operate burners until air is removed from line. Have gas line checked by local natural gas company</li><li>3. Observe minimum installation clearances (see pages 12 and 13)</li><li>4. Clean burners (see <i>Cleaning and Maintenance</i>, page 21) or replace burner orifice(s)</li></ol>
White powder residue forming within burner box or on adjacent walls or furniture	<ol style="list-style-type: none"><li>1. When heated, vapors from furniture polish, wax, carpet cleaners, etc. turn into white powder residue</li></ol>	<ol style="list-style-type: none"><li>1. Turn heater off when using furniture polish, wax, carpet cleaners, or similar products</li></ol>
Dark residue on logs or inside of fireplace	<ol style="list-style-type: none"><li>1. Improper log placement</li><li>2. Drafts or other air currents affecting flame pattern</li><li>3. Air holes at burner inlet blocked</li><li>4. Burner flame holes blocked</li></ol>	<ol style="list-style-type: none"><li>1. Properly locate logs (see <i>Installing Logs</i>, page 16)</li><li>2. Eliminate source of drafts around heater</li><li>3. Clean out air holes at burner inlet. Periodically repeat as needed</li><li>4. Remove blockage or replace burner</li></ol>

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS FIREPLACE

### TROUBLESHOOTING

*Continued*

- ⚠ 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 PROBLEM	POSSIBLE CAUSE	REMEDY
Fireplace produces a clicking/ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting 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 <b>IMPORTANT</b> statement above) 2. Gas leak. <b>See Warning statement above</b>	1. Open window and ventilate room. Stop using odor causing products while fireplace is running 2. Locate and correct all leaks (see <i>Checking Gas Connections</i> , page 15)
Fireplace shuts off in use (ODS operates)	1. Not enough fresh air is available 2. Low line pressure 3. ODS/pilot is partially clogged	1. Open window and/or door for ventilation 2. Contact local natural gas company 3. Clean ODS/pilot (see <i>Cleaning and Maintenance</i> , page 21)
Gas odor even when control knob is in OFF position	1. Gas leak. <b>See Warning statement above</b> 2. Control valve defective	1. Locate and correct all leaks (see <i>Checking Gas Connections</i> , page 15) 2. Replace control valve
Gas odor during combustion	1. Foreign matter between control valve and burner 2. Gas leak. <b>See Warning statement above</b>	1. Take apart gas tubing and remove foreign matter 2. Locate and correct all leaks (see <i>Checking Gas Connections</i> , page 15)
Moisture/condensation noticed on windows	1. Not enough combustion/ventilation air	1. Refer to <i>Air for Combustion and Ventilation</i> requirements (page 4)

# OWNER'S MANUAL

## 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).

You can also visit DESA International's technical services web site at [www.desatech.com](http://www.desatech.com).

## 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/LP 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 referral information.

When calling DESA International, have ready

- model number of your fireplace
- the replacement part number

## 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.

## SPECIFICATIONS

Btu (Low/High)	20,000/28,000
Type Gas	Natural Gas Only
Ignition	Piezo
Manifold Pressure	3.4" W.C.
Inlet Gas Pressure (in. of water)	
Maximum	10.5"
Minimum	5"
Shipping Weight	100 lbs. T-stat Model 97 lbs. Manual Model

## WIRING DIAGRAM

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

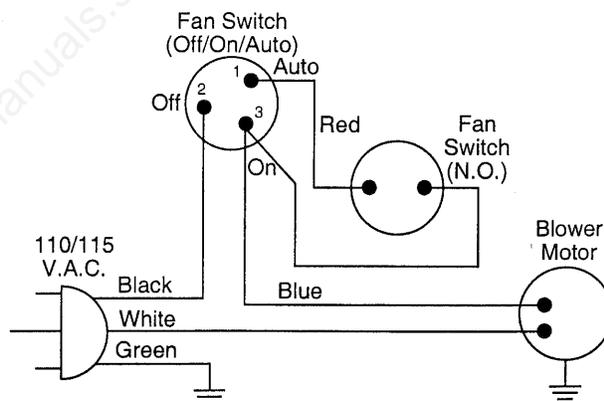


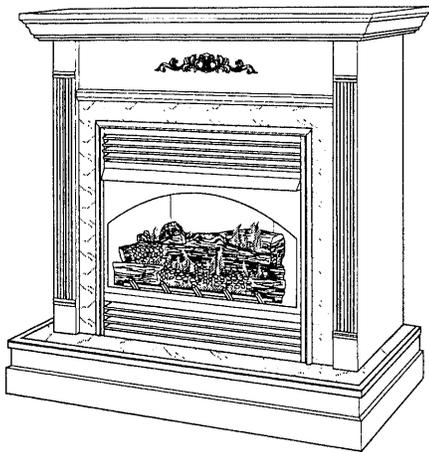
Figure 49 - Blower Wiring Diagram for Thermostat-Controlled Models

# DESA INTERNATIONAL

## UNVENTED NATURAL GAS FIREPLACE

### 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

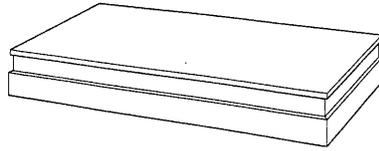
**GM100F Series - Walnut Finished**

**GM101U Series - Unfinished**  
**GM106F Series - Oak Finished with Medium Stain**

**GM107U Series - Unfinished**  
**GM102W Series - Off-White Paint**

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

Dimensions (WxHxD): 56 3/4" x 48" x 22 3/4"



#### HARDWOOD HEARTH BASE

**G3000F Series - Walnut Finished**  
**G3001U Series - Unfinished**  
**G3006F Series - Oak Finished with Medium Stain**  
**G3006U Series - Unfinished Oak**  
**G3004W Series - Off-White Paint**

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

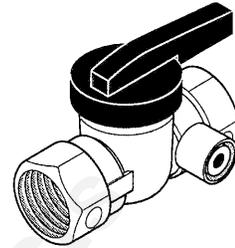
Dimensions (WxHxD): 58" x 6 1/2" x 28 9/16"

#### SLIM HEARTH BASE (Not Shown)

**G3005J Series - Jade Marble Laminate**  
**G3005S Series - Sandstone Marble Laminate**  
**G3005B Series - Black Onyx Marble Laminate**

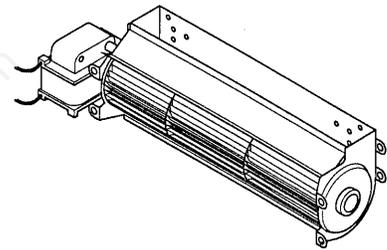
The slim hearth base allows you to further customize your fireplace.

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.



#### BLOWER ACCESSORIES - GA3700

Manual variable control for VSGF28NVA series only.

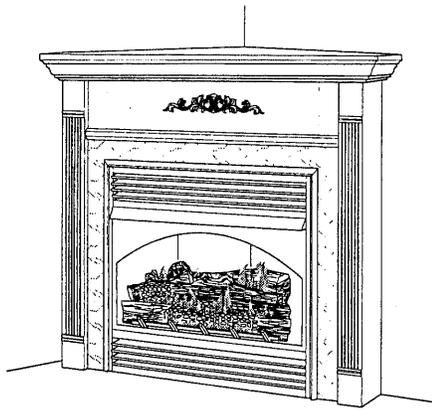
#### GA3700T

Thermostatic control for VSGF28NV Series only.

# OWNER'S MANUAL

## ACCESSORIES

*Continued*



### CORNER MANTEL

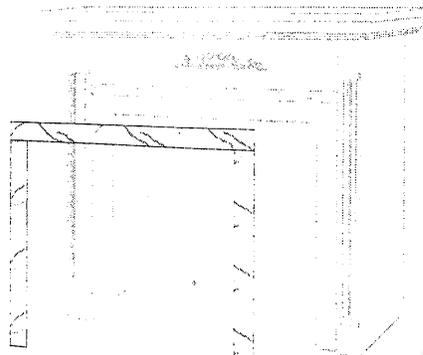
**GM200F Series - Walnut**

**Finished**

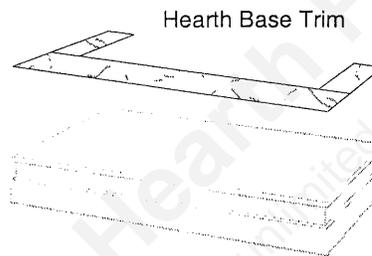
**GM201U Series - Unfinished**

Shown with optional laminate mantel trim accessory.

Dimensions (WxHxD): 60<sup>7</sup>/<sub>8</sub>" x 48<sup>3</sup>/<sub>4</sub>" x 34<sup>5</sup>/<sub>8</sub>"



Mantel Trim



Hearth Base Trim

### LAMINATE TRIM FOR HEARTH OR MANTEL

**G3002J Series - Jade Marble Laminate Mantel Trim**

**G3003J Series - Jade Marble Laminate Hearth Base Trim**

**G3002S Series - Sandstone Marble Laminate Mantel Trim**

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

**G3002B Series - Black Onyx Marble Laminate Trim**

**G3003B Series - Black Onyx Marble Laminate Hearth Base Trim**

Mantel trim for cabinet or corner mantel.

Hearth base trim for hardwood hearth bases.

### FIREBOX BRICK LINER - G8000 Series (Not Shown)

Ceramic fiber firebox liner adds the look of real brick.

### BRASS TRIM ACCESSORY - GA6090 (Not Shown)

Included with accessory mantels

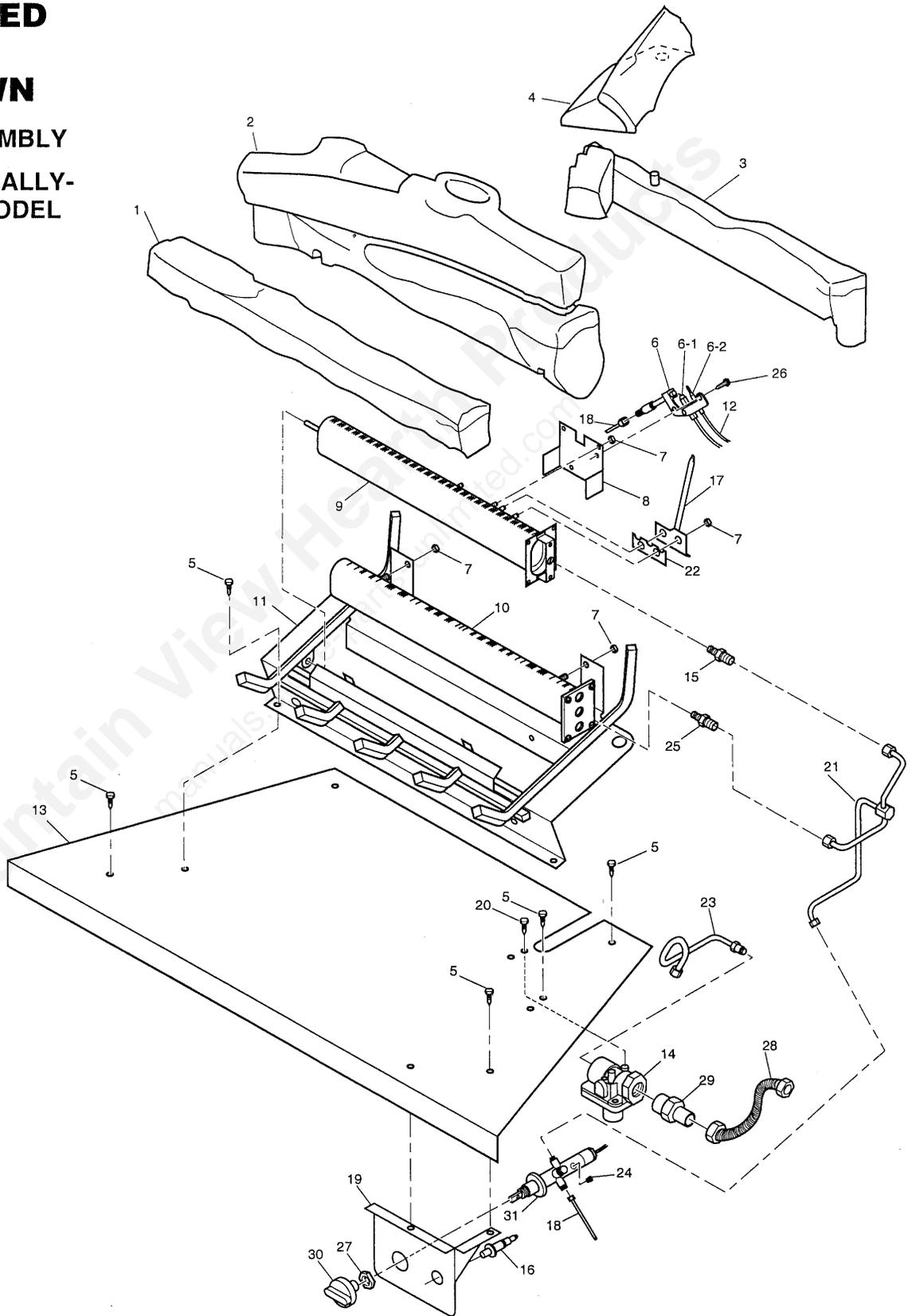
### DUPLEX OUTLET KIT - GA3555 (Not Shown)

For built-in installation

# DESA INTERNATIONAL UNVENTED NATURAL GAS FIREPLACE

## ILLUSTRATED PARTS BREAKDOWN

LOG BASE ASSEMBLY  
VARIABLE MANUALLY-  
CONTROLLED MODEL  
VSGF28NVA



# OWNER'S MANUAL

## PARTS LIST

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 25 of this manual.

### LOG BASE ASSEMBLY

### VARIABLE MANUALLY-CONTROLLED MODEL

### VSGF28NVA

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	104388-02	Front Log (#1)	1
2	104390-02	Middle Log (#2)	1
3	104392-02	Rear Log (#3)	1
4	104394-02	Crossover Log (#4)	1
5	098304-01	Screw, #10 Phillips, Black	8
6	103042-01	O.D.S. Pilot	1
6-1	098594-01	Ignitor	1
6-2	098593-01	Thermocouple	1
7	098249-01	Nut	6
8	101006-01	Pilot Bracket	1
9	101330-05	Front Burner	1
10	100999-05	Rear Burner Assembly	1
11	102257-08CJ	Base Assembly	1
12	098271-06	Ignitor Cable	1
13	103410-01CK	Firebox Bottom	1
14	098867-09	Gas Regulator	1
15	101004-04	Front Burner Injector	1
16	102445-01	Piezo Ignitor	1
17	101007-01	Crossover Tube	1
18	099387-05	Pilot Tube	1
19	101972-01	Valve and Piezo Bracket	1
20	M11084-38	Regulator Hex Screw	2
21	102668-01	Front Burner Tube	1
22	101008-01	Gasket	1
23	101973-01	Inlet Tube	1
24	098276-01	1/8" Plug	1
25	101004-11	Rear Burner Injector	1
26	M11084-26	Hex Screw, #10	2
27	098508-01	Valve Retainer Nut	1
28	101628-03	Flex Hose	1
29	097809-02	Adapter	1
30	098354-01	Control Knob	1
31	102568-01	Control Valve	1
<b>PARTS AVAILABLE — NOT SHOWN</b>			
	100563-01	Warning Plate	1
	101055-02	Lighting Instructions Plate	1
	100565-01	Warning Plate Fastener	1
	104354-01	Information Video	1
	101976-02	Control Position Decal	1

# DESA INTERNATIONAL UNVENTED NATURAL GAS FIREPLACE

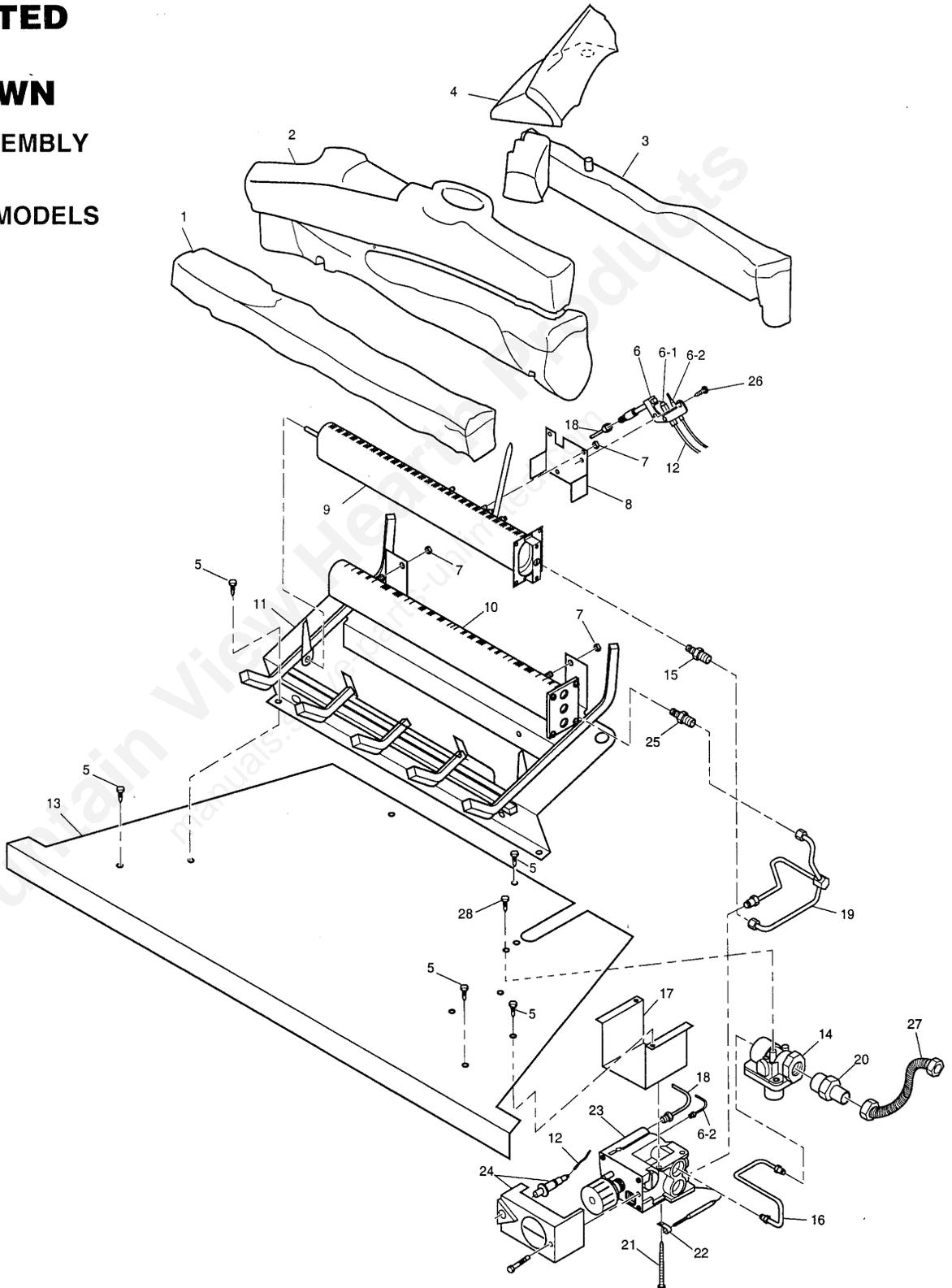
## ILLUSTRATED PARTS BREAKDOWN

LOG BASE ASSEMBLY

THERMOSTAT-  
CONTROLLED MODELS

VSGF28NTC

CSGF28NTC



# OWNER'S MANUAL

## PARTS LIST

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 25 of this manual.

### LOG BASE ASSEMBLY

### THERMOSTAT- CONTROLLED MODELS

### VSGF28NTC CSGF28NTC

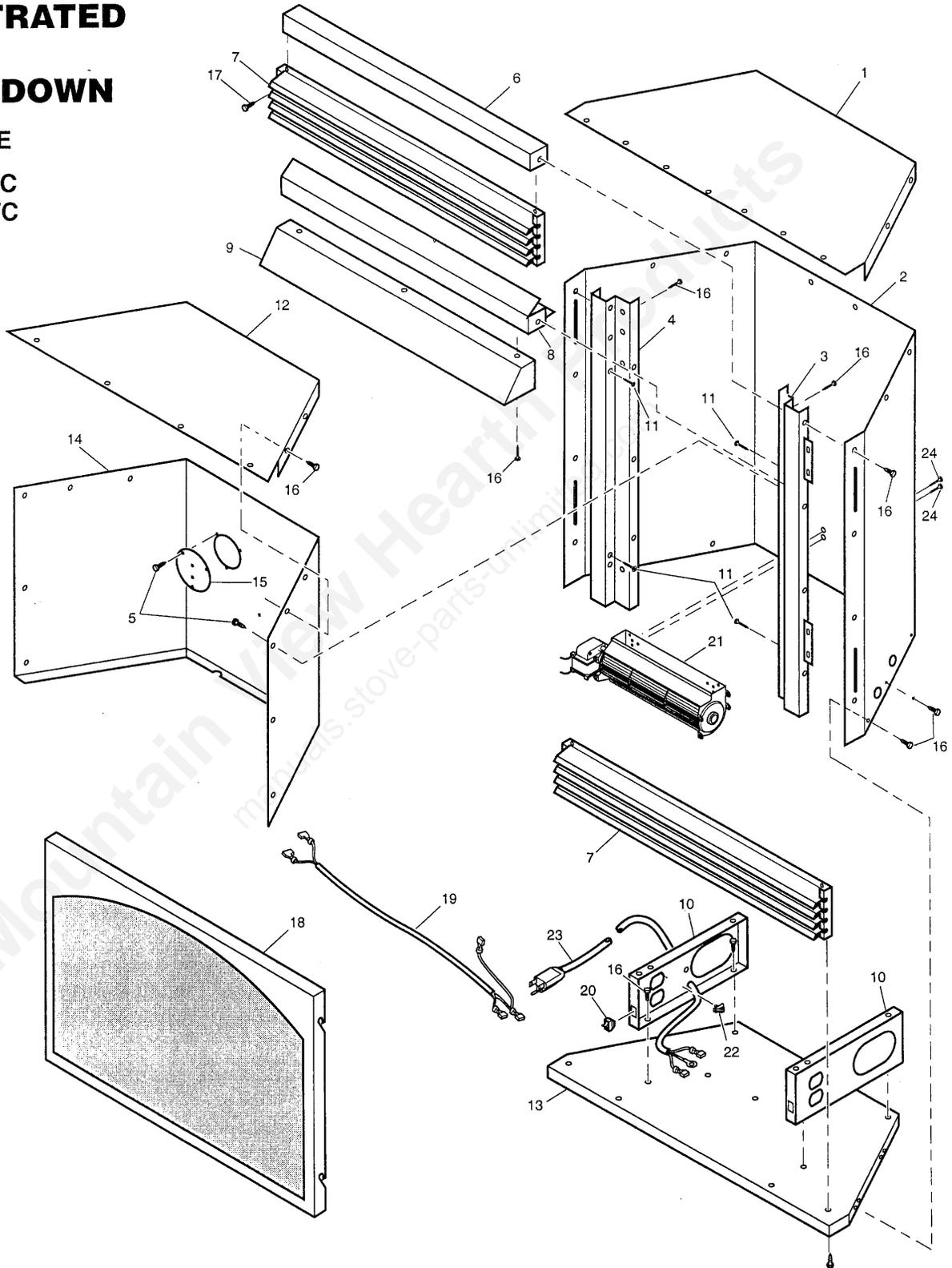
KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	104388-02	Front Log (#1)	1
2	104390-02	Middle Log (#2)	1
3	104392-02	Rear Log (#3)	1
4	104394-02	Crossover Log (#4)	1
5	098304-01	Screw, #10 Phillips, Black	8
6	103042-01	O.D.S. Pilot	1
6-1	098594-01	Ignitor	1
6-2	098593-01	Thermocouple	1
7	098249-01	Nut	4
8	101006-01	Pilot Bracket	1
9	101330-05	Front Burner Assembly	1
10	100999-05	Rear Burner Assembly	1
11	102257-08CJ	Base Assembly	1
12	098271-06	Ignitor Cable	1
13	103410-01CK	Firebox Bottom	1
14	098867-09	Gas Regulator	1
15	101004-04	Front Burner Injector	1
16	102845-01	Inlet Tube	1
17	101382-01	Therموالve Bracket	1
18	099387-03	Pilot Tube	1
19	102846-01	Burner Tube	1
20	097809-02	Adapter	1
21	099211-01	Screw	2
22	098544-01	Thermostat Clamp	1
23	101329-16	Thermostat Gas Valve Assembly	1
24	101381-01	Cover and Piezo	1
25	101004-11	Rear Burner Injector	1
26	M11084-26	Hex Screw, #10	2
27	101628-03	Flex Hose	1
28	M11084-38	Screw	2
<b>PARTS AVAILABLE — NOT SHOWN</b>			
	100563-01	Warning Plate	1
	101054-01	Lighting Instructions Plate	1
	100565-01	Warning Plate Fastener	1
	104354-01	Information Video	1

# DESA INTERNATIONAL UNVENTED NATURAL GAS FIREPLACE

## ILLUSTRATED PARTS BREAKDOWN

FIREPLACE

VSGF28NTC  
CSGF28NTC



# OWNER'S MANUAL

## PARTS LIST

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 25 of this manual.

### FIREPLACE

### VSGF28NTC

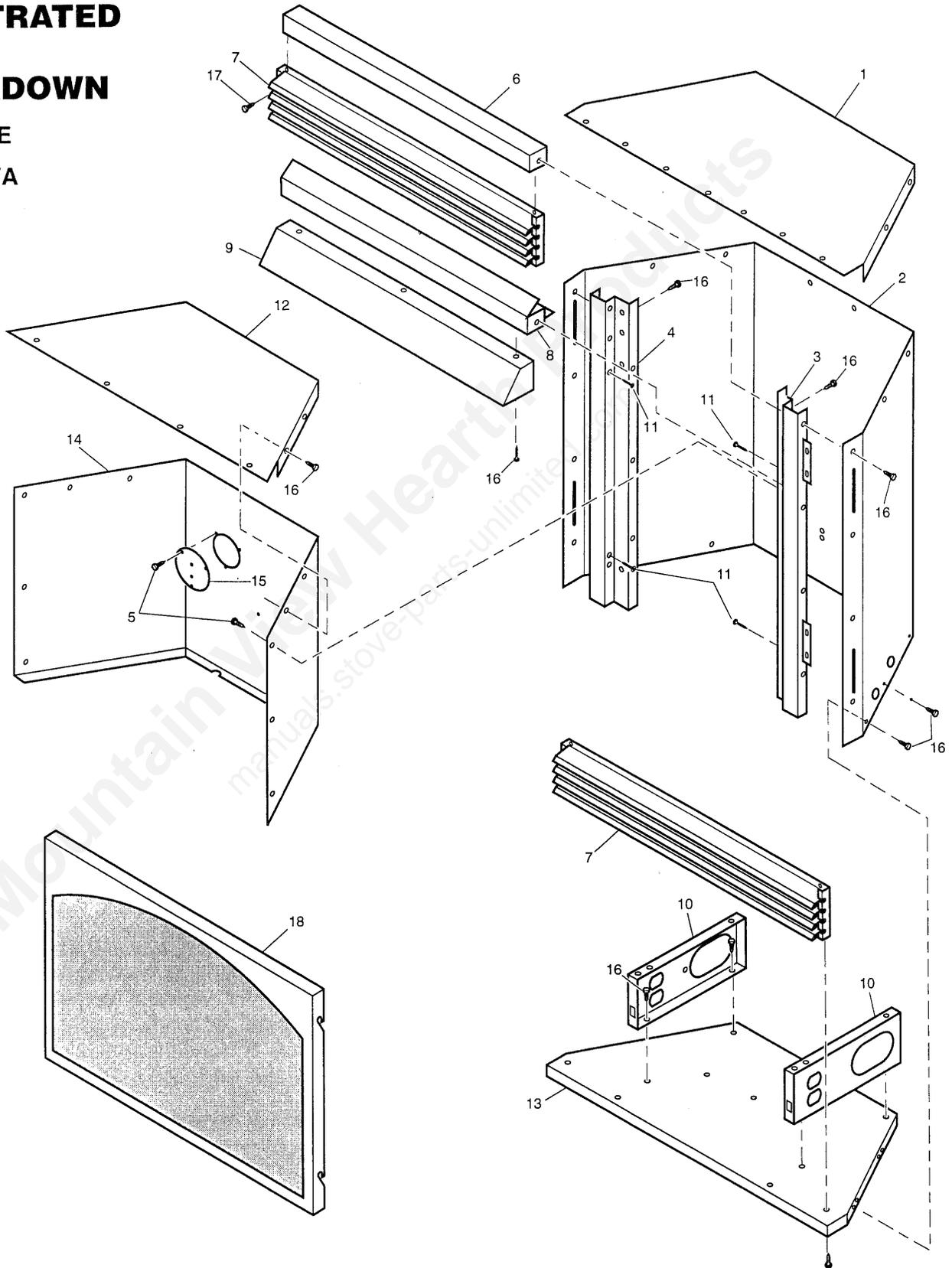
### CSGF28NTC

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	101357-01	Top Outer Casing	1
2	103207-01	Outer Casing	1
3	102758-02CK	Right Front Side	1
4	102759-02CK	Left Front Side	1
5	098304-01	Phillips Pan Head Screw, #10	17
6	101351-01CK	Top Front	1
7	102455-02	Top Louver Assembly	2
8	101353-01CK	Middle Front Rail	1
9	101712-02	Firebox Hood	1
10	101348-01	Firebox Support	2
11	099230-01	Shoulder Screw	4
12	101872-03	Firebox Top	1
13	101346-01CK	Outer Base	1
14	101838-03CJ	Firebox Wrapper	1
15	101614-02	Limit Switch (thermal disk) Assy.	1
16	M11084-26	Hex Screw, #10	57
17	098304-03	Phillips Pan Head Screw, #8	4
18	101727-03	Screen Assembly	1
19	101398-02	Wire Harness	1
20	099998-01	Fan Switch	1
21	103581-01	Blower Assembly	1
22	099123-01	Wire Clip	4
23	098219-35	Power Cord Assembly	1
24	M11084-38	Hex Screw, 8-18 x .38"	4
<b>PARTS AVAILABLE — NOT SHOWN</b>			
	099038-01	Strain Relief Bushing	1
	100639-01	Caution Decal	1
	103590-01	Decal Strip	1
	104313-01	Hinge, Pin	1
	104313-02	Hinge, Pin	1
	M10908-2	Screw, Slotted Hex Head Tapping	4

# DESA INTERNATIONAL UNVENTED NATURAL GAS FIREPLACE

## ILLUSTRATED PARTS BREAKDOWN

FIREPLACE  
VSGF28NVA



# OWNER'S MANUAL

## PARTS LIST

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 25 of this manual.

### FIREPLACE

### VSGF28NVA

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	101357-01	Top Outer Casing	1
2	103207-01	Outer Casing	1
3	102758-02CK	Right Front Side	1
4	102759-02CK	Left Front Side	1
5	098304-01	Phillips Pan Head Screw, #10	17
6	101351-01CK	Top Front	1
7	102455-02	Top Louver Assembly	2
8	101353-01CK	Middle Front Rail	1
9	101712-02	Firebox Hood	1
10	101348-01	Firebox Support	2
11	099230-01	Shoulder Screw	4
12	101872-03	Firebox Top	1
13	101346-01CK	Outer Base	1
14	101838-03CJ	Firebox Wrapper	1
15	101514-01CK	Cover	1
16	M11084-26	Hex Screw, #10	57
17	098304-03	Phillips Pan Head Screw, #8	4
18	101727-03	Screen Assembly	1
<b>PARTS AVAILABLE — NOT SHOWN</b>			
	100639-01	Caution Decal	1
	103590-01	Decal Strip	1
	104313-01	Hinge, Pin	1
	104313-02	Hinge, Pin	1
	M10908-2	Screw, Slotted Hex Head Tapping	4

# 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 NATURAL GAS FIREPLACE

DESA International warrants this product to be free from defects in materials and components for four (4) 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 FOUR (4) 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  
www.desatech.com



104409 01

NOT A UPC

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Rev. C  
02/99