

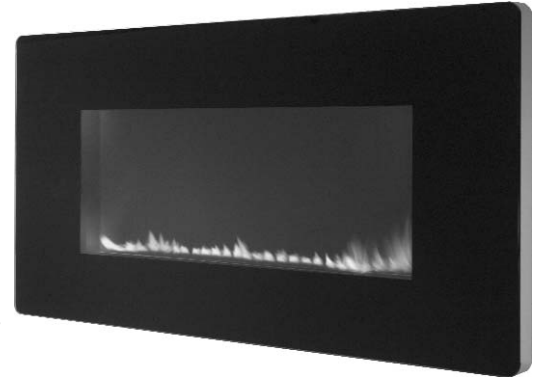
INSTALLATION AND OPERATION INSTRUCTIONS



Catalytic Vent - Free Wall-Mounted Fireplace

Model: Scandium-NG

P/N 850,055M Rev. NC, 04/2007



Installer: Leave This Manual With The Appliance.
Consumer: Retain This Manual For Future Reference.

In the Commonwealth of Massachusetts:

- Installation must be performed by a licensed plumber or gas fitter
- See Table of Contents for location of additional Commonwealth of Massachusetts requirements



Scandium™



WARNINGS

• **Hot! Do not touch!** This appliance will be hot during operation and will retain heat for a while after shutting off the appliance. Severe burns may result.



• Carefully supervise children in the same room as appliance.
• 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.

- Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.
- Do not build a wood fire. Do not burn wood or other material in these appliances.
- 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.
- This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.
- The 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.

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.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

- DO NOT light any appliance.
- DO NOT touch any electrical switches.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow your gas supplier's instructions.
- If your gas supplier cannot be reached, call the fire department.

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

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1.0 GENERAL INFORMATION

This appliance is a high efficiency, unvented, flame effect gas heater. It provides radiant and convected warmth both efficiently and safely utilizing the latest type catalytic convertor burner technology. The appliance does not require a flue system of any type as the catalytic converter cleans the flue products to provide a complete combustion system, which is intrinsically safe.

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.

The appliance is designed to fit various types of situations as listed in the Installation Requirements.

This appliance is factory set for operation on the gas type, and at the pressure stated on the appliance rating plate.

On first light up of a new appliance, initial curing of high temperature paint and burning off of lubricants may occur for the first few hours of operation. During this period some smoke may be emitted from outlet grille, this should be no cause for concern. Accordingly, the room should be well ventilated with all windows and doors open during this period.

Read all these instructions before commencing installation. All instructions must be handed to the user for safekeeping.



2.0 PACKAGING LIST

QUANTITY	DESCRIPTION
1	Firebox and burner assembly
1	Installation and operating instructions
1	Glass facia panel assembly
1	Fitting template
1	Screw and wall plug pack
1	Rubber grommet

3.0 APPLIANCE DATA

Gas Type	Natural Gas
Gas inlet pressure	Maximum 10.5" w.c.
	Minimum 6" w.c.
Regulator Pressure Setting	5" w.c.
Max Energy Input	11,950 BTU/hr
Min Energy Input	6,820 BTU/hr
Pilot Energy Input	560 BTU/hour
Burner (Manifold) Pressure	High 2.4" w.c.
	Low 0.8" w.c.
Main burner flow restrictor	2.0mm (0.079")
Oxypilot	SIT/Bray 9082
Gas Inlet Connection	3/8" NPT at regulator
Ignition	Piezo spark
Spark Gap	1/8" - 3/16"

Please see Data Plate affixed to appliance for current data.

This appliance is for use only with the gas type, and at the pressure stated on the appliance Data Plate.

4.0 IMPORTANT SAFETY INFORMATION



READ AND UNDERSTAND THESE INSTRUCTIONS COMPLETELY BEFORE INSTALLING OR OPERATING YOUR UNVENTED ROOM HEATER.

THE FOLLOWING BOXED INFORMATION APPLIES TO REQUIREMENTS FOR THE COMMONWEALTH OF MASSACHUSETTS.

Note: The following requirements reference various Massachusetts and national codes not contained in this document.

Unvented Room Heaters shall be installed in accordance with 527 CMR 30.00 and 248 CMR 3.00 through 7.00:

(a) Permits and Inspections: In addition to complying with 248 CMR 3.05 the following requirements must be satisfied:

1. A permit shall be obtained from the head of the fire department and the local or state gas inspector having jurisdiction for the installation of all unvented propane or natural gas-fired space/room heaters.

2. The permits shall be conditioned upon final inspection and approval of installation by the head of the fire department and the local or state gas inspector having jurisdiction.

3. A copy of the manufacturer's installation/operating literature shall be submitted with each permit application.

4. Before operation, the Head of the Fire Department and the local or state gas inspector shall inspect the installation for compliance with 527 CMR (Board of Fire Prevention Regulations) and 248 CMR (Board of State Examiners of Plumbers and Gas Fitters).

4.0 IMPORTANT SAFETY INFORMATION (continued)

THE FOLLOWING BOXED INFORMATION APPLIES TO REQUIREMENTS FOR THE COMMONWEALTH OF MASSACHUSETTS.

5. A final inspection by the state or local gas inspector of the unvented space/room heater shall not be performed until proof is provided that the head of the fire department having jurisdiction has granted a permit.

(b) Unvented natural gas-fired space/room heaters shall conform to ANSI Z21.11.2, be equipped with an oxygen depletion safety (ODS) shutoff system and be Product-approved in accordance with 248 CMR.

(c) Unvented natural gas-fired space/room heaters shall be installed in accordance with their listings and the manufacturer's instructions. Proper clearances to combustibles shall be maintained. In no case shall the clearances be such as to interfere with combustion air and accessibility.

(d) Installations shall be of a permanent type, with a permanently piped fuel supply in accordance with 248 CMR. LPG appliances shall be subject to the storage requirements in accordance with 527 CMR 6.00. Portable unvented or natural gas-fired space/room heaters shall be prohibited.

(e) Unvented natural gas-fired space/room heaters shall be prohibited in bedrooms and bathrooms.

(f) Space/room heaters shall be properly sized for the room or space of installation, but shall not exceed a maximum of 40,000 BTU input per room or space.

(g) In occupancies with an unvented natural gas-fired space/room heater, no less than one listed carbon monoxide detector that is installed in accordance with the manufacturers instructions shall be installed and maintained near the space where the heater is located.

1. Any building wherein the heater is to be installed shall, as a precondition to such installation, have working smoke detectors installed and maintained in accordance with the requirements of 780 CMR (State Board of Building Regulations and Standards) in effect at the time of construction or;

2. If no requirement was in effect at the time of construction the smoke detector shall be compliant and installed as provided for in M.G.L. c. 148, § 26E.

(h) In rooms and buildings served by an unvented natural gas-fired space/room heater, a primary source of heat, which is operable, shall be permanently installed and maintained in the building in accordance with 105 CMR (Department of Public Health).

(i) Sellers of unvented natural gas-fired space/room heaters shall provide to each purchaser a copy of 527 CMR 30.00 upon sale of the unit.

• Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.

• The flexible gas line connector used shall not exceed 36 inches (92 centimeters) in length.

• The individual manual shut-off must be a T-handle type valve.

New York : This appliance is approved for installation in the U.S. state of New York, but not New York City.

WARNING

FAILURE TO KEEP THE PRIMARY AIR OPENING(S) OF THE BURNER(S) CLEAN MAY RESULT IN SOOTING AND PROPERTY DAMAGE.

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 OR CARBON MONOXIDE POISONING.

• 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.

• 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 4,500 feet. If these appliances are installed at elevations above 4,500 feet, nuisance pilot outages may occur. Do not install this heater at an elevation above 4,500 feet if the gas supply has not been derated for that elevation. Consult your local gas supplier.

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

• Vent-free gas fireplaces are designed for use as a supplemental heaters. They are not intended for continuous use as a primary source.

WARNING

CHECK GAS TYPE : THE GAS SUPPLY MUST BE THE SAME AS STATED ON THE APPLIANCE'S RATING PLATE. IF THE GAS SUPPLY IS DIFFERENT DO NOT INSTALL THE APPLIANCE. CONTACT YOUR DEALER FOR THE CORRECT MODEL.

5.0 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).

Seller of unvented natural gas fired supplemental room heaters in the commonwealth of Massachusetts shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit. Please refer to section 4.0 on page 2 of this manual.

This Lennox Hearth Products unvented gas room heater is certified by OMNI-Test Laboratories, Inc to ANSI Z21.11.2-2007 standard.

6.0 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, ANSI Z223.1/NFPA 54* 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 of 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
Gas appliance #3 +	_____	BTU/Hr
Total =	_____	BTU/Hr

Example:

Vent-free heater #1	9,000	BTU/Hr
Vent-free heater #2	23,000	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 previous 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:

a. Rework equations adding the space of adjoining room(s). If the extra volume provides an unconfined space, then remove door or add ventilation grills between rooms. Refer to National Fuel Gas Code, ANSI Z223.1, Section 5.3.

b. Vent room directly to the outdoors. Refer to National Fuel Gas Code, ANSI Z223.1, Section 5.3.

c. Install a lower BTU/Hr heater, to make the area an unconfined space.

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

7.0 SITE REQUIREMENTS

This appliance is designed to be wall-hung. Do not recess any part of the appliance into the wall. This appliance may be installed in any room in a home except bedrooms or bathrooms - or areas where large amounts of steam are likely to be generated.

It should be noted that heaters create warm air currents. These currents move heat to wall surfaces next to the heater. Installing the heater next to vinyl or cloth wall coverings or operating the heater where impurities in the air (such as tobacco smoke or candle smoke) exist, may discolour walls.

Installation in living rooms is common, however other rooms such as kitchens, dining rooms and hallways are permitted, providing a suitable natural gas supply is available, and rooms sizing and ventilation requirements are strictly adhered to (see section 4).

The appliance is designed to be versatile, and as such will operate correctly when exposed to normal gentle drafts experienced within the home. It is not recommended, however that the appliance be installed in areas where it is likely to be exposed to persistent strong drafts, that may be generated by outside doors or windows, air vents etc. It is recommended that the appliance should not be installed within 20" of any air vent.

WARNING

IF THE AREA IN WHICH THE HEATER MAY BE OPERATED IS SMALLER THAN THAT DEFINED AS AN UNCONFINED SPACE OR IF THE BUILDING IS OF UNUSUALLY TIGHT CONSTRUCTION, PROVIDE ADEQUATE COMBUSTION AND VENTILATION AIR BY ONE OF THE METHODS DESCRIBED IN THE NATIONAL FUEL GAS CODE, ANSI Z223.1/NFPA 54, SECTION 5.3 OR APPLICABLE LOCAL CODES.

7.0 SITE REQUIREMENTS (continued)

Clearances to non-combustibles

Non-combustible surfaces are defined as brick, metal, marble, concrete etc. and also a number of man-made materials impervious to flame. If in doubt refer to the material manufacturer for further information before proceeding with installation.

Clearances to the sides of the appliance are 4". Clearance to the front of the appliance is 20".

The back of the appliance may be installed directly onto a non-combustible wall, providing the area behind the appliance is flat and does not interfere with the various vent holes in the back panel of the appliance.

The appliance may be installed with or without a non-combustible hearth. If a hearth is fitted, the size and design may be as desired.

A non-combustible shelf of any depth may be positioned above the appliance provided it is no closer than 16" from the top of the appliance glass panel and the wall above the appliance is non combustible.

Clearances to combustible materials

Combustible materials are defined as wood, fabrics, or other materials likely to combust if exposed to flame. Generally, any material, which is likely to discolour, melt or misshape when exposed to moderate heat, should be considered as a combustible material or surface.

Clearance to the sides of the appliance are 4" but curtains, drapes and other fabrics are not permitted within a distance of 20" of the appliance sides. No such materials are permitted directly above the appliance regardless of distance.

The minimum clearance to the ceiling above the appliance is 32" measured from the top of the appliance glass panel.

Combustible materials should not be positioned directly in front of the appliance within a distance of 40".

Under no circumstances should any electrical equipment e.g. plasma screen TV sets etc. be positioned on the wall above the appliance. The appliance is designed to be wall mounted alone and not in conjunction with any type of combustible fire surround.

No combustible shelves should be positioned on the wall above the appliance.

It should be established that any mirrors or picture frames etc. to be positioned on the wall above the appliance are able to withstand prolonged exposure to moderate heat and moisture before proceeding with their installation.

The back of the appliance may be installed directly onto a combustible wall, providing it is flat and does not interfere with the various vent holes in the back panel of the appliance. The wall must be structurally sound and constructed from a material capable of withstanding moderate heat. Finished plaster, conventional wall paper and dry-lined plasterboard are examples of suitable materials. Materials such as flock, blown vinyl and embossed paper which are sensitive to even small amounts of heat should be avoided as scorching and or discoloration may occur over time.

If the appliance is to be mounted on a dry-lined wall or a timber framed construction wall then the integrity and ability of the wall to carry the weight of the appliance must be confirmed. It is important in these circumstances that any vapor control barrier is not damaged, and that any structural members of the house frame are not damaged.

The appliance may be positioned as close to a solid floor (i.e. stone, wooden laminate etc.) as the particular design of fire frame permits, however it is not permitted to install the appliance within 4" of carpet, rugs or fabric materials of any kind. This dimension is measured vertically to the bottom of the appliance frame.

! WARNING

DO NOT USE A BLOWER INSERT, HEAT EXCHANGER INSERT OR OTHER ACCESSORY NOT APPROVED FOR USE WITH THIS HEATER.

8.0 PREPARING THE APPLIANCE

Gas connection : The heater gas inlet connection is 3/8" NPT at the regulator, located below the burner, in the center of the heater.

There are four possible entry points for the gas supply pipework to enter the appliance firebox. These entry points are 'knock out' type holes (shown in figure 1).

Non-concealed gas connections may be made using the entry points on the base of the firebox. A concealed gas connection may be made using the knock out hole in the centre back of the firebox. Select the most appropriate entry point and knock out the relevant hole.

If a concealed gas connection is to be made, the supply pipe should always be sleeved through walls and floors using the shortest possible route.

For concealed supply pipe routing, pipes must (where possible) be vertical and providing there is sufficient wall thickness available, they should be placed in pipe chases. Horizontal pipe runs should be avoided where possible. Prior to chasing a solid wall, an inspection should be made to note the proximity of any cables/sockets outlets which may already be buried. Pipes must be secured using suitable clips and protected against corrosion. Ideally factory finished protected pipework and fittings should be used. Joints should be kept to a minimum and compression fittings must not be used. The pipework installation must be tested for soundness before any protection is applied and/or the pipework and fittings are buried.

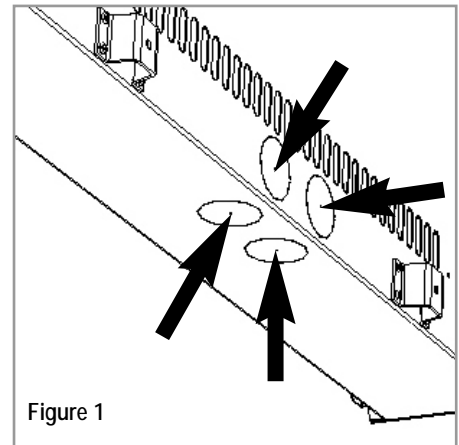


Figure 1

9.0 MOUNTING THE APPLIANCE

After having selected the final mounting position of the appliance, taking into account the site requirements as specified in section 7 of these instructions, the integrity of the wall, and the feasibility of the proposed supply pipe routing, the firebox of appliance may be secured to the wall.

! WARNING

DO NOT ALLOW ANY FANS TO BLOW DIRECTLY INTO THE FIREPLACE. AVOID ANY DRAFTS THAT ALTER BURNER FLAME PATTERNS.

9.0 MOUNTING THE APPLIANCE (continued)

WARNING

THE WALL WHERE THE APPLIANCE IS TO BE INSTALLED MUST BE CAPABLE OF LONG-TERM SUPPORT OF THE TOTAL LOAD OF THE APPLIANCE. MEASURES SHOULD ALSO BE TAKEN TO ENSURE SUFFICIENT STRENGTH TO WITHSTAND THE FORCE OF EARTHQUAKES, VIBRATION AND OTHER EXTERNAL FORCES.

To ensure customer safety, be sure to design the installation so that the strength of both the wall and any wall fixings used are sufficient. Lennox Hearth Products assumes absolutely no responsibility for injuries and damages that may occur due to improper installation or handling.

The appliance should not be installed until all dry wall sanding and wall painting has been completed.

Incorrect installation can cause the appliance to fall from the wall and cause injury. Do not block the ventilation holes of the appliance. The wall onto which the appliance is installed must be flat. Install only on a vertical surface. Avoid sloped surfaces. Installation onto anything other than a vertical wall may result in fire, damage or injury.

A full size fitting template is supplied to assist with wall mounting.

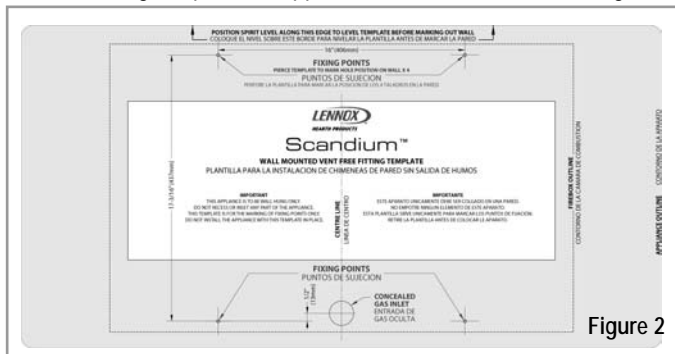


Figure 2

Mark the positions shown as “Fixing Points” on the wall. If the appliance is to be mounted on the inner leaf of a conventional cavity wall, or a solid wall, drill four holes using a 1/4” masonry bit. Insert the fiber wall plugs provided.

If the appliance is to be mounted on a dry lined wall or a timber framed construction wall then special cavity screw fixings will be required which are not supplied with this product. These should be constructed from metal and not plastic.

If a concealed gas connection is to be made ensure the gas supply pipe is in it's final position and can enter the appliance in the correct position when the appliance is hung on the wall.

Insert the wall mounting screws into the top wall plugs, taking care to leave the screws protruding approximately 3/8” from the wall. Now hang the appliance onto these screws through the two keyhole shaped holes in the back panel of the appliance.

Insert the lower mounting screws into the lower wall plugs through the corresponding depressed holes in the lower part of the back panel. Do not tighten fully.

Before tightening the wall mounting screws fully, at this stage it is recommended to check the horizontal alignment of the appliance with a spirit level, as small adjustments can still be made if necessary. When this has been checked, tighten all four fixing screws fully.

To access the upper fixing screws insert a screwdriver through the holes in the deflector plates above the catalyst as shown in figure 3.

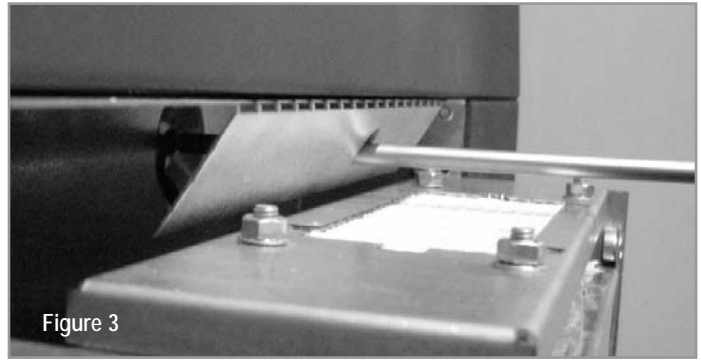


Figure 3

10.0 CHECKING THE BURNER

There are no imitation fuel bed components to install. The appliance features a ribbon burner which is designed to produce a continuous band of flame over its length. The burner should be visually inspected to ensure it is free from any foreign matter. If it is necessary to clean or dust off the burner then the glass door should be removed by removal of the four retaining screws. Re-fit the glass door after cleaning or inspection, ensuring a good seal.

11.0 CONNECTING A GAS LINE

IMPORTANT

HOLD HEATER REGULATOR WITH A WRENCH TO PREVENT MOVEMENT WHEN CONNECTING TO INLET PIPING.

A qualified gas appliance installer must connect the gas room heater to the gas supply. Consult all local codes. The installer must provide an ANSI approved manual shut off valve, flex connector and 3/8” NPT fitting.

Route gas line using techniques and materials prescribed by local and/or national codes. Only use pipe of 1/2” or greater size to allow full gas volume to the gas fireplace. Undue pressure loss will occur if the pipe is too small. An ANSI approved manual shut-off valve and union must be installed upstream of the heater within the fireplace cavity when rigid pipe is used. Ensure that a sediment trap is installed upstream of the heater (figure 4) within the structure’s piping system to prevent moisture and contaminants from passing through the pipe to the heater controls and burner. Failure to do so could prevent the heater from operating reliably. The heater gas inlet connection is 3/8” NPT at the regulator, located below the burner, in the right hand side of the heater. When tightening up the joint to the regulator hold the regulator securely with a wrench to prevent the regulator from moving.

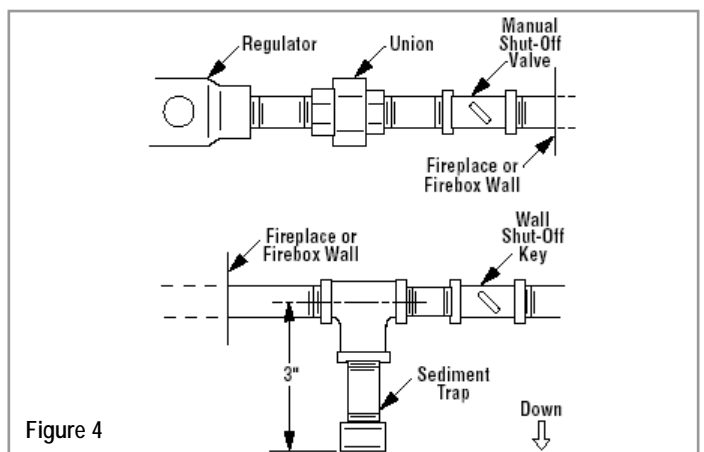


Figure 4

Turn on gas supply and test for gas leaks using a gas leak test solution (also referred to as bubble leak solution).

NOTE: using a soapy water solution (50% dish soap, 50% water) is an effective leak test solution, but it is not recommended, because the soap residue that is left on the pipes/fittings can result in corrosion over time.

A. Light the appliance (refer to the lighting instructions label in the control compartment or on page 11).

B. Brush all joints and connections with the gas leak test solution to check for leaks. If bubbles are formed, or gas odor is detected, turn the gas control knob (off/pilot/on) to the "OFF" position. Either tighten or refasten the leaking connection, then retest as described above.

C. When the gas lines are tested and leak free, be sure to rinse off the leak testing solution.

D. Observe the individual tongues of flame on the burner. Make sure all ports are open and producing flame evenly across the burner. If any ports are blocked, or partially blocked, clean out the ports.

The pressure should be checked with the gas heater burning and the

The pressure test points are located as shown in figure 7. An alternative burner (mainfold test point is located below the left hand side of the burner as shown in figure 8.

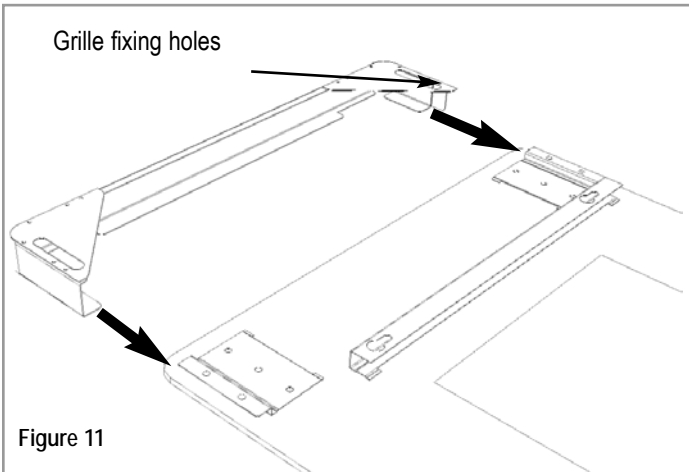
The pressure regulator on manual models is preset and locked to avoid tampering. If the pressure is not as specified in the Appliance Data section on page 2, replace the regulator with P/N H6063. Replace the test point screws after pressure measurement ensuring no gas leaks. All instructions must be handed to the user for safekeeping.

The gap between the spark electrode and the pilot should be 1/8" to 3/16" to produce a good spark. There should be no need to adjust this. If under any circumstances the piezo electric spark fails, the pilot cannot be lit manually.

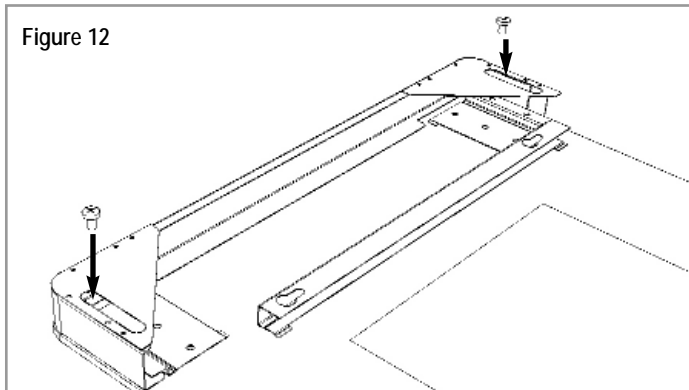
1. Remove the glass panel from all packaging and lay face down on a soft surface. Identify the top and bottom of the glass facia by observing the orientation of the keyhole shaped slots in the facia fixing brackets as shown in figure 10.

15.0 ASSEMBLY OF THE GLASS FACIA - (continued)

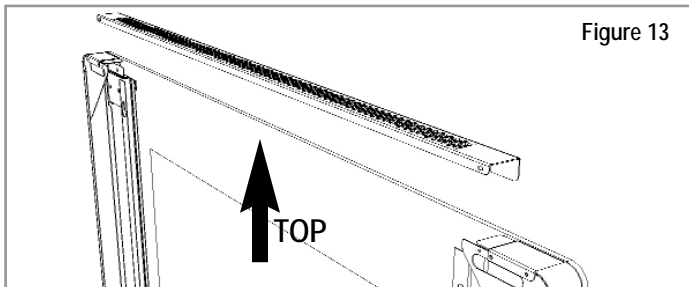
2. Slide on the side pieces ensuring that the grille fixing holes (shown) are aligned towards the top of the glass facia (as shown in figure 11).



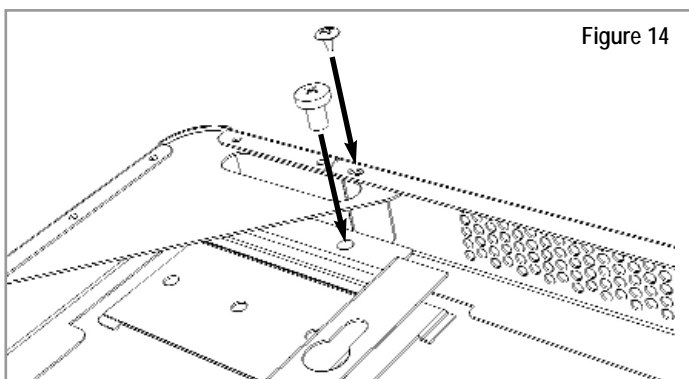
3. Ensure the sides are neatly aligned with the glass and secure the sides using two M6 screws for each side as shown in figure 12. Do not overtighten the screws.



4. Position the grille within the two side pieces ensuring a neat fit.

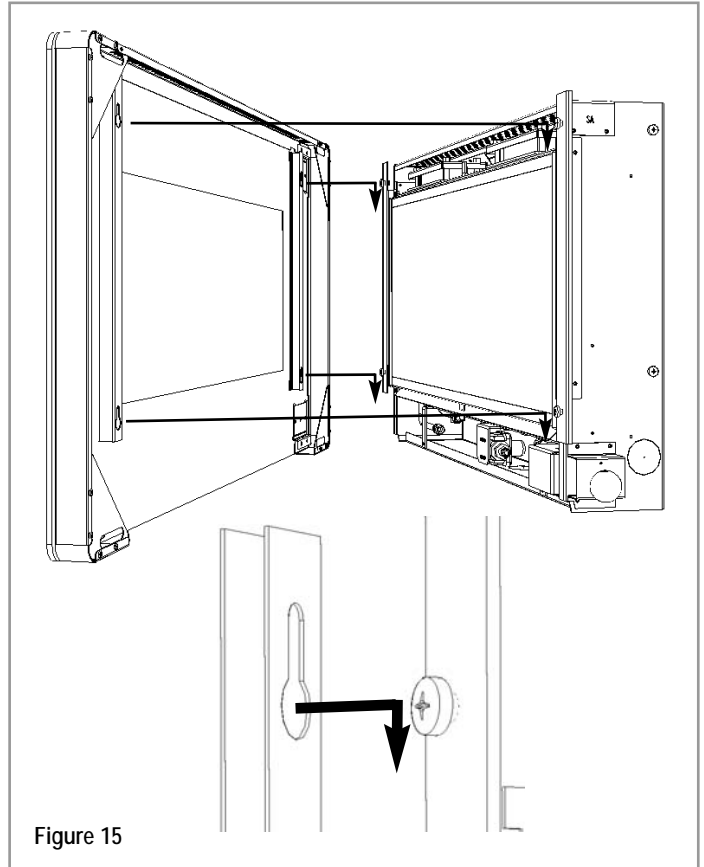


5. Secure the grille in position using two M6 screws and two no. 8 self tapping screws as shown in figure 14.



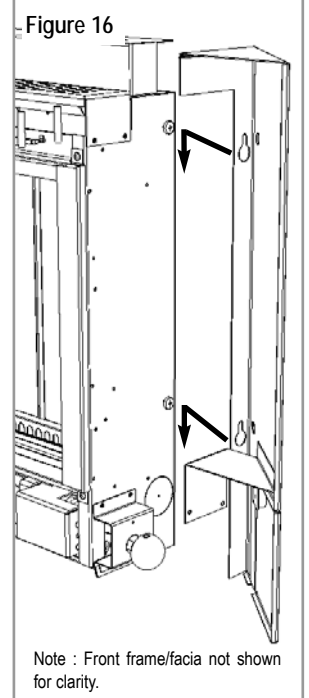
16.0 FITTING THE GLASS FACIA

The glass facia panel is supported by four M6 screws which protrude from the front of the outer casing. Insert the M6 retaining screws and ensure they are unscrewed approximately 1/8" so the keyhole shaped holes may engage, and the facia can be hooked on. Ensuring that the corresponding keyhole shaped holes engage the screwheads fully. Refer to figure 15.



17.0 FITTING THE SIDE PANELS

Remove the two side panel assemblies from the protective packaging and fit onto the sides of the firebox as shown. Insert the M6 retaining screws in the sides of the firebox and ensure they are unscrewed approximately 1/8" so the keyhole shaped holes may engage, and the sides can be hooked on.



17.0 FITTING THE SIDE PANELS (continued)

Insert a screwdriver through the holes in the right hand side panel to access the two M6 fixing screws (designated 'a' in figure 17) and tighten fully. Next insert two no.8 self tapping screws (designated 'b' in figure 17) through the side panel support bracket, and the corresponding holes in the side of the firebox. Tighten fully.

Repeat for the left hand side panel, which is secured by tightening the M6 'a' screws only.

The right-hand side panel has a hinged flap to allow access to the control knob.

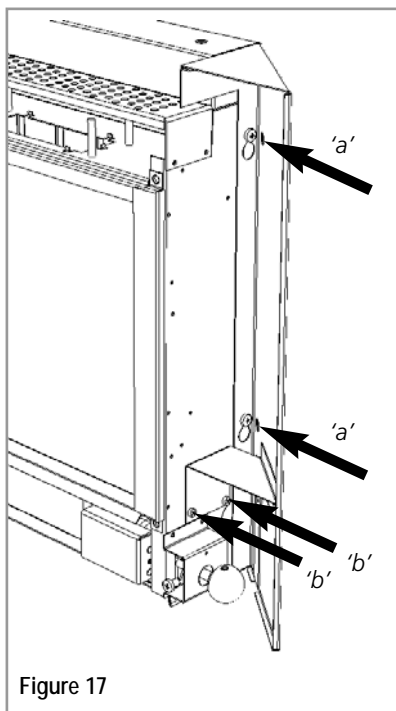


Figure 17

18.0 BRIEFING THE CUSTOMER

DO NOT ADD LOGS OR ORNAMENTS SUCH AS PINE CONES, VERMICULITE OR ROCK WOOL. USING THESE ADDED ITEMS CAN CAUSE SOOTING.

After commissioning the appliance, the customer should be instructed on the safe use of the appliance and the need for regular servicing. Frequency of service depends on usage, but MUST be carried out at least once annually.

Advise that cleaning of the fireplace may be achieved when the fireplace is cold using a damp cloth and mild detergent on most surfaces.

Advise that the fireplace will emit an odor for a time after initial commissioning and that extra ventilation may be needed during this time. A periodic visual check of the pilot flame and the burner flame should be carried out. (Refer to figure 22).

19.0 SERVICING

A suggested procedure for servicing is detailed as follows;

Turn off the fireplace at the the gas supply. Ensure that the fireplace is fully cold before attempting service.

1. Lay out the dustsheet and tools.
2. Remove the front glass facia as described in section 16.0, only in reverse.
3. Remove the glass door assembly (5 screws) and clean carefully. Remove the valve cover plate (4 screws).

4. Inspect the burner and the catalysts and clean if necessary with a soft brush.
5. Disconnect the gas supply.
6. Undo the four screws retaining the burner support brackets to the base and rear of the firebox.
7. Remove the burner unit, strip off the burner pipes and clean thoroughly.
8. Clean the in-line restrictor, pilot assembly and the burner tube. Do not attempt to remove the pilot injector as this can cause damage.
9. Re-assemble components.
10. Turn on the gas supply and leak test. Check pilot and burner for good ignition.
11. Refit the valve cover and retaining screws.
12. Refit the glass door assembly.
13. Refit the facia Refitting as described in section 15.0.
14. Check the purpose provided ventilation is unobstructed.
15. Light the fire and test setting pressures.
16. Check safe operation of the appliance.

For specific servicing instructions, see relevant sections.

20.0 SERVICING THE BURNER

First, remove the front Glass facia as described in Section 16.0 only in reverse, remove the valve cover (4 screws) and disconnect the gas connection inside appliance. The gas connections to the gas valve can now be released. Undo the four screws retaining the burner brackets to the base and rear of the firebox. The burner may now be removed.

Remove the pilot and main burner pipes and blow through to dislodge any debris. Now remove the in line restrictor and blow through to make sure it is entirely clear.

Unclip the pilot lint gauze and clean with a soft brush. Clean the exterior of the pilot assembly with a soft brush and blow through the flame ports on the pilot head. Check the aeration holes are free from lint or dirt. The pilot assembly can be removed if required by disconnecting the electrode HT lead, gas pipe, thermocouple lead and unscrewing the mounting screws and lifting away. The pilot assembly is a non-serviceable item and should not be taken apart. Aeration holes must be absolutely clear internally for proper operation. NEVER MODIFY OR BEND THE THERMOCOUPLE TO MAKE THE PILOT STAY ALIGHT. Modifications are dangerous and can have serious unseen effects on safety. If the pilot will not stay lit there is a problem with dirt, the gas supply to it, or the thermocouple needs replacement.

The gas valve is a non-serviceable item. If this needs replacement, remove the cover plate then the securing screw holding the valve bracket in place, remove all pipe unions, and the complete valve. Replacement must be original manufacturers parts.

Re-assemble in the reverse of removal. Ensure setting pressures are as stated in Section 3; Appliance Data.

21.0 PILOT ASSEMBLY



WARNING

NO ADJUSTMENTS ARE TO BE MADE TO THE ODS PILOT SYSTEM. TAMPERING WITH THIS SYSTEM CAN BE EXTREMELY HAZARDOUS.

Remove the glass facia, glass panel and burner unit (as per servicing section), lint arrestor and pilot unit by using a screwdriver to remove the retaining screws. Clean the pilot assembly with a soft brush and blow through. Check the aeration holes are free of any dirt or lint. Clean thoroughly internally, the connection can be removed from the base of the pilot unit using two spanners to make cleaning easier. Do not damage or try to dismantle the pilot injector. The unit is factory set and the only check necessary is to ensure the spark gap is correct. See specifications for gas setting.

NEVER MODIFY OR BEND THE THERMOCOUPLE TO MAKE THE PILOT STAY ALIGHT. If the pilot will not stay lit there is a problem with dirt, the gas supply, or the thermocouple needs replacement. Modifications are dangerous and can have a serious unseen effect on safety and therefore MUST not be done. Replacements must be original manufacturers parts. Re-assemble in the reverse of removal. Ensure setting pressures are as stated in Section 3; Appliance Data. It is recommended that the catalysts are inspected for signs of damage and dirt during routine servicing procedures. The expected life of the

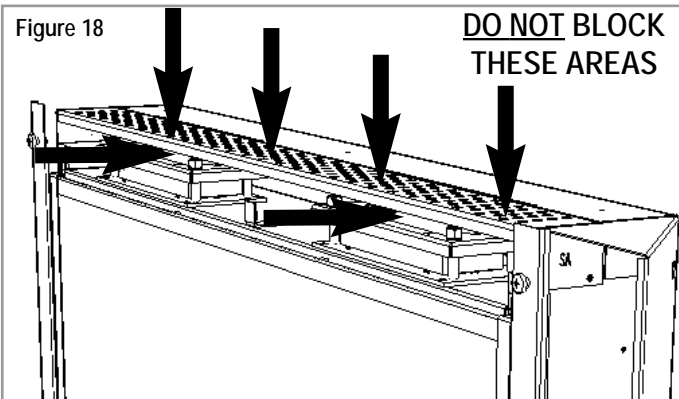
22.0 CATALYSTS



WARNING

DO NOT BLOCK THE CATALYSTS OR THE APPLIANCE OUTLET GRILLE. BLOCKAGE MAY CAUSE HIGH CARBON MONOXIDE LEVELS AND/OR BREAKAGE OF THE GLASS FACIA PANEL.

Figure 18



WARNING

DO NOT OPERATE THE APPLIANCE WITH THE CATALYST UNITS REMOVED.

catalysts is in excess of 11,000 hours (10 years of normal use). After this time the catalyst should be replaced. If there are any deposits of dirt or soot on the catalysts they should be cleaned with a soft brush and a vacuum cleaner. If removed for cleaning ensure the seals are in good condition before replacing the catalyst. New seals will usually be required.

The performance of the catalyst may be checked using a combustion gas analyzer as follows. *Important: The temperature of the gases*

emitted by the catalytic converters is in excess of 700 °F. Measuring gas of this temperature may damage some types of gas analyzers. If in doubt consult the equipment manufacturer.

Turn on the fireplace as per the operating instructions, and run at maximum setting for 15 minutes. Position gas sample probe directly over a catalyst via the outlet grille, on top of the appliance. Record the carbon dioxide (CO₂) concentration and then the carbon monoxide (CO) concentration as displayed by the analyzer - also noting the units in which the values are expressed. Most analyzers display carbon dioxide (CO₂) concentrations in percentage (%) terms and carbon monoxide concentration in parts per million (ppm) terms.

In order to calculate the combustion ratio for the appliance (CO/CO₂) it is first necessary to express both gas concentrations in terms of percentage. To convert from parts per million (ppm) to a percentage (%) divide the ppm figure by 10,000. Examples : 35ppm = 0.0035%, 15ppm = 0.0015%, 5ppm = 0.0005%.

Now divide the concentration of carbon monoxide (CO) expressed in percent by the concentration of carbon dioxide (CO₂) to obtain the appliance combustion ratio.

$$\frac{\text{CO} (\%)}{\text{CO}_2 (\%)} = \text{ratio}$$

The combustion ratio of the gasses emitted by the catalytic convertor should not exceed 0.0015. If replacing, firstly, remove the glass facia as described in section 15.0. The catalysts are located on the top of the internal firebox and can be removed by unscrewing the retaining nuts securing the clamping plate. Remove the catalysts and seals and discard. Refit a new catalysts and seals in reverse order, ensure the catalysts and door have good seals.

23.0 TESTING FOR FIREBOX LEAKAGE

Appliances that are several years old or have been extensively dismantled should be checked for soundness. It is important that all the products of combustion pass through the catalytic converters at the top of the firebox before leaving the appliance.

The firebox is heated by lighting for a few minutes to provide a flow through the firebox. The burner is then shut off and a smoke pellet or match introduced at the base of the fire underneath the burner tray. Large quantities of smoke will emerge from the top of the appliance, but none should emerge from the joints or gasket faces, especially around the door. It is important to note that the appliance can never be expected to be 100% smoke tight and small quantities of smoke may be seen in corners of joints and gasket faces etc without affecting safety when the fire is in operation.

24.0 CLEANING



WARNING

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

GLASS PANEL -This can be cleaned with a suitable glass cleaner. The following solutions are approved for use to clean glass.

- Non-ammonia based household cleaner
- 50% -50% mix of white vinegar and water
- Gas fireplace/stove glass cleaner

Test on a small area first.

PAINTED AREAS - These can be cleaned using a dry cloth.

FINISHED METAL AREAS - These can either be cleaned using a proprietary metal cleaner or baby oil. Test on a small hidden part before cleaning. Always clean in the direction of the grain.








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

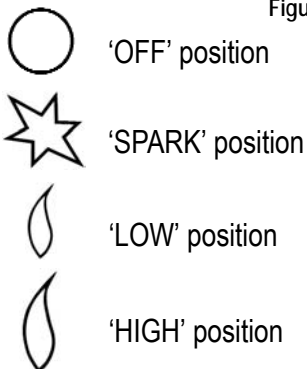
25.0 LIGHTING INSTRUCTIONS

1. Stop! Read the safety information above.
 2. Make sure manual shut-off valve is fully open.
 3. Open the access panel.
 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 the safety instructions in "What to do if you smell gas" under section 'B' above. If you do not smell gas, go to next step.
 6. The pilot is located on the left side behind the burner (Figure 20).
 7. Depress control knob in and turn counterclockwise  to the "SPARK" position (Figure 19) and hold there for a few seconds.
 8. Continue turning counterclockwise  through the spark click to the PILOT light position, ensuring the pilot has lit. If not, turn the knob fully clockwise, and repeat.
 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. Close the control access panel.
 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 or after an extended period of non use 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.*
- 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 "SPARK" and ignite the heater again. If your pilot does not relight depress and turn control knob clockwise  to "OFF" and call your service technician or gas supplier.

26.0 TO TURN OFF GAS TO APPLIANCE

1. Open the control access panel.
2. Depress and turn control knob clockwise  to the "OFF" position (Figure 19). Close the control access panel.

Figure 19



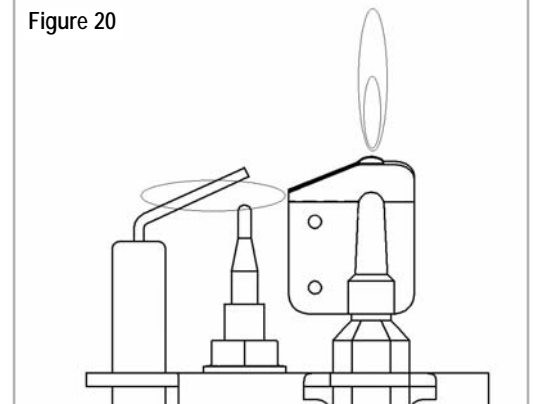
The control knob is located on the lower right hand side of the outer case. It is of a spherical design and is marked as shown in figure 19



Figure 20: Pilot unit. This is located behind the burner, on the left-hand side of the appliance.



Figure 20



27.0 TROUBLESHOOTING GUIDE

<i>Fire sparks but pilot does not light</i>	No gas to Pilot, check the gas line connections. Air not fully purged, repurge supply or wait longer. Spark grounding to metal work, reset gap correctly. Blocked pilot, clean out internally.
<i>Pilot lights but then goes out</i>	Severe restriction in gas supply: clear obstruction. Faulty thermocouple, replace pilot unit. Blocked pilot, clean out. Blocked lint gauze, clean. Hold control knob in for longer. Check control knob does not foul data plate. If the pilot will not stay lit there is a problem with dirt, the gas supply, or the thermocouple needs replacement. Modifications are dangerous and can have a serious unseen effect on safety. NEVER MODIFY OR BEND THE THERMOCOUPLE TO MAKE THE PILOT STAY LIT.
<i>Fire does not spark at pilot</i>	HT lead detached, refit. Check the spark gap (see section 14.0). Faulty piezo unit, replace. Debris shorting out electrode, clean. Spark shorting to metalwork under tray, realign HT lead.
<i>Fire runs for a time and then cuts off</i>	Loose or faulty thermocouple, rectify. Blocked pilot, clean out. Dirt or lint in pilot aeration hole or on the lint gauze, clean thoroughly. If the pilot will not stay lit there is a problem with dirt, the gas supply, or the thermocouple needs replacement. Modifications are dangerous and can have a serious unseen effect on safety. NEVER MODIFY OR BEND THE THERMOCOUPLE TO MAKE THE PILOT STAY LIT.
<i>Pilot flame shrinks when fire is on high</i>	Poor gas flow to fire, check pressure with fire on high. If pressure is low, remove any restriction in pipework or valve. Check all pipework is adequately sized. Check meter pressure is adequate. If the pilot will not stay lit there is a problem with dirt, the gas supply, or the thermocouple needs replacement. Modifications are dangerous and can have a serious unseen effect on safety. NEVER MODIFY OR BEND THE THERMOCOUPLE TO MAKE THE PILOT STAY LIT.
<i>Fire smells when first lit or in use</i>	Newness smell from brand new appliance. Leakage occurring. Carry out leakage test and rectify any problems. Combustible materials used in incorrect positions. Unit may require a service to remove dust from catalysts.

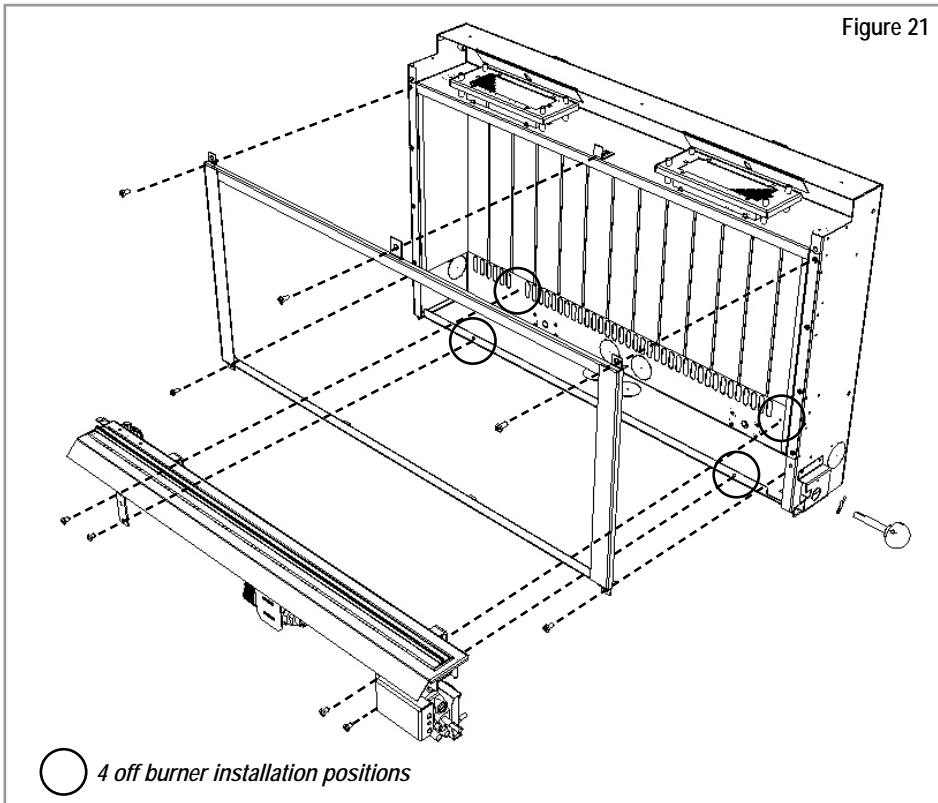
28.0 REPLACEMENT PARTS

Description	Catalog No.	If you encounter any problems, require spare parts, or have any questions concerning the installation of the heater please contact your distributor. For the name of your nearest distributor contact:
Glass door assembly	H6055	LENNOX HEARTH PRODUCTS 1110 West Taft Avenue Orange, CA 92865 Phone: 1-800-9-Lennox visit us at www.Lennox.com
Gas valve	H6059	
Catalyst	H6060	
Pilot assembly	H6061	
Burner assembly	H6056	
Catalyst seal kit	H6062	
Inlet pressure regulator	H6063	
Decorative glass facia	H6068	

When ordering spare 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.

29.0 POSITIONING OF FIELD REMOVABLE PARTS



⚠ WARNING
FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THESE DIAGRAMS OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED WITH THIS HEATER MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

Figure 21: Removal and refitting of glass door assembly and burner assembly.

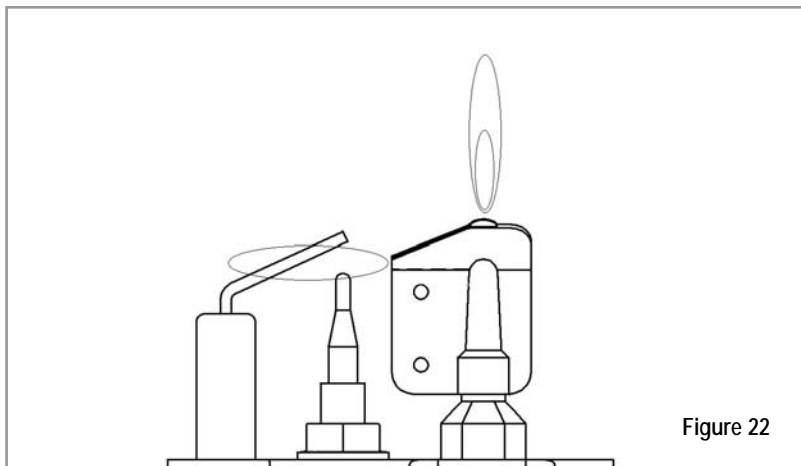


Figure 22 : Visual check for correct pilot flame.

Lennox Hearth Products Gas Fireplaces, Stoves and Inserts

20 Year Limited Warranty

THE WARRANTY

Lennox Hearth Products ("LHP") warrants your gas fireplace, appliance, stove or insert ("Product") to be free from defects in materials and workmanship at the time of manufacture. After installation, if any of the components manufactured by LHP in the Product are found to be defective in materials or workmanship during the twenty year warranty period and while the Product remains at the site of the original installation, LHP will, at its option, replace or repair the defective components. LHP will also pay for reasonable labor costs incurred in replacing or repairing such components for a period of one year from the date of installation. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Warranty as described herein.

EXCLUSIONS AND LIMITATIONS

This Limited Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices. If repair or replacement is not commercially practical, LHP will, at its option, refund the purchase price of the LHP Product.

The firebox and enclosure are warranted for twenty (20) years from the date of installation as follows: First year - parts at no charge and reasonable labor charges. Second through fifth year - parts only at no charge. Sixth through twentieth year - parts only at 50% of the then current list price. Vent components, brass components, paint, optional accessories and optional glass doors are excluded from this Limited Warranty. A separate limited warranty is available from LHP for optional glass doors manufactured by LHP. The following components are NOT warranted for 20 years but are warranted as follows:

Controls - repair or replacement for one year from the date of installation.

Burner - repair or replacement for one year from the date of installation.

Glass Components - repair or replacement for one year from the date of installation. Ceramic glass is warranted against thermal breakage only for a period of two years from date of installation.

Gaskets - repair or replacement for one year from the date of installation.

Logs - repair or replacement for one year from the date of installation.

Catalyst - two years parts and labor, 3-5th year, parts only from the date of installation.

We will not be responsible for: (a) damages caused by accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subject to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and will result in a fire hazard); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

This Limited Warranty covers only parts and labor as provided herein. In no case shall LHP be responsible for materials, components or construction which are not manufactured or supplied by LHP 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 LHP factory.

LIMITATION ON LIABILITY

It is expressly agreed and understood that LHP'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 herein. In no event shall LHP be liable for any incidental or consequential damages caused by defects in the Products, whether such damage occurs or is discovered before or after replacement or repair, and whether such damage is caused by LHP's negligence. LHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

We make no express warranties except as stated in this Limited Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Warranty or to create for us any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

INVESTIGATION OF CLAIMS AGAINST WARRANTY

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

LHP NOT RESPONSIBLE FOR WORK DONE WITHOUT WRITTEN CONSENT

To receive the benefits and advantages described in this Limited Warranty, the appliance must be installed and repaired by a licensed contractor approved by LHP. Contact LHP at the address provided herein to obtain a listing of approved dealers. LHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining LHP's prior written consent.

HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this Warranty to be valid, LHP must be notified of the claimed defect in writing as soon as reasonably possible after the defect is discovered. Notices should be directed to LHP, attention Customer Service Department, 1110 West Taft Avenue, Orange, CA 92865. Claims in writing should include the date of installation and a description of the defect.

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE

Lennox 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 dealer or distributor for fireplace code information.

LENNOX HEARTH PRODUCTS
P/N 850,054M REV. NC 04/2007



LENNOX
HEARTH PRODUCTS

1110 West Taft Avenue • Orange, CA 92865