

# INSTALLATION & USER INSTRUCTIONS

## FULL DEPTH INSET GAS FIRE



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### MODELS COVERED BY THESE INSTRUCTIONS

BLenheim 20" FULL DEPTH GAS FIRE F500056



BS7977-1 : 2009  
BS EN 509 : 2000  
KM579168



BLenheim 20"



**IN THE UK ALWAYS USE A GAS SAFE REGISTERED ENGINEER TO INSTALL, REPAIR OR SERVICE THIS APPLIANCE**

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**All instructions must be handed to the user for safekeeping.**

**Revision B - 02/12**

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## 1.0 IMPORTANT NOTES

- This appliance is an Inset Decorative Fuel Effect appliance which provides radiant warmth utilising the latest type burner technology.
- The fire is designed to suit various types of fireplaces and natural draught flues as detailed in this manual.
- The appliance must be installed by a competent person in accordance with Gas Safety (Installation and Use) Regulations 1998. It is strongly recommended that a GAS SAFE registered engineer be used for this purpose.
- Read all these instructions before commencing installation.
- This appliance must be installed in accordance with the rules in force and used only in a sufficiently ventilated space.
- The appliance is designed for installation on to a non-combustible hearth of at least 300mm depth.
- This appliance is factory set for operation on the gas type, and at the pressure stated on the appliance data plate.
- In the event of gas leakage from the appliance, the gas supply must be turned off at the nearest isolating valve.
- The appliance must be installed in accordance with the following:
  - Manufacturers' Instructions.
  - The Building Regulations issued by the Department for Communities and Local Government, the Building Standards (Scotland) (Consolidation) Regulations issued by the Scottish Development Department.
  - Relevant British Standards insofar as the relevant areas are not covered by these instructions.
  - For Republic of Ireland, reference should be made to the current edition of IS813 (the relevant standards governing installation).
- Failure to comply with the above could lead to prosecution and deem the manufacturer's warranty invalid.
- The appliance is designed to fit various types of situations as described in sections 3.0 and 4.0.
- 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, candle smoke etc.) exist, may cause the walls to become discoloured.
- **WARNING:** The manufacturer of this appliance considers all surfaces as working surfaces with the exception of the control knob and ash pan door. Where young children, pets, the elderly or infirm are concerned, a suitable fireguard should be used.
- Consult ALL instructions before installation and use of this appliance.
- This appliance is free from any asbestos material.
- Refractories and fuel bed are constructed from ceramic fibre.

## 2.0 APPLIANCE DATA

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Model	Destination Country	Cat	Operating Pressure (±2.0 mbar)				Max Energy Input (kW)		Min Energy Input (kW)	
			G20	G25	G30	G31	Gross	Net	Gross	Net
Natural gas										
All models	GB - IE	I <sub>2</sub> H	20	-	-	-	8.75	7.9	3.5	3.15

Please see Data Badge 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 Badge, and is for decorative purposes.

Specifications	All Models
Main burner injector	Stereo size 95
Oxypilot (Natural Gas Models)	SIT 9090
Gas Control (All Models)	Copreci 21400/342
Gas Inlet	8mm compression - Inlet restrictor elbow
Ignition	Double-action piezo Spark
Spark Gap	3.5 - 4.5mm
Flue specification	All models - 225mm x 225mm (9in x 9in) brick or stone. 175mm (7in) minimum diameter lined brick or stone. 175mm (7in) minimum diameter twin wall flue conforming to BS 715.

## 3.0 INSTALLATION REQUIREMENTS

This appliance **MUST NOT** be installed into a room containing a bath or shower, or where steam may be present. The fire has been designed to fit into a builders' opening or fireplace conforming to BS 1251 (and meeting certain dimensional requirements), or a suitable flue box complying with the constructional requirements of BS 715. The flue box must be installed onto a suitable non-combustible insulating surface at least 12mm thick, covering the entire base area of the box. The flue must have an effective height of at least three metres, as measured from the hearth to the top of the flue. Any flue damper plates or restrictors should be removed and no other restriction fitted to the flue. Where removal is not practical, the restriction must be fixed in the fully open position.

A natural draught flue system is required, and if previously used for solid fuel or oil burning, the flue and chimney must be swept prior to appliance installation. The flue must be checked before installation by using a smoke pellet or similar to ensure proper draw and that leakage is not evident at any joints. Repair and re-test as necessary before the appliance is installed. The flue must be connected to only one fireplace, and the flue must not vent more than one appliance (i.e. not shared with a gas back boiler). There must be no opening in the flue apart from the one that the appliance is installed into, and the one venting the gases into the air. A suitable terminal may be fitted, such as class GCI, as regulations allow.

These appliances have been tested for use with circular flues of a minimum internal diameter of 175mm. This appliance is suitable for use with a "lightweight" surround and back panel of 150°C minimum rating.

## 4.0 SITE REQUIREMENTS

The fireplace opening should be inspected and repairs made where necessary. Any chair brick or fireback may be left in situ, providing that the dimensional requirements for debris collection space and spigot clearances are met. See diagram below.

The opening **WIDTH** and **HEIGHT** dimensions should be between 470mm and 530mm wide, and 540mm (**see note below**) to 575mm high.

**Note: The spigot outlet of the fire is 565mm high, but should fit into the gather at the top of the fireplace as the appliance is fitted. Any modifications to the fireplace opening must be to a height of 565mm min.**

Opening **DEPTH** should be 200mm or greater for a clay/cement lined flue which is new, unused, or previously used only with a gas appliance. **DEPTH** should be 240mm or greater for a flue used for solid fuel or oil burning appliances. Opening **DEPTH**s include any plaster or infill panels which form part of the installation.

## 4.0 SITE REQUIREMENTS - CONTINUED

This appliance requires a natural draught flue system which may be one of the following;

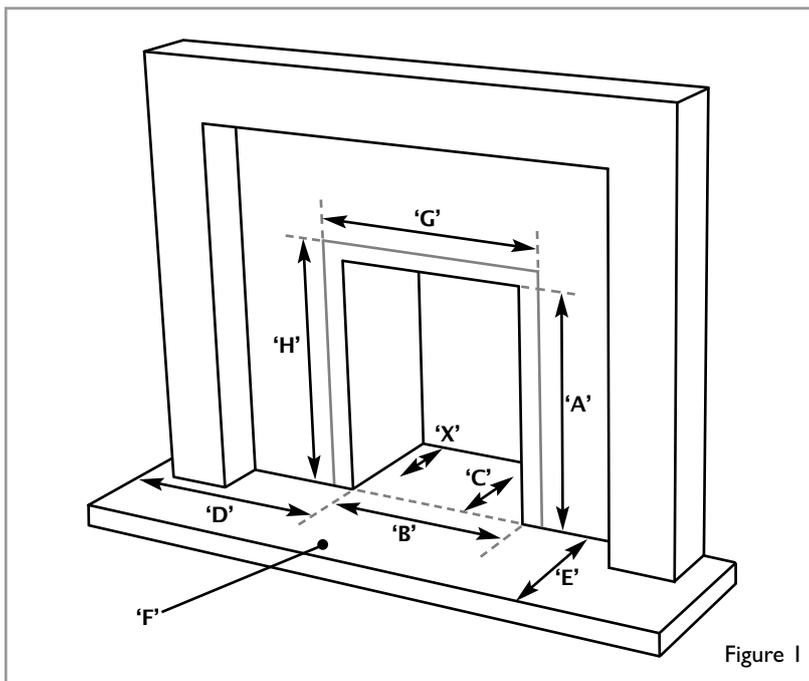
225mm x 225mm (9in x 9in) brick or stone.

175mm (7in) minimum diameter lined brick or stone.

175mm (7in) minimum diameter twin wall flue conforming to BS 715.

Any existing under grate draught device must be sealed off. The opening wall must be non-combustible.

Any existing under grate draught device must be sealed off. The opening wall must be non-combustible. The appliance requires a hearth with non-combustible surface of at least 12mm thick. The top surface must be at least 50mm above the surrounding floor level, or be surrounded by a raised edge or fender 50mm high.



- A. Opening height: 540mm min/575 mm max.
- B. Opening width: 470mm min/530mm max.
- C. Mounting depth: 180mm
- D. Hearth must extend minimum of 150mm either side of the opening.
- E. Hearth must extend minimum of 300mm in front of the opening.
- F. Non-combustible hearth must be a minimum of 50mm in height, or be surrounded by 50mm high fender.
- G. 550mm, this area must be flat and vertical to ensure a good seal.
- H. 585mm, this area must be flat and vertical to ensure a good seal.
- X. Debris collection space - See section 4.1 on following page.

To enable the products of combustion to be cleared properly up the flue, the outlet at the back of the appliance must have a 50mm minimum clearance between it and the back wall of the opening or any other obstruction. The area immediately above the outlet must form a smooth path into the flue.

Any type of fire surround used with this appliance must be adequately sealed to the wall and floor.

A combustible shelf may be fixed to the wall above the fire, providing that it complies with the dimensions given below.

<b>Maximum depth of shelf</b>	<b>Minimum distance from finished hearth surface to underside of shelf</b>
100mm	745mm
150mm	845mm
203mm	895mm

A non-combustible shelf may be fitted to within 10mm of the top edge of the fireframe. Combustible materials, such as wood, may be fitted to within 100mm of either side of the fireplace opening, providing the forward projection does not exceed 100mm. Any combustible side walls must be at least 500mm to the side of the radiant heat source. As with all heating appliances, any decorations, soft furnishings, and wall coverings (i.e. flock, blown vinyl and embossed paper) positioned too close to the appliance may discolour or scorch.

## 4.1 DEBRIS COLLECTION SPACE

The mounting depth of this appliance is 180mm. In accordance with BS 5871 part 2, minimum debris collection volumes are required behind the installed appliance. These are shown below and as dimension 'X' in figure 1.

**CLAY/CEMENT LINES OR BLOCK FLUE WHICH IS NEW, UNUSED, OR PREVIOUSLY ONLY USED WITH A GAS FIRE.**

**X Dimension = 20mm**

**UNLINED FLUE OR CHIMNEY WHICH HAS BEEN PREVIOUSLY USED FOR A SOLID FUEL OR OIL BURNING APPLIANCE**

**X Dimension = 60mm**

## 5.0 VENTILATION

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**This appliance requires purpose provided ventilation of at least 8.75cm<sup>2</sup>.** The requirements of other appliances operating in the same room or space must be taken into consideration when assessing ventilation.

If spillage is detected when commissioning the appliance, then amongst other problems there may be insufficient ventilation for correct operation of the flue. If the appliance does not spill with the windows open, but spillage is detected with the windows closed, this demonstrates a lack of ventilation and will require the installation of additional ventilation. If spillage is still detected with the windows open, the flue is at fault. Any ventilation fitted must comply with BS 5871 part 2 and BS 5440 part 2. Vents fitted under or within the immediate vicinity (500mm) of the appliance must not be used as adverse effects to the operation of the ODS may occur. Spillage detected during commissioning is almost always a result of poor flue performance that cannot be corrected by any amount of ventilation.

For Republic of Ireland ventilation may be required, see IS 813, ICP3, IS 327, and any other rules in force.

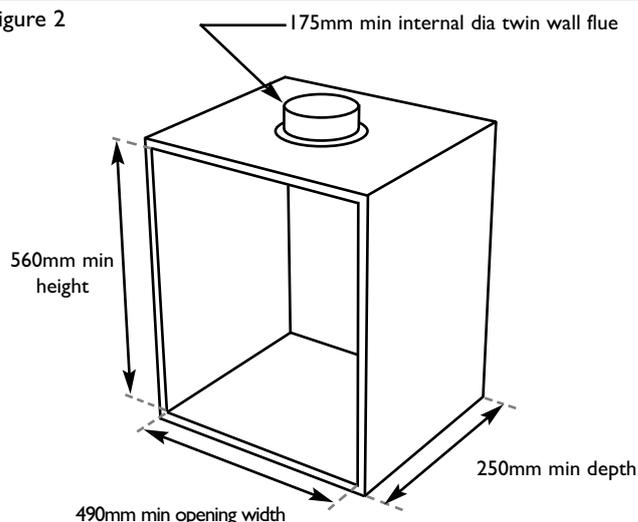
## 6.0 PREFABRICATED FLUE BOXES

This appliance can be fitted into a number of proprietary flue boxes provided that the minimum dimensions shown in figure 2 are complied with.

**Constructional Note:** The frame of the fire, any back panel or other infill panels, and the flue box must be sealed together so that there is no possibility of leakage between them. Adequate clearances to combustible materials (e.g. false chimney breast construction) must be maintained.

**The manufacturers' instructions for fitting the prefabricated box shall be complied with at all times.** To fit the fire using the cable fixing kit, some minor adaption may be necessary for certain flue boxes. A check should be made to ensure the firebox does not obscure the flue box outlet. The firebox, base of the flue box, and hearth below may be drilled to allow plugs and screws to secure installation. It is important that the sealing requirements of the appliance are met at all times and that the flue box is well sealed to any back or infill panel. **Note:** The DEPTH dimension is inclusive of any back or infill panel.

Figure 2



## 7.0 UNPACKING THE APPLIANCE

Stand the carton the right way up, cut the strapping bands and remove the top endcap. Read **all** the instructions before continuing to unpack or install this appliance.

Remove the box containing the firefront, and the bags containing the ceramic components. Remove the cardboard packing pieces, and any other bags or boxes containing fittings or other parts. When all loose parts have been removed, the outer sleeve may be lifted off to reveal the appliance. Check that the components supplied correlate with the component checklist given in section 7.1. Please dispose of all the packaging materials at your local recycling centre.

## 7.1 COMPONENT CHECKLIST

QUANTITY	DESCRIPTION
1	Firebox and burner tray assembly
1	Three piece decorative trim
1	Cast firefront
1	Moulded ceramic fibre combustion matrix
1	Left-hand Moulded ceramic front strip
1	Right-hand Moulded ceramic front strip
16	Individual ceramic coals
4	Ceramic ribbed effect radiant panels
3	Ceramic panel retaining clips
1	Cable fixing kit; 2 cables, 2 tensioners, 2 cable clamps, 4 eyebolts
1	Sealing grommet
3	Lengths of adhesive sealing strip
1	Self tapping screw pack; 4 No8 x 5/16
1	Set of manufacturers instructions
4	Wall Plugs

**Note:** Ensure that the gas supply is isolated before commencing installation of the appliance.

The fireplace opening and environment must be in compliance with specifications laid down in the appropriate sections of these instructions.

Remove the appliance from its carton as described previously and stand upon a dust sheet or similar. Place the decorative frame, coals, ceramics and fixings safely to one side. Remove the burner from the assembly by removing the retaining screws.

Slide control models : Remove the slide control linkage connecting screw.

The tray is now free, and may be lifted away.

**RADIANT PANELS :** The three radiant panels may now be fixed inside the firebox. Select the plain or patterned side of each panel and insert as follows;

Lay the firebox on its back. Lay the tapered panel onto the rear face of the firebox.

The side panels should be fitted by inserting their front edges into the pre-fitted retaining brackets on the front face of the firebox. Gently align the side panels with the side of the firebox as shown in figure 3, over the top of the back panel already in place.

Make sure that the side panels are pushed **up** firmly to the roof of the firebox, and **back** firmly to retain the tapered panel. Make small adjustments to line up the mortar lines if required. Secure the side panels using the small 'L' shaped brackets and screws provided (figure 4). The screws should locate into the pre-punched holes in the sides of the firebox.

**SUPPLY PIPE ENTRY :** Knockout holes are provided in the rear and sides of the firebox for use where concealed pipework is required. Where necessary, knock out the appropriate hole with a sharp tap from a hammer, and fit the rubber grommet supplied. A small incision can now be made in the rubber to slip snugly around the outside of the pipe and sleeving. **Do not install or use the appliance without the seal in place.** If a hole is inadvertently opened, reseal with an intact grommet.

Failure to fit the seal correctly will cause flue suction to act upon the area under the burner, resulting in poor performance and intermittent cutting out of the burner.

**SPIGOT RESTRICTOR :** If installing the fire into a Class 1 or good Class 2 flue, simply bend up (stitch bend join) the spigot restrictor into position in the flue outlet of the fire as shown in figure 5.

**You MUST remove (or bend down fully) the spigot restrictor and re-test if the appliance fails a spillage test during commissioning.**

**SEALING STRIPS :** Apply the self adhesive sealing strips to the back of the fireframe as shown in figure 6 to give a continuous seal.

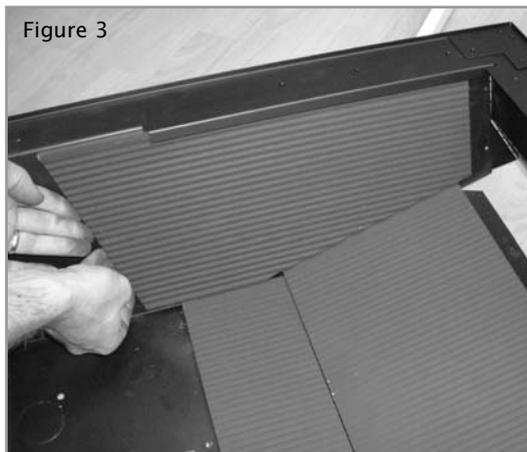


Figure 3

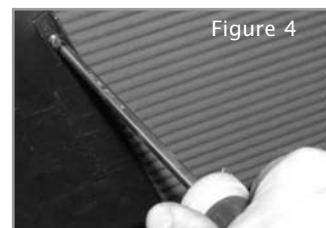


Figure 4

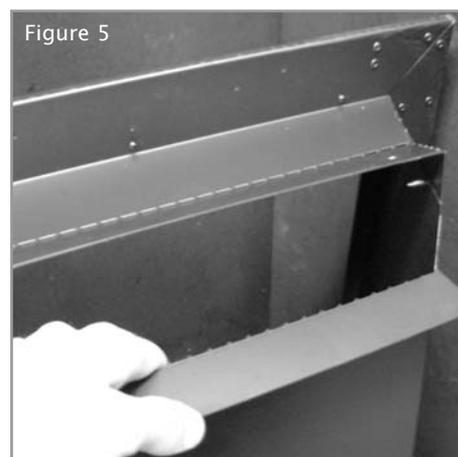


Figure 5

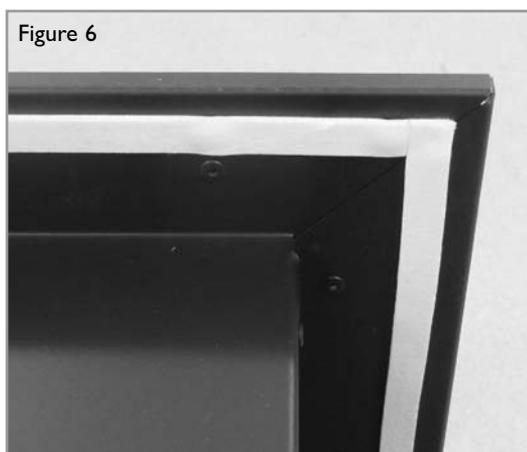


Figure 6

## 9.0 PREPARING THE OPENING

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Before installing the fire, check the flue using a smoke pellet. All of the smoke should travel up the flue and exit correctly from the terminal. If problems are found, DO NOT fit the fire until corrective action is completed. Protect the decorative hearth whilst pushing the firebox in and out of the opening. Part of the packaging will make an ideal hearth saver pad. Before running the gas supply into the opening, offer up the firebox to the fireplace to check the fit is good. Angle the firebox as shown in figure 9 or adjust the spigot outlet as described in part 10.0 of these instructions. Ensure that it slides in correctly, the sealing face sits flat and square to the wall or infill panel, and that the base is firm on the floor of the opening as no leaks are permissible here.

At this stage it is essential to ensure that the spigot outlet of the fire is not restricted in any way. Remove the firebox and take any necessary measurements before making good and preparing for final installation.

**CABLE FIXING** : For fixing of the fire by the cable method, see the relevant section. The cable fixing locations should be marked on the back of the opening and the holes drilled. Fit the wall plugs and eyebolts to these holes.

**SCREW FIXING** : For fixing by screw, mark and drill the fireframe or base, and the relevant points in the opening or on the wall. Wall plugs will again be required. Pre-punched holes are not provided for this purpose to allow you to choose the optimum positions.

**GAS SUPPLY** : Following preparation for the fixing method, the concealed gas supply, where required, can now be put into place. Refer to the gas supply section for suggested pipe routes. The ends of the sleeving in which the gas pipe is run should be sealed. The ends of the 8mm supply pipe should be temporarily sealed to prevent the ingress of debris during fixing.

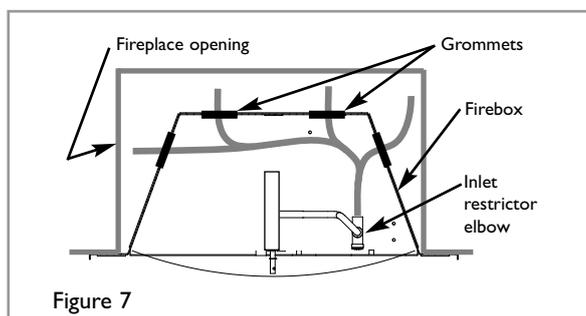
## 10.0 GAS SUPPLY ROUTING

When the opening is ready for installation of the fire, the gas supply may be routed as per the examples shown in figure 7.

**IMPORTANT** - Wherever a concealed connection is made a rubber grommet must be used to seal the firebox.

The gas pipe must be suitably protected where it passes through fireplace openings. Any sleeving should be sealed to the pipe at its ends. This appliance is fitted with an inlet restrictor elbow. Using 8mm diameter pipe, connect the appliance to the gas supply point. The appliance must be fitted with rigid or semi-rigid pipe of 8mm external diameter. The appliance is factory fitted with an inlet restrictor elbow. Use a minimum length of 8mm pipe, less than 1.5m where possible, as a long run of pipe may cause an unacceptable drop in the supply pressure.

The open end of the supply pipe should be sealed temporarily during the installation of the firebox to prevent the ingress of dirt and dust.

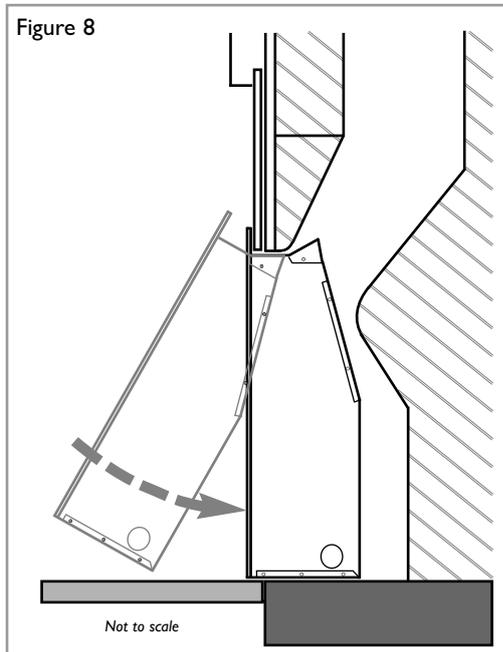


## 11.0 FITTING THE FIREBOX

To fit the firebox, first check the firebox fits correctly into the opening. For openings between 545mm and 565mm in height it will be necessary to insert the upper part of the firebox first, followed by the lower as shown in figure 8.

If it is still not possible to fit the firebox into the opening then remove the outlet deflector screws using a screwdriver, bend the outlet deflector down and partly insert the firebox. **Now push the outlet deflector back up to the original position** under the lip of the fireplace opening and secure with the screws.

The fire is designed to operate correctly with the spigot raised and screwed in its original position and spillage problems may arise by not realigning correctly once fitted. Secure the firebox by drilling and screwing down the frame or base of the firebox, or use the cable fixing method.



## 11.1 INSTALLATION BY CABLE FIXING KIT

GB IE

Drill four holes using a 8mm masonry bit to a depth of 42mm in the positions shown in figure 9. If the fireplace configuration does not allow the exact layout given, the eyebolts should be positioned as close to the correct layout as possible.

Before finally fitting cables, ensure the self adhesive sealing strips are in position on the back of the appliance frame. The fireframe must be sealed evenly to the fireplace opening all around the periphery.

Thread the tensioning cables through the holes in the top of the firebox, then the eyelets, and finally through the lower holes in the back of the firebox, as shown in figure 10.

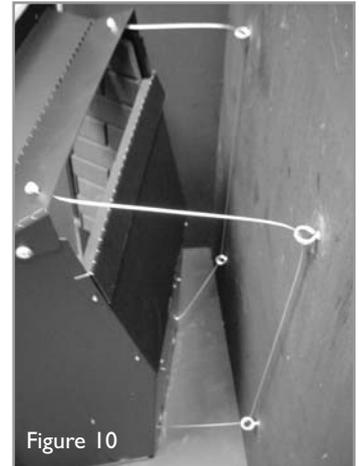
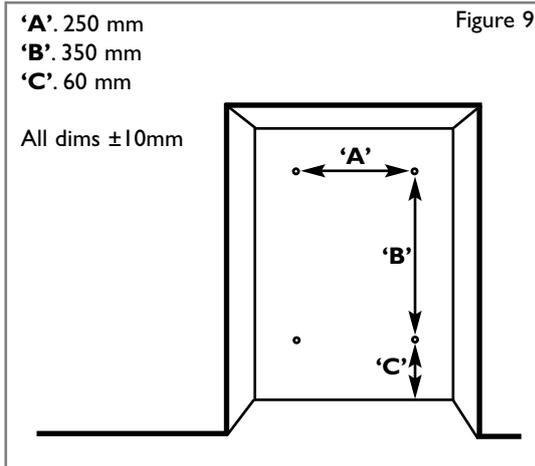


Figure 10

Note : The burner must be removed as per relevant section to gain access to the cable adjusters.

Push the appliance back into the fireplace, centralise, and pull the loose tensioning cables through the holes into the firebox. You may need to temporarily adjust the outlet deflector at this point as described in section 11.0 of these instructions. Thread the tensioner bolts onto the cables, with the nuts screwed down close to the tensioner head. Slide the screwed nipple onto the cable, pull cable tight, and tighten nipple.

The tension of the cable may now be adjusted by using a suitable spanner on the tensioner nuts to pull the appliance tightly against the fireplace opening. Visually inspect the seal and reseal if necessary.

Do not cut off excess cable. Surplus cable must not be cut off, as it will be impossible to refit the fire after servicing. Coil up the surplus cable, and locate at rear of firebox as shown in figure 11. If running a concealed gas supply, ensure grommets are secure around incoming pipes.



Figure 11

## 11.2 GAS CONNECTION

**Important Note: Check the thermocouple nut connection into the rear of the valve is secure.**

Temporarily fit the burner unit and ensure a suitable gas route can be achieved. Purge the gas supply thoroughly to remove air and dirt/debris before connection. Disconnect the inlet restrictor elbow from the inlet pipe.

Connect the previously installed gas supply to inlet restrictor elbow. Place the burner unit into the firebox making sure that the rear lugs locate properly on to the ledge in the firebox. Fit the two securing screws through the burner legs to secure the assembly. Re-fit the restrictor elbow to the inlet pipe of the appliance.

## 11.3 FUEL BED LAYOUT

Please see the relevant section of the user instructions.

## 11.4 FITTING THE FIREFRONT/FRAME

Remove all protective film and packaging material before fitting.

The clip-on frame pieces should be hooked over the outer edges of the fireframe, (figure 12), and pushed firmly home. The sides should be fixed first, followed by the top bar, which overlaps the sides. Push firmly home.

**IMPORTANT : Due to the possibility of sharp edges, care should be taken when handling the three-piece frame components. The use of protective gloves is strongly recommended.**

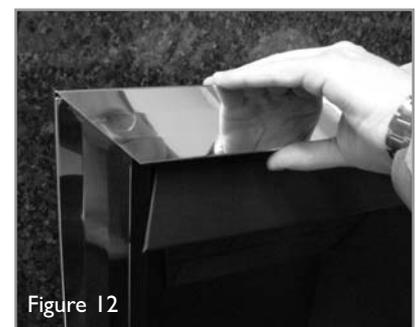


Figure 12

## 12.0 TESTING AND COMMISSIONING

Turn on and test the gas supply up to the fire for any leaks, in accordance with current edition of BS6891.

When the appliance is first used, protective oils coating the firebox may burn off. It is advisable to ventilate the room during this period for at least one hour.

## 12.1 OPERATING THE FIRE - MANUAL CONTROL MODELS

GB IE

The pilot is visible through the left hand side front ceramic strip. When cold, the coals may be rotated for good viewing. The fire features a 'twin spark' ignition system to aid lighting. Push the control knob in fully and turn anti-clockwise through both of the SPARK positions, keeping fully depressed, hold there for a few seconds. If the fire has not been used for some time, hold the knob in this position for longer, to allow any air in the pipes to be purged. Continue turning anti-clockwise through the spark clicks to the nine o'clock position, ensuring the pilot has lit. If not, return the knob clockwise, and repeat.

When the pilot lights after one of the two sparks, keep the knob depressed in the nine o'clock position for approximately ten seconds. Now release the knob and the pilot should stay alight. If the pilot is extinguished during use, wait three minutes before repeating the ignition procedure.

To achieve the HIGH setting, push the control knob in slightly and continue turning anti-clockwise to the high position. The main burner should light after a few seconds. To decrease the setting to LOW, push the knob in slightly and turn the control knob clockwise to the low setting. To turn to the pilot only position from the HIGH or LOW positions, push the control knob in, and return to the nine o'clock position and release. To turn the fire OFF, keep the knob pressed in, return to the off position and release.

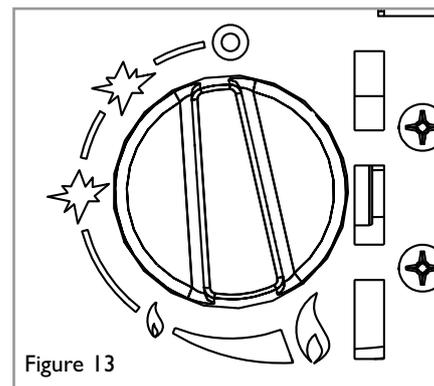


Figure 13

## 12.2 SPARK GAP

If under any circumstances the electric spark fails, the pilot may be lit manually by proceeding with the ignition sequence as previously described, and after turning the control knob through the spark position, the knob should be held in and the pilot lit with a taper.

Release the pressure test point screw, and attach a pressure gauge. Light the fire on the HIGH setting. To commission the appliance, the operating pressure must be in accordance with the figures stated in section 2.0 of these instructions.

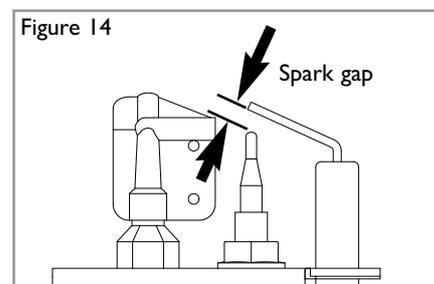


Figure 14

## 12.3 OPERATING PRESSURE

The operating pressure is measured on the appliance inlet elbow shown in figure 13. Release and attach a pressure gauge. Light the fire on the HIGH setting. To commission the appliance, the operating pressure must be in accordance with the figures stated in section 2.0 of these instructions. The fire is factory set to achieve the correct flow rates at the specified operating pressure.

Any significant variation in the inlet pressure could indicate a supply problem. If the operating pressure is too high, the gas supply meter/governor may be set incorrectly. This should be checked with the fire running and if necessary reset by the gas supplier. If the operating pressure is too low, then check the meter/governor pressure with the appliance running. If this is less than the operating pressure stated in section 2.0 of these instructions it will need to be reset by the gas supplier. If the inlet pressure is too low, but the meter/governor pressure is acceptable, then a problem in the supply pipework is to be suspected. Upon satisfactory checking of the operating pressure, turn the fire off, disconnect the pressure gauge and refit the test point screw. Light the fire and check for gas soundness. In the event that the operating pressure is not in accordance with the figures stated in the data section of these instructions, the appliance must not be commissioned, and the problem investigated and rectified.

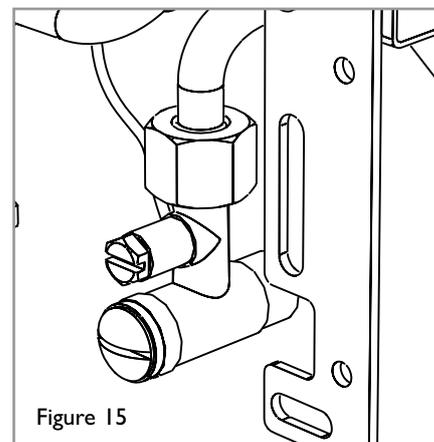


Figure 15

## 12.4 FLUE SPILLAGE MONITORING SYSTEM

This fire is fitted with a flue spillage safety device (ODS). If the fire shuts down during use for no apparent reason then several things may be suspected. If a door or window has been opened creating a draught, then pilot disturbance is the problem, and removal of the draught should resolve this. The gas pressure reaching the fire must also be checked (again, recall your installer to check and rectify any problem). The thermocouple connection into the back of the gas control valve may also have worked loose during installation, simply get the installer to tighten. If pilot disturbance is not the cause, then the ODS safety system may be in operation. Switch the appliance OFF, check the flue and carry out any remedial work required. Relight the fire and carry out a spillage test.

DO NOT allow the appliance to be used if it continues to fail a spillage test. The aeration hole of the pilot must be carefully cleaned out on each annual service to ensure continued function of the ODS. The spillage monitoring system shall not be adjusted, modified, or put out of operation by the installer. Any spare parts fitted MUST be of a type supplied for the purpose by the appliance manufacturer. If the fire is not spilling, then further guidance should be sought, using the Troubleshooting section as a guide.

## 12.5 TESTING FOR SPILLAGE

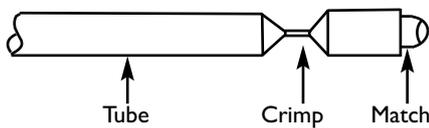
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Close all doors and windows to the room containing the appliance. Let the fire run on HIGH for five minutes. Take a smoke match, light it, and using a smoke match tube, hold it at the top edge of the fire opening, 25mm down and 25mm in. Starting 50mm in from either side, run the smoke match across the opening.

All the smoke should be drawn away up the flue. Any smoke returning into the room indicates that spillage is occurring. If the initial spillage test fails, run the fire for a further 10 minutes and repeat the test.

When the test has been completed satisfactorily, repeat with any extractor fans in the premises running on the highest setting, and any communicating doors open. Finally, repeat with all doors open.

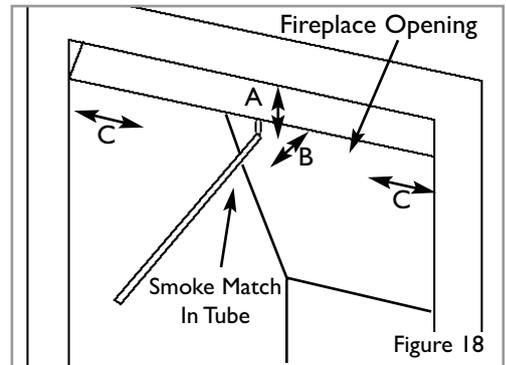
Figure 16 : Cross section of smoke match tube



Make a smoke match tube from 10mm diameter tube. Seal off one end and crimp the tube to prevent the smoke match from sliding down inside.

Spillage test - Figure 17

- A. 25mm down from top of opening
- B. 25mm in from front of opening.
- C. Disregard outer 50mm either side of fireplace opening



**DO NOT allow the fire to be used until the test is satisfactorily passed.**

## 12.6 BRIEFING THE CUSTOMER

All instructions must be handed to the user for safekeeping. Show the customer how to light and control the fire. 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 fire may be achieved when the fire is cold using a damp cloth and mild detergent on most surfaces.

Scratched and other superficial damage to the matt black paintwork of the appliance can be covered with matching heatproof spray. Use only the manufacturers' recommended spray paint. Paint only when the fire is **OFF** and cold. Always mask off the surrounding area to prevent contamination with overspray. Ventilate the room during the use of the spray. **DO NOT** attempt to wash the coals or ceramics in water.

Advise that the fire will emit a "newness" smell for a time after initial commissioning and that extra ventilation may be needed during this time. Advise that the fire is fitted with a spillage safety device (O.D.S.). If the fire shuts down, this system may be in operation. If spillage is suspected, **SWITCH APPLIANCE OFF** and call in the installer to investigate any problems.

## 13.0 SERVICING

Isolate the fire from the gas supply. Ensure that the fire is fully cold before attempting service. A suggested procedure for servicing is detailed below.

1. Lay out the dust sheet and tools.
2. Carefully remove the ceramic components.
3. Remove the cast front fret.
4. Disconnect the gas supply, and remove the two securing screws in the tray legs.
5. Remove the burner tray.
6. Remove firebox as described.
7. Check the fireplace opening for rubble accumulation and remove. If debris is excessive, initiate remedial work on the flue.
8. Check the flue with smoke pellet for correct operation.
9. Refit firebox using new seals where necessary.
10. Strip off the burner pipes and clean thoroughly.
11. Clean out the injector, pilot assembly and burner tube. **DO NOT** attempt to remove the pilot injector.
12. Re-assemble and re-fit the burner tray.
13. Turn on the gas supply, and leak test.
14. Refit the decorative firefront and ceramics.
15. Check the purpose provided ventilation is un-obstructed.
16. Light the fire and test for spillage.
17. Check setting pressure and safe operation of the appliance.

For specific servicing instructions, see the relevant sections.

## 13.1 CLEANING THE CERAMICS

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Remove the firefront and place to one side. Remove the ceramic components. Gently clean in the open air. Be careful not to create dust from the coals. Where necessary replace damaged components with genuine spares. Seal scrap ceramic components in plastic bags and dispose at proper refuse sites as directed.

Re-fit the coals by referring to the relevant section of these instructions.

## 13.2 REMOVING THE BURNER

Remove the decorative front. Remove the ceramics and place safely aside.

Remove the two screws securing the tray legs to the firebox. Pull tray forward slightly and lift away.

Refitting is the reverse of above, being sure to engage the tray location lugs on the shelf at the rear of the firebox.

## 13.3 SERVICING THE BURNER

Remove the burner unit as previously described. The pilot unit can be removed by withdrawing the tubing nut, the thermocouple nut on the rear of the valve, and the two securing screws, and lifting away. Remove the tubing nut from the valve end of the pilot pipe, and blow through to dislodge any debris.

Remove the two tubing nuts on the ends of the gas pipe to the injector elbow and blow clear. Release the screw through the supporting leg and lift assembly clear. The injector pipe can now be checked for debris. Remove the nut retaining the injector elbow. Blow through the elbow to remove any debris.

## 13.4 PILOT ASSEMBLY

Remove the burner unit as in relevant section and pilot unit as described.

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 remove the pilot injector. The unit is factory set and the only check necessary is to ensure the spark gap is correct. See specifications for gap setting.

## 13.5 REMOVING THE FIREBOX

Remove the burner unit as described previously.

Protect the hearth from potential damage. Unroll the coiled tensioner cables from the rear of the firebox. Remove the securing nipples and tensioner adjusters. The firebox is now released from the opening and can be slid outward onto the hearth. Inspect the fire-place opening for debris and if excessive rectify the flue before proceeding further. Check the seal around the fireframe and if necessary replace. Refitting of the firebox is as described in the fitting section of these instructions.

## 14.0 TROUBLESHOOTING GUIDE

### **Fire sparks but pilot does not light**

- No gas to fire, check isolators are open and gas supply is on.
- Pipework blockage, clean out.
- Air not fully purged, re purge supply or wait longer.
- Spark earthing to metalwork, reset gap correctly.
- Blocked pilot, clean out internally.

### **Pilot lights but then goes out**

- 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 indicator plate.
- If the pilot will not stay lit there could be a problem with contamination of the gas supply, drafts, ventilation 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 ALIGHT.**

### **Fire does not spark at pilot**

- HT lead detached, refit.

- Check the spark gap (see section 12.2).
- Faulty piezo unit, replace.
- Debris shorting out electrode, clean.
- Spark shorting to metalwork under tray, check routing of HT lead under burner.

***Fire runs for a time and then cuts off***

- Loose or faulty thermocouple, rectify.
- Blocked pilot, clean out.
- Excessive drafts in the room.
- Excessive flue pull.
- Fire is too close the an air vent.
- Dirt or lint in pilot aeration hole or on the lint gauze, clean thoroughly.
- If the pilot will not stay lit there could be a problem with contamination of the gas supply, drafts, ventilation 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 ALIGHT.**

***Pilot flame shrinks when fire is on high***

- Poor gas flow to fire, check pressure with fire on high.
- If pressure is low, remove any restriction in pipework or valve.
- Check all isolators are adequately sized and fully open.
- Check meter pressure is adequate.
- Firebox grommet seal missing, rectify.
- If the pilot will not stay lit there could be a problem with contamination of the gas supply, drafts, ventilation 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 ALIGHT.**

***Fire smells when first lit or in use***

- Newness smell from brand new appliance.
- Spillage occurring. Carry out Spillage test and rectify any problems.
- Combustible materials used in incorrect positions.
- Firebox grommet seal missing, rectify.
- Other airborne contaminants such as dust, tobacco smoke, paint vapours.

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## 1.0 IMPORTANT NOTES

- The installation and Servicing of this fire **MUST** only be carried out by a competent person in accordance with local Codes and/or Regulations, Building Regulations and the manufacturer's instructions. Failure to comply with these could lead to prosecution and invalidate the appliance warranty. In the event of gas leakage from the appliance, the gas supply must be turned off at the nearest isolating valve. This appliance is only suitable for the gas type for which it is supplied.
- Keep a note of the installer's name and address, the original purchase receipt and the date of installation. Failure to produce this information may invalidate the warranty. The appliance should be serviced regularly to ensure continued safe operation. See the servicing section for further reference. Frequency of service will depend on use, but **MUST** be carried out at least once annually.
- Parts of this appliance become naturally hot during use. It is recommended that a suitable fireguard is used, especially where young children, pets, the elderly or infirm are concerned. The manufacturer of this appliance considers all surfaces as working surfaces with the exception of the control knob and control panel.
- It is recommended that a suitable fireguard conforming to BS 8423 is used, especially where young children, the elderly, or infirm are concerned.
- The appliance should be serviced regularly to ensure continued safe operation. Frequency of service will depend on use, but **MUST** be carried out at least once annually.
- Combustible items, such as flooring and furniture and soft wall coverings (such as blown vinyl or embossed paper), low temperature surrounds etc may discolour if fitted too close to the fire. See relevant section for further details on clearances to combustibles. No combustible materials or flooring should protrude onto the hearth.
- This appliance incorporates a combustion monitoring system (ODS).
- **DO NOT** burn any foreign material on this fire, the ceramic fuel effect components must be of the correct type and laid out in accordance with the relevant section of these instructions.
- Failure to do so could create a hazard or lead to sooting.
- Before the appliance is installed, the chimney should be swept. All flues should be checked by the installer to ensure there are no defects or obstructions that may prevent the flow of combustion products.
- This appliance is fitted with a flue blockage safety device which will shut down the fire if abnormal flue conditions occur. It is **NOT** a substitute for an independently mounted Carbon Monoxide detector.
- This fire is supplied with a particular style of firefront. Use of the firefront will ensure an adequate airflow under the firebed for the correct functioning of this appliance. Use **ONLY** the firefront supplied with the appliance. Use of any other firefront could be dangerous.
- Should any home improvements be carried out to the property after the fire is installed, such as installation of extractor fans for example, the fire should be re-checked by a competent person for safe operation.

## 2.0 CLEARANCES TO COMBUSTIBLES

A combustible shelf may be fixed to the wall above the fire, providing that it complies with the dimensions given below.

<i>Maximum depth of shelf</i>	<i>Minimum distance from finished hearth surface to underside of shelf</i>
100mm	745mm
150mm	845mm
203mm	895mm

A non-combustible shelf may be fitted to within 10mm of the top edge of the fireplace opening. Combustible materials, such as wood, may be fitted to within 100mm of either side of the fireplace opening, providing the forward projection does not exceed 100mm.

Any combustible side walls must be at least 500mm to the side of the radiant heat source. As with all heating appliances, any decorations, soft furnishings, and wall coverings (i.e. flock, blown vinyl and embossed paper) positioned too close to the appliance may discolour or scorch.

## 3.0 VENTILATION

**This appliance requires purpose provided ventilation of at least 8.75cm<sup>2</sup>.** The requirements of other appliances operating in the same space or room, and the results of a spillage test must be taken into consideration when assessing ventilation requirements, this will have been carried out by your CORGI registered installer.

For Republic of Ireland, ventilation may be required, see IS 813, ICP3, IS 327, and any other rules in force.

**WARNING :Ventilation openings (where fitted) must never be blocked or restricted in any way.**

## 4.0 OPERATING THE FIRE

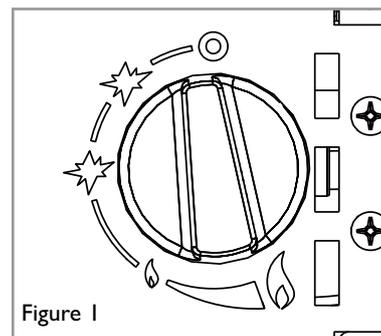
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The pilot is visible through the left hand side front ceramic strip. When cold, the coals may be rotated for good viewing. The fire features a 'twin spark' ignition system to aid lighting. Push the control knob in fully and turn anti-clockwise through both of the SPARK positions, keeping fully depressed, hold there for a few seconds. If the fire has not been used for some time, hold the knob in this position for longer, to allow any air in the pipes to be purged.

Continue turning anti-clockwise through the spark clicks to the nine o'clock position, ensuring the pilot has lit. If not, return the knob clockwise, and repeat.

When the pilot lights after one of the two sparks, keep the knob depressed in the nine o'clock position for approximately ten seconds. Now release the knob and the pilot should stay alight. If the pilot is extinguished during use, wait three minutes before repeating the ignition procedure.

To achieve the HIGH setting, push the control knob in slightly and continue turning anti-clockwise to the high position. The main burner should light after a few seconds. To decrease the setting to LOW, push the knob in slightly and turn the control knob clockwise to the low setting. To turn to the pilot only position from the HIGH or LOW positions, press the control knob in, and return to the nine o'clock position and release. To turn the fire OFF, keep the knob pressed in, return to the off position and release.

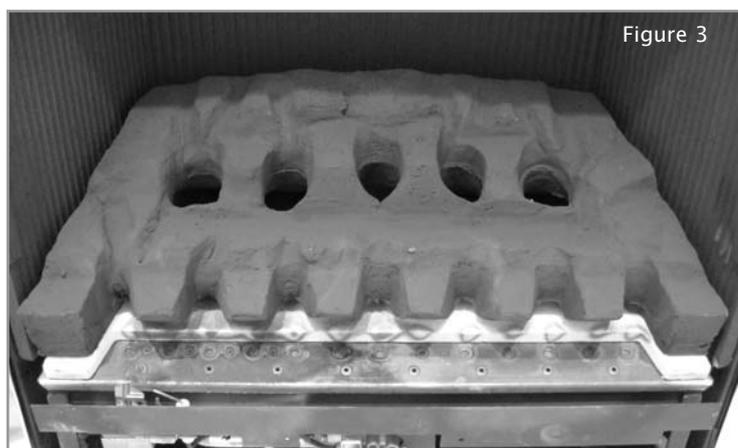
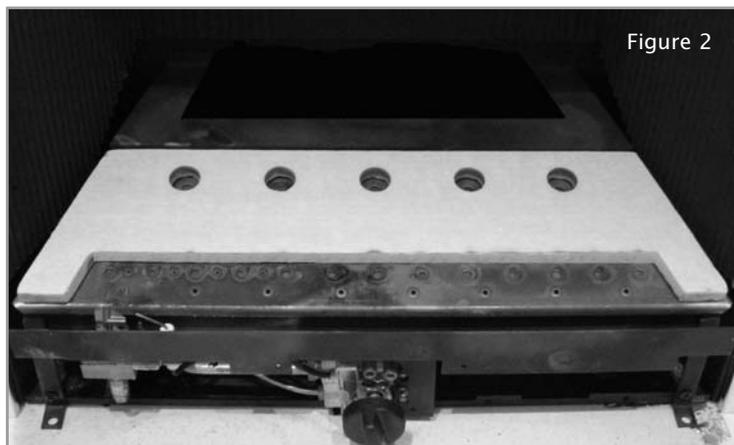


## 5.0 FLUE SPILLAGE MONITORING SYSTEM

This fire is fitted with a flue spillage safety device (ODS). If the fire shuts down during use for no apparent reason then several reasons may be suspected. If a door or window has been opened creating a draught, then pilot disturbance could be the problem, and removal of the draught should resolve this. The fire can then be re-lit in accordance with the previous section. If pilot disturbance is not the cause, then the ODS safety system may be in operation. Switch the appliance OFF, call in your installer to check any ventilation and carry out any remedial work required. DO NOT allow the appliance to be used until the installation is passed as safe.

## 6.0 FUEL BED LAYOUT

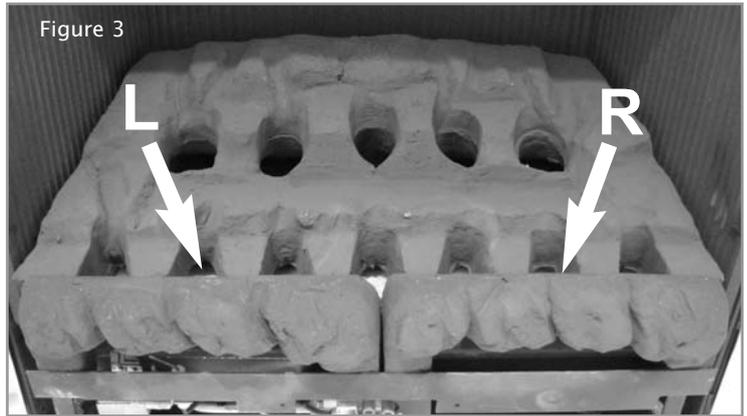
1. Place the ceramic burner pad onto the top of the burner as shown in figure 2, taking care to ensure it is centralised and pushed fully against the back location ledge. Check that all of the holes in the burner top plate are unobscured.



2. Place the matrix into position as shown in figure 3. Slide it back to the rearmost position and centralise.

3. Locate the two front coal sections marked 'L' and 'R' into the slot along the front of the burner tray as shown in figure 3. The legs of the coals have a slightly tapered front face which is intended to give a tight interference fit into the tray.

**Do not alter the slot in the tray front, so that the coals become a loose fit.**



4. Open the bag of 16 moulded coals. All of the coals are the same. Take six coals and place them as shown in figure 4. Care should be taken to ensure that the coals bridge the gap between the front coal and the four coal supports at the front of the matrix.

5. Take five more moulded coals and position as shown in figure 5 along the rear of the matrix. Do not place the coals directly over the holes in the matrix. The coals may be rotated as desired to ensure they sit firmly on the various supporting parts of the matrix.



6. Finally, take the five remaining coals and position as shown in figure 6. These coals should rest on the front and rear rows of coals, rather than sitting directly on the matrix. Adding these coals should complete the appearance of the fuel bed giving an even distribution of equally spaced coals.

**The fire is designed to operate correctly with the sixteen coals supplied when assembled according to the instructions. Never add to the sixteen coals, or change them for a different type. Never throw rubbish or other matter onto the fuel bed. Please note: some discolouration/sooting is to be expected during normal use. IMPORTANT : The fire is designed to operate correctly with the pebbles supplied when assembled according to the instructions. Never add to the sixteen pebbles, or change them for a different type. Never throw rubbish or other matter onto the fuel bed. Due to the light colour of the pebbles, some discolouration/sooting is to be expected during normal use.**

