

INSTALLATION INSTRUCTIONS

Installation And Operation Instructions

Unvented Gas Log
Room Heaters

VFGL-18M-3 Series*
VFGL-24M-3 Series*
VFGL-28M-3 Series*
VFGL-18V-3 Series
VFGL-24V-3 Series
VFGL-28V-3 Series

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.

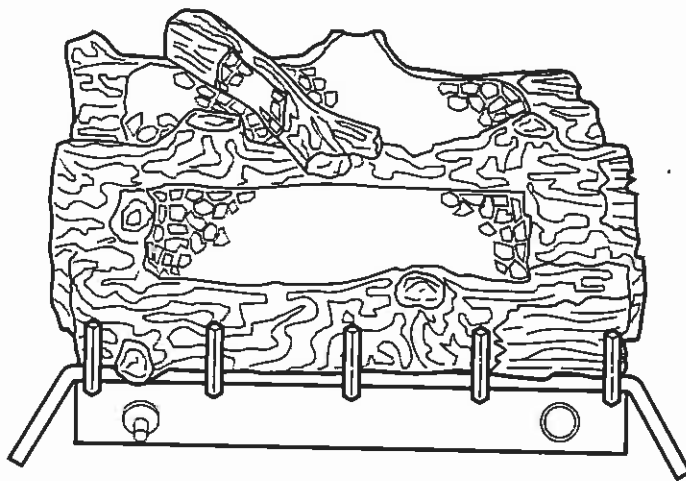
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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 combustion and ventilation air section, page 3.

Due to high temperatures, the appliance should be located out of traffic and away from furniture or draperies.

Do not place clothing or other materials on or near this appliance.

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE.



*Note: Manual control models are also design certified for use as vented gas log sets.

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GENERAL INFORMATION

These Unvented Gas Log Room Heaters incorporate unitized ceramic fiber logs which glow realistically when the heater is operating.

The log sets covered in this document are manually controlled heater rated units. These units are equipped with either a standard manual gas valve or a millivolt gas valve. The control knob is set to the desired position, which maintains a continuous gas burning rate.

A spark ignition system (piezo) allows the gas pilot to be lit without the use of matches or batteries and permits operation of the heater during a power outage.

These heaters are fitted with a specially designed pilot utilizing an oxygen depletion sensor (ODS) which responds to the amount of oxygen available in the room and shuts the heater off before the oxygen level drops below 18%. The pilot can be relit only when fresh air is available. Refer to the Combustion and Ventilation Air section.

WARNING: THIS APPLIANCE IS FOR INSTALLATION ONLY IN A SOLID FUEL BURNING FIREPLACE WITH A WORKING FLUE OR AN APPROVED VENTLESS FIREBOX ENCLOSURE.

Minimum Fireplace (Firebox) Size

Log Set	Height	Depth	Width
18" Models	16"	14"	20" Front 19" Rear
24" Models	16"	14"	35" Front 27" Rear
28" Models	16"	14"	38" Front 30" Rear

Table 1

Do not install these Unvented Gas Log Room Heaters in a bedroom or a bathroom as all units exceed maximum allowable BTU/hr input of 10,000.

Check the inventory list to be sure that you have all the necessary parts in usable condition. Also check for concealed damage.

Inventory

Unvented gas log room heater
Two (2) screws
Bag of decorative volcanic rock
Ceramic fiber logs
Installation and Operating Instructions

Tools and Supplies Normally Required

External regulator (Propane models only)
Manual shut-off valve
Sediment trap
Piping complying with local codes
Pipe compound
Pipe wrench
Tee joint
Screwdriver

IMPORTANT SAFETY INFORMATION

INSTALLER: PLEASE LEAVE THESE INSTRUCTIONS WITH THE OWNER.

OWNER: PLEASE RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

IMPORTANT: READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR TRYING TO OPERATE THIS HEATER.

WARNING: FAILURE TO COMPLY WITH THE INSTALLATION AND OPERATING INSTRUCTIONS PROVIDED IN THIS DOCUMENT WILL RESULT IN AN IMPROPERLY INSTALLED AND OPERATING APPLIANCE, VOIDING ITS WARRANTY. ANY CHANGE TO THIS APPLIANCE AND/OR ITS OPERATING CONTROLS IS DANGEROUS. IMPROPER INSTALLATION OR USE OF THIS APPLIANCE CAN CAUSE SERIOUS INJURY OR DEATH FROM FIRE, BURNS, EXPLOSION OF CARBON MONOXIDE POISONING.

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning are similar to the flu with headaches, dizziness and/or nausea. If you have these signs, obtain fresh air immediately. Turn off the gas supply to the appliance and have it serviced by a qualified professional, as it may not be operating correctly.

- Due to high temperatures, the heater should be located out of traffic and away from furniture and draperies.

- Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.

- Young children should be carefully supervised when they are in the same room with the heater.

- Do not place clothing or other flammable material on or near the heater.

- Any safety screen or guard removed for servicing the heater must be replaced prior to operating the heater.

- Installation and repair should be done by a qualified service person. The heater should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is important that control compartments, burners and circulating air passageways of the heater be kept clean.

- Allow the heater to cool before servicing. Always shut off the gas to the heater while performing service work.

- Do not install the heater in a bedroom or bathroom.

- The installation must conform with local codes or, in the absence of local codes with the National Fuel Gas Code, ANSI Z223.1.

- The heater and its individual shut-off valve must be disconnected from the gas supply piping system while performing any tests of the gas supply piping system at pressures in excess of 1/2 psig.

- The heater must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig.

- Keep heater area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

- Do not use this heater if any part has been 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.

- Input ratings are shown in BTU per hour and are for elevations up to 4,800 feet. Do not install this heater at an elevation above 4,800 feet if the gas supply has not been derated for that elevation. Consult your local gas supplier. (For operation at elevations above 4,800 feet, equipment ratings shall be reduced at the rate of 4 percent for each 1,000 feet above sea level before selecting appropriately sized equipment.)

- Ensure that the heater is clean when operating. Excessive dust accumulation on the burner and/or logs will increase the amount of carbon monoxide formation and could lead to carbon monoxide poisoning and/or death.

CODES

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

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

Superior Unvented Gas Log Room Heaters are certified by AGA to ANSI Z21.11.2 standard. These gas log room heaters may be used as a space heat source for a room in conjunction with an approved unvented firebox. Additionally, manually controlled units are design certified by AGA to ANSI 21.60 as a vented gas log set.

As such manually controlled units may be used as vented gas log set in any wood-burning fireplace that has been properly constructed to code, and in the case of factory built fireplaces, installed in compliance with manufacturers listing and installation instruction.

Use of the manually controlled log sets covered by this manual in a properly vented wood-burning fireplace which has had the damper blocked open as detailed in these installation instructions preclude consideration of the combustion and ventilation air and clearance to combustible restrictions discussed herein.

COMBUSTION AND VENTILATION AIR

This heater shall not be installed in a confined space or unusually tight construction 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 ft³ per 1,000 BTU/Hr (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 ft³ per 1,000 BTU/Hr (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.

Unusually tight construction is defined as construction where:

a. wall and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating or one perm or less with openings gasketed or sealed, and

b. weather stripping has been added on operable windows and doors, and

c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

Use the following equations to determine if you have a confined or unconfined space.

1. Determine the volume of space — ft³.

Length x Width x Height = _____ ft³
(Include adjoining rooms with doorless passageways or ventilation grills between rooms.)

Example: 24' (L) x 16' (W) x 8' (H) = 3072 ft³

2. Divide the volume of space by 50 ft³ to determine the maximum BTU/Hr the space can support.

_____ (volume of space — ft³) / 50 ft³ =
(Maximum BTU/Hr the space can support)

Example: 3072 ft³ / 50 ft³ = 61.44
or 61,440 BTU/Hr the space can support.

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

Vent-Free heater	_____	BTU/Hr
Gas appliance #1*	_____	BTU/Hr
Gas appliance #2	+ _____	BTU/Hr
Total =	_____	BTU/Hr

Example:

Vent-free heater	32,000	BTU/Hr
Gas appliance #1 (water heater)	35,000	BTU/Hr
Total =	67,000	BTU/Hr

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

4. Compare the maximum BTU/Hr the space can support with the actual amount of BTU/Hr used.

_____	BTU/Hr
	(max. the space can support)
_____	BTU/Hr
	(actual amount of BTU/Hr used)

Example:

61,440	BTU/Hr
	(max. the space can support)
67,000	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.

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

Rear Burner Characteristics— The rear flames should be yellow. The flames should extend about 3 – 4" above the front log for natural gas and 2 – 3" above for propane (L.P.G.) gas (Figure 14).



Figure 14

Main Burner Characteristics – The flames at the front burner holes will be blue becoming orange as they hit the bark-like texture of the base and front face of the log.

OPERATION AND CARE OF YOUR APPLIANCE

1. Appliance operation may be controlled through the ON/OFF unit rocker switch, located in the control compartment, or through a remotely located optional wall switch or wall thermostat.
2. Thermostat units are equipped with a two stage (HI, LOW) gas control valve. To cycle the burner between the HI and LOW settings, rotate the control knob clockwise and counterclockwise respectively.
3. When lit for the first time, the appliance will emit a slight odor for an hour or two. This is due to the "burn-in" of the internal paints and lubricants used in the manufacturing process. For the first few hours, operate the appliance with doors and windows open to encourage the dissipation of odor.

CLEANING AND SERVICING

WARNING: TURN OFF THE UNVENTED GAS ROOM HEATER AND ALLOW TO COOL BEFORE CLEANING.

CAUTION: YOU MUST KEEP CONTROL AREAS, BURNERS AND CIRCULATING AIR PASSAGEWAYS OF FIREPLACE CLEAN. INSPECT THESE AREAS OF FIREPLACE BEFORE EACH USE. HAVE FIREPLACE AND CHIMNEY (IF APPLICABLE) INSPECTED YEARLY BY A QUALIFIED SERVICE PERSON. FIREPLACE MAY NEED MORE FREQUENT CLEANING DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, ETC.

Only limited cleaning will be required under the normal use of the heater. Dust the front grate, the top of the piezo cover and the control knob occasionally. Do not use cleaning fluids to clean the logs or any other part of the room heater.

Remove the logs, gently handling at each end. Use a vacuum cleaner to remove loose particles from the base and from around the burners. Gloves are recommended to prevent the fibers from pricking your skin. If the skin is pricked, wash gently with soap and water. Replace the logs as detailed in Step 4 Assembling the Logs.

If, after a period of use, the flames start to exhibit unusual shapes and behavior, or the burners fail to ignite smoothly, then the burner holes may require some cleaning. If this happens, it is preferable to contact your nearest dealer to get the appliance serviced.

REPLACEMENT PARTS

An exploded view of the room heater with numbered parts and a parts list can be found on page 16. All parts should be ordered through your Superior distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

1. The model number of the heater.
2. The serial number of the heater.
3. The part number.
4. The description of the part.
5. The quantity required.
6. The installation date of the heater.

If you encounter any problems or have any questions concerning the installation of this heater, please contact your distributor. For the name of your nearest distributor contact:

SFC
1110 West Taft Avenue
Orange, CA 92865

OPTIONAL EQUIPMENT

All options are available in kit form, are easy to install and are packaged complete with all required parts and instructions. Some of the option kits need to be fitted prior to completing the installation of the appliance. The following paragraphs detail the kit options available.

The appliances covered in this manual are heater rated and produce a great deal of heat. Decorative brass trim pieces and hoods may tarnish because of their proximity to the heater opening and front face. Tarnishing of these pieces is normal, unavoidable and should be expected.

Remote Control Kit

The Model RCK adds the convenience of remote control for your appliance. The kit includes a wireless, hand held transmitter and a receiver. This special receiver permits either manual or remote control modes. Both receiver and transmitter operate on standard 9 volt batteries (not included). Refer to the RCK installation instruction for specific details.

Damper Clamp Kit

A Damper Clamp Kit is available for use when required by local codes. Using the damper clamp to fix open the fireplace damper will allow this vent free product to be utilized as a vented decorative gas log set, (see details on pages 3 and 4).

Wall Switch Kit*

An optional wall switch kit can be installed along with all vent-free appliances. The kit consists of a standard UL wall switch with cover plate. This kit provides for remote (wall) operation of the appliance. Replace the wall switch and cover plate of this kit with the components of the RCK and you can have true remote control of your vent-free appliance, turning it on and off from your favorite easy chair. The wall switch kit should be installed along with the appliance.

Wall Thermostat Kit*

A wall thermostat kit is available for use with these appliances. The wall thermostat is designed to be wired directly to the appliance millivolt gas control circuit and provide automatic On/Off control of the appliance to maintain a desired temperature within the room.

Decorative Volcanic Stone

The decorative volcanic stone, Model VFVS, can be used to enhance the look of your appliance. Spread the decorative volcanic stone evenly around the bottom of the firebox.

Adjustable Canopy

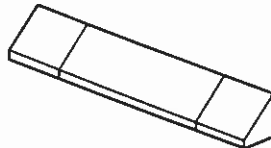
An attractive black or brass canopy kit is available for use with these VF appliances. The canopy kit is designed to be fitted to the wall above the firebox opening. In addition to providing an aesthetically pleasing appearance, the canopy reduces heat effects to decorative mantles and finish materials located directly above the fireplace opening. The canopy kit includes the necessary attaching hardware.

*Use 18GA, solid two conductor wire to connect these kits to the appliance.

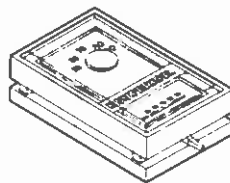
ACCESSORIES



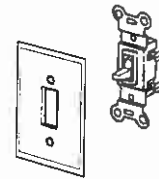
Decorative Volcanic Stone P/N 110791 VFVS



Adjustable Canopy
Brass P/N 053751 AC - SPB
Black P/N 053752 AC - BLK



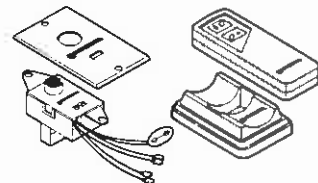
Thermostat P/N 064248 WTX



Wall Switch Kit P/N 064035 WSK



Damper Clamp P/N 110701 DCK



Remote Control Kit P/N 064453 RCK

UNVENTED GAS LOG ROOM HEATER SPECIFICATION CHART

Model No.	Valve Operation	BTU/hr Input	Gas Type
VFGL - 18 MSN-3	Manual*	14,000 - 25,000	Natural
VFGL - 18 MSP-3	Manual*	14,000 - 25,000	Propane/LPG
VFGL - 24 MSN-3	Manual*	17,000 - 32,000	Natural
VFGL - 24 MSP-3	Manual*	17,000 - 32,000	Propane/LPG
VFGL - 28 MSN-3	Manual*	17,000 - 32,000	Natural
VFGL - 28 MSP-3	Manual*	17,000 - 32,000	Propane/LPG
VFGL - 18 VSN-3	Millivolt	19,500 - 25,000	Natural
VFGL - 18 VSP-3	Millivolt	19,500 - 25,000	Propane/LPG
VFGL - 24 VSN-3	Millivolt	25,000 - 32,000	Natural
VFGL - 24 VSP-3	Millivolt	25,000 - 32,000	Propane/LPG
VFGL - 28 VSN-3	Millivolt	25,000 - 32,000	Natural
VFGL - 28 VSP-3	Millivolt	25,000 - 32,000	Propane/LPG

* Manual control models are also design certified for use as vented gas log sets.

UNVENTED GAS LOG ROOM HEATER TECHNICAL CHART

Model No.	BTU/HR High	Gas Type	Ignition	Regulator Pres. Setting	Gas Inlet Pressure**	Valve Operation
VFGL - 18N	25,000	Natural	Piezo	5" w.c.	Max. 10.5" w.c. Min. 6" w.c.	Manual*/Millivolt
VFGL - 18P	25,000	Propane/LPG	Piezo	10" w.c.	Max. 13" w.c. Min. 11" w.c.	Manual*/Millivolt
VFGL - 24N	32,000	Natural	Piezo	5" w.c.	Max. 10.5" w.c. Min. 6" w.c.	Manual*/Millivolt
VFGL - 24P	32,000	Propane/LPG	Piezo	10" w.c.	Max. 13" w.c. Min. 11" w.c.	Manual*/Millivolt
VFGL - 28N	32,000	Natural	Piezo	5" w.c.	Max. 10.5" w.c. Min. 6" w.c.	Manual*/Millivolt
VFGL - 28P	32,000	Propane/LPG	Piezo	10" w.c.	Max. 13" w.c. Min. 11" w.c.	Manual*/Millivolt

* Manual control models are also design certified for use as vented gas log sets.

** For the purpose of input adjustment.

TROUBLESHOOTING GUIDE FOR VENT-FREE GAS PRODUCTS

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
1. When igniter button is pressed, there is no spark at ODS/pilot.	A. Igniter electrode positioned wrong.	Replace igniter.
	B. Igniter electrode broken.	Replace Igniter.
	C. Igniter electrode not connected to igniter cable.	Reconnect igniter cable.
	D. Igniter cable pinched or wet.	Free igniter cable if pinched by any metal or tubing. Keep igniter cable dry.
	E. Piezo igniter nut is loose.	Tighten nut.
	F. Broken igniter cable.	Replace igniter cable.
	G. Bad piezo igniter.	Replace piezo igniter.
2. Heater produces unwanted odors.	A. Heater burning vapors from paint, hair spray, glues, etc.	Ventilate room. Stop using odor-causing products while fireplace is running.
	B. Gas leak. See Warning statement on the front page.	Locate and correct all leaks.
3. Heater shuts off in use (ODS operates).	A. Not enough fresh air is available.	Open window and/or door for ventilation.
	B. Low line pressure.	Contact local gas company.
	C. ODS/pilot is partially clogged.	Clean ODS/pilot.
4. Gas odor even when control knob is in "OFF" position.	A. Gas leak. See Warning statement on the front page.	Locate and correct all leaks (see Checking Gas Connections, page 6).
	B. Control valve defective.	Replace control valve.
5. When igniter button is pressed, there is spark at ODS/pilot, but no ignition.	A. Gas supply turned off or manual shut-off valve closed.	Turn on gas supply or open manual shut-off valve.
	B. Control knob not in "PILOT" position.	Turn control knob to pilot position.
	C. Control knob not pressed in while in "PILOT" position.	Press in control knob while in pilot position.
	D. Air in gas lines when installed.	Continue holding down control knob. Repeat igniting operation until air is removed.
	E. ODS/pilot is clogged.	Replace ODS/pilot assembly or get it serviced.
	F. Gas regulator setting is not correct.	Replace gas regulator.
6. ODS/pilot lights, but flame goes out when control knob is released.	A. Control knob not fully pressed in.	Press in control knob fully.
	B. Control knob not pressed in long enough.	After ODS/pilot lights, keep control knob pressed in 30 seconds.
	C. Manual shut-off valve not fully open.	Fully open manual shut-off valve.
	D. Thermocouple connection loose at control valve.	Hand tighten until snug, then tighten ¼ turn more.
	E. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: 1). Low gas pressure 2). Dirty or partially clogged ODS/pilot	1). Contact local gas company. 2). Replace ODS/pilot assembly or get pilot serviced.
	F. Thermocouple damaged.	Replace thermocouple.
	G. Control valve damaged.	Replace control valve.
7. Burner does not light after ODS/pilot is lit.	A. Burner orifice is clogged.	Clean burner or replace burner orifice.
	B. Burner orifice diameter is too small.	Replace burner orifice.
	C. Inlet gas pressure is too low.	Contact local gas company.
8. Delayed Ignition of burner.	A. Manifold pressure is too low.	Contact local gas company.
	B. Burner orifice is clogged.	Clean burner or replace burner orifice.
9. Burner backfiring during combustion.	A. Burner orifice is clogged or damaged.	Clean burner or replace burner orifice.
	B. Burner damaged.	Replace burner.
	C. Gas regulator defective.	Replace gas regulator.
10. Slight smoke or odor during initial operation.	A. Vapors from paint or curing process of logs.	Problem will stop after a few hours of operation. Superior recommends running the heater with the excess ventilation for the first few hours.
11. Heater produces a whistling noise when burner is lit.	A. Turning control knob to "HI" position when burner is cold.	Turn control knob to "LO" position and let warm up for a minute.
	B. Air in gas line.	Operate burner until air is removed from line. Have gas line checked by local gas company.
	C. Dirty or partially clogged burner orifice.	Clean burner or replace burner orifice.







OPERATING INSTRUCTIONS — MANUAL CONTROL MODELS

FOR YOUR SAFETY READ BEFORE LIGHTING

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

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

1. Stop! Read the safety information above.
 2. Make sure manual shut-off valve is fully open.
 3. Refer to *Figure 15* to locate gas control knob and piezo.
 4. Depress control knob in and turn clockwise  to the "OFF" position (*Figure 16*).
 5. Wait 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 do not smell gas, go to the next step.
 6. The pilot is located on the right side in front of the burner (*Figure 17*).
 7. Depress control knob in and turn counterclockwise  to the "IGN" position (*Figure 18*). Press the control knob all the way in for 5 seconds.
 8. With the control knob pressed in, push in and release the piezo igniter button to light the pilot.
 9. Hold the control knob in for a further 10 seconds to prevent the flame failure detector from shutting off the gas while the probe is warming up.
 10. Release the control knob while turning counterclockwise  to the preferred setting.
 - If the knob does not pop out when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, depress and turn the gas control knob clockwise  to "OFF" and wait 30 seconds. Depress and turn knob counterclockwise  to "IGN" and press igniter button again. If your pilot does not relight depress and turn control knob clockwise  to "OFF" and call your service technician or gas supplier.
 11. Wait 30 seconds before readjusting the heater when the control knob has been turned down to a lower setting.
- Note: If you are running the heater for the first time it will be necessary to press the control knob all the way in for 30 seconds to allow air to bleed out of the gas piping.*

TO TURN OFF GAS TO APPLIANCE

1. Depress and turn control knob clockwise  to the "OFF" position (*Figure 18*).

MANUAL MATCH LIGHTING PROCEDURE — EMERGENCY ONLY

1. If the pilot cannot be lit with the piezo igniter, the heater can be manually lit with a match.
2. With the right hand, depress and turn the control knob counterclockwise  to the "IGN" position. Hold in the knob.
3. Light the match and hold the flame to the end of the pilot and ignite the pilot.
4. Continue to hold control knob for an additional 10 seconds to insure pilot remains lit.
5. Release the control while turning control knob to desired setting.

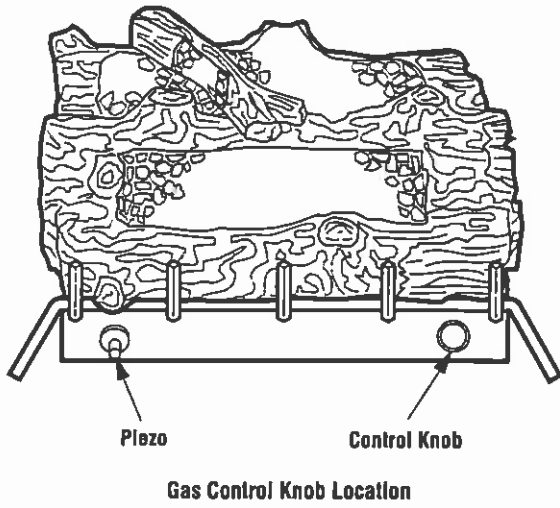


Figure 15

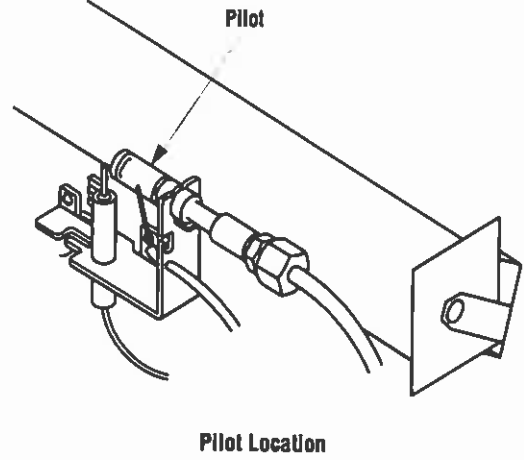


Figure 17

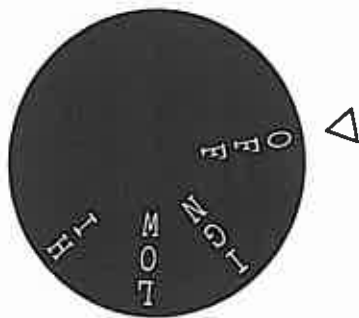


Figure 16

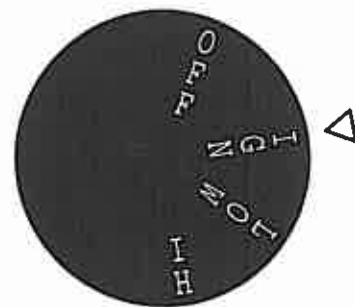


Figure 18

OPERATING INSTRUCTIONS

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 heater has a pilot which must be lit by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE OPERATING** smell all around the heater area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.



WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.


- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.




- C.** Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Forced or attempted repair may result in a fire or explosion.
- D.** Do not use this heater 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

1. Stop! Read the safety information above.
2. Make sure manual shut-off valve is fully open.
3. Locate gas control knob and piezo.
4. Depress control knob in and turn clockwise  to the "OFF" position (Figure 19).
5. Wait 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 do not smell gas, go to the next step.
6. The pilot is located on the right side in front of the burner (Figure 20).
7. Depress control knob in and turn counterclockwise  to the "PILOT" position (Figure 21). Press the control knob all the way in for 5 seconds.


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

8. With the control knob pressed in, push in and release the piezo igniter button to light the pilot.
9. Hold the control knob in for a further 10 seconds to prevent the flame failure detector from shutting off the gas while the probe is warming up.
10. Release the control knob while turning counterclockwise  to the "ON" Position (Figure 22). Then adjust "HI"- "LOW" knob to preferred setting.


- If the knob does not pop out when released, stop and immediately call your service technician or gas supplier.
- If the pilot will not stay lit after several tries, depress and turn the gas control knob clockwise  to "OFF" and wait 30 seconds. Depress and turn knob counterclockwise  to "IGN" and press igniter button again. If your pilot does not relight depress and turn control knob clockwise  to "OFF" and call your service technician or gas supplier.

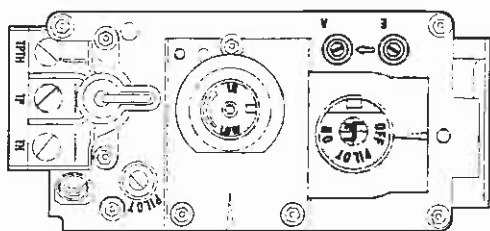
11. Wait 30 seconds before readjusting the heater when the control knob has been turned down to a lower setting.

TO TURN OFF GAS TO APPLIANCE

1. Depress and turn control knob clockwise  to the "OFF" position (Figure 19).

MANUAL MATCH LIGHTING PROCEDURE — EMERGENCY ONLY

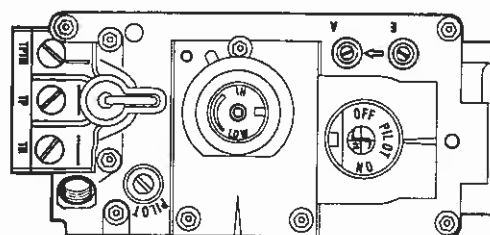
1. If the pilot cannot be lit with the piezo igniter, the heater can be manually lit with a match.
2. With the right hand, depress and turn the control knob counterclockwise  to the "ON" position. Hold in the knob.
3. Light the match and hold the flame to the end of the pilot and ignite the pilot.
4. Continue to hold control knob for an additional 10 seconds to insure pilot remains lit.
5. Release the control while turning control knob to desired setting.



Note: Knob cannot be turned from "PILOT" to "OFF" unless the knob is pushed in slightly. Do not force.

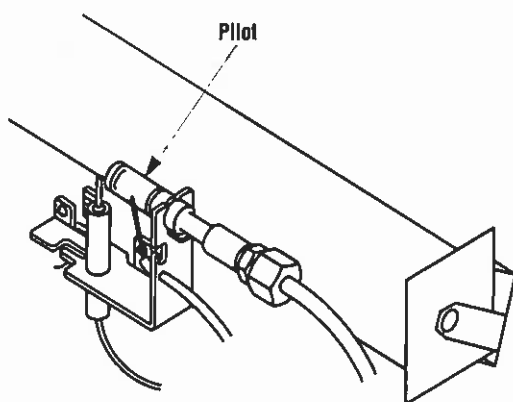
Turn Control Knob to "OFF" Position

Figure 19



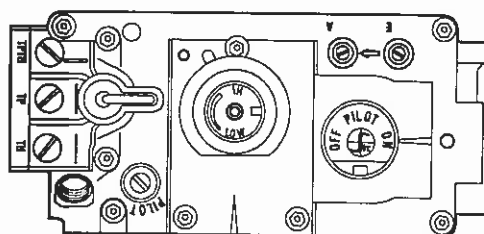
Turn Control Knob to "PILOT" Position

Figure 21



Pilot Location

Figure 20



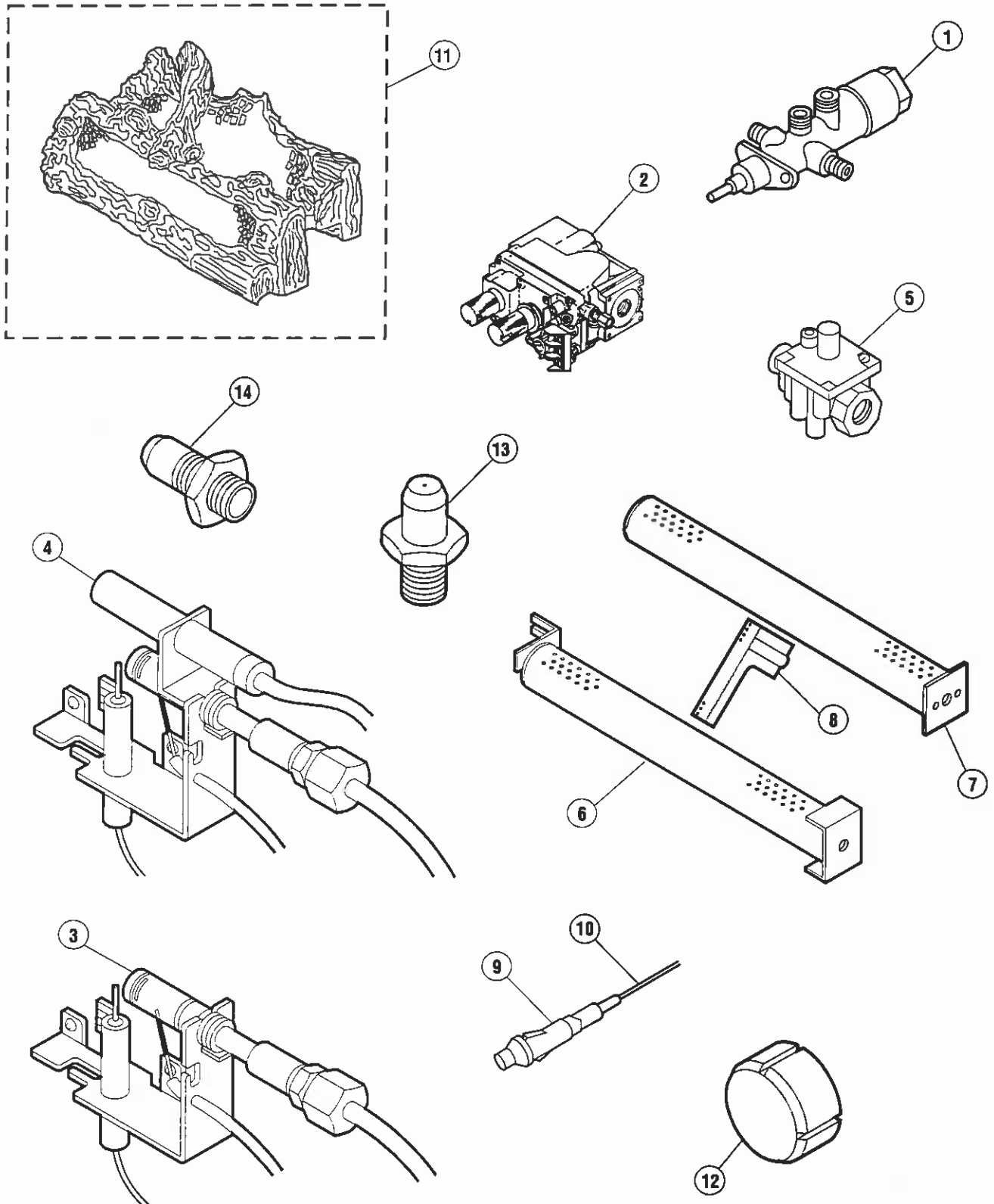
Turn Control Knob to "ON" Position

Figure 22

REPLACEMENT PARTS LIST

No.	Description	18N/18P Part No.	24N/24P Part No.	28N/28P Part No.
1.	Valve - Manual (Natural)	110331	110331	110331
	Valve - Manual (Propane, L.P.G.)	110331	110331	110331
2.	Valve, Millivolt (Natural)	903489	903489	903489
	Valve, Millivolt (Propane, L.P.G.)	901917	901917	901917
3.	Pilot (Natural)	110341	110341	110341
	Pilot (Propane, L.P.G.)	110342	110342	110342
4.	Pilot, Millivolt (Natural)	901914	901914	901914
	Pilot, Millivolt (Propane, L.P.G.)	901915	901915	901915
5.	Regulator (Natural)	110351	110351	110351
	Regulator (Propane, L.P.G.)	110352	110352	110352
6.	Front Burner	110281	110282	110282
7.	Rear Burner (Natural)	110684	110682	110682
	Rear Burner (Propane, L.P.G.)	113301	110302	110302
8.	Crossover Burner	110321	110321	110321
9.	Piezo	111061	111061	111061
10.	Piezo Wire	110361	110361	110361
11.	Log Assembly – Split Oak	112901	112902	112903
12.	Control Knob - Manual	110401	110401	110401
13.	Injector, Burner (Natural)	110381	110383	110383
	Injector, Burner (Propane, L.P.G.)	110382	110384	110384
14.	Injector, Crossover Burner (Natural)	110387	110387	110387
	Injector, Crossover Burner (Propane, L.P.G.)	110388	110388	110388

REPLACEMENT PARTS



NOTE: DIAGRAMS & ILLUSTRATION NOT TO SCALE.

Manufacturer's Unvented Gas Room Heater Limited Warranty 1 Year

THE WARRANTY

The Manufacturer warrants this Unvented Gas Room Heater to be free from defects in materials and workmanship at the time of manufacture.

REMEDY AND EXCLUSIONS

The coverage of this Warranty is limited to all components of the Unvented Gas Room Heater supplied by the Manufacturer.

This Warranty only covers Unvented Gas Room Heaters installed in the United States or Canada.

If the Unvented Gas Room Heater covered by this Warranty is found to be defective within one year from the date of installation (see manufacturer's right of investigation outlined below), the manufacturer will, at its option, replace or repair defective components of the Unvented Gas Room Heater supplied by the manufacturer at no charge and will also pay for reasonable labor costs incurred in replacing or repairing such components. If repair or replacement is not commercially practical, the manufacturer will, at its option, refund the purchase price of the manufacturer's Unvented Gas Room Heater.

This Warranty covers only parts and labor as provided above. In no case shall the manufacturer be responsible for materials, components, or construction which are not manufactured or supplied by the Manufacturer, or for the labor necessary to install, repair, or remove such materials, components or construction. All replacement or repair components will be shipped F.O.B. the nearest Manufacturer's factory.

QUALIFICATIONS TO THE WARRANTY

The Unvented Gas Room Heater Warranty outlined above is further subject to the following qualifications:

- (1) The Unvented Gas Room Heater must be installed in accordance with the Manufacturer's installation instructions and local building codes. The Warranty on this Manufacturer's Unvented Gas Room Heater covers only the component parts supplied by the Manufacturer. The use of components manufactured by others with this Manufacturer's Unvented Gas Room Heater could create serious safety hazards, may result in the denial of certification by recognized national safety agencies, and could be in violation of local building codes. This Warranty does not cover any damages occurring from the use of any components not manufactured or supplied by the Manufacturer.
- (2) The Unvented Gas Room Heater must be subjected to normal use. The Unvented Gas Room Heaters are designed to burn either natural or propane gas only. Burning conventional fireplace fuels such as wood, coal, or any other solid fuel will cause damage to the Unvented Gas Room Heater, will produce unsafe levels of carbon monoxide and will result in a fire hazard.

LIMITATION ON LIABILITY

It is expressly agreed and understood that the Manufacturer's sole obligation and purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above.

In no event shall the Manufacturer be responsible for any incidental or consequential damages caused by defects in its products, whether such damage occurs or is discovered before or after replacement or repair, and whether or not such damage is caused by the Manufacturer's negligence. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The duration of any implied warranty with respect to this Unvented Gas Room Heater is limited to the duration of the foregoing warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above may not apply to you.

INVESTIGATION OF CLAIMS AGAINST WARRANTY

The Manufacturer reserves the right to investigate any and all claims against this Warranty and to decide upon method of settlement.

THE MANUFACTURER NOT RESPONSIBLE FOR WORK DONE WITHOUT WRITTEN CONSENT

The Manufacturer shall in no event be responsible for any warranty work done without first obtaining Superior's written consent.

DEALERS HAVE NO AUTHORITY TO ALTER THIS WARRANTY

The Manufacturer's employees and dealers have no authority to make any warranties nor to authorize any remedies in addition to or inconsistent with those stated above.

HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this Warranty to be valid, The Manufacturer must be notified of the claimed defect in writing to SFC, attention Customer Service Department, 1110 West Taft Avenue, Orange, California 92865, as soon as reasonably possible after the defect is discovered. Claims against this Warranty in writing should include the date of installation, product serial number and a description of the defect.

OTHER RIGHTS

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

SFC reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.

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SFC

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