

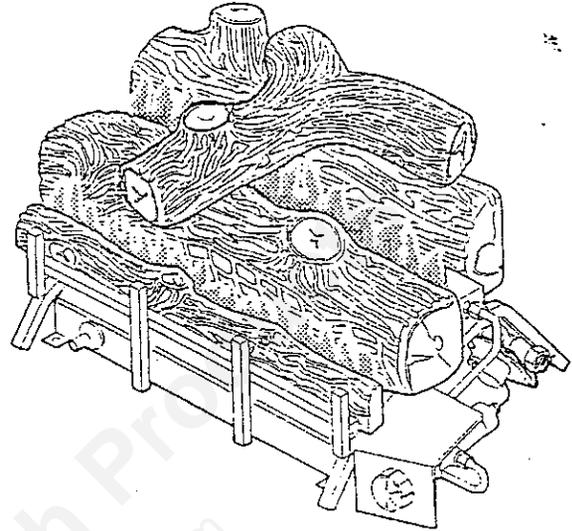


UNITED STATES STOVE COMPANY

227 Industrial Park Road • P.O. Box 151 • South Pittsburg, TN 37380 • (615)837-2100

CAVALIER VENT FREE GAS LOGS

Natural Gas Model 9524N
Propane (LPG) Model 9524P



INSTALLATION AND OPERATING INSTRUCTIONS



WARNINGS

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.

• READ AND SAVE THESE INSTRUCTIONS •

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Make sure you have received all parts:

Check your packing list to verify that all listed parts have been received. You should have the following:

- Unvented gas log heater
- Installation/operating instructions
- Four (4) ceramic fiber logs
- Two (2) anchoring screws
- Plastic bag containing crushed volcanic rock

CAUTION

Handle the gas log burner assembly by the grate only. Do not pick the unit up by the burners.

Gloves are recommended when handling ceramic fiber logs to prevent skin irritation from loose fibers. Logs are fragile--handle with care.

Carefully inspect the contents for shipping damage. If any parts are missing or damaged, immediately inform the dealer from whom you purchased the appliance. Do not attempt to install any part of the appliance unless you have all parts in good condition.

What you will need for installation:

You must have the following items available before proceeding with installation:

- External regulator (for propane/L.P.G. only)
- Piping which complies with local codes
- Pipe sealant approved for use with propane/L.P.G. (Resistant to sulfur compounds)
- Manual shutoff valve
- Sediment trap
- Tee joint
- Pipe wrench
- Screwdriver
- Drill, with 5/32 bit

PRODUCT SPECIFICATIONS

Natural Gas

Regulator Pressure Setting: 3" w. c.
Gas Inlet Pressure: Maximum 10 1/2" w. c.
Minimum 5" w. c.

Model Number	Type	Gas Rate	
		Max. BTU/Hr	Min. BTU/Hr
9524N	Manual	30,000	19,000

Propane / LPG:

Note: An external regulator is required to reduce supply pressure to a maximum of 13" w. c.

Regulator Pressure Setting: 10" w. c.
Gas Inlet Pressure: Maximum 13" w. c.
Minimum 11" w. c.

Model Number	Type	Gas Rate	
		Max. BTU/Hr	Min. BTU/Hr
9524P	Manual	30,000	19,000

IGNITION: Piezo ignitor allows ignition of the pilot without the use of matches or batteries.

CONTROLS: Manual control has four (4) positions:

- OFF All gas to the gas logs is shut off at the valve.
- IGN Valve position to light/maintain a standing pilot.
- LOW Minimum gas rate: Front burner provides a realistic glow on the center log.
- HI Maximum gas rate: Front burner provides a realistic glow on the center log, plus the rear burner provides a pleasing yellow flame.

PILOT: The gas log heater is fitted with a specially designed safety pilot light which senses the amount of oxygen available in the room and shuts the gas log heater off if the oxygen level begins to drop below a satisfactory level. The pilot can only be relit when adequate fresh air is available.

Before you begin:

Adhere to all local codes, or in their absence, the latest edition of THE NATIONAL FUEL GAS CODE ANSI Z223.1 or NFPA54 which can be obtained from:

American National Standards Institute
1430 Broadway
New York, NY 10018
or
National Fire Protection Association, Inc.
Batterymarch Park
Quincy, MA 02269

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

The National Fuel Gas Code defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8m³ per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

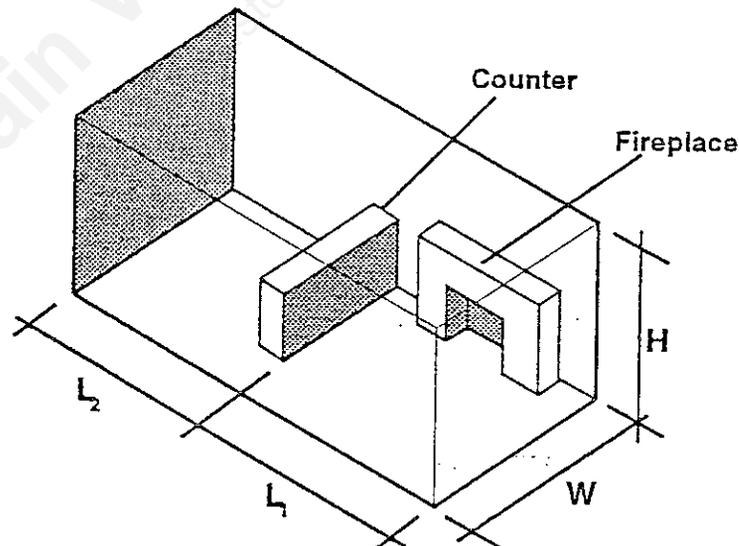


Figure 1: Example of Large Room with 1/2 Wall Divider

FIREPLACE & HEARTH DIMENSIONS

The following formula can be used to determine the maximum heater rating per the definition of unconfined space:

$$\text{Btu/Hr} = \frac{(L_1 + L_2)\text{FT} \times (W)\text{FT} \times (H)\text{FT} \times 1000}{50}$$

Example: Refer to *Figure 1* on the previous page; two (2) connecting rooms with an open area between, with the following dimensions:

$$\begin{aligned}L_1 &= 15 \frac{1}{2}' \\L_2 &= 12' \\W &= 12' \\H &= 8'\end{aligned}$$

$$\frac{(15 \frac{1}{2} + 12) \times (12) \times (8) \times 1000}{50} = 52800 \text{ Btu/Hr}$$

If there was a door between the two rooms the calculation would be based only on the room with the heater:

$$\frac{(15 \frac{1}{2}) \times (12) \times (8) \times 1000}{50} = 29769 \text{ Btu/Hr}$$

WARNING

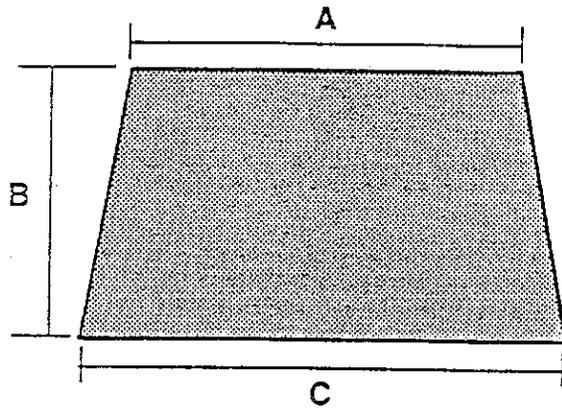
If the area in which the heater may be operated is smaller than that defined as an unconfined space, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1, 1992, Section 5.3.

WARNING

This gas log heater is intended for installation in a solid-fuel burning fireplace, or an AGA approved unvented fireplace.

The unvented room heater is approved for installation into the following unvented fireplaces:

MONESSEN Hearth System: FC38, FC43, FR38, FR43
Superior Fireplace Company: VFC-38, VFC-43, VFR-38, VFR-43
CVF-38, CVF-43, CVR-38, CVR-43
Fireplace Manufacturers, Inc.: GL5000, GL5100, GL6000, GL6100



Model	A	B	C
9524N / 9524P	18"	14"	29"

Figure 2: Minimum Hearth Dimensions

WARNING

The dimensions shown in *Figures 3 - 11* are **minimum clearances** to maintain in installing this heater. Left and right clearances are determined when facing the front of the heater.

Follow these instructions carefully to ensure safe installation. Failure to follow instructions exactly can create a fire hazard.

Sidewall and ceiling clearances:

The sides of the fireplace opening must be at least 16" from any combustible wall.

The ceiling must be at least 42" from the top of the fireplace opening.

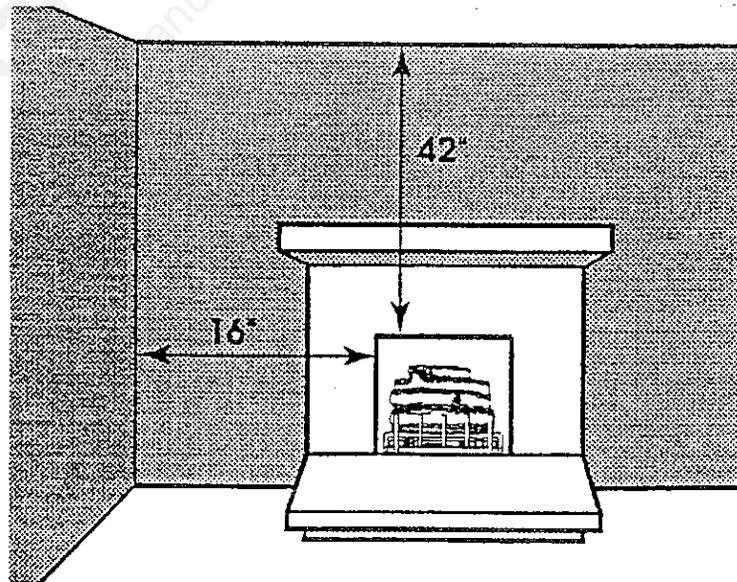


Figure 3: Sidewall & Ceiling Clearances

Heat resistant material (minimum requirements) with no wooden mantel or other combustible projection:

To install the gas logs into a fireplace with no wooden mantel, shelf or other combustible projection above the fireplace opening, measure the heat resistant material height, per *Figure 4*, then refer to **TABLE A**.

Heat resistant materials such as slate and marble must be at least 1/2" thick. Sheet metal should not be installed onto combustible material.

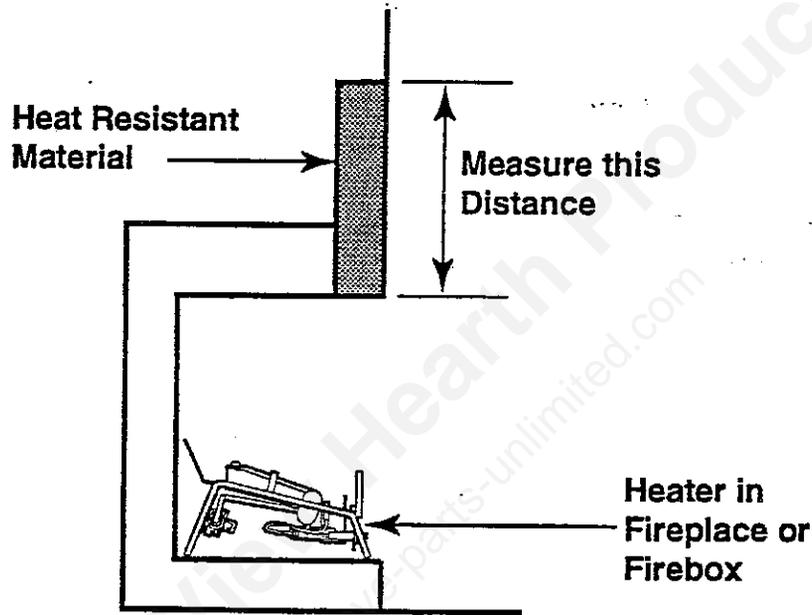


Figure 4: Measuring Heat Resistant Material

Heat Resistant Material Measurement	Requirements for Safe Installation
12" or more	Hood not required.
8" to less than 12"	Install hood. See Figure 5.
Less than 8"	Extend heat resistant material to at least 8" and install hood. See Figure 5. Or, extend heat resistant material to a height of at least 12".

TABLE A: Heat Resistant Material Requirements with no Mantel

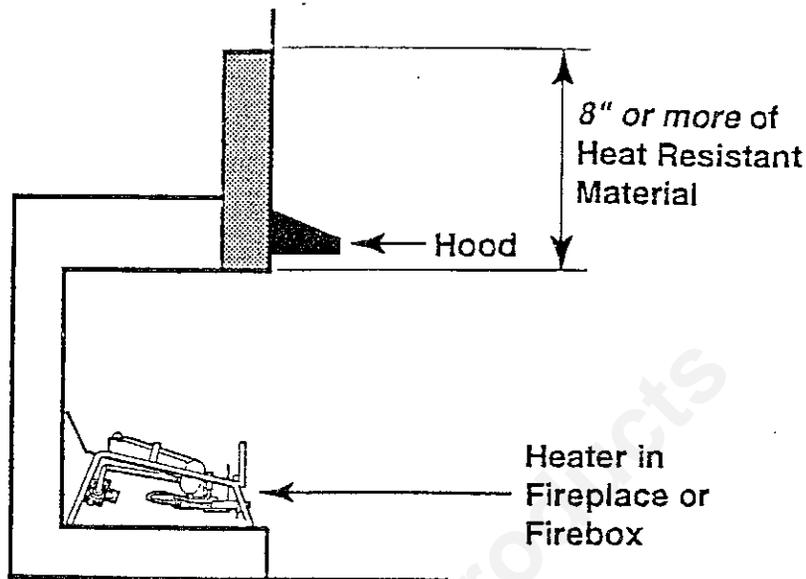


Figure 5: Measuring Heat Resistant Material for Mantel

Heat resistant material (minimum requirements) with wooden mantel or other combustible projection:

To install the heater with a wooden mantel, shelf or other combustible projection above, first measure the heat resistant material shown in Figure 4. refer next to Figure 7 or 8.

Example: A mantel may project from the wall a maximum of 2 1/2" at a minimum of 8" above the opening, and a maximum of 6" at a minimum of 14 1/2" above the opening.

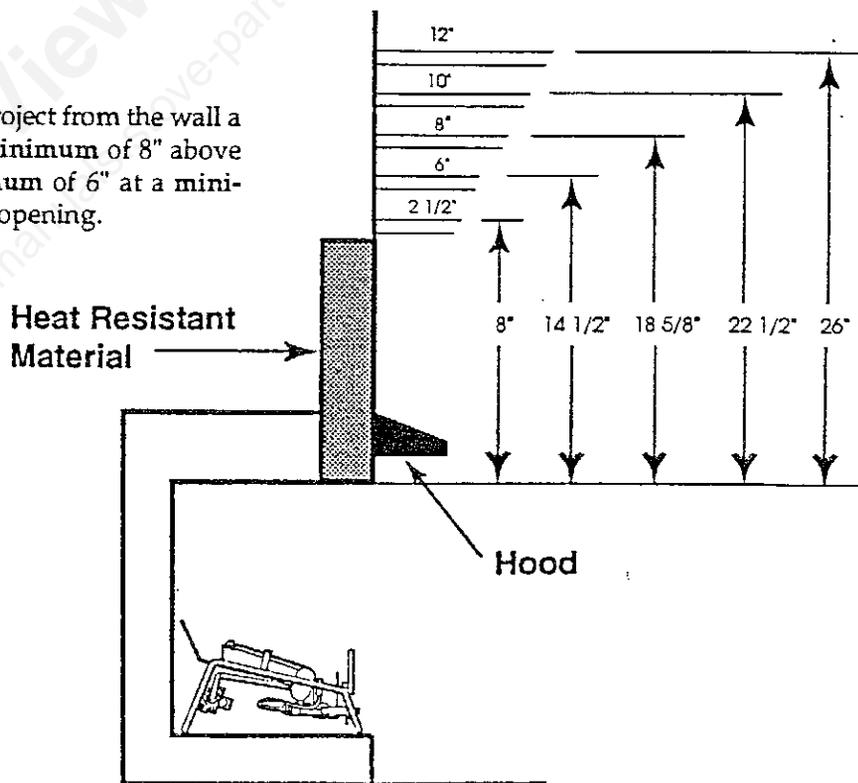


Figure 7: Minimum Mantel Clearance with Hood--All Models

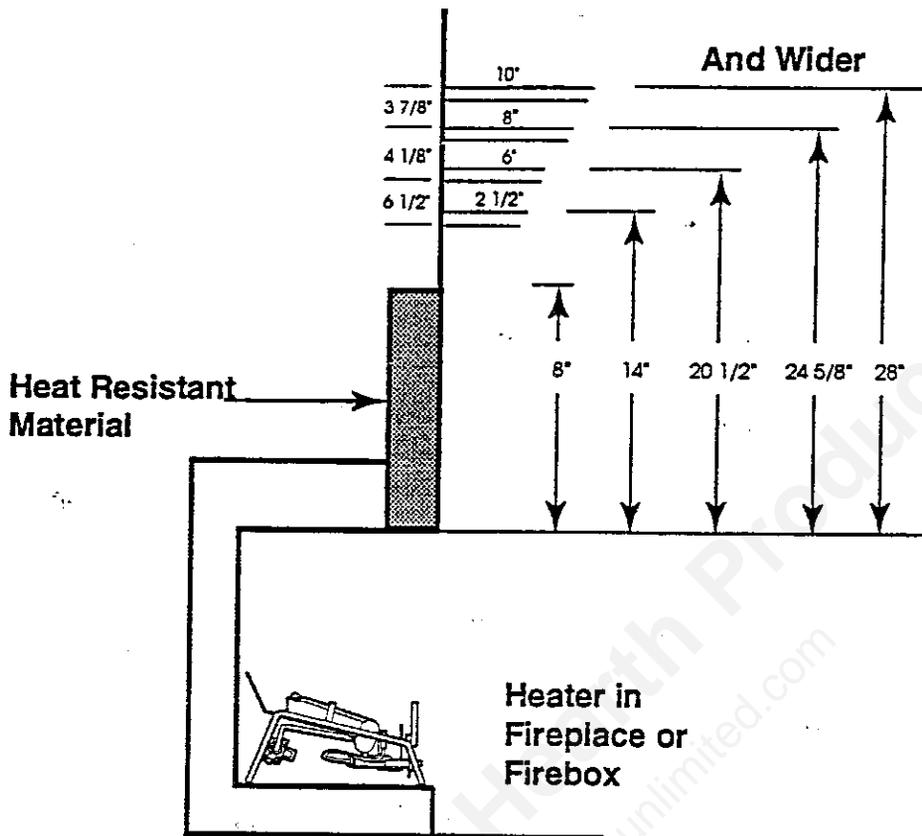


Figure 8: Minimum Mantel Clearance with No Hood

Figure 9 is an example of an unsafe mantel installation. This mantel projects 4" at 8" above the opening, exceeding the maximum acceptable distance of 2 1/2". The mantel also projects 7" at 14 1/2" above the opening, exceeding the maximum acceptable distance of 6".

If your mantel profile is unsafe, you may either:

- Raise the mantel to an acceptable height or,
- Remove the mantel

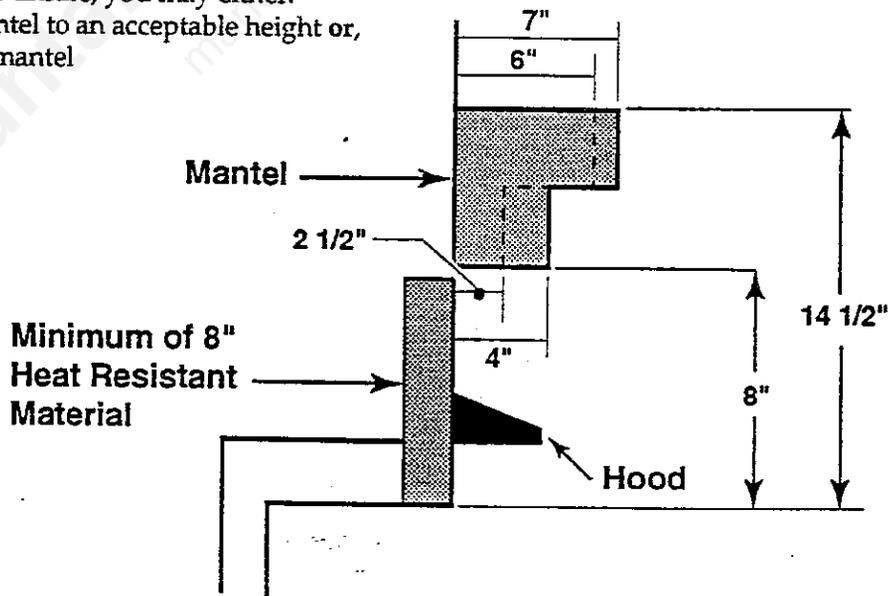


Figure 9: Unacceptable Mantel Clearance

FLOOR CLEARANCE

The gas log heater must be installed at least 5" above any combustible flooring material, such as carpeting or tile, which is closer than 14" to the base of the fireplace. Refer to *Figure 10*.

OR,

The gas log heater may be installed nearer to the floor if a minimum of 14" of noncombustible material such as slate or marble is installed between the base of the fireplace and the combustible flooring. Refer to *Figure 11*.

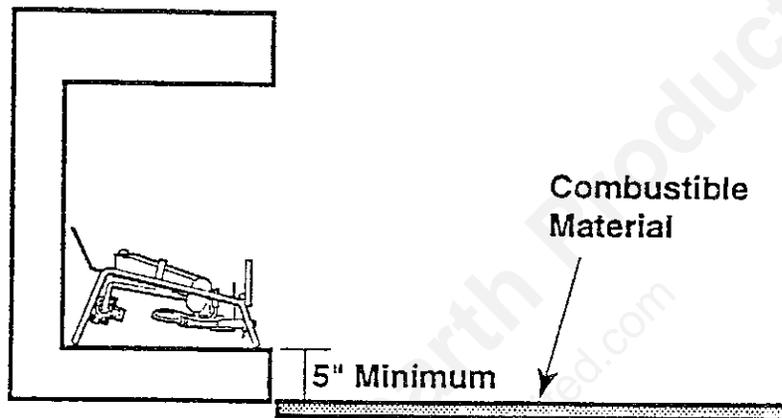


Figure 10: Minimum Clearance above Combustible Flooring

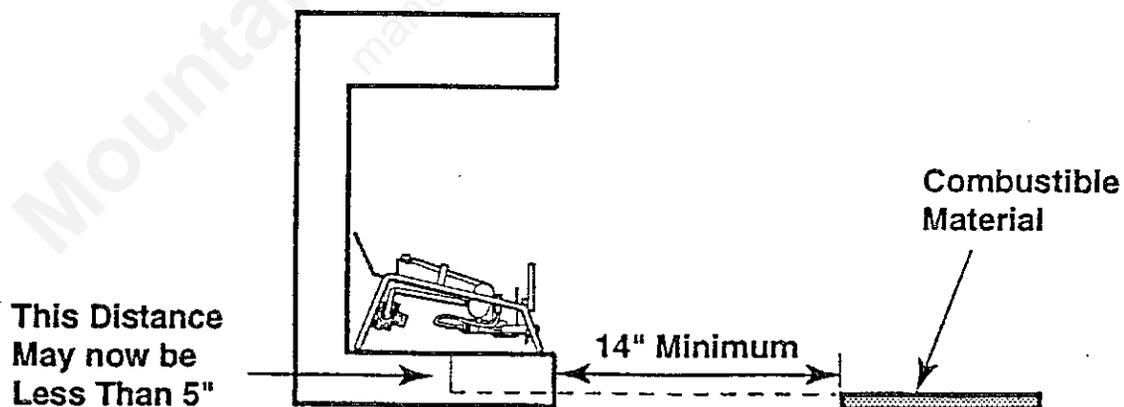


Figure 11: Minimum Clearance above Combustible Flooring with Noncombustible Material Installed at Base of Fireplace

PLACING & SECURING APPLIANCE

WARNING

You must secure the gas log heater to the fireplace floor. If not, the entire unit may move when you adjust the controls. Movement of unit may cause shifting of the gas logs which leads to sooting and improper burning. Grate movement could cause a gas leak.

Special care is required if you are installing the unit into a sunken fireplace. You must raise the fireplace floor to allow access to gas log controls. This will insure adequate air flow and guard against sooting. Raise the fireplace floor using non-combustible materials.

Assembly procedure:

1. Center the gas log unit in the fireplace or firebox. Make certain the front feet of the grate sit inside the front edge of the fireplace or firebox.
2. Two anchor holes are provided in the front of grate frame. After centering the grate correctly, mark the hole positions on the fireplace/firebox floor. Drill two (2) 5/32" diameter holes approximately 1 1/2" deep.
3. Anchor the grate to the fireplace/firebox floor using the screws provided. Refer to *Figure 12*.

Proper installation of the grate is essential to prevent any movement of the gas logs and controls during operation.

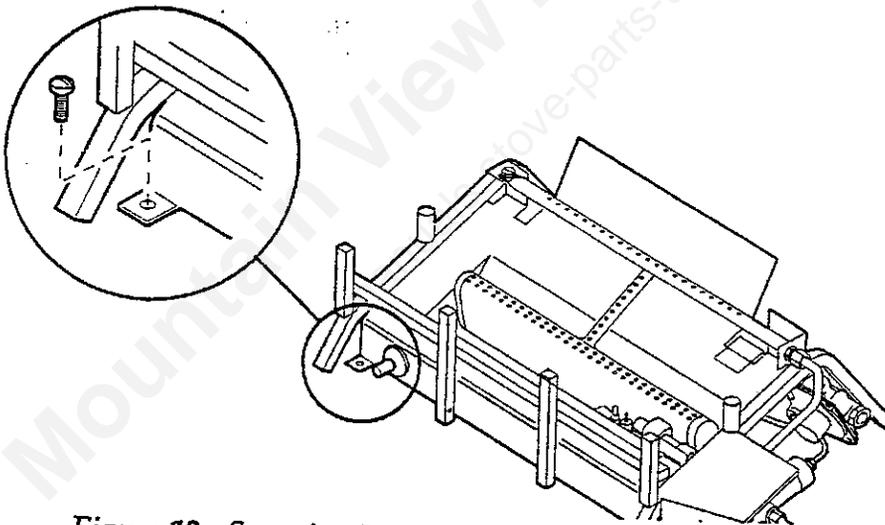


Figure 12: Securing Heater to Floor of Fireplace/Firebox

Before fully installing the unit:

- * Turn OFF the gas supply to the fireplace or firebox.
- * Have the fireplace floor and chimney professionally cleaned to remove any ashes, soot, creosote or other obstructions.
- * Seal any fresh air vents or ash clean-out doors located on the floor or wall of the fireplace. If left unsealed, drafting may cause pilot outage or sooting. Use a heat resistant sealant. Do not seal the chimney flue damper.

NOTICE: A qualified gas appliance installer must connect the heater to the gas supply. Consult all local codes.

CAUTION

Use new black iron or steel pipe only. Internally tinned copper tubing can be used in some areas where permitted by local codes. Only use pipe of 1/2" or greater diameter to allow full gas volume to heater. Undue pressure loss will occur if the pipe is too small.

A manual shutoff valve, union and plugged 1/8" NTP pressure tapping point must be installed upstream of the heater. Refer to *Figure 14*.

A sediment trap must be installed upstream of the heater to prevent moisture and contaminants from passing through the pipe to the heater controls and burners. Failure to do so could prevent the heater from operating reliably. Refer to *Figure 14*.

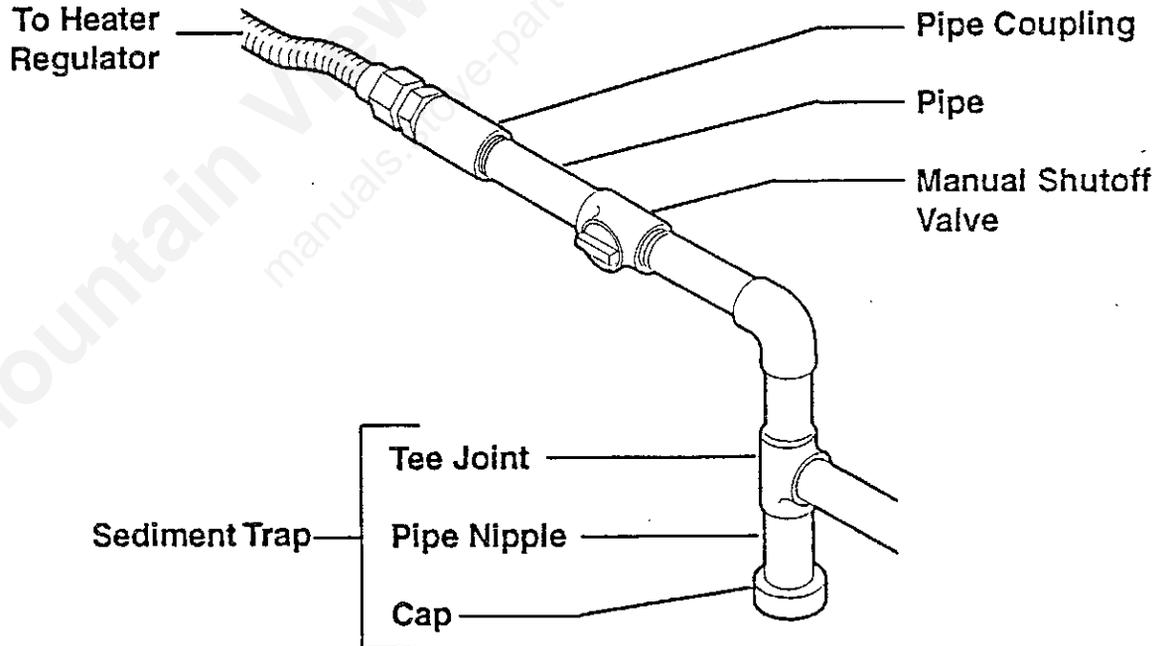


Figure 14: Gas Connection

CHECKING GAS PRESSURE

IMPORTANT:

Hold heater regulator firmly with a wrench to prevent movement when connecting to inlet piping. The gas supply must be the same as stated on the heater's rating plate. If the gas supply is different, **DO NOT INSTALL THE HEATER.** Contact your dealer for the correct model.

Check gas type:

Always use an external regulator for all propane/L.P.G. heaters only, to reduce the supply tank pressure to a maximum of 13" w.c. This is in addition to the regulator fitted to the heater.

WARNING

Connecting directly to an unregulated propane/L.P.G. tank can cause an explosion.

The heater gas inlet connection is 3/8" NPT at the regulator, inlet on the right side facing the heater. If a left side connection is required, the connecting pipe may be led under the rear of the gas log heater at the right hand side for connection to the inlet.

When tightening up the joint to the regulator, hold the regulator securely with a wrench to prevent movement.

Test all gas joints from the gas meter to the heater regulator for leaks using a gas analyzer or soap and water solution after completing connection. **DO NOT USE AN OPEN FLAME.**

Checking Gas Pressure:

The heater regulator controls the burner pressure which should be checked at the pressure test point (1/8" NPT plug located on the side of the regulator body). Refer to *Figure 15* on the next page.

1. Check the gas pressure with the appliance burning and the control set to **HIGH**.

The pressure regulator is preset and locked to discourage tampering. If the pressure is not as specified, replace the regulator with the correct part from the Parts List on the last page of this manual.

2. Replace the test point plug after pressure measurement. Check for gas leaks.

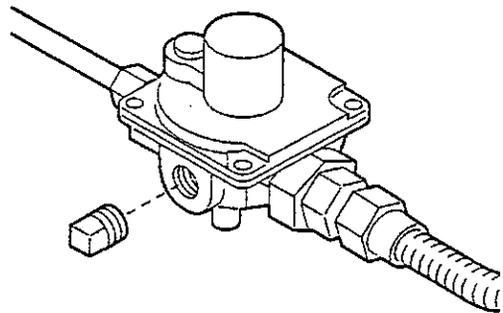


Figure 15: Pressure Test Point Location

Before you begin:

This unit is supplied with a set of four ceramic fiber logs. Do not handle these logs with your bare hands! Always wear gloves to prevent skin irritation from ceramic fibers. After handling logs, wash your hands gently with soap and water to remove any traces of fibers.

WARNING

The positioning of the logs is critical to the safe and clean operation of this heater. Sooting and other problems may result if the logs are not properly and firmly positioned in the appliance. Never add additional logs or embellishments such as pine cones, vermiculite or rock wool to the heater.

Proper installation sequence:

1. Install the rear log (#3), center between locator lugs. Visually check to verify the log is securely placed, and in contact with the grate.
2. Install the front log (#1) between the vertical grate bars and front log clips. Center the log left to right to properly engage the locator lugs.
3. Install the center log (#2) behind the front log on the set of locating pins. Visually check to verify the log is securely placed on the pins and sits firmly on grate bars.
4. Install the cross log (#4) by engaging the two pins on the center and rear logs into the cross log holes. Visually check to verify the log is securely and properly positioned.

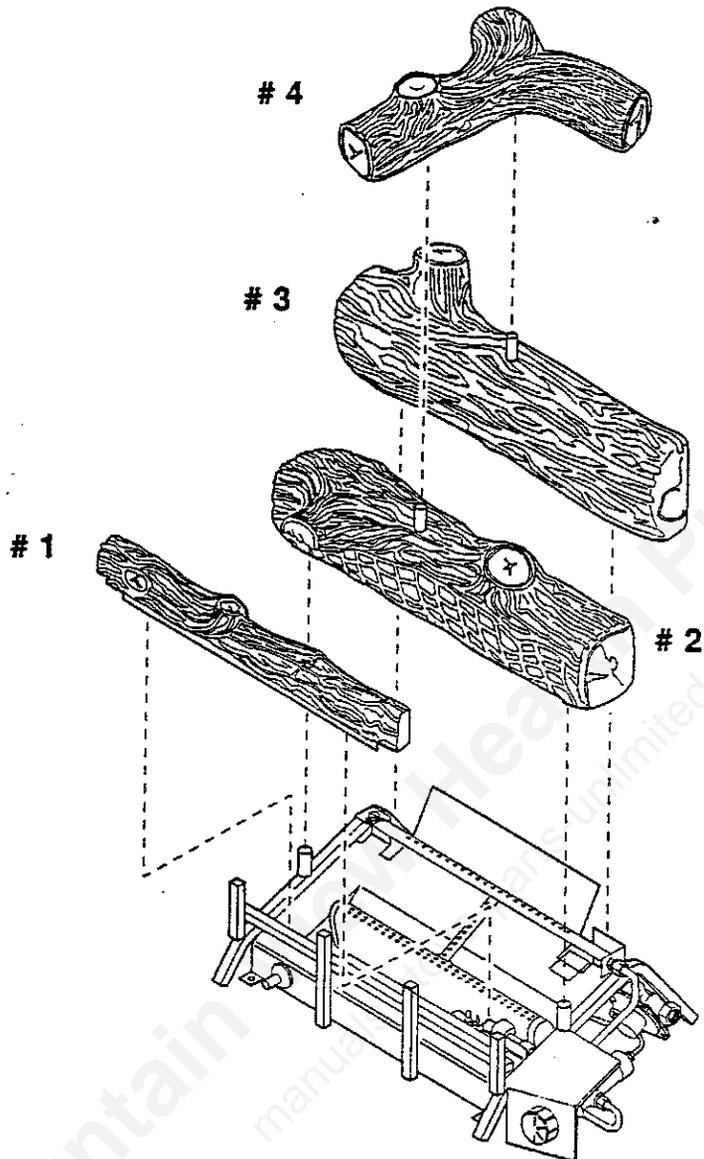


Figure 16: Proper Sequence of Log Installation

Placing the decorative volcanic rock:

Remove the volcanic rock from the bag and sprinkle over the fireplace floor.

CAUTION

DO NOT sprinkle volcanic rock on the logs or around the pilot or the main burner. This may cause sooting. Only place volcanic rock on the floor of the fireplace.

During initial operation of the new heater, burning logs will give off a paper burning smell and orange flames will be present. Simply open the windows for a few hours to vent the odor.

Flames from the pilot, front and rear burner should be visually checked as soon as the heater is installed. In addition, periodically check the flames visually during operation.

Checking the pilot flame:

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The pilot flame must always be present when the heater is in operation. It should just touch the top of the thermocouple tip. Refer to *Figure 17*.

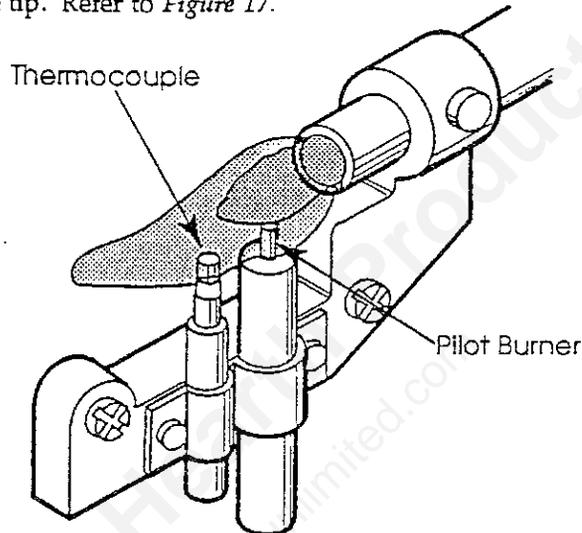


Figure 17: Correct Appearance of Pilot Flame

If the pilot flame does not touch the thermocouple, then the main burner cannot function reliably. Refer to *Figure 18* for incorrect shape of pilot flame.

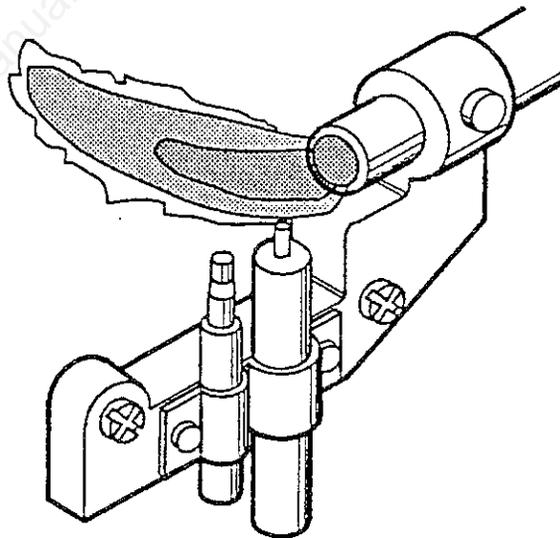


Figure 18: Incorrect Appearance of Pilot Flame

OPERATING INSTRUCTIONS

IMPORTANT: In normal operation at full rate after 15 minutes, the following flame appearances should be observed:

Checking the burner flames:

The rear flames above and behind log #2, and in front of log #2, should be yellow. The flames should extend approximately 2" - 3" above log #2. Refer to *Figure 19*.

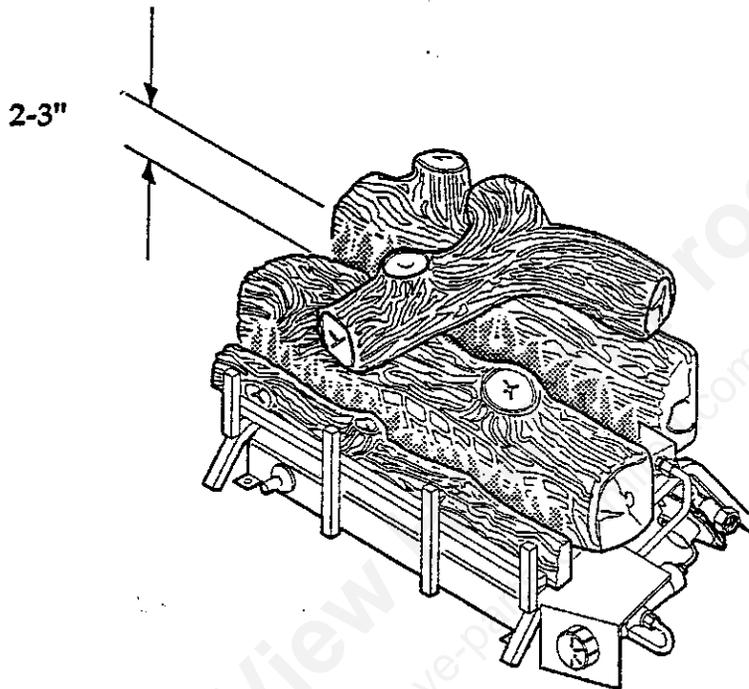


Figure 19: Correct Appearance of Rear Flames

The front burner flames are blue, becoming yellowish as they hit the bumps on the face of the front log. The face of the front log will glow a bright reddish orange when the heater is in operation.

Avoid any drafts that alter burner flame patterns. Do not allow fans to blow directly into the fireplace. Do not place a blower inside the burn area of the firebox. Ceiling fans may create drafts that alter flame patterns. Sooting and improper burning will result.

During manufacturing, fabricating and shipping, various components of this appliance are treated with certain oils, films or bonding agents. These chemicals are not harmful, but may produce annoying smoke and smells as they are burned off during the initial operation of the appliance, possibly causing headaches or eye or lung irritation. *This is a normal and temporary occurrence.*

The initial break-in operation should last 2-3 hours with the burner at the highest setting. Provide maximum ventilation by opening windows or doors to allow odors to dissipate. Any odors remaining after this initial break-in will be slight and will disappear with continued use.

This appliance must not be used with glassed doors in the closed position. This can lead to pilot outages and severe sooting outside the fireplace.

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.
- B. **BEFORE LIGHTING** smell all around the heater area for gas. Be sure to smell next to the floor because some propane/LPG is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

- Do not attempt to light any appliance or heater.
 - Do not touch any electric switch; do not use any telephone 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 or turn by hand, don't try to repair or adjust the valve or the mechanism. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.
 - D. Do not use this heater if any part of it has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system or gas control that has been submerged.

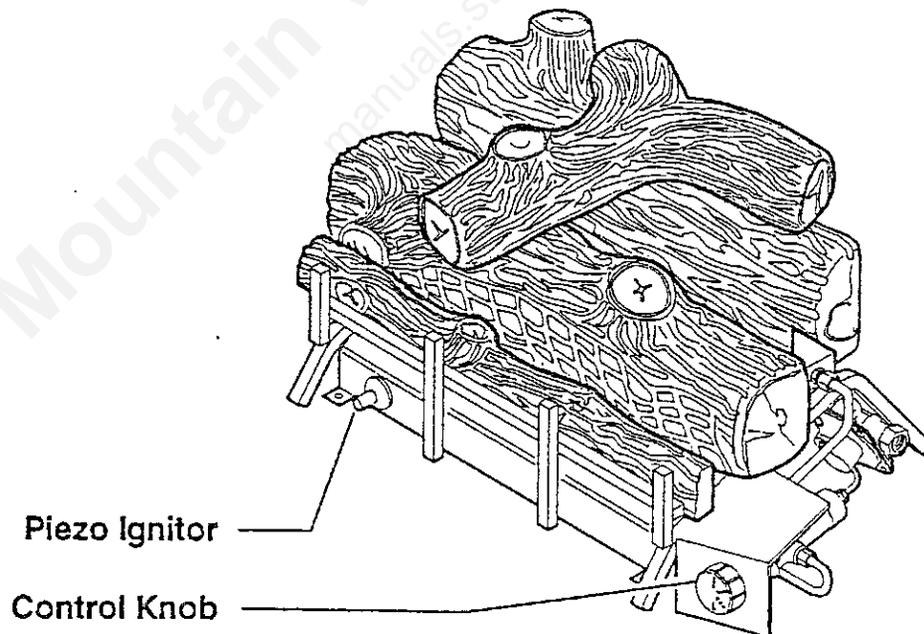


Figure 20: Location of Piezo Ignitor & Control Knob

MANUAL CONTROL LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information.
2. Make sure the manual shutoff valve is fully open.
3. Refer to *Figure 20* for the location of the piezo ignitor and control knob. Turn control knob clockwise to the OFF position.
4. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow the instructions under "WHAT TO DO IF YOU SMELL GAS". If you do not smell gas, go to the next step.
5. Depress and turn the control knob counterclockwise  to the IGN position. See *Figure 21*. Press and hold control knob for 5 seconds.

Note: If you are running the heater for the first time, it will be necessary to press in the control knob for 30 seconds to allow air to bleed out of the gas piping.

6. With the control knob pressed and held in, push and release the piezo ignitor button to light the ODS pilot. The pilot is located on the right side of the appliance, behind the front log and in front of the main burner.
7. Hold the control knob in for an additional 10 seconds to prevent the ODS from shutting off the gas while the thermocouple is warming up.
8. Release the control knob.
 - If the knob does not pop out when released, stop and immediately call your service technician or gas supplier.
 - If the ODS pilot will not stay lit after several tries, press and turn the gas control knob clockwise  to OFF and wait 15 seconds. Repeat steps 5 through 8.
9. Press control knob and turn to desired setting (LOW or HIGH). The control knob must be set at either the low or high position, and the control knob will pop out when positioned correctly. Do not set the control knob at a position between LOW and HIGH. Refer to *Figure 22*.

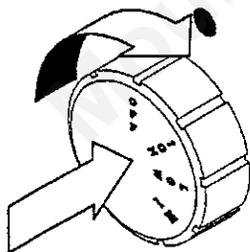


Figure 21: IGN Position

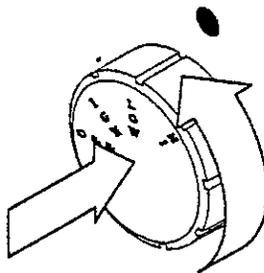


Figure 22: LOW/HIGH Position

WARNING

Wait 30 seconds before readjusting the heater when the control knob has been turned down to a lower setting.

SHUTTING OFF HEATER

WARNING

For safety, always have a fireplace screen in place when the appliance is in operation.

Never burn solid fuels in a fireplace where an unvented room heater is installed.

This appliance must not be used with glass doors in the closed position. This can lead to pilot outages and severe sooting outside fireplace.

Annual inspection and cleaning by your dealer or qualified service technician is recommended to prevent malfunction and/or sooting.

WARNING

Turn off heater and allow to cool before cleaning.

Remove logs, handling carefully by holding gently at each end. Gloves are recommended to prevent skin irritation from ceramic fibers. If skin becomes irritated, wash gently with soap and water. Refer to manual for correct log placement.

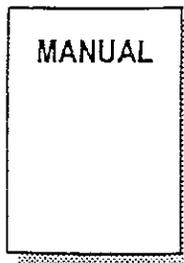
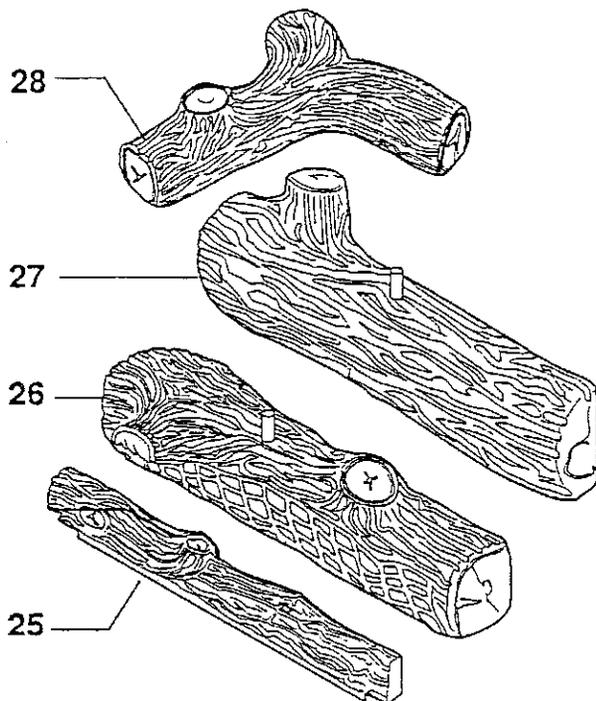
Periodic Cleaning

- Do not use cleaning fluid to clean logs or any part of heater.
- Logs - brush with soft bristle brush or vacuum with brush attachment.
- Vacuum loose particles and dust from the front and rear burner, control and piezo covers and grate weldment.
- Inspect rear burner and intake hole. Remove lint or particles with vacuum.
- External case should be dusted and wiped with a wet soapy cloth.

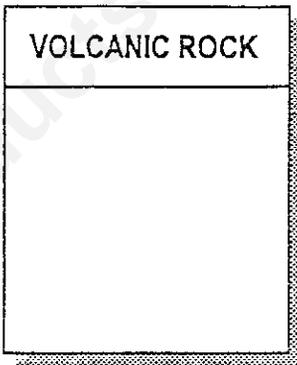
Annual Cleaning/Inspection

- Inspect and clean air intake holes.
- Inspect and clean all burner ports.
- Inspect ODS pilot for operation and accumulation of lint at air intake holes.
- Verify flame pattern and log placement for proper operation.
- Verify smooth and responsive ignition of main burner and rear burner.

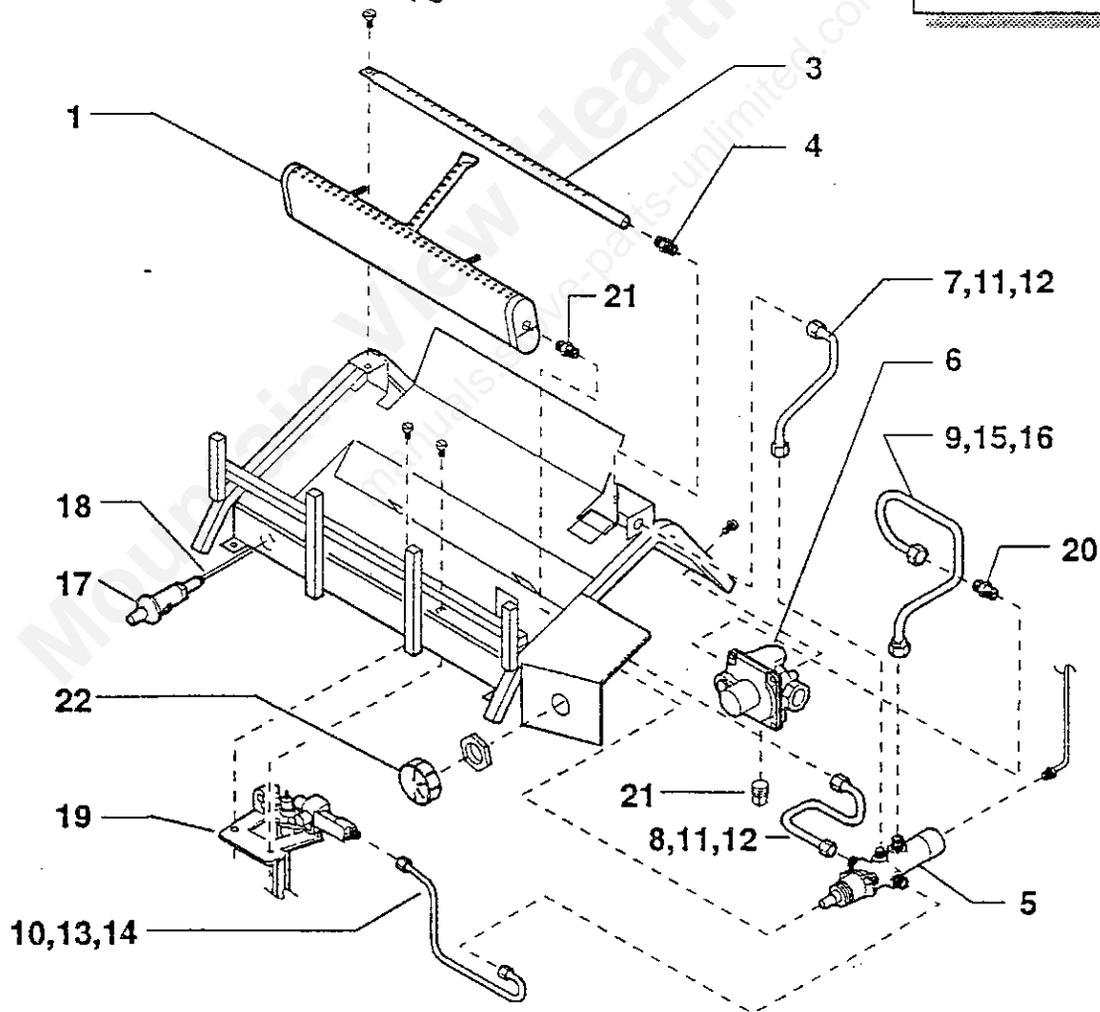
ITEM	DESCRIPTION	QTY	9524N	9524L
1	Burner Front	1	14D0513	14D0513
2	Injector Front	1	16D0501	16D0502
3	Burner Rear	1	16D0400	16D0402
4	Injector Rear	1	16D0503	16D0504
5	Gas Tap	1	00K0910	00K0910
6	Valve Pressure Regulator	1	18D0351	18D0352
7	Tube 1/4 Valve/Rear Burner	1	16D0301	16D0301
8	Tube 1/4 Valve/Front Burner	1	16D0300	16D0300
9	Tube 5/16 Regulator/Valve	1	16D0303	16D0303
10	Tube 3/16 Valve/Pilot	1	16D0304	16D0302
11	Nut 1/4 Tube	4	00F0079	00F0079
12	Ferrule 1/4 Tube	4	00F0080	00F0080
13	Nut 3/16 Tube	2	00F0077	00F0077
14	Ferrule 3/16 Tube	2	00F0078	00F0078
15	Nut 5/16 Tube	2	00K0917	00K0917
16	Ferrule 5/16 Tube	2	00K0918	00K0918
17	Piezo Ignitor	1	00F0011	00F0011
17	Nut Piezo	1	00F0587	00F0587
18	Wire Piezo	1	00K0632	00K0632
19	ODS Pilot Assembly	1	16D1013	16D1022
20	Fitting-3/8 x 5/16 Tube	1	11V0313	11V0313
21	Plug Pipe 1/8 NPT	1	00F0092	00F0092
22	Control Knob	1	18D0601	18D0601
23	Manual-Home Owners	1	16D2101	16D2101
24	Volcanic Rock	1	00F0540	00F0540
	Log Set Golden Oak			
25	Front Log	1	16D0901	16D0901
26	Center Log	1	16D0902	16D0902
27	Rear Log	1	16D0903	16D0903
28	Top Log	1	16D0904	16D0904



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TROUBLESHOOTING

WARNING

Turn appliance **OFF** and allow to cool before servicing. Only a qualified service person should service and repair the heater.

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"> 1. Ignitor electrode positioned wrong. 2. Ignitor electrode is broken. 3. Ignitor electrode not connected to ignitor cable. 4. Ignitor cable pinched or wet. Keep ignitor cable dry. 5. Broken ignitor cable. 6. Bad piezo ignitor. 7. Ignitor nut loose. 	<ol style="list-style-type: none"> 1. Replace ignitor. 2. Replace ignitor. 3. Reconnect ignitor cable. 4. Free ignitor cable if pinched by any metal or tubing. 5. Replace ignitor cable. 6. Replace piezo ignitor. 7. Tighten nut
Appliance produces unwanted odors.	<ol style="list-style-type: none"> 1. Appliance burning vapors from paint, hair spray, glues, etc. 2. Gas leak. 	<ol style="list-style-type: none"> 1. Ventilate room. Stop using odor causing products while heater is running. 2. Locate and correct all leaks.
Appliance shuts off during use.	<ol style="list-style-type: none"> 1. Not enough fresh air is available for ODS / pilot to operate. 2. Low line pressure. 3. ODS/pilot is partially clogged. 	<ol style="list-style-type: none"> 1. Open window and/or door for ventilation. 2. Contact local gas company. 3. Clean ODS/pilot.
Gas odor even when control knob is in OFF position.	<ol style="list-style-type: none"> 1. Gas leak. 2. Control valve defective. 	<ol style="list-style-type: none"> 1. Locate and correct all leaks. 2. Replace control valve.
When ignitor button is pressed, there is spark at ODS/pilot, but no ignition.	<ol style="list-style-type: none"> 1. Gas supply turned off or manual shutoff valve closed. 2. Control knob not in PILOT position. 3. Control knob not pressed in while in PILOT position. 4. Air in gas lines when installed. 5. ODS/pilot is clogged. 6. Gas regulator setting is not correct. 	<ol style="list-style-type: none"> 1. Turn on gas supply or open manual shutoff valve. 2. Turn control knob to PILOT position. 3. Press in control knob while in PILOT position. 4. Continue holding down control knob. Repeat igniting operation until air is removed. 5. Replace ODS/pilot assembly or get it serviced. 6. Replace gas regulator
ODS/pilot lights, but flame goes out when control knob is released.	<ol style="list-style-type: none"> 1. Control knob not fully pressed in. 2. Control knob not pressed in long enough. 3. Manual shutoff valve not fully open. 4. Thermocouple connection loose at control valve. 	<ol style="list-style-type: none"> 1. Press in control knob fully. 2. After ODS/pilot lights, keep control knob pressed in for 30 seconds. 3. Fully open manual shutoff valve. 4. Hand tighten until snug, then tighten 1/4 turn more.

TROUBLESHOOTING

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
	<ol style="list-style-type: none"> 5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by either low gas pressure, or a dirty or partially clogged ODS/pilot. 6. Thermocouple damaged. 7. Control valve damaged. 	<ol style="list-style-type: none"> 5. Contact local gas company. 6. Replace thermocouple. 7. Replace control valve.
One or both burners do not light after ODS/pilot is lit.	<ol style="list-style-type: none"> 1. Burner orifice is clogged. 2. Burner orifice diameter is too small. 3. Inlet gas pressure is too low. 	<ol style="list-style-type: none"> 1. Clean burner or replace burner orifice. 2. Replace burner orifice. 3. Contact qualified service person.
Burner backfires during combustion.	<ol style="list-style-type: none"> 1. Manifold pressure is too low. 2. Burner orifice is clogged. 	<ol style="list-style-type: none"> 1. Contact local gas company. 2. Clean burner or replace burner orifice.
Slight smoke or odor during initial operation.	<ol style="list-style-type: none"> 1. Burner orifice is clogged or damaged. 2. Burner is damaged. 3. Gas regulator defective. 	<ol style="list-style-type: none"> 1. Clean burner or replace burner orifice. 2. Replace burner. 3. Replace gas regulator.
Logs appear to smoke after initial operation.	<ol style="list-style-type: none"> 1. Vapors from paint or curing process of logs. 	<ol style="list-style-type: none"> 1. Problem will stop after a few hours of operation. Run the heater with the damper open if you have one, or open a window for the first few hours. 2. Log heater is intended to be smokeless. Turn OFF heater and call qualified service person.
Heater produces a whistling noise when burner is lit.	<ol style="list-style-type: none"> 1. Turning control knob to HIGH position when burner is cold. 2. Air in gas line. 3. Dirty or partially clogged burner orifice. 	<ol style="list-style-type: none"> 1. Turn control knob to LOW position and let warm up for a minute. 2. Operate burner until air is removed from line. Have gas line checked by local gas company. 3. Clean burner or replace burner orifice.
No gas to pilot.	<ol style="list-style-type: none"> 1. LP-regulator shut down due to inlet pressure too high. 	<ol style="list-style-type: none"> 1. Verify LP tank regulator is installed and set at 11" to 13" w.c. 2. Replace regulator on heater.

WARNING

If the gas quality is bad, your pilot may not stay lit, the burners may produce soot and the heater may backfire when lit. If the gas quality or pressure is low, contact your local gas supplier immediately.

OWNERS MANUAL

HOW TO ORDER REPAIR PARTS OR "OPTIONS"

This manual will help you obtain efficient, dependable service from the gas logs, and enable you to order repair parts correctly.

Keep in a safe place for future reference.

When writing, always give the full model number which is on the nameplate attached to the front of the furnace.

When ordering repair parts or options, always give the following information as shown in this list:

1. The Part Number
2. The Part Description
3. The Model Number: 9524N / 9524P
4. The Serial Number _____

Before installing your heater, fill in the serial number in the space provided above for your records.

LIMITED WARRANTY POLICY

This unvented gas heater is warranted for a period of one year, logs for one year, and burners, from date of purchase against defects in material or workmanship. This warranty covers only the cost of defective parts and applies only to the original consumer purchaser. The replacement of defective parts will be without charge. This warranty does not extend to (1) heater damage by accident, neglect, misuse, abuse, alteration, negligence of others, including the installation thereof by unqualified installers, (2) the costs of removal, reinstallation or transportation of defective parts on the heater, or (3) incidental or consequential damage.

THIS WARRANTY IS EXPRESSLY IN LIEU OF OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY OF FITNESS FOR PURPOSE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES, UNITED STATES STOVE COMPANY DOES NOT ASSUME FOR IT, ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH THE SALE OR USE OF THIS HEATER.

The heater (MUST BE INSTALLED BY A QUALIFIED INSTALLER) in accordance with the instructions furnished with the unit. The defective heater should be returned at your expense to the dealer from whom the product was purchased or an authorized service agent. Any products presented for warranty repair must be accompanied by a dated proof of purchase and date of purchase. Since some states do not allow the exclusion on limitation of incidental or consequential damages, or on how long an implied warranty lasts, the above limitations may not apply to you.



UNITED STATES STOVE COMPANY

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Date: August 95

P/N 16D2101