VERINE

Magma

Gas Fired Convector

MODEL NUMBERS: NGFL00MN & NGFL00MP

INSTALLATION, USER AND SERVICING INSTRUCTIONS

THESE INSTRUCTIONS MUST REMAIN WITH THE USER

CE **0087**

THIS APPLIANCE MEETS THE REQUIREMENTS OF THE EUROPEAN GAS DIRECTIVE

BEFORE INSTALLATION, CHECK THAT THE LOCAL DISTRIBUTION CONDITIONS, NATURE OF GAS & PRESSURE AND ADJUSTMENT OF THE APPLIANCE ARE COMPATIBLE.

The efficiency of this appliance was measured as specified in BS EN 613 : 2001 during the certification testing by Technigas. Using the net calorific value of the fuels the results were 71.33% for the natural gas model and 70.15% for the LPG model. These efficiency values may be used in the UK Government's Standard Assessment Procedure (SAP) for the energy rating of dwellings.

Model No. NGFL00MN for use with natural gas (G20) at a supply pressure of 20mbar.

Model No. NGFL00MP for use with propane (G31) at a supply pressure of 37mbar.

Both models are suitable for installation within the United Kingdom and Eire.

Contents

Important Notes – Please read before undertaking the installation

1. This is not a “Do it yourself” product and it must be installed by a competent person.
2. The chimney must be swept before the appliance is fitted.
3. The Installation Instructions must be adhered to without exception.
4. This product uses decorative fuel shapes e.g. coals, pebbles, etc. The manufacture of these items uses vitreous silicate fibres, fibrous glass and mineral wool. Temporary irritation to eyes, skin & respiratory tract may occur when handling the fuel shapes, consequently care should be taken

Useful tips & recommendations

Once your appliance has been fitted, the following recommendations are made to ensure you enjoy the best results from your purchase;

1 The installation of this appliance must have been carried out by a qualified installer and in accordance with all local laws and regulations.

2 The chimney must be swept before the appliance is installed and checked annually to ensure continued clearance of combustion products and that there is no excessive build-up of soot.

3 The glass door and the upper part of the decorative frame are considered to be working surfaces and as such will become hot when in use. Care should be exercised when using the controls of the appliance when it is hot. We also recommend that a fireguard be fitted for the protection of young children, the elderly or infirm.

4 When new any ceramic components may produce a slight odour, but this will completely vanish after a few hours of use.

5 The appliance **MUST NOT** be used with the door open or with the glass panel removed. If there is any suspicion of damage to the glass the appliance must not be used.

6 Check periodically that any purpose-made ventilation is free from obstruction.

7 To obtain the best results from your fire we recommend that it be serviced annually.

8 These instructions are provided to assist you to operate the fire correctly and should be kept in a safe place.

9 If you have any reason to suspect a gas leak, turn off the appliance at the isolating point and contact your installer.

10 This appliance is fitted with a flue blockage device that will shut off the appliance in the event of abnormal flue conditions. If this device repeatedly shuts off the appliance your installer should be informed and the cause rectified. This device is NOT a substitute for an independently mounted carbon monoxide detector.

11 Curtains should not be hung above the appliance.

Operation of the fire

1 It should be noted that your fire is fitted with a Flame Supervision Device, which cuts off the gas supply to your fire if, for any reason the pilot light is extinguished. The pilot flame heats the thermocouple probe and allows gas to flow to the burners. If due to pilot failure, the thermocouple cools, no gas will flow to the main burner. If the fire is turned off or the flames go out, wait for **AT LEAST 3 MINUTES** before attempting to relight the fire.

2 The power supply to the appliance should be left on at all times as the appliance is fitted with a fan to increase the circulation of convected air. The fan has two speed settings which are controlled by a switch located beside the gas control. The centre switch position is off, the lowest position is slow and the upper position is fast. The fan may be run at whatever speed the user finds most appropriate. If the fire is to be used with the circulation fan turned off the control knob should be set to MIN to avoid the appliance overheating. Running the appliance at MAX with the fan turned off may result in the flue overheat switch turning the fire out.

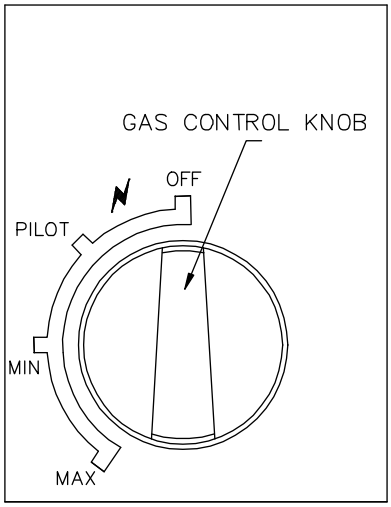


FIGURE 1

L<u>ighting the Appliance</u> (See Figure 1)

1 Open the louvered door at the base of the appliance under the glass door by pulling on the top edge at the sides.

2 Push in and turn the control knob anti-clockwise to the PILOT position.

3 Hold the knob in for several seconds to purge any air from the system.

4 With the knob still depressed turn it from the "OFF" position to the "PILOT" position until the pilot light ignites Continue to depress the control knob for a further 10-15 seconds. Release the control knob, the pilot should stay alight. If the pilot flame goes out, repeat the process, holding down the control knob for a slightly longer period.

5 Depress the control knob slightly and turn anti-clockwise to the MAX position. The main burner should now light.

6 Turn the control knob clockwise to the MIN position. The flames will get lower but the main burner should remain alight.

7 Depress the control knob slightly and turn clockwise to the PILOT position. The main burner should go out but the pilot flame should remain alight.

8 Depress the control knob slightly and turn clockwise to the OFF position. The pilot flame should go out.

IMPORTANT:

After turning OFF, or if the pilot burner or main burner go out for any reason, wait 3 minutes before attempting to relight.

<u>Turning the fire off.</u>

1. Slightly depress the control knob and turn clockwise to the "**PILOT**" position. The main burner will go out but the pilot will remain alight.

2. Depress the control knob and turn clockwise to "**OFF**". The fire is now turned off completely.

Cleaning the fire

Ensure that the appliance is cool. Regular dusting with a dry cloth is usually all that is necessary to keep your fire looking at its best. From time to time it may be necessary to clean the steel surface with a slightly damp cloth - do this while the fire is cool and ensure that no water remains on the appliance surface.

Glass.

Let the fire and glass cool completely. Only the outside of the glass can be cleaned by the user. Wash the glass with warm water, using a soft paper towel or cloth, rinse and dry thoroughly. Never use abrasive or harsh chemicals to clean the glass.

For stubborn deposits use a cleaner available from your dealer. Do not allow the cleaner to touch any brass ornamentation.

1 Ensure that the fire is cold before undertaking any cleaning. Remember that heat is retained for some time after the fire is switched off. In normal use your fire requires only minimal cleaning. Some soot may form on any ceramic pieces placed in the flames but this is generally harmless unless an excessive amount is deposited.

2 If large pieces of debris are found in the fire, sufficient to alter the appearance or operation of the appliance, the chimney / flue should be inspected and the appliance serviced before further use.

3 In any event, the chimney should be checked annually to ensure continued clearance of the combustion products and that there is no excessive build-up of soot.

INSTALLATION GUIDE

Before fitting this appliance, ensure that the following components are enclosed

a) Gas Fired Convector complete with burner and controls.

b) Installation, Servicing & Users Instructions

c) 1 Packet of ceramic fibre flakes

c) Decorative frame and louvred bottom cover

e) Five Piece Log Set

f) 2 Support Brackets and fixing screws

APPLIANCE DATA

	NGFL00MN	NGFL00MP
GAS TYPE	NATURAL GAS	PROPANE
SUPPLY PRESSURE	20mb	37mb
HEAT INPUT	6.8kW Net	6.6kW Net
GAS RATE	0.72m/h	0.2m/h 512g/hr
INJECTOR SIZE	Ø 2.1 mm	Ø 1.35mm
GAS CONNECTION	8mm COMPRESSION	
ELECTRICAL	230V / 50Hz / 3A	
NOx Concentration	Class 5	

GENERAL INSTALLATION REQUIREMENTS

Fitting the Appliance

1 The law demands that all gas appliances are installed by a qualified installer in accordance with the current **GAS SAFETY (INSTALLATION AND USE) REGULATIONS.** The installation must comply with these installation instructions and all relevant parts of Local and National Building Standards (Scotland) (Consolidation) Regulations and those relevant recommendations of the following British Standards.

BS 5871: Part 1 BS 8303 BS 5440:Parts 1 & 2 BS 6891 BSEN1856 Parts 1 & 2

1b **Eire**; This appliance should be installed in accordance with the rules in force. The installation must be carried out by a Competent Person and installed in accordance with the current edition of I.S.813 'Domestic Gas Installations' and the current Building Regulations.

2 The 526 Convector can be fitted into fireplace openings which are large enough or can be altered to accept this appliance. The dimensions are shown in Figure 1. If the fireplace has to be altered a lintel will be required to support the masonry over the opening. The fireplace opening should be formed from or lined with non-combustible material and set within a wall with a non-combustible surface.

Note: The heat from this appliance will cause the wall directly above the appliance to become quite hot. If there is any concern about the integrity of the plaster or wall finish, we recommend that slips made from heat resistant material are fitted to cover the wall for at least 100mm above the top of the inner fascia panel. Any remedial plasterwork above the appliance should be allowed to thoroughly dry before lighting the appliance.

Premixed packet mortars should not be used as the inhibitors incorporated in these products can cause continual shrinkage after setting.

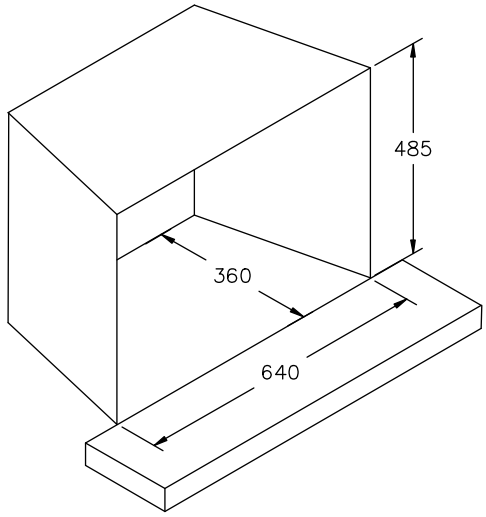


FIGURE 2

3 The installation must meet the requirements of the current IEE regulations.

4 **The Hearth** (Appliances in floor level fireplaces)

Where the appliance is fitted in a floor level builders opening, floor level fireplace recess or floor level flue box, the hearth shall:

a) Extend through the whole base of the builders opening, fireplace recess or beneath the flue box.

b) Project at least 300mm in front of any naked flame or incandescent part of the fire bed.

c) Project at least 150mm beyond each side of any naked flame or incandescent part of the fire bed, or if there is a non-combustible wall within 150mm of any naked flame or incandescent part of the fire bed, up to that wall.

d) Have a thickness of not less than 12mm and a minimum height of 50mm along its front and side edges.

Hole-In-The-Wall Installations

Where the appliance is installed in a hole-in-the-wall fireplace, a hearth as previously detailed for floor level fireplaces shall be fitted on the floor beneath the hole so as to protect combustible material from radiant heat.

a) If a hearth is not to be used, so as to maintain a minimal and contemporary styling, the appliance must be installed so that every part of any naked flame or incandescent part of the fire bed is at least 225mm vertically above any carpet or floor covering.

b) Where no hearth is to be fitted consideration should be given to fixing a tactile separator to protect young children, the elderly and the infirm. A tactile separator can be in the form of a fender, kerb, hearth, shelf or horizontal bar all made from non combustible material and fixed not less than 50mm & not more than 1000mm above the floor level. They should be positioned not less than 300mm in front of and 150mm beyond the edge of any naked flame or incandescent part of the fire bed.

5 **The Chimney Flue**

The following types of chimney or flues are acceptable:

a) A conventional open flue connected with a short length of 100mm diameter flue pipe and a register plate or lined with a flexible flue liner of at least 100mm diameter T250 rating.

b) A 100mm diameter (or larger) gas flue to EN1856-1, T250 rating.

The flue must have a minimum effective height of 3 metres.

No restrictor plate or flue damper is permitted. Where a variable damper is fitted, this must be removed.

c) A dedicated power flue kit is available for the appliance. The appropriate fitting instructions are supplied with the kit.

7 **Ventilation.**

Subject to a satisfactory spillage test, there is no requirement for purpose made ventilation with these models.

Eire only.

Reference should be made to the current edition of IS813 which makes clear the conditions that must be met to demonstrate that sufficient ventilation is available.

8 The appliance is designed for use with both natural gas and propane. The two gases require different burners that are not interchangeable between the different gas types.

9 The appliance must not be installed in a room containing a bath or shower or in a private garage.

10 **Shelf**

If a shelf made of combustible material is to be fixed to the wall above the appliance a space of at least 150mm must be left between the top of the fascia and the underside of the shelf.

Fitting the Firebox

1 Check that the fireplace is of the correct size or has been modified to accept the selected firebox. (See Figure 2)

2 It is recommended that, before proceeding further, a simple smoke test be performed to check the condition of the chimney. Light a smoke match or a twist of rolled paper, hold it under the open flue and observe the behaviour of the smoke. If it is being drawn into the chimney proceed with the installation. If not, pre-heat the chimney over the period of a few minutes and recheck. If there is any doubt about the soundness of the chimney a smoke pellet should be used after preheating the flue and if smoke still fails to clear, further investigation of the chimney is required and the appliance **MUST NOT** be fitted until any fault has been rectified.

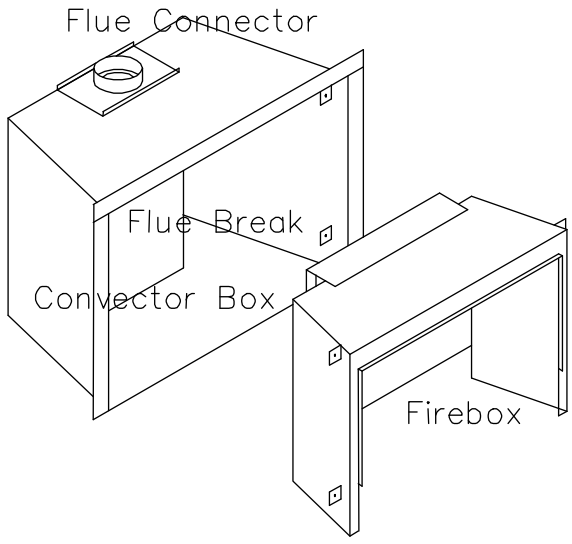


FIGURE 3

3 Clear the recess of any loose material and ensure that the base on which the appliance will stand is level.

4 Disassemble the appliance in order to separate the flue connector from the convector box so that it can be connected to the chimney.

a Remove the glass window by undoing the two nuts + two screws and lifting clear. Store in a safe place.

b Remove the screw at the bottom of the fascia and pull the burner forward. Remove the four screws holding the control fascia in position. Remove the screw holding the circulation fan switch plate to the gas control valve. Loosen the thermocouple nut and remove the connection wires from the flue temperature switch. Lift the burner assembly clear of the appliance.

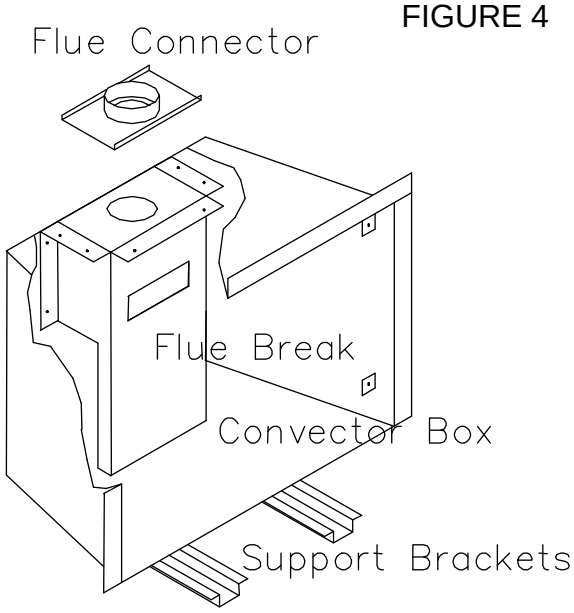
c Undo the four screws holding the firebox in the convector box and lift the firebox out of the convector box. See figure 3. As the firebox is lifted away disconnect the circulation fan lead from the wiring box by separating the 'Molex' connectors.

d Unscrew the ten self tapping screws securing the flue break assembly to the convector box and remove. See Figure 4.

e From inside the convector box loosen the four screws holding flue connector, slide it sideways and remove from the outside of the convector box.

5 Screw the two support brackets to the underside of the convector box.

FIGURE 4



6 Install the register plate and the connecting length of flue pipe or line the chimney with 100mm flexible flue liner. Connect and seal the lower end of the flue pipe or liner to the flue connector. Temporarily lodge the flue connector in position until the convector box is placed in position. Alternatively a gas flue can be used in which case the appropriate appliance connector will have to be selected.

7 The gas supply should be routed from the meter or cylinder to a point at the rear of the fireplace. This point should be on the centre line of the appliance and 35mm above the base on which the convector box will sit. Alternatively, provision has been made for the gas pipe to be brought into the right or left sides of the fire box. From this point route the supply in 8mm diameter tubing forward to the front of the fire opening. Exposed pipe within the fire opening should be wrapped, painted with bituminous paint or factory sheathed.

8 'Knock out' the gas entry hole in the rear of the convector box with a sharp hammer blow. Place a diaphragm grommet (supplied) in the hole and cut a slit for the gas supply pipe. Slide the convector box into position. Reach up through the flue aperture and draw the flue connector down into position. Pull the four screws previously loosened through the keyhole slots, slide sideways and tighten the four screws. Re-assemble the flue break assembly into the convector box with the ten self tapping screws previously removed. Make sure the convector box is pushed fully home and then fix the flanges to the wall with wall plugs and screws. Make sure the flue temperature switch sensor is still in position in its bracket.

9 Place the heat exchanger in position in front of the flue assembly within the convector box making sure that the flue spigot on the back of the firebox is inserted into the rectangular hole in the flue break. Re-connect the power supply to the fan using the molex connector. Fix into place with the four screws previously removed.

10 Temporarily place the burner and mark the gas pipe for cutting. Trim the gas supply pipe to the mark. The end of the supply tube should finish 10 mm above the base. Prior to connecting the burner to the gas supply it is advisable to blow out the pipe to clear any dirt that may be present and which could cause a blockage in the control valve or pilot.

11 Replace the connection from the flue temperature switch and tighten the thermocouple nut (Caution; do not over tighten). Replace the burner/control assembly in position and secure. Fix the switch box to the gas control valve with the M4 screw previously removed. Replace the fascia panel and secure with four black headed self tapping screws. Using the nut and olive provided, connect the 8mm supply pipe to the pressure test point fitting.

12 Make good the plasterwork (see note in "Fitting the Appliance – No. 2") or wall decoration up to the edges of the fire opening.

13 **Gas Soundness Check**

Once the gas supply is connected, all joints must be checked for gas soundness . Note: It is permissible to light the fire for short periods when the burner has not been filled with the loose infill.

ELECTRICAL CONNECTION TO MAINS SUPPLY

1 It is recommended that the electrical connection to the mains supply is made via a fused spur or an un-switched three-pin socket and plug. The supply **MUST BE FITTED WITH A 3A FUSE.**

2 The appliance is supplied with 2.5 metres of three-core mains cable pre- wired to the circulation fan and its speed control switch. This should be routed to the power point as inconspicuously as possible - i.e. chased into the plaster.

Filling the Burner.

Fill the burner tray level to the top using the ceramic fibre flakes provided making sure that the burner ports between the flame guides down the centre are left completely clear. Any flakes that are too large may be broken to fit.

Placing of the Refractory Logs.

Keep logs clear of the pilot flame to ensure good cross lighting.

Lay the logs a shown in Figures 5 and 6.

FIGURE 5

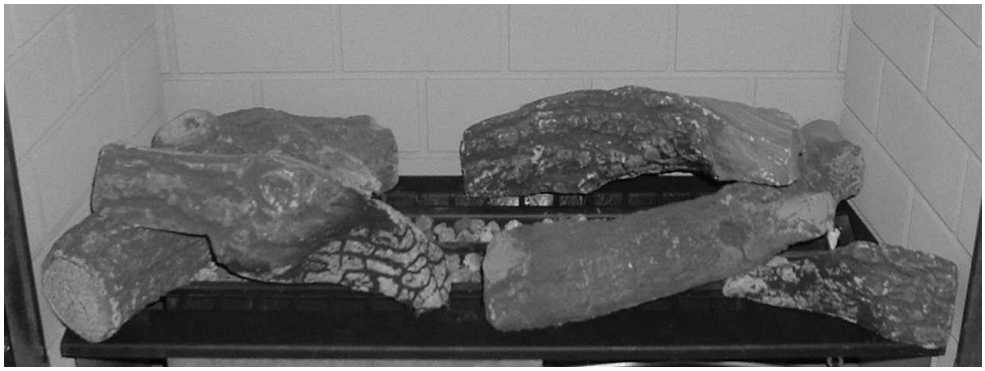


FIGURE 6

Closing the Glass Door.

Place the glass door in position over the studs on the heat exchanger making sure the joint in the rope seal lies along the lower edge. Secure in position with the 2 nuts and 2 screws. Tighten evenly.

Installing The Decorative Frame.

Hook the decorative frame over the supporting lugs within the convector box.

COMMISSIONING

WARNING.

This appliance is fitted with a spillage monitoring system consisting of a flue temperature switch. Should the chimney become blocked, the sensor will become hot, and the appliance will go out. The installer must not attempt to adjust this system, nor shall he put it out of operation. Should any part of this system need to be replaced, only original manufacturers parts shall be used.

Before attempting to light the appliance the gas supply must be turned on by removing the cap from the isolator fitting and unscrewing the plug all the way out. Replace the cap making sure that the tab engages with the slot in the top of the plug. Tighten the cap securely. Light the appliance in accordance with the instructions in the lighting section.

Briefing the User

1 Demonstrate the full operation of the appliance to the customer.

2 Inform the customer that all cleaning procedures should be carried out only when the appliance is cold.

3 Leave these instructions with the customer.

4 Advise the importance of having the appliance serviced and the chimney checked for clearance of combustion products on an annual basis.

SERVICE AND MAINTENANCE

BEFORE ANY SERVICING IS CARRIED OUT ISOLATE THE APPLIANCE FROM THE GAS SUPPLY. AFTER REFITTING THE APPLIANCE, CHECK FOR GAS SOUNDNESS AT ALL GAS JOINTS AND TEST FOR SPILLAGE.

This product may use fuel effect pieces containing Refractory Ceramic Fibre (RCF). This material contains man-made vitreous silicate fibres. Excessive exposure to these materials may cause temporary irritation to eyes, skin and respiratory tract; consequently, it makes sense to take care when handling these articles to ensure that the release of dust is kept to a minimum.

To ensure that the release of fibres from these RCF articles is kept to a minimum, during installation and servicing we recommend that a HEPA filtered vacuum cleaner is used to remove any dust accumulated in and around the appliance before and after working on the appliance. We recommend that any replaced items are not broken up, but are sealed within heavy duty polythene bags and clearly labelled as RCF waste. RCF waste is classed as a stable, non-reactive hazardous waste and may be disposed of at landfill sites licensed to accept such waste. Protective clothing is not required when handling these articles but we recommend that the normal hygiene rules are followed of not smoking, eating or drinking in the work area and that hands are washed before eating or drinking.

The appliance should be serviced at least once a year by a CORGI registered engineer. This is the basic procedure.

1 Unclip and lift away the decorative frame.

2 Unscrew the two nuts +two screws and remove the glass door.

3 The refractory logs should be taken off the fire and shaken to remove any debris but should only be cleaned if absolutely necessary. This should be done by gently brushing with a soft brush in a direction away from the person and any persons nearby. This operation should be performed outside facing downwind. A vacuum cleaner **must** not be used for this purpose.

4 The gas supply should have been turned off the isolation point. Disconnect the gas supply pipe from the pressure test point fitting. Remove the burner / control unit and lift it out of the firebox as described in the installation section.

5 Empty the ceramic flakes from the burner on to a clean surface and thoroughly clean the burner ports.

6 Operate the spark generator and observe that the spark is satisfactory.

7 Lay the control mount assembly on a flat surface and remove, clean and replace the main injector.

8 Any soot or debris should be removed from the flue ways and it should be inspected for soundness. To inspect the flue the main heat exchanger will have be removed as described in the installation section.

9 Refit the burner / control unit in position. Re-connect the gas supply. Refill the burner with the ceramic flakes making sure none is placed over the burner ports. Replace the refractory logs on the burner.

10 Replace the glass door and secure. Tighten the fastenings evenly.

AFTER REFITTING THE APPLIANCE CHECK FOR GAS SOUNDNESS AT ALL GAS JOINTS AND TEST FOR SPILLAGE.

12 Replace the decorative frame.

13 The service record sheet enclosed with these instructions should be complete to maintain the validity of the warranty.

Spare Parts List

In the event of a part requiring replacement the parts list is as follows

Part Description	**Part Number**
Gas Control Valve	104105
Flue Temperature Switch	OP 6039 / 104525
Oxypilot (NG models)	OP 9037 / 104506
Oxypilot (LPG models)	OP 9223 / 104513
Five Piece Log Set	UNEX 2844123 / 107230

Installation & Service Record

Please ensure that installer completes the installation record below

INSTALLATION RECORD
Appliance Supplied by: …….....
Installation Date: ……Serial No.: …….....
Installed By: ……..…...Reg. No.: ….……
Signed by Installer: ……..…

RECORD OF 1st SERVICE	**RECORD OF 2nd SERVICE**
Serviced by: ……. Reg. No.:…….....	Serviced by: ……. Reg. No.:…….....
Service Date: ……. Signed: …….....	Service Date: ……. Signed: …….....
Comments: ……	Comments: ……
……	……
……	……..
RECORD OF 3rd SERVICE	**RECORD OF 4th SERVICE**
Serviced by: ……. Reg. No.:…….....	Serviced by: ……. Reg. No.:…….....
Service Date: ……. Signed: …….....	Service Date: ……. Signed: …….....
Comments: ……	Comments: ……
……	……
……	……..
RECORD OF 5th SERVICE	**RECORD OF 6th SERVICE**
Serviced by: ……. Reg. No.:…….....	Serviced by: ……. Reg. No.:…….....
Service Date: ……. Signed: …….....	Service Date: ……. Signed: …….....
Comments: ……	Comments: ……
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……	……
RECORD OF 7th SERVICE	**RECORD OF 8th SERVICE**
Serviced by: ……. Reg. No.:…….....	Serviced by: ……. Reg. No.:…….....
Service Date: ……. Signed: …….....	Service Date: ……. Signed: …….....
Comments: ……	Comments: ……
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RECORD OF 9th SERVICE	**RECORD OF 10th SERVICE**
Serviced by: ……. Reg. No.:…….....	Serviced by: ……. Reg. No.:…….....
Service Date: ……. Signed: …….....	Service Date: ……. Signed: …….....
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Issue 1

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