DESA INTERNATIONAL UNVENTED (VENT-FREE) PROPANE GAS LOG HEATER

Manually Control Models Also Designed Certified as Vented Decorative Appliance) This appliance may be installed in an aftermarket* manufactured (mobile) home, where not prohibited by state or local codes.

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

OWNER'S OPERATION AND INSTALLATION MANUAL



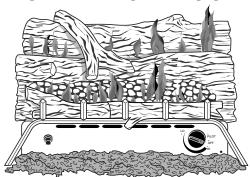
18" (Non "A" Model), 24", and 30" ("A" Models) Variable Manually-Controlled and ("A" Models) Thermostatically Controlled

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.

STANDARD OAK DESIGN



18", 24", and 30" ("A" Models) Thermostatically-Controlled

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 gas log set is for installation in a masonry solid fuel burning fireplace, a U.L. listed manufactured solid fuel burning fireplace or an AGA design certified vent-free firebox (including LogMate FB32C and FB32NC) listed for use with these gas log models.

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

Save this manual for future reference.

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SAFETY INFORMATION

AWARNINGS

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



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

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

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

Safety Information continues on next page

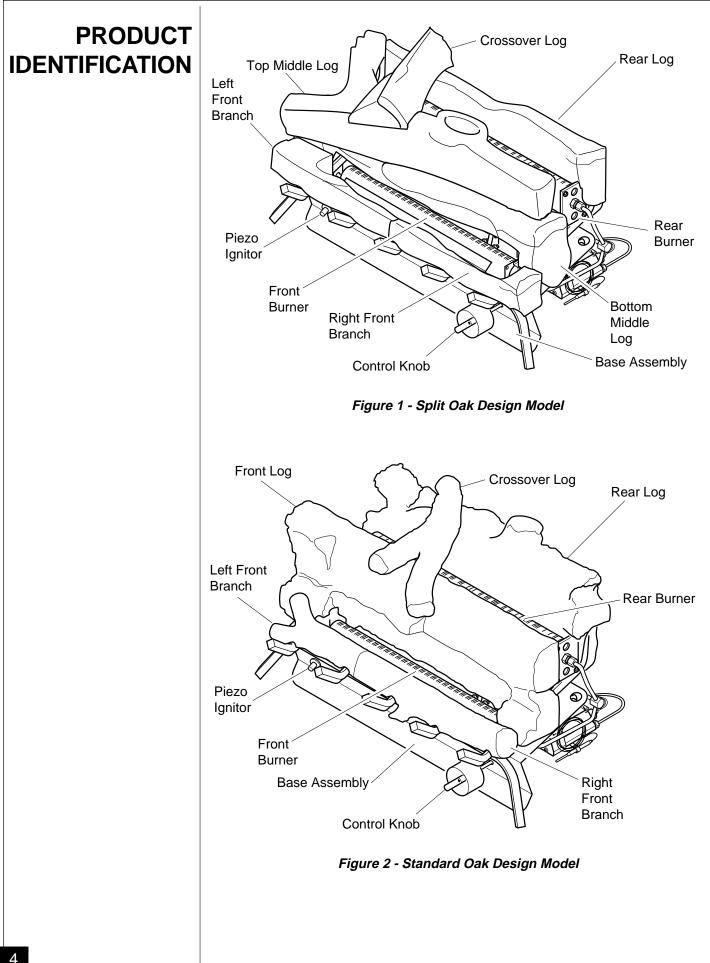
SAFETY INFORMATION

Continued

A WARNINGS Continued

WARNING: Any change to this heater 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.
- $2. \quad Do not place propane supply tank(s) inside any structure. Locate propane supply tank(s) outdoors.$
- 3. If you smell gas
 - shut off gas supply
 - do not try to light any appliance
 - do not touch any electrical switch; do not use any phone in your building
 - immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions
 - if you cannot reach your gas supplier, call the fire department
- 4. This heater shall not be installed in a bedroom or bathroom.
- 5. Never install the heater
 - in a recreational vehicle
 - where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the heater
 - in high traffic areas
 - in windy or drafty areas
- 6. Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. Inspect chimney flue for damage. If damaged, operate heater with flue damper closed.
- 7. If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Also if fireplace opening has vents at the bottom, you must open the vents before operating heater.
- 8. You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.
- 9. This log heater is designed to be smokeless. If logs ever appear to smoke, turn off heater and call a qualified service person. *Note:* During initial operation, slight smoking may occur due to log curing and heater burning manufacturing residues.
- 10. Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans may create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.
- 11. Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.
- 12. This heater needs fresh, outside air ventilation to run properly. This heater has an oxygen depletion sensor (ODS) pilot light safety system. The ODS shuts down the heater if not enough fresh air is available. See *Air for Combustion and Ventilation*, pages 5 through 8. If heater keeps shutting off, see *Troubleshooting*, pages 28 through 31.
- 13. Do not run heater
 - where flammable liquids or vapors are used or stored
 - under dusty conditions
- 14. Do not use this heater to cook food or burn paper or other objects.
- 15. Never place any objects on the heater.
- 16. Heater base assembly becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shutpdown. Allow surface to cool before touching.
- 17. Carefully supervise young children when they are in the room with heater.
- 18. Do not use heater if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 19. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dimesized or larger).
- 20. Turn heater off and let cool before servicing. Only a qualified service person should service and repair heater.
- 21. Operating heater above elevations of 4,500 feet may cause pilot outage.
- 22. To prevent performance problems, the use of a propane fuel tank of less than 100 lb. capacity is not recommended.



LOCAL CODES	Install and use heater with care. Follow all local codes. In the absence of local codes, use the latest edition of The National Fuel Gas Code ANSI Z223, also known as NFPA 54*. *Available from: American National Standards Institute, Inc. 1430 Broadway New York, NY 10018	
	National Fire Protection Association, Inc. Batterymarch Park Quincy, MA 02269 <i>Note:</i> Where listed vented decorative logs are required, thermostat operation is not permitted.	
UNPACKING	 Remove logs and heater base assembly from carton. <i>Note:</i> Do not pick up heater base assembly by burners. This could damage heater. Always handle base assembly by grate. Remove all protective packaging applied to logs and heater for shipment. Check all items for any shipping damage. If damaged, promptly inform dealer where you bought heater. 	
PRODUCT FEATURES	Operation This heater 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 coals. This heater is designed for vent-free operation with flue damper closed. State and local codes in some areas prohibit the use of vent-free heaters. You can operate heater as a vented product by opening flue damper.	
	Safety Device This heater 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/pilot shuts off the heater if there is not enough fresh air.	
	Piezo Ignition System This heater has a piezo ignitor. This system requires no matches, batteries, or other sources to light heater.	
AIR FOR		
COMBUSTION AND VENTILATION	This heater shall not be installed in a confined space unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.	
	Today's homes are built more energy efficient than ever. New materials, increased insulation, and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.	
	While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.	
	Exhaust fans, fireplaces, clothes dryers, and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuel-burning appliances.	

AIR FOR COMBUSTION AND VENTILATION Continued

PROVIDING ADEQUATE VENTILATION

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

All spaces in homes fall into one of the three following ventilation classifications:

1. Unusually Tight Contruction; 2. Unconfined Space; 3. Confined Space.

The information on pages 5 through 8 will help you classify your space and provide adequate ventilation.

Unusually Tight Construction

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

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm or less with openings gasketed or sealed <u>and</u>
- b. weather stripping has been added on openable windows and doors <u>and</u>
- 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 8.

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

Unconfined Space

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

Confined Space

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

AIR FOR COMBUSTION AND VENTILATION

Continued

DETERMINING AIR FLOW FOR HEATER 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 heater plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

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

Length x Width x Height	i= 0	cu. ft. (volume of space)
Example: Space size	20 ft. (length) x 16 ft. (width) x 8	ft. (ceiling height) =
	2560 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.

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

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

Example: 2560 cu. ft. (volume of space) \div 50 cu. ft. = 51.2 or 51,200 (maximum Btu/Hr the space can support)

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

	Vent-free heater			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 heater	+	33,000	Btu/Hr
	Total	=	73,000	Btu/Hr
* D · ·	1 1 1 4 4 1	· т	1	1

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

4. 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: 51,200 Btu/Hr (maximum the space can support) 73,000 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:

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

Continued

AIR FOR COMBUSTION AND VENTILATION Continued

WARNING

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

VENTILATION AIR Ventilation Air From Inside Building

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

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

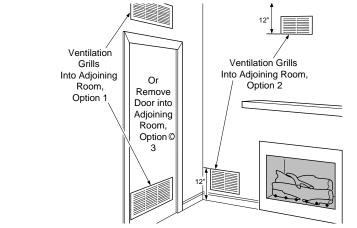


Figure 3 - Ventilation Air from Inside Building

Ventilation Air From Outdoors

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

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

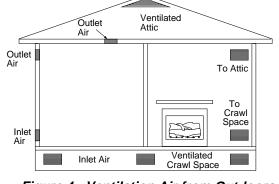


Figure 4 - Ventilation Air from Outdoors

NOTICE

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

NOTICE

State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.

Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. Inspect chimney flue for damage. If damaged, operate heater with flue damper closed.

A WARNING

Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heat-resistant sealant. Do not seal chimney flue damper.

Never install the heater

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

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

IMPORTANT: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See *Air for Combustion and Ventilation*, pages 5 through 8.

CHECK GAS TYPE

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

Continued

INSTALLATION AND CLEARANCES (Vent-Free Operation Only)

Continued

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

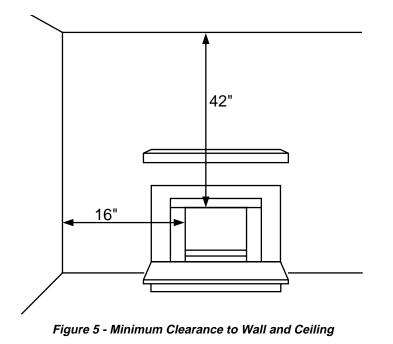
MINIMUM FIREPLACE CLEARANCE TO COMBUSTIBLE MATERIALS			
Log Size	Side Wall	Ceiling	Floor
18", 24", 30"	16"	42"	5"

LOG SIZING REQUIREMENTS			
Log Minimum Firebox Size			
Height	Depth	Front Width	Rear Width
17"	14"	20"	14"
17"	14"	26"	18"
17"	14"	32"	22"
	Minimum Height 17" 17"	Minimum Firebox SizeHeightDepth17"14"17"14"	Minimum Firebox Size Height Depth Front Width 17" 14" 20" 17" 14" 26"

Carefully follow the instructions below. This will ensure safe installation into a masonry or U.L. listed manufactured fireplace.

Minimum Wall and Ceiling Clearances (see Figure 5)

- A. Clearances from the side of the fireplace opening to any combustible wall should not be less than 16 inches.
- B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42 inches.



Continued

NOTICE

Manual control heaters may be used as a vented product. If so, you must always run heater with chimney flue damper open. If running heater with damper open, non-combustible material above fireplace opening is not needed. Go to *Installing Damper Clamp Accessory for Vented Operation*, page 14.

Minimum Non Combustible Material Clearances

If Not Using Mantel

Note: If using a mantel, go to page 12. If not using a mantel, follow the information on this page.

You must have non combustible material(s) above the fireplace opening. Non combustible materials (such as slate, marble, tile, etc.) must be at least 1/2 inch thick. With sheet metal, you must have non combustible material behind it. Non combustible material must extend at least 8" up (for all models). If non combustible material is less than 12", you must install the fireplace hood accessory (24" and 30" models only). See chart below and Figure 5 for minimum clearances.

IMPORTANT: If you cannot meet these minimum clearances, you must operate heater with chimney flue damper open. Go to *Installing Damper Clamp Accessory for Vented Operation*, page 14.

Noncombustible Material Distance (A)	Requirements for Safe Installation
12" or more	Noncombustible material OK.
Between 8" and 12"	24" or 30" Models: Install fireplace hood accessory (GA6050 or GA6052, see <i>Accessories,</i> page 35).
	18" Model: Noncombustible material OK.
Less than 8" Noncombustible material must be extended to at least 8". See <i>Betwe</i> <i>and 12"</i> , above. If you cannot exter material, you must operate heater flue damper open.	
Heat Resistant (A)	

Figure 6 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace Continued

Minimum Noncombustible Material Clearances

Continued If Using Mantel

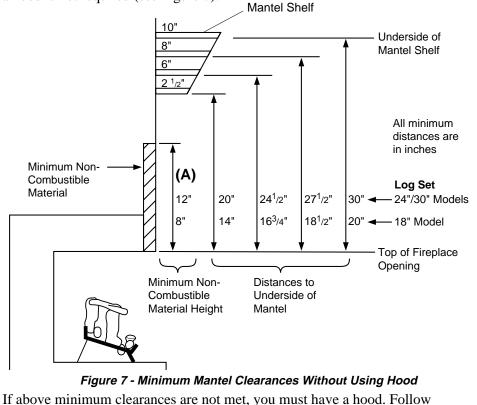
You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2 inch thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8 inches up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24" and 30" models only). Even if noncombustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See chart below and Figures 7 and 8 for minimum clearances.

IMPORTANT: If you cannot meet these minimum clearances, you must operate heater with chimney flue damper open. Go to *Installing Damper Clamp Accessory for Vented Operation,* page 14.

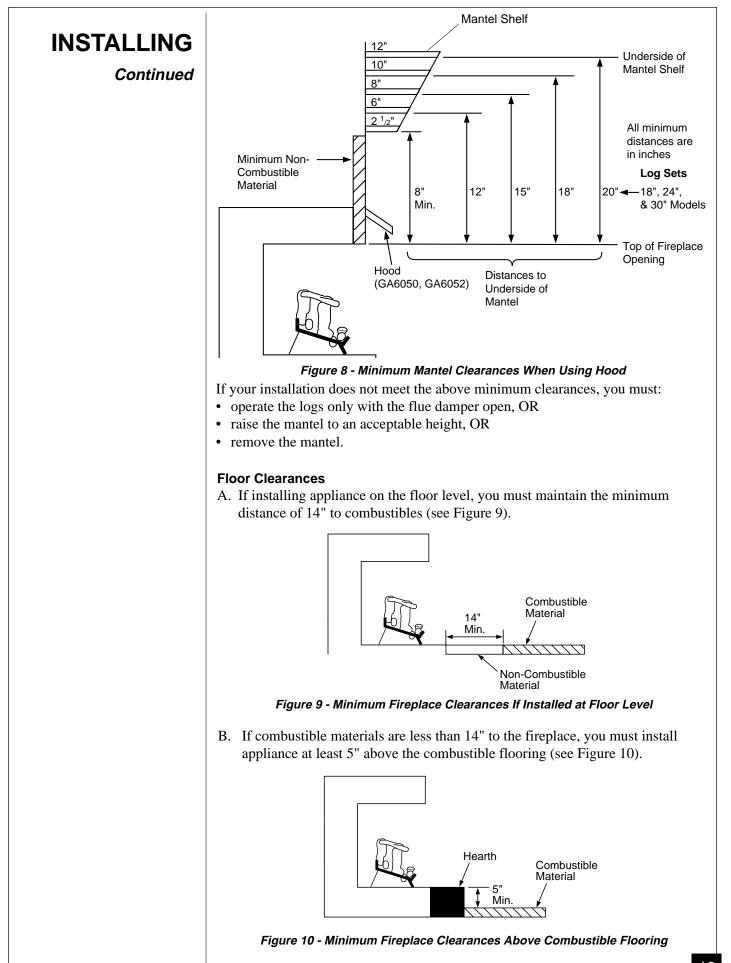
Noncombustible Material Distance (A)	Requirements for Safe Installation
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Between 8" and 12"	24" or 30" Models: Install fireplace hood accessory (GA6050 or GA6052, see <i>Accessories,</i> page 35).
	18" Model: Noncombustible material OK.
Less than 8"	Noncombustible material must be extended to at least 8". See <i>Between 8"</i> <i>and 12"</i> , above. If you cannot extend material, you must operate heater with flue damper open.

Mantel Clearances

If you meet minimum clearance between mantel shelf and top of fireplace opening, a hood is not required (see Figure 7).



minimum clearances shown in Figure 8 on page 13 when using hood.



INSTALLING DAMPER CLAMP ACCESSORY FOR VENTED OPERATION

Continued

Note: When used as a vented heater, appliance must be installed only in a solid-fuel burning fireplace with a working flue and constructed of non combustible material.

If your heater is a manually controlled model, you may use this heater as a vented product. There are three reasons for operating your heater in the vented mode.

- 1. The fireplace does not meet the clearance to combustibles requirements for vent-free operation.
- 2. State or local codes do not permit vent-free operation.
- 3. You prefer vented operation.

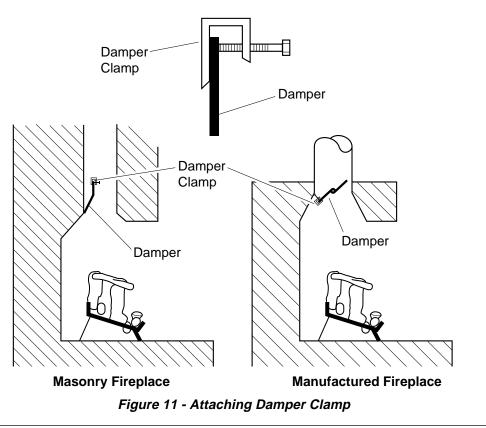
If reasons number 1 or 2 above apply to you, you must permanently open chimney flue damper. You must install the damper clamp accessory (to order, see *Accessories*, page 35). This will insure vented operation (see Figure 11). The damper clamp will keep damper open. Installation instructions are included with clamp accessory.

See chart below for minimum permanent flue opening you must provide. Attach damper clamp so the minimum permanent flue opening will be maintained at all times.

Chimney Height (ft.)	Minimum Permanent Flue Opening (sq. ins.)
6' to 15'	39 sq. inches
15' to 30'	29 sq. inches

Area of Various Standard Round Flues

Diameter (ins.)	Area (sq. ins.)
5"	20 sq. inches
6"	29 sq. inches
7"	39 sq. inches
8"	51 sq. inches



Continued

INSTALLING HEATER BASE ASSEMBLY

You must secure this heater to fireplace floor. If not, heater will move when you adjust controls. Moving heater may cause a gas leak.

If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to heater control panel. This will insure adequate air flow and guard against sooting. Raise fireplace floor with non-combustible material. Make sure material is secure.

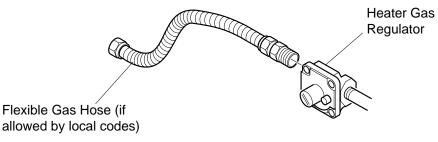
ACAUTION

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

IMPORTANT: Make sure the heater burners are level. If heater is not level, heater will not work properly. For thermostat models, avoid damage to thermostat bulb. Avoid nicks or sharp bends in thermostat bulb wire. Keep thermostat bulb in mounting bracket.

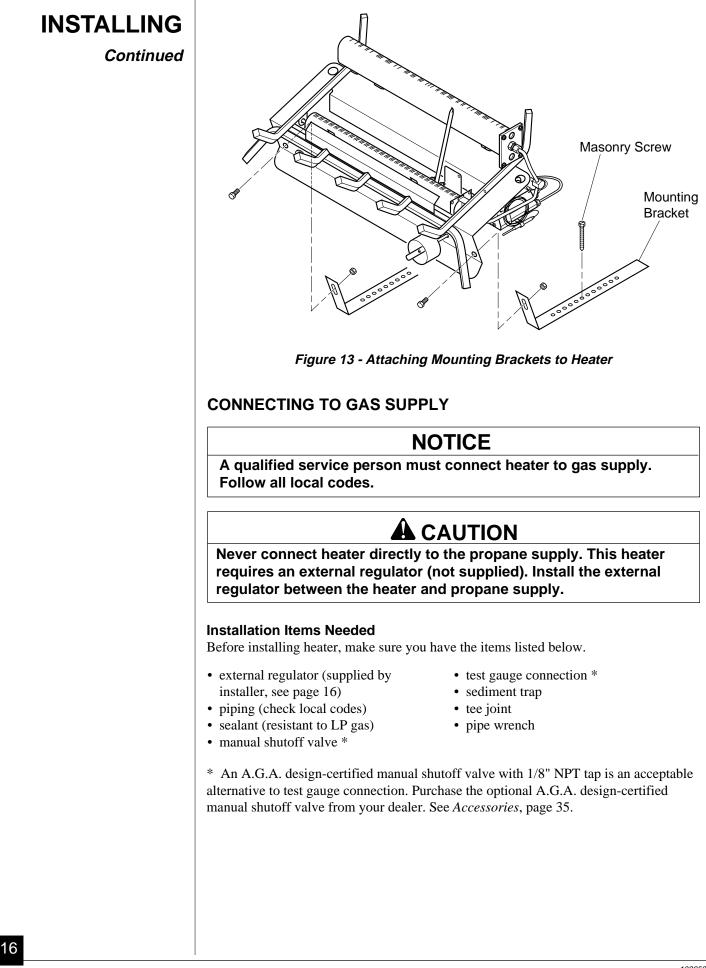
Installation Items Needed

- hardware package (provided with heater)
- approved flexible gas hose (not provided) (if allowed by local codes)
- sealant (resistant to LP gas, not provided)
- electric drill with 3/16" drill bit
- 1. Apply pipe joint sealant lightly to male threads of gas regulator. Connect approved flexible gas hose to gas regulator of heater (see Figure 12).
- *IMPORTANT:* Hold gas regulator with wrench when connecting flexible gas hose.Locate mounting brackets, bolts, and nuts in hardware package. Attach mounting brackets to heater base (see Figure 13, page 16). Attach nuts finger tight.
- 3. Position heater base assembly in fireplace.
- 4. Mark screw locations through holes in mounting brackets. If installing in a brickbottom fireplace, mark screw locations in mortar joint of bricks.
- 5. Remove heater base from fireplace. Remove mounting brackets from heater base.
- 6. Drill holes at marked locations using 3/16" drill bit.
- 7. Attach mounting brackets to fireplace floor using masonry screws (in hardware package).
- 8. Reattach heater base to mounting brackets. Tighten nuts firmly.
- 9. Connect to gas supply. See Connecting To Gas Supply, page 16.





Continued



Continued

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

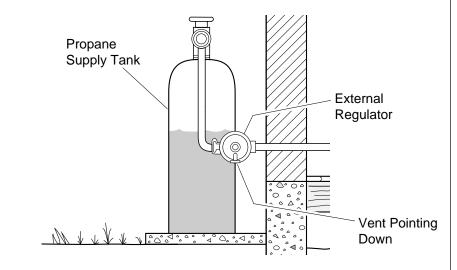


Figure 14 - External Regulator With Vent Pointing Down

Never connect heater to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

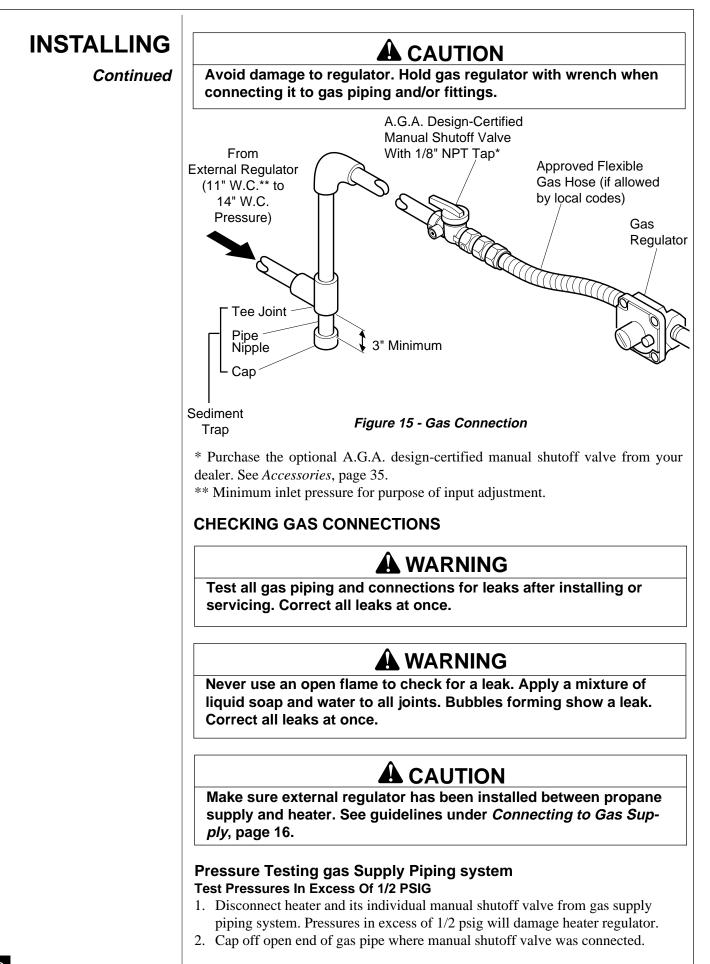
Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to heater. If pipe is too small, undue loss of pressure will occur.

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 heater (see Figure 15, page 18).

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 heater valves.

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

Install sediment trap in supply line as shown in Figure 15, page 18. 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 heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.



3. Pressurize supply piping system by either using compressed air or opening propane supply tank valve.

Continued

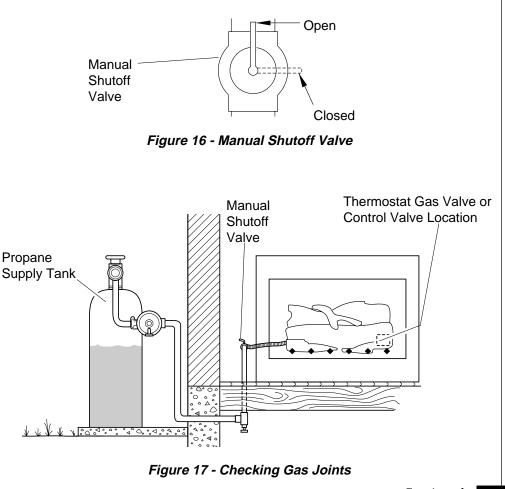
- 4. Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Re-connect heater and manual shutoff valve to gas supply. Check re-connected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG

- 1. Close manual shutoff valve (see Figure 16).
- 2. Pressurize supply piping system by either using compressed air or opening propane supply tank valve.
- 3. Check all joints from propane supply tank to manual shutoff valve (see Figure 16). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

Pressure Testing Heater Gas Connections

- 1. Open manual shutoff valve (see Figure 16).
- 2. Open propane supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- 4. Check all joints from manual shutoff valve to thermostat gas valve (thermostatcontrolled models) or control valve (manually-controlled models) (see Figure 16). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Light heater (see *Operating Heater*, pages 22 through 26). Check all other internal joints for leaks.
- 7. Turn off heater (see *To Turn Off Gas to Appliance*, page 24 [thermostatcontrolled models] or page 26 [manually-controlled models]).



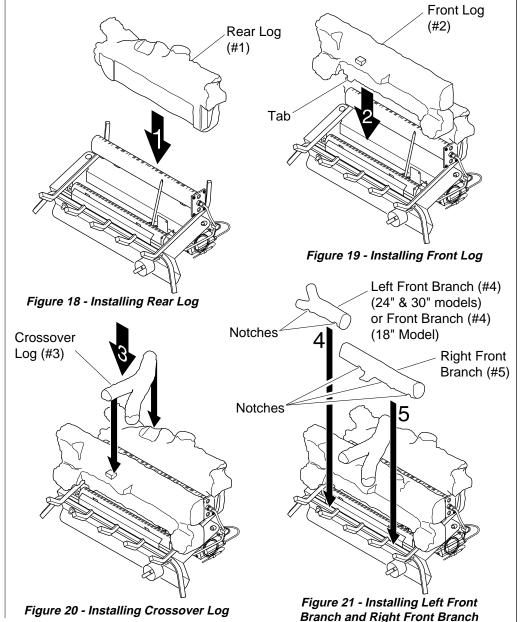
INSTALLING LOGS (Standard Oak Design Models)

Continued

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

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

- 1. Slide rear log (#1) into place behind rear burner (see Figure 18).
- 2. Slide front log (#2) into place behind front burner. Make sure tabs at bottom of log are behind front burner (see Figure 19).
- 3. Place crossover log (#3) into place (see Figure 20). Be sure to place back of crossover log into notch on left side of rear log. The indentation under front right fork of cross-over log must rest on rectangular knob of front log.
- 4. Place left front branch (#4) and right front branch (#5) (24" and 30" models) or front branch (#4) (18" model) into place (see Figure 21). Make sure notches on bottom rest on grates.
- 5. Add lava rock around base of heater.



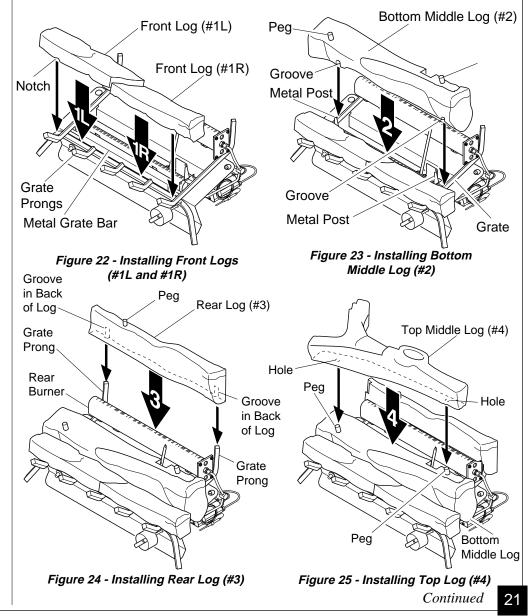
INSTALLING LOGS (Split Oak Design Models)

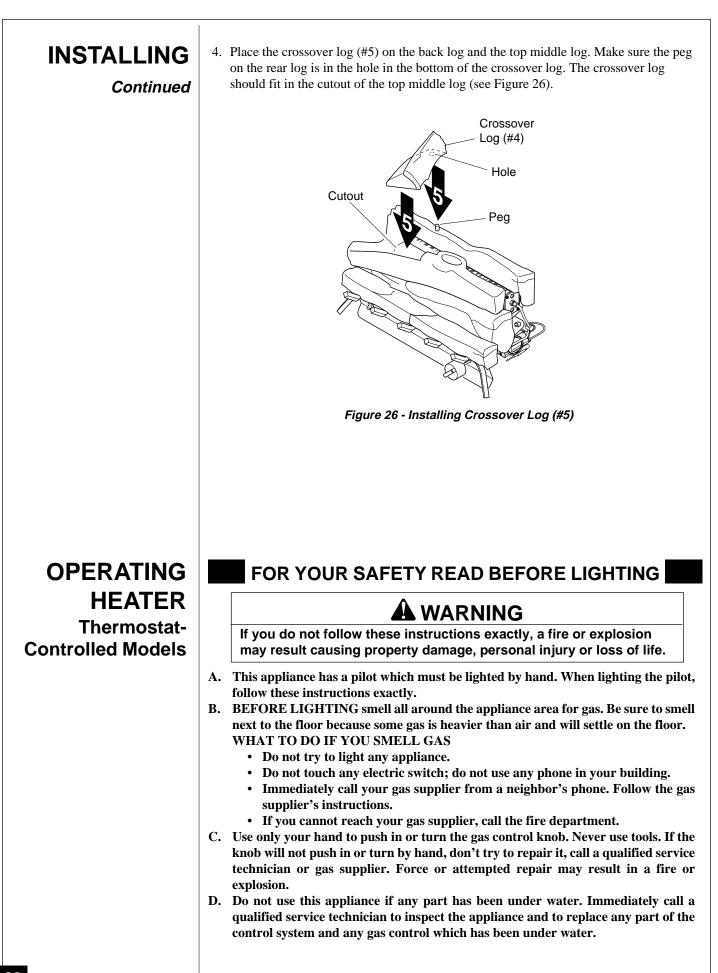
Continued

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

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

- 1. Place front logs (#1L and #1R) on top of the grate. Make sure the notches in the bottom of the logs fit over the grate prongs (see Figure 22). Push back of logs flush with metal grate bar. *Note:* 18" model has only one front log.
- 2. Rest bottom 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. The pegs on the log must be on top (see Figure 23).
- 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 24).
- 4. Place the top middle log (#4) on the bottom middle log (#2). Make sure the pegs of the bottom middle log fit securely in the holes of the top middle log (see Figure 25).





OPERATING HEATER Thermostat-**Controlled Models** Continued

LIGHTING INSTRUCTIONS

🗚 WARNING

- If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Also if fireplace opening has vents at the bottom, you must open the vents before operating heater.
- · You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

NOTICE

During initial operation of new heater, burning logs will give off a paperburning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

Note: Homeowners generally prefer to operate their heater with the chimney damper closed. This will put all the heat into the room. However there may be times you will desire the full flames of the Hi heat setting but will find the heat output excessive. You can open the chimney damper (if you have one) fully or partially to release some of the heat. WARNING: Damper handle will be hot if heater has been running.

- 1. STOP! Read the safety information above.
- 2. Make sure manual shutoff valve is fully open.
- 3. Turn control knob clockwise / **A** to the OFF position.

Ignitor Button

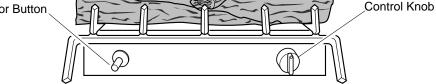


Figure 27 - Control Knob and Ignitor Button Location

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

Note: You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds or less. This will allow air to bleed from the gas system.

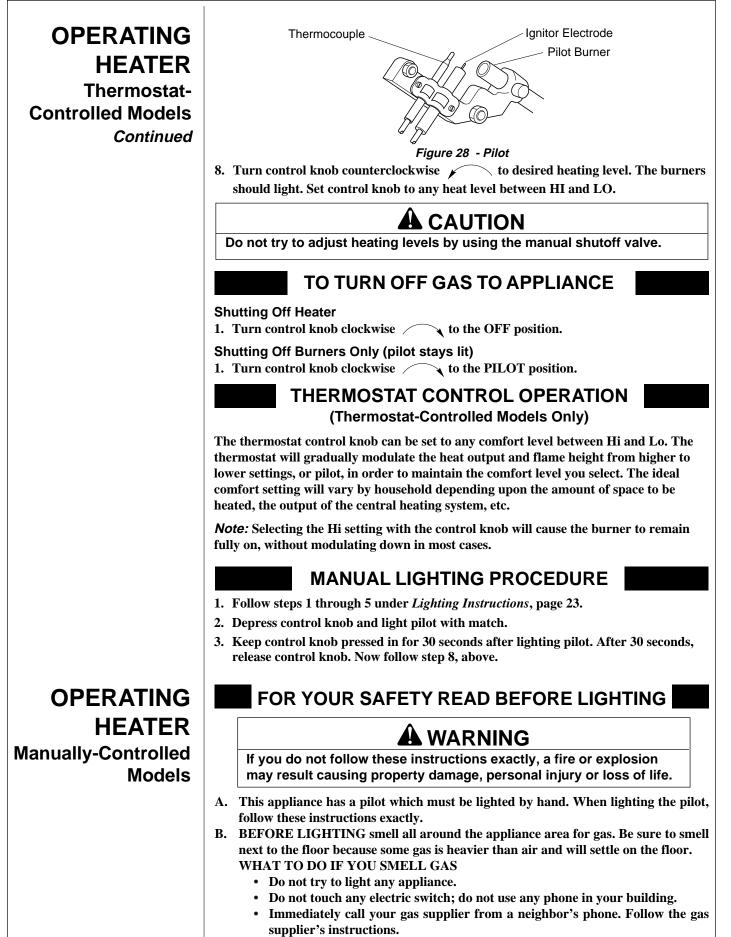
6. With control knob pressed in, press and release ignitor button. This will light pilot. The pilot is attached to the front burner. If needed, keep pressing ignitor button until pilot lights.

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 on page 24.

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

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

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



• If you cannot reach your gas supplier, call the fire department.

OPERATING HEATER Manually-Controlled Models *Continued*

- 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

- If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Also if fireplace opening has vents at the bottom, you must open the vents before operating heater.
- You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

NOTICE

During initial operation of new heater, burning logs will give off a paperburning smell. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

Note: Homeowners generally prefer to operate their heater with the chimney damper closed. This will put all the heat into the room. However there may be times you will desire the full flames of the High heat setting but will find the heat output excessive. You can open the chimney damper (if you have one) fully or partially to release some of the heat. WARNING: Damper handle will be hot if heater has been running.

- 1. STOP! Read the safety information above.
- 2. Make sure manual shutoff valve is fully open.
- 3. Press in and turn control knob clockwise 🔨 🥆 to the OFF position.

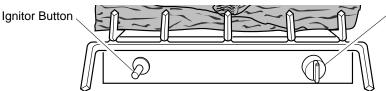


Figure 29 - Control Knob and Ignitor Button Location

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

Note: You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds. This will allow air to bleed from the gas system.

6. With control knob pressed 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.

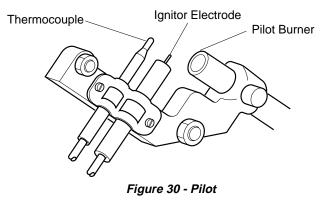
Note: If pilot does not light, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure* on page 26.

Control Knob

OPERATING HEATER Manually-Controlled Models *Continued*

- 7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
 - If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.

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



8. Push in and turn control knob counterclockwise \checkmark to the HIGH position. Both burners should light. Set control knob to desired setting.

VARIABLE CONTROL OPERATION

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

A WARNING

Do not operate heater between locked positions.

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



Shutting Off Heater

- 1. Press in and turn control knob clockwise / to the HIGH position.
- 2. Turn the control knob clockwise / to the PILOT position.
- 3. Press in control knob and turn clockwise / to the OFF Position.

Shutting Off Burners Only (pilot stays lit)

- 1. Turn the control knob clockwise / to the HIGH position.
- 2. Press in and turn control knob clockwise / to the pilot position.

MANUAL LIGHTING PROCEDURE

- 1. Follow steps 1 through 5 under Lighting Instructions, page 25.
- 2. Depress control knob and light pilot with match.
- 3. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow step 8, above.

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

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

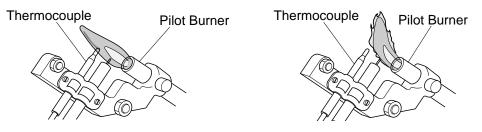
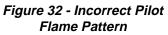


Figure 31 - Correct Pilot Flame Pattern



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

- turn heater off (see *To Turn Off Gas to Appliance*, page 24 [thermostat-controlled models] or page 26 [manually-controlled models])
- see *Troubleshooting*, pages 28 through 31

FRONT BURNER FLAME PATTERN

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

WARNING

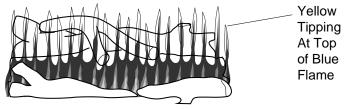
If yellow tipping occurs, your heater could produce increased levels of carbon monoxide. If front burner flame pattern shows yellow tipping, follow instructions at bottom of this page. Yellow flame on rear burner is normal.

NOTICE

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



CORRECT FLAME PATTERN AT HIGH POSITION Figure 33 - Correct Front Burner Flame Pattern



INCORRECT FLAME PATTERN AT HIGH POSITION

Figure 34 - Incorrect Front Burner Flame Pattern

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

- turn heater off (see *To Turn Off Gas to Appliance*, page 24 [thermostat-controlled models] or page 26 [manually-controlled models])
- see *Troubleshooting*, pages 28 through 31

CLEANING AND MAINTENANCE

Turn off heater and let cool before cleaning.

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

ODS/PILOT AND BURNERS

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

LOGS

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

TROUBLE-SHOOTING

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

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

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

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

TROUBLE- SHOOTING	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Continued	When ignitor button is pressed, there is spark at ODS/pilot but no ignition	 Gas supply turned off or manual shutoff valve closed Control knob not in PILOT position Control knob not pressed in while in PILOT position Air in gas lines when installed Depleted gas supply ODS/pilot is clogged 7. Gas regulator setting is 	 Turn on gas supply or open manual shutoff valve Turn control knob to PILOT position Press in control knob while in PILOT position Continue holding down control knob. Repeat igniting operation until air is removed Contact local propane gas company Clean ODS/pilot (see <i>Cleaning and Mainte- nance</i>, page 28) or replace ODS/pilot assembly Replace gas regulator
		not correct	
	ODS/pilot lights but flame goes out when control knob is released	 Control knob not fully pressed in Control knob not pressed in long enough Safety interlock system has been triggered 	 Press in control knob fully After ODS/pilot lights, keep control knob pressed in 30 seconds Wait one minute for safety interlock system to reset. Repeat ignition
		 Manual shutoff valve not fully open Pilot flame not touching thermocouple, which 	 operation 4. Fully open manual shut- off valve 5. A) Contact local propane gas company
		allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: A) Low gas pressure B) Dirty or partially clogged ODS/pilot	B) Clean ODS/pilot (see <i>Cleaning and Mainte-nance</i> , page 28) or replace ODS/pilot assembly
		6. Thermocouple connection loose at control valve	 Hand tighten until snug, then tighten 1/4 turn more
		 Thermocouple damaged Control valve damaged 	 Replace thermocouple Replace control valve
2653			Continued 29

TROUBLE-	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
SHOOTING Continued	One or both burners do not light after ODS/pilot is lit	 Inlet gas pressure is too low Burner orifice(s) clogged 	 Contact local natural gas company Clean burner(s) (see <i>Cleaning and Mainte-</i> <i>nance</i>, page 28) or
		 Mislocated crossover tube Burner orifice(s) diameter is too small 	replace burner orifice(s)3. Contact qualified service person4. Replace burner orifice(s)
	Delayed ignition of one or both burners	 Manifold pressure is too low Burner orifice(s) clogged 	 Contact local natural gas company Clean burner(s) (see <i>Cleaning and Mainte-</i> <i>nance</i>, page 28) or
		3. Mislocated crossover tube	replace burner orifice(s) 3. Contact qualified service person
	Burner backfiring during combustion	1. Burner orifice is clogged or damaged	1. Clean burner (see <i>Cleaning and Mainte-</i> <i>nance</i> , page 28) or replace burner orifice
		 Damaged burner Gas regulator defective 	 Replace damaged burner Replace gas regulator
	Yellow flame in front burner during burner combustion	1. Not enough air	1. Check burner(s) for dirt and debris. If found, clean burner(s) (see <i>Cleaning and Mainte-</i> <i>nance</i> , page 28)
		2. Gas regulator defective	2. Replace gas regulator
	Slight smoke or odor during initial opera- tion	1. Residues from manu- facturing processes and logs curing	1. Problem will stop after a few hours of operation
	Heater produces a whistling noise when burners are lit	 Turning control knob to HI position when burners are cold 	1. Turn control knob to LO position and let warm up for a minute
		2. Air in gas line	2. Operate burners until air is removed from line. Have gas line checked by local natural gas company
		3. Air passageways on heater blocked	3. Observe minimum installation clearances (see pages 10-13)
		 Dirty or partially clogged burner orifice(s) 	 4. Clean burners (see <i>Cleaning and Mainte-</i> <i>nance</i>, page 28) or replace burner orifice(s)
	Moisture/condensation noticed on windows	1. Not enough combustion/ ventilation air	1. Refer to <i>Air for Combus-</i> <i>tion and Ventilation</i> requirements (page 5)
			Continued

TROUBLE- SHOOTING Continued	• Shut • Do n • Do n use a • Immo neig supp • If you	WARNING mell gas off gas supply. ot try to light any appliant ot touch any electrical sw any phone in your building ediately call your gas sup hbor's phone. Follow olier's instructions. u cannot reach your gas su ire department.	itch; do not g. plier from a / the gas
	Cleaning supplies, paint carpet or textiles, etc., cr	g heater where impurities in air , paint remover, cigarette smol reate fumes. These fumes may rs will disappear over time.	ke, cements and glues, new
	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
	Heater 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 heaters. If noise is excessive, contact qualified service person
	Heater produces	1. Heater burning vapors	1. Open window to ventilate

clicking/ticking noise just after burners are lit or shut off	heating or contracting while cooling	most heaters. If noise is excessive, contact qualified service person
Heater produces unwanted odors	1. Heater burning vapors from paint, hair spray, glues, cleaners, chemi- cals, new carpet, etc. (See <i>IMPORTANT</i> statement above)	room. Stop using odor causing products while heater is running
	 Low fuel supply Gas leak. See Warning statement at top of page 	 Refill supply tank Locate and correct all leaks (see <i>Checking Gas</i> <i>Connections</i>, page 18)
Heater shuts off in use (ODS operates)	 Not enough fresh air is available Low line pressure ODS/pilot is partially clogged 	 Open window and/or door for ventilation Contact local propane gas company Clean ODS/pilot (see <i>Cleaning and Mainte-</i> <i>nance</i>, page 28)
Gas odor even when control knob is in OFF position	 Gas leak. See Warning statement at top of page Control valve defective 	 Locate and correct all leaks (see <i>Checking Gas</i> <i>Connections</i>, page 18) Replace control valve
Gas odor during combustion	 Foreign matter between control valve and burner Gas leak. See Warning statement at top of page 	 Take apart gas tubing and remove foreign matter Locate and correct all leaks (see <i>Checking Gas</i> <i>Connections</i>, page 18)
Log set cycles to pilot, but room temperature drops to a lower than ideal level before log set comes back on	1. Thermostat sensing bulb needs to be repositioned	1. Reposition thermostat sensing bulb (see <i>Instruc-</i> <i>tions for Optional Position-</i> <i>ing of Thermostat Sensing</i> <i>Bulb</i> , page 32)

OPTIONAL POSITIONING OF THERMOSTAT SENSING BULB For Masonry and Factory-built

Metal Fireplace

If your log set cycles to pilot, but the room temperature drops to a lower than ideal comfort level before the log set comes back on, you may want to reposition the thermostat sensing bulb.

The thermostat sensing bulb is located on the gas valve assembly. This location allows the thermostat to keep the room temperature at an ideal comfort level for most fireplace applications. For positioning the thermostat sensing bulb elsewhere, an adhesive-backed mounting clip has been provided.

Tools needed: 5/16" hex driver or socket

1. Locate the gas valve assembly and thermostat sensing bulb (see Figure 35).

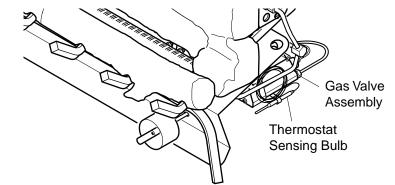


Figure 35 - Location of Gas Valve Assembly and Thermostat Sensing Bulb

2. The adhesive-backed mounting clip (see Figure 36) is attached to the thermostat sensing bulb. Remove the adhesive-backed mounting clip.



Figure 36 - Adhesive-backed Mounting Clip

With 5/16" hex driver or socket, loosen the thermostat screw. Carefully slide the thermostat sensing bulb out of the retaining clamp (see Figure 37).
 Note: Do not remove the screw. Make sure you tighten the screw after removing the

thermostat sensing bulb. *IMPORTANT:* Do not force or bend the thermostat sensing bulb or capillary.

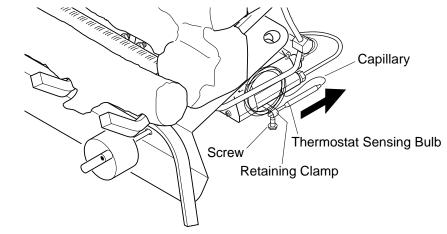


Figure 37 - Removing Thermostat Sensing Bulb

4. The thermostat sensing bulb may be located to the lower right front side of fireplace. Determine location of sensing bulb, but do not mount sensing bulb until step 5. If you have a masonry fireplace, see Figure 38 on page 33 for location.

OPTIONAL POSITIONING OF THERMOSTAT SENSING BULB

For Masonry and Factory-built Metal Fireplace Continued

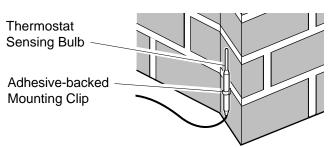


Figure 38 - Locating Thermostat Sensing Bulb on Masonry Fireplace

If you have a factory-built metal fireplace, see Figure 39 for location.

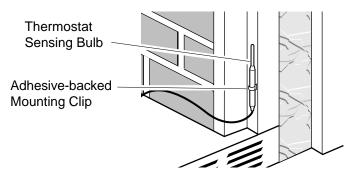


Figure 39 - Locating Thermostat Sensing Bulb on Factory-built Metal Fireplace

If your fireplace has glass doors, position sensing bulb directly behind door gap on right bottom side (see Figure 40).

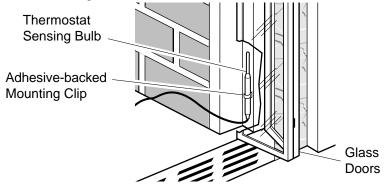
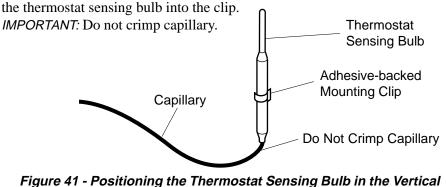


Figure 40 - Installing Thermostat Sensing Bulb behind Glass Doors

5. The mounting clip must be a minimum of 3" from bottom of fireplace to prevent crimping of capillary. Once you have decided on a location, clean the area thoroughly. Remove the paper backing from the adhesive on back of mounting clip. Press the clip into the new location so that the thermostat sensing bulb will be positioned vertically with the capillary at the bottom (see Figure 41). Slide



Position with the Capillary at the Bottom

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).

	18" Thermostat- Controlled	24" Thermostat- Controlled	30" Thermostat- Controlled
Btu (Variable)	16,000/26,000	20,000/33,000	21,500/36,000
Type Gas	Propane Only	Propane Only	Propane Only
Ignition	Piezo	Piezo	Piezo
Pressure Manifold	7.9" W.C.	7.9" W.C.	7.9" W.C.
Inlet Gas Pressure (in. of water))		
Maximum	14"	14"	14"
Minimum*	11"	11"	11"
* For purpose of input	t adjustment		
Shipping Weight	36 lbs.	38 lbs.	40 lbs.
	18" Variable Manually- Controlled	24" Variable Manually- Controlled	30" Variable Manually- Controlled
Btu (Variable)	16,000/26,000	20,000/33,000	21,500/36,000
Type Gas	Propane Only	Propane Only	Propane Only
Ignition	Piezo	Piezo	Piezo
Pressure Manifold	7.9" W.C.	7.9" W.C.	7.9" W.C.
Inlet Gas Pressure (in. of water))		
Maximum	14"	14"	14"
Minimum*	11"	11"	11"
* For purpose of input	t adjustment		
Shipping Weight	29 lbs.	31 lbs.	39 lbs.

SERVICE HINTS

When gas pressure is too low

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

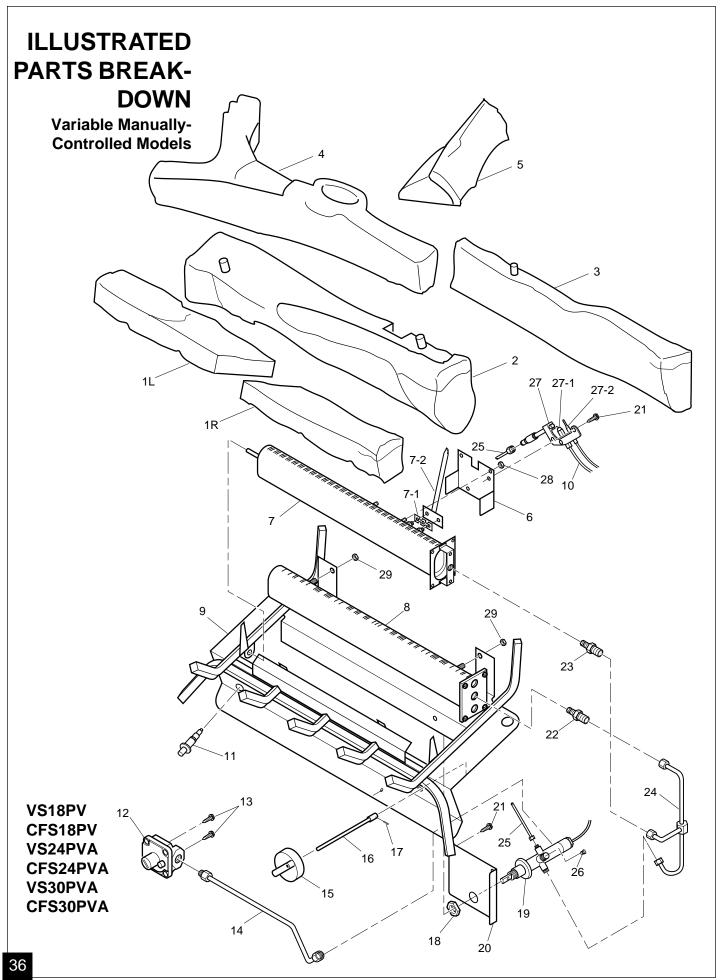
When gas quality is bad

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

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

REPLACEMENT Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty. PARTS 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 1-800-323-5190. When calling DESA International, have ready • your name • your address • model number of your heater • how heater was malfunctioning • type of gas used (propane or natural gas) • purchase date Usually, we will ask you to return the defective part to the factory. Parts Not Under Warranty Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA International's Parts Department at 1-800-972-7879 for referral information. When calling DESA International, have ready • model number of your heater • the replacement part number ACCESSORIES Purchase these heater accessories from your local dealer. If they can not supply these accessories, call DESA International's Parts Department at 1-800-972-7879 for referral information. You can also write to the address listed on the back page of this manual. MANUAL SHUTOFF **VALVE - GA5010** For all models. Manual shutoff valve with 1/8" NPT tap. Fits 1/2" NPT pipe. **BLACK FIREPLACE HOOD - GA6050** For all models. Helps deflect heat away from mantel or wall above fireplace. **BRASS FIREPLACE** HOOD - GA6052 For all models. Helps deflect heat away from mantel or wall above fireplace. **DAMPER CLAMP - GA6080** For manually controlled models. Permanently opens chimney flue damper for vented operation.

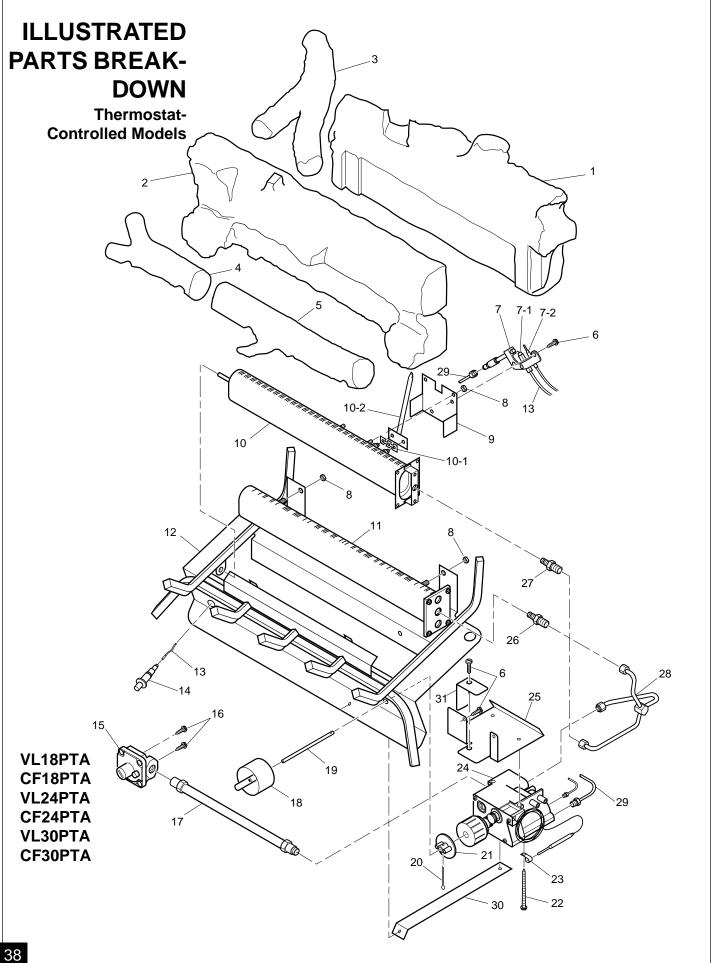
LAVA ROCK - GA6060 For all models. Order when additional rock is desired. (3 lb. bag)



PARTS LIST Variable Manually-Controlled Models

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 35 of this manual.

1L 102474-01 102474-03 Left Front Log (#1L) 1 1R 102475-01 102474-02 102475-03 Bottom Middle Log (#2) 1 3 102478-02 102477-01 102477-03 Rear Log (#3) 1 4 102477-02 102477-01 102477-03 Top Middle Log (#4) 1 5 102479-02 102477-01 102477-03 Top Middle Log (#4) 1 6 101006-01 101006-01 1012477-03 Top Middle Log (#4) 1 7 101330-04 101330-05 107330-06 Front Burner Assembly 1 7-1 101008-01 101008-01 Crossover Burner 1 8 100999-01 100399-02 100399-03 Rear Burner Assembly 1 10 08271-07 098271-06 198271-06 Ignitor Cable 1 11 102445-01 102445-01 098367-10 Gas Regulator 1 12 098867-10 098354-01 Control Knob 1 <t< th=""><th>KEY</th><th colspan="2">PART NUMBER FOR</th><th></th><th></th></t<>	KEY	PART NUMBER FOR				
1R 102474-04 102474-02 102474-02 Right Front Log (#1R) 1 2 102475-01 102475-02 102475-03 Bottom Middle Log (#2) 1 3 102478-02 102478-01 102477-03 Rear Log (#3) 1 4 102477-02 102479-01 102479-01 Crossover Log (#4) 1 5 102479-02 102479-01 Crossover Log (#5) 1 6 101006-01 101006-01 101008-01 Crossover Burner Gasket 1 7-1 101008-01 101009-01 Crossover Burner Gasket 1 7-2 101007-01 101009-02 10099-03 Rear Burner Assembly 1 8 100999-01 10999-02 10099-03 Rear Burner Assembly 1 9 101331-08 101331-09 Base Assembly 1 1 10 098271-07 098271-06 198271-07 198245-01 Piezolgnitor 1 11 102445-01 102445-01 Piezolgnitor 1 1 </th <th>NO.</th> <th>VS18PV/CFS18PV</th> <th>VS24PVA/CFS24PVA</th> <th>VS30PVA/CFS30PVA</th> <th>DESCRIPTION</th> <th>QTY.</th>	NO.	VS18PV/CFS18PV	VS24PVA/CFS24PVA	VS30PVA/CFS30PVA	DESCRIPTION	QTY.
2 102475-01 102475-02 102478-03 Bottom Middle Log (#2) 1 3 102478-02 102478-01 102478-03 Rear Log (#3) 1 4 102477-02 102477-01 102477-03 Top Middle Log (#4) 1 5 102479-02 102479-01 102479-01 Crossover Log (#5) 1 6 101006-01 101006-01 101006-01 Pilot Bracket 1 7.1 101330-04 101330-05 101330-06 Front Burner Assembly 1 7.2 101007-01 101008-01 101008-01 Crossover Burner 1 8 10099-01 100999-02 100999-03 Rear Burner Assembly 1 10 098271-07 098271-06 098271-06 Ignitor Cable 1 11 102445-01 102445-01 102445-01 PiezoIgnitor 1 12 098867-10 098867-10 Gas Regulator 1 1 13 M11084-38 M11084-38 Screw 2 1 </td <td>1L</td> <td>_</td> <td>102474-01</td> <td>102474-03</td> <td>Left Front Log (#1L)</td> <td>1</td>	1L	_	102474-01	102474-03	Left Front Log (#1L)	1
3 102478-02 102478-01 102478-03 Rear Log (#3) 1 4 102477-02 102477-01 102477-03 Top Middle Log (#4) 1 5 102479-02 102477-01 102477-03 Top Siddle Log (#4) 1 6 101006-01 101006-01 101006-01 Pilot Bracket 1 7 101330-04 101330-05 101330-06 Front Burner Assembly 1 7-1 101008-01 101008-01 101007-01 Crossover Burner Assembly 1 9 101331-10 101331-08 101331-09 Base Assembly (Includes Decals) 1 10 098271-06 098271-06 Ignitor Cable 1 1 11 102445-01 102445-01 098467-10 Gas Regulator 1 13 M11084-38 M11084-38 M11084-38 Screw 2 14 101011-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 Ogn8462-03 Control Rod	1R	102474-04	102474-02	102474-02	Right Front Log (#1R)	1
4 102477-02 102477-01 102477-03 Top Middle Log (#4) 1 5 102479-02 102479-01 102479-01 Crossover Log (#5) 1 6 101006-01 101006-01 101006-01 Pilot Bracket 1 7 10130-04 101330-05 101330-06 Front Burner Assembly 1 7-1 101008-01 101008-01 Crossover Burner Casket 1 7-2 10007-01 101007-01 101007-01 Crossover Burner Assembly 1 9 101331-10 101331-08 101331-09 Base Assembly (Includes Decals) 1 10 098271-07 098271-06 Ugnitor Cable 1 1 11 102445-01 102445-01 Piezo Ignitor 1 12 098867-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 Screw 2 14 10101-01 10101-02 10101-03 Inlet Tube 1 15 098354-01 098354-01 <td>2</td> <td>102475-01</td> <td>102475-02</td> <td>102475-03</td> <td>Bottom Middle Log (#2)</td> <td>1</td>	2	102475-01	102475-02	102475-03	Bottom Middle Log (#2)	1
5 102479-02 102479-01 102479-01 Crossover Log (#5) 1 6 101006-01 101006-01 101006-01 Pilot Bracket 1 7 101330-04 101330-05 101330-06 Front Burner Assembly 1 7-1 101008-01 101008-01 101008-01 Crossover Burner Gasket 1 8 100999-01 100999-02 100999-03 Rear Burner Assembly 1 9 10131-10 101331-08 101331-09 Base Assembly (Includes Decals) 1 11 102445-01 102445-01 102445-01 Base Assembly (Includes Decals) 1 12 09867-10 098867-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 Screw 2 1 14 10101-01 10101+02 10101+03 Inlet Tube 1 15 098354-01 098354-01 098354-01 Control Knob 1 16 098462-03 098462-03 Control Rod 1 </td <td>3</td> <td>102478-02</td> <td>102478-01</td> <td>102478-03</td> <td>Rear Log (#3)</td> <td>1</td>	3	102478-02	102478-01	102478-03	Rear Log (#3)	1
6 101006-01 101006-01 Pilot Bracket 1 7 101330-04 101330-05 101330-06 Front Burner Assembly 1 7-1 101008-01 101008-01 101008-01 Crossover Burner Gasket 1 7-2 101007-01 101007-01 100099-02 100999-03 Rear Burner Assembly 1 8 100999-01 10131-08 10131-09 Base Assembly (Includes Decals) 1 10 098271-07 098271-06 Ignitor Cable 1 11 102445-01 102445-01 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 M11084-38 Screw 2 14 10111-01 10101-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 Control Knob 1 16 098462-03 098462-03 Control Rod 1 17 098325-01 098352-01 Valve Retainer Nut 1 18 098080-01 098508-01	4	102477-02	102477-01	102477-03	Top Middle Log (#4)	1
7 101330-04 101330-05 101330-06 Front Burner Assembly 1 7-1 101008-01 101008-01 101008-01 Crossover Burner Gasket 1 7-2 101007-01 101007-01 101007-01 Crossover Burner Gasket 1 8 100999-01 10099-02 100999-03 Rear Burner Assembly 1 9 101331-10 101331-08 101331-09 Base Assembly (Includes Decals) 1 11 102445-01 102445-01 102445-01 Piezo Ignitor 1 12 09867-10 098867-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 M11084-38 Screw 2 14 10101-01 10101-02 10101-03 Inlet Tube 1 15 098462-03 098462-03 OS4462-03 Control Knob 1 16 098462-03 098462-03 Control Knob 1 19 102568-02 102568-02 Gas Valve 1 10	5	102479-02	102479-01	102479-01	Crossover Log (#5)	1
7-1 101008-01 101008-01 101008-01 Crossover Burner Gasket 1 7-2 101007-01 101007-01 101007-01 Crossover Burner 1 8 100999-01 100999-02 100999-03 Rear Burner Assembly 1 9 101331-10 10131-08 101331-09 Base Assembly (Includes Decals) 1 10 098271-07 098271-06 098271-06 Ignitor Cable 1 11 102445-01 102445-01 094867-10 Gas Regulator 1 13 M11084-38 M11084-38 M11084-38 Screw 2 14 101011-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 098325-01 Roll Pin 1 16 098462-03 098462-03 Control Rod 1 1 18 098508-01 Valve Retainer Nut 1 1 19 102568-02 102568-02 Gas Valve 1 21 M11084-26 <td>6</td> <td>101006-01</td> <td>101006-01</td> <td>101006-01</td> <td>Pilot Bracket</td> <td>1</td>	6	101006-01	101006-01	101006-01	Pilot Bracket	1
7-2 101007-01 10107-01 Crossover Burner 1 8 100999-01 100999-02 100999-03 Rear Burner Assembly 1 9 101331-10 101331-08 101331-09 Base Assembly (Includes Decals) 1 10 098271-07 098271-07 098271-07 098271-07 098271-07 102445-01 102445-01 11 11 102445-01 102445-01 098867-10 Gas Regulator 1 12 098667-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 Screw 2 14 10101-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 Control Knob 1 16 098462-03 098462-03 Control Knob 1 17 098325-01 098508-01 098508-01 Valve Retainer Nut 1 18 098508-01 098508-01 098508-01 Valve Retainer Nut 1 19 <t< td=""><td>7</td><td>101330-04</td><td>101330-05</td><td>101330-06</td><td>Front Burner Assembly</td><td>1</td></t<>	7	101330-04	101330-05	101330-06	Front Burner Assembly	1
8 100999-01 100999-02 100999-03 Rear Burner Assembly 1 9 101331-10 101331-08 101331-09 Base Assembly (Includes Decals) 1 10 098271-07 098271-06 098271-06 Ignitor Cable 1 11 102445-01 102445-01 102445-01 Piezo Ignitor 1 12 098667-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 Screw 2 14 101011-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 098354-01 Control Rod 1 17 098325-01 098325-01 098325-01 Roil Pin 1 18 098508-01 098508-01 098508-01 Valve Retainer Nut 1 19 102568-02 102568-02 Gas Valve 1 1 20 101005-01 101004-02 Rear Burner Injector 1 1 21 101004-10	7-1	101008-01	101008-01	101008-01	Crossover Burner Gasket	1
9 101331-10 101331-08 101331-09 Base Assembly (Includes Decals) 1 10 098271-07 098271-06 098271-06 Ignitor Cable 1 11 102445-01 102445-01 102445-01 Gas Regulator 1 12 098867-10 098867-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 M11084-38 Screw 2 14 101011-01 101011-02 101011-03 Inlet Tube 1 16 098354-01 098354-01 098354-01 Control Knob 1 17 098325-01 098325-01 098325-01 098325-01 098325-01 098325-01 098325-01 098508-01 Valve Retainer Nut 1 19 102568-02 102568-02 102568-02 Gas Valve 1 1 20 101005-01 101005-01 Valve Bracket 1 1 21 M11084-26 M11084-26 Screw 4 1 22 <	7-2	101007-01	101007-01	101007-01	Crossover Burner	1
10 098271-07 098271-06 098271-06 Ignitor Cable 1 11 102445-01 102445-01 102445-01 Piezo Ignitor 1 12 098867-10 098867-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 M11084-38 Screw 2 14 101011-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 098354-01 Control Knob 1 16 098462-03 098462-03 Control Rod 1 17 098325-01 098325-01 098325-01 Valve Retainer Nut 1 18 098508-01 098508-01 Valve Bracket 1 1 20 101005-01 101005-01 Valve Bracket 1 1 21 M11084-26 M11084-26 Screw 4 2 21 101004-10 101004-02 Rear Burner Injector 1 23 101004-10 101004-06 <	8	100999-01	100999-02	100999-03	Rear Burner Assembly	1
11 102445-01 102445-01 Piezo Ignitor 1 12 098867-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 M11084-38 Screw 2 14 101011-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 098354-01 Control Knob 1 16 098462-03 098462-03 Control Rod 1 17 098325-01 098325-01 098325-01 Roll Pin 1 18 098508-01 098508-01 Valve Retainer Nut 1 1 19 102568-02 102568-02 Gas Valve 1 1 20 101005-01 101005-01 Valve Bracket 1 21 M11084-26 M11084-26 Screw 4 22 101004-10 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 Rear Burner Injector 1 24 102258-01<	9	101331-10	101331-08	101331-09	Base Assembly (Includes Decals)	1
12 098867-10 098867-10 Gas Regulator 1 13 M11084-38 M11084-38 M11084-38 Screw 2 14 101011-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 Control Knob 1 16 098462-03 098462-03 Control Knob 1 17 098325-01 098325-01 Roll Pin 1 18 098508-01 098508-01 Valve Retainer Nut 1 19 102568-02 102568-02 Gas Valve 1 20 101005-01 101005-01 Valve Bracket 1 21 M1084-26 M11084-26 Screw 4 22 101004-10 101004-02 Rear Burner Injector 1 24 102258-01 102258-01 102258-01 1225 109387-08 099387-08 99387-08 Pilot Tube 1 25 093276-01 098276-01 1/8" Plug 1	10	098271-07	098271-06	098271-06	Ignitor Cable	1
13 M11084-38 M11084-38 M11084-38 Screw 2 14 101011-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 098354-01 Control Knob 1 16 098462-03 098462-03 Control Rod 1 17 098325-01 098325-01 098325-01 Roll Pin 1 18 098508-01 098508-02 102568-02 Gas Valve 1 20 101005-01 101005-01 101005-01 Valve Retainer Nut 1 21 M11084-26 M11084-26 M11084-26 Screw 4 22 101004-10 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 101004-06 Front Burner Injector 1 24 102258-01 102258-01 Burner Tube 1 24 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 Pilot Tube 1 <td>11</td> <td>102445-01</td> <td>102445-01</td> <td>102445-01</td> <td>Piezo Ignitor</td> <td>1</td>	11	102445-01	102445-01	102445-01	Piezo Ignitor	1
14 101011-01 101011-02 101011-03 Inlet Tube 1 15 098354-01 098354-01 098354-01 Control Knob 1 16 098462-03 098462-03 098462-03 Control Rod 1 17 098325-01 098325-01 098325-01 Roll Pin 1 18 098508-01 098508-01 Valve Retainer Nut 1 19 102568-02 102568-02 Gas Valve 1 20 101005-01 101005-01 Valve Bracket 1 21 M11084-26 M11084-26 Screw 4 22 101004-10 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 Rear Burner Injector 1 24 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02	12	098867-10	098867-10	098867-10	Gas Regulator	1
15 098354-01 098354-01 098354-01 Control Knob 1 16 098362-03 098462-03 098462-03 Control Rod 1 17 098325-01 098325-01 098325-01 Roll Pin 1 18 098508-01 098508-01 098508-01 Valve Retainer Nut 1 19 102568-02 102568-02 102568-02 Gas Valve 1 20 101005-01 101005-01 Valve Bracket 1 21 M11084-26 M11084-26 Screw 4 22 101004-10 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 Numer Tube 1 24 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 1/8" Plug 1 27-2 098593-01 098593-01 Ignitor Electrode 1 27-2 098593-01	13	M11084-38	M11084-38	M11084-38	Screw	2
16 098462-03 098462-03 Control Rod 1 17 098325-01 098325-01 098325-01 Roll Pin 1 18 098508-01 098508-01 098508-01 Valve Retainer Nut 1 19 102568-02 102568-02 Gas Valve 1 20 101005-01 101005-01 Valve Bracket 1 21 M11084-26 M11084-26 Screw 4 22 101004-10 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 Rear Burner Injector 1 24 102258-01 102258-01 Burner Tube 1 25 09937-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 09059-02 0.0.5. Pilot 1 27-1 098594-01 098593-01 108593-01 Thermocouple 1 27-2 098593-01 098249-01	14	101011-01	101011-02	101011-03	Inlet Tube	1
17 098325-01 098325-01 098325-01 Roll Pin 1 18 098508-01 098508-01 098508-01 Valve Retainer Nut 1 19 102568-02 102568-02 02268-02 Gas Valve 1 20 101005-01 101005-01 101005-01 Valve Bracket 1 21 M11084-26 M11084-26 Screw 4 22 101004-10 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 Rear Burner Injector 1 24 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 0.0.D.S. Pilot 1 27-2 098593-01 098593-01 198593-01 1 1 27-2 098593-01 098593-01 Nut 4 28 098249-01 098249-01 Nut 4 29 100563-01	15	098354-01	098354-01	098354-01	Control Knob	1
18 098508-01 098508-01 098508-01 Valve Retainer Nut 1 19 102568-02 102568-02 102568-02 Gas Valve 1 20 101005-01 101005-01 101005-01 Valve Bracket 1 21 M11084-26 M11084-26 M11084-26 Screw 4 22 101004-10 101004-01 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 101004-06 Front Burner Injector 1 24 102258-01 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 0.90.5. Pilot 1 1 27.1 098594-01 098593-01 098593-01 Ignitor Electrode 1 27.2 098593-01 098249-01 098249-01 Nut 4	16	098462-03	098462-03	098462-03	Control Rod	1
19 102568-02 102568-02 102568-02 Gas Valve 1 20 101005-01 101005-01 101005-01 Valve Bracket 1 21 M11084-26 M11084-26 Screw 4 22 101004-10 101004-01 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 101004-06 Front Burner Injector 1 24 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 0.0.D.S. Pilot 1 27.1 098594-01 098594-01 Ignitor Electrode 1 27.2 098593-01 098593-01 Nut 4 28 098249-01 098249-01 Nut 4 LARTS AVENE – NOT SHOWN 29 100563-01 100563-01 Nut 4 20	17	098325-01	098325-01	098325-01	Roll Pin	1
20 101005-01 101005-01 Valve Bracket 1 21 M11084-26 M11084-26 Screw 4 22 101004-10 101004-01 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 101004-06 Front Burner Injector 1 24 102258-01 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 0.0.5. Pilot 1 27.1 098594-01 098594-01 098593-01 1 1 27.2 098593-01 098593-01 Ignitor Electrode 1 1 27.2 098593-01 098249-01 098249-01 Nut 4 28 098249-01 098249-01 Nut 4 1 27.2 09850-01 100563-01 Nut 1	18	098508-01	098508-01	098508-01	Valve Retainer Nut	1
21 M11084-26 M11084-26 M11084-26 Screw 4 22 101004-10 101004-01 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 101004-06 Front Burner Injector 1 24 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 0.D.S. Pilot 1 27.1 098594-01 098594-01 098593-01 Ignitor Electrode 1 27.2 098593-01 098593-01 098593-01 Nut 4 27.2 098593-01 098593-01 098593-01 Intermocouple 1 28 098249-01 098249-01 098249-01 Nut 4 100563-01 100563-01 100563-01 Nut 1 101055-02 101055-02 101055-02 Lighting Instructions Plate 1 100563-01 100563-01 100563	19	102568-02	102568-02	102568-02	Gas Valve	1
22 101004-10 101004-01 101004-02 Rear Burner Injector 1 23 101004-10 101004-02 101004-06 Front Burner Injector 1 24 102258-01 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 09059-02 O.D.S. Pilot 1 27-1 098594-01 098594-01 Ignitor Electrode 1 27-2 098593-01 098593-01 Nut 4 28 098249-01 098593-01 098249-01 1 28 098249-01 098249-01 098249-01 Nut 4 PARTS AV-LABLE - NOT SHOWN Interfeature 1 101055-02 101055-02 101055-02 Lighting Instructions Plate 1 100565-01 100565-01 100565-01 Warning Plate Fastener 1 100639-01 100639-01 100639-01	20	101005-01	101005-01	101005-01	Valve Bracket	1
23 101004-10 101004-02 101004-06 Front Burner Tube 1 24 102258-01 102258-01 102258-01 Burner Tube 1 25 099387-08 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 0.D.S. Pilot 1 27-1 098594-01 098594-01 Ignitor Electrode 1 27-2 098593-01 098593-01 Intermocouple 1 27-2 098593-01 098593-01 098249-01 Nut 4 PARTS AV-LLABLE — NOT SHOWN Lotof63-01 100563-01 100563-01 1 100563-01 100563-01 100563-01 Lighting Instructions Plate 1 100565-01 100565-01 100565-01 Warning Plate Fastener 1 100639-01 100639-01 100639-01 Caution Decal 1	21	M11084-26	M11084-26	M11084-26	Screw	4
24102258-01102258-01102258-01Burner Tube125099387-08099387-08099387-08Pilot Tube126098276-01098276-01098276-011/8" Plug127099059-02099059-02099059-02O.D.S. Pilot127-1098594-01098594-01098593-01Ignitor Electrode127-2098593-01098593-01098593-01Thermocouple128098249-01098249-01098249-01Nut4PARTS AV-LABLE — NOT SHOWI 100563-01100563-01100563-011100565-01100565-01100565-01Lighting Instructions Plate1100565-01100565-01100565-01Warning Plate Fastener1100639-01100639-01100639-01100639-011	22	101004-10	101004-01	101004-02	Rear Burner Injector	1
25 099387-08 099387-08 099387-08 Pilot Tube 1 26 098276-01 098276-01 098276-01 1/8" Plug 1 27 099059-02 09059-02 09059-02 0.D.S. Pilot 1 27-1 098594-01 098594-01 098593-01 Ignitor Electrode 1 27-2 098593-01 098593-01 098593-01 Thermocouple 1 28 098249-01 098249-01 098249-01 Nut 4 PARTS AV=NOT SHOWN LABLE — NOT SHOWN 100563-01 100563-01 100563-01 1 100563-01 100563-01 100563-01 Lighting Instructions Plate 1 100565-01 100565-01 100565-01 Warning Plate Fastener 1 100639-01 100639-01 100639-01 Caution Decal 1	23	101004-10	101004-02	101004-06	Front Burner Injector	1
26 098276-01 098276-01 098276-01 1/8" Plug 1 27 099059-02 099059-02 099059-02 0.D.S. Pilot 1 27-1 098594-01 098594-01 098594-01 Ignitor Electrode 1 27-2 098593-01 098593-01 098593-01 Thermocouple 1 28 098249-01 098249-01 098249-01 Nut 4 PARTS AVAILABLE — NOT SHOWN I 100563-01 100563-01 100563-01 1 100563-01 100563-01 100563-01 Userning Plate 1 100565-01 100565-01 100565-01 Ugning Plate Fastener 1 100639-01 100639-01 100639-01 Caution Decal 1	24	102258-01	102258-01	102258-01	Burner Tube	1
27 099059-02 099059-02 099059-02 O.D.S. Pilot 1 27-1 098594-01 098594-01 098594-01 Ignitor Electrode 1 27-2 098593-01 098593-01 098593-01 Thermocouple 1 28 098249-01 098249-01 098249-01 Nut 4 PARTS AVAILABLE — NOT SHOWN I 100563-01 100563-01 Warning Plate 1 101055-02 101055-02 101055-02 Lighting Instructions Plate 1 100565-01 100565-01 100565-01 Warning Plate Fastener 1 100639-01 100639-01 100639-01 Caution Decal 1	25	099387-08	099387-08	099387-08	Pilot Tube	1
27-1 098594-01 098594-01 098594-01 Ignitor Electrode 1 27-2 098593-01 098593-01 098593-01 Thermocouple 1 28 098249-01 098249-01 098249-01 Nut 4 PARTS AV-ILABLE — NOT SHOWN I 100563-01 100563-01 100563-01 1 100563-01 100563-01 100563-01 Warning Plate 1 100565-01 100565-01 100565-01 Lighting Instructions Plate 1 100563-01 100565-01 100639-01 100639-01 1	26	098276-01	098276-01	098276-01	1/8" Plug	1
27-2 098593-01 098593-01 098593-01 Thermocouple 1 28 098249-01 098249-01 098249-01 Nut 4 PARTS AVAILABLE — NOT SHOWN 100563-01 100563-01 100563-01 100563-01 1 101055-02 101055-02 101055-02 101055-02 1 1 100565-01 100565-01 100565-01 100565-01 Warning Plate Fastener 1 100639-01 100639-01 100639-01 100639-01 1 1	27	099059-02	099059-02	099059-02	O.D.S. Pilot	1
28 098249-01 098249-01 Nut 4 PARTS AVAILABLE — NOT SHOWN 100563-01 100563-01 100563-01 100563-01 100563-01 1 101055-02 101055-02 101055-02 101055-02 1 1 1 100565-01 100565-01 100565-01 100565-01 1 1 1 100639-01 100639-01 100639-01 1 1 1 1	27-1	098594-01	098594-01	098594-01	Ignitor Electrode	1
PARTS AVAILABLE — NOT SHOWN 100563-01 100563-01 100563-01 Warning Plate 1 101055-02 101055-02 101055-02 101055-02 Lighting Instructions Plate 1 100565-01 100565-01 100565-01 Warning Plate Fastener 1 100639-01 100639-01 100639-01 Caution Decal 1	27-2	098593-01	098593-01	098593-01	Thermocouple	1
100563-01100563-01100563-01Warning Plate1101055-02101055-02101055-02Lighting Instructions Plate1100565-01100565-01100565-01Warning Plate Fastener1100639-01100639-01100639-01Caution Decal1	28	098249-01	098249-01	098249-01	Nut	4
101055-02 101055-02 101055-02 Lighting Instructions Plate 1 100565-01 100565-01 100565-01 Warning Plate Fastener 1 100639-01 100639-01 100639-01 Caution Decal 1			PARTS AV	AILABLE — NOT SHO	WN	
100565-01 100565-01 100565-01 Warning Plate Fastener 1 100639-01 100639-01 100639-01 Caution Decal 1		100563-01			-	1
100639-01 100639-01 100639-01 Caution Decal 1		101055-02	101055-02			1
		100565-01	100565-01	100565-01	Warning Plate Fastener	1
101137-01 101137-01 101137-01 Hardware Kit 1		100639-01	100639-01	100639-01	Caution Decal	1
		101137-01	101137-01	101137-01	Hardware Kit	1
101416-12 101416-12 101416-12 Information Video 1		101416-12	101416-12	101416-12	Information Video	1
GA6060 GA6060 GA6060 Lava Rock 1		GA6060	GA6060	GA6060	Lava Rock	1

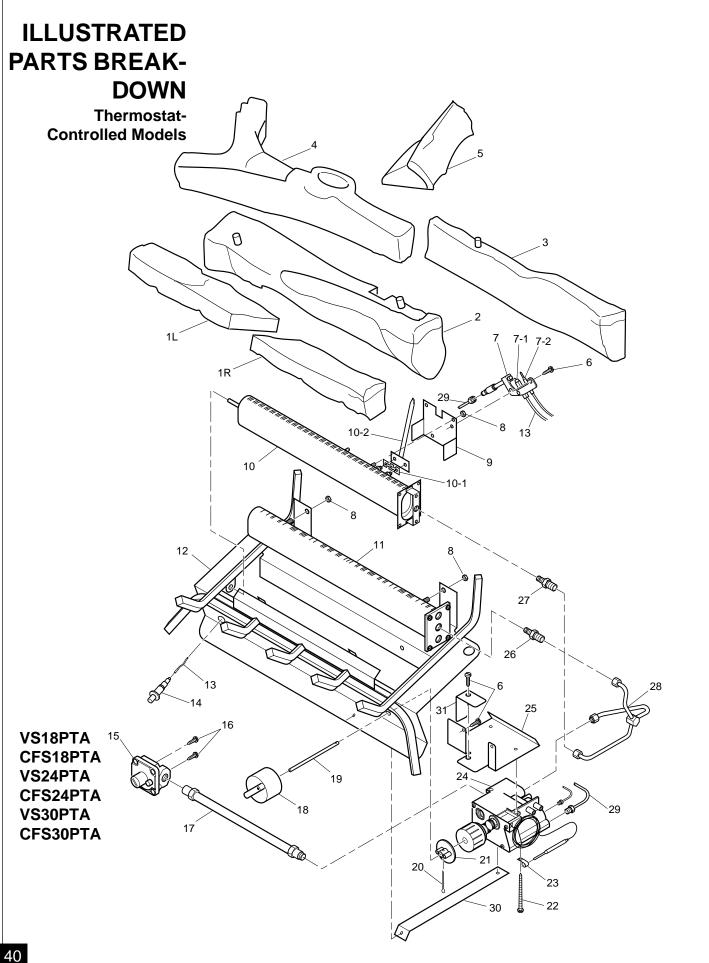


PARTS LIST Thermostat-

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 35 of this manual.

Controlled Models

KEY	EY PART NUMBER FOR				
NO.	VL18PTA/CF18PTA	VL24PTA/CF24PTA	VL30PTA/CF30PTA	DESCRIPTION	QTY.
1	101337-01	101337-02	101337-03	Rear Log (#1)	1
2	101336-01	101336-02	101336-03	Front Log (#2)	1
3	101334-01	101335-01	101335-02	Crossover Log (#3)	1
4	101333-02			Front Branch, 18" (#4)	1
		101332-01	101332-02	Left Front Branch (#4)	1
5		101333-01	101333-01	Right Front Branch (#5)	1
6	M11084-26	M11084-26	M11084-26	Screw	5
7	099059-02	099059-02	099059-02	O.D.S. Pilot	1
7-1	098594-01	098594-01	098594-01	Ignitor	1
7-2	098593-01	098593-01	098593-01	Thermocouple	1
8	098249-01	098249-01	098249-01	Nut	4
9	101006-01	101006-01	101006-01	Pilot Bracket	1
10	101330-01	101330-02	101330-03	Front Burner Assembly	1
10-1	101008-01	101008-01	101008-01	Gasket, Crossover Burner	1
10-2	101007-01	101007-01	101007-01	Crossover Burner	1
11	100999-01	100999-02	100999-03	Rear Burner Assembly	1
12	101331-05	101331-06	101331-07	Base Assembly (with decals)	1
13	098271-07	098271-06	098271-06	Ignitor Cable	1
14	102445-01	102445-01	102445-01	Piezo Ignitor	1
15	098867-10	098867-10	098867-10	Gas Regulator	
16	M11084-38	M11084-38	M11084-38	Screw	2
17	102810-01	102810-01	102810-01	Inlet Tube	1
18	098324-02	098324-02	098324-02	Control Knob	
19	099974-04	099974-04	099974-04	Control Rod	
20	100000-01	100000-01	100000-01	Cotter Pin	
20	101053-01	101053-01	101053-01	Adapter	
22	099211-01	099211-01	099211-01	Screw	
23	098544-01	098544-01	098544-01	Thermostat Clamp	
23	101329-15	101329-18	101329-17	Thermostat Gas Valve Assy.	
25	100994-01	100994-01	100994-01	Thermovalve Bracket	
26	101004-10	101004-01	101004-02	Rear Burner Injector	1
20				-	1
	101004-10	101004-02	101004-06	Front Burner Injector Thermostat Burner Tube	1
28	102811-01	102811-01	102811-01	Pilot Tube	-
29	099387-09	099387-09	099387-09		1
30	102255-01	102255-01	102255-01	Strap	
31	102764-01	102764-01	102764-01	Heat Shield	1
		PARTS AVAIL	ABLE - NOT SHOW	N	
	100563-01	100563-01	100563-01	Warning Plate	1
	101054-01	101054-01	101054-01	Lighting Instructions Plate	1
	100565-01	100565-01	100565-01	Warning Plate Fastener	1
	100639-01	100639-01	100639-01	Caution Decal	1
	101137-01	101137-01	101137-01	Hardware Kit	1
	101416-12	101416-12	101416-12	Information Video	1
	GA6060	GA6060	GA6060	Lava Rock	1
	0,10000	0,10000	0,10000		· ·



PARTS LIST Thermostat-

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 35 of this manual.

I hermostat-Controlled Models

KEY		PART NUMBER FOR			
NO.	VS18PTA/CFS18PTA	VS24PTA/CFS24PTA	VS30PTA/CFS30PTA	DESCRIPTION	QTY.
1L		102474-01	102474-03	Left Front Log (#1L)	1
1R	102474-04	102474-02	102474-02	Right Front Log (#1R)	1
2	102475-01	102475-02	102475-03	Bottom Middle Log (#2)	1
3	102478-02	102478-01	102478-03	Rear Log (#3)	1
4	102477-02	102477-01	102477-03	Top Middle Log (#4)	1
5	102479-02	102479-01	102479-01	Crossover Log (#5)	1
6	M11084-26	M11084-26	M11084-26	Screw	5
7	099059-02	099059-02	099059-02	O.D.S. Pilot	1
7-1	098594-01	098594-01	098594-01	Ignitor	1
7-2	098593-01	098593-01	098593-01	Thermocouple	1
8	098249-01	098249-01	098249-01	Nut	4
9	101006-01	101006-01	101006-01	Pilot Bracket	1
10	101330-01	101330-02	101330-03	Front Burner Assembly	1
10-1	101008-01	101008-01	101008-01	Gasket, Crossover Burner	1
10-2	101007-01	101007-01	101007-01	Crossover Burner	1
11	100999-01	100999-02	100999-03	Rear Burner Assembly	1
12	101331-05	101331-06	101331-07	Base Assembly (with decals)	1
13	098271-07	098271-06	098271-06	Ignitor Cable	1
14	102445-01	102445-01	102445-01	Piezo Ignitor	1
15	098867-10	098867-10	098867-10	Gas Regulator	1
16	M11084-38	M11084-38	M11084-38	Screw	2
17	102810-01	102810-01	102810-01	Inlet Tube	1
18	098354-01	098354-01	098354-01	Control Knob	
19	098462-03	098462-03	098462-03	Control Rod	1
20	100000-01	100000-01	100000-01	Cotter Pin	1
21	101053-01	101053-01	101053-01	Adapter	1
22	099211-01	099211-01	099211-01	Screw	1
23	098544-01	098544-01	098544-01	Thermostat Clamp	
24	101329-15	101329-18	101329-17	Thermostat Gas Valve Assy.	1
25	100994-01	100994-01	100994-01	Thermovalve Bracket	
26	101004-10	101004-01	101004-02	Rear Burner Injector	
27	101004-10	101004-02	101004-06	Front Burner Injector	
28	102811-01	102811-01	102811-01	Thermostat Burner Tube	
29	099387-09	099387-09	099387-09	Pilot Tube	
30	102255-01	102255-01	102255-01	Strap	
31	102764-01	102764-01	102764-01	Heat Shield	1
		PARTS AVAIL	ABLE — NOT SHOW	/N	
	100563-01	100563-01	100563-01	Warning Plate	1
	101054-01	101054-01	101054-01	Lighting Instructions Plate	1
	100565-01	100565-01	100565-01	Warning Plate Fastener	
	100639-01	100639-01	100639-01	Caution Decal	1
	101137-01	101137-01	101137-01	Hardware Kit	
	101416-12	101416-12	101416-12	Information Video	
	GA6060	GA6060	GA6060	Lava Rock	1
	0/10000	0,0000	0,0000		

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WARRANTY INFORMATION

KEEP THIS WARRANTY

Model	
Serial No.	
Date Purchased —	

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

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

LIMITED WARRANTY VENT-FREE PROPANE GAS LOG HEATERS

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

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

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

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



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