INSTALLATION AND OWNER GUIDE

Model 939

OPEN DECORATIVE GAS FIRE

(GC No. 32-032-54)



We trust that this guide gives sufficient details to enable this appliance to be installed and maintained satisfactorily. However, if further information is required, our **Technical Helpline** will be pleased to help.

Telephone 0844 8711 565 (National call rates apply in the United Kingdom).

In the Republic of Ireland Telephone 0044 844 8711 565.



INSTALLER: Please leave this guide with the owner

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THIS APPLIANCE IS FOR USE WITH NATURAL GAS (G20).

WHEN CONVERTED USING CONVERSION KIT NO. 0595211 THIS APPLIANCE IS FOR USE WITH PROPANE GAS (G31).

THIS APPLIANCE IS SUITABLE ONLY FOR INSTALLATION IN THE UNITED KINGDOM (GB) AND THE REPUBLIC OF IRELAND (IE).

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Valor Fires, Erdington, Birmingham B24 9QP www.firesandstoves.co.uk

Because our policy is one of constant development and improvement, details may vary slightly from those given in this publication.

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Safety First.

This Fire is CE Approved and designed to meet the appropriate British Standards and Safety Marks.

CE

Quality and Excellence.

This Fire has been manufactured to the highest standards of quality and excellence and are manufactured under a BS EN ISO 9001 quality system accepted by the British Standards Institute.



The Highest Standards

The manufacturer is a member of SBGI and HHIC (Heating and Hot water Industry Council) that work to ensure high standards of safety, quality and performance.



Careful Installation

This gas fire must be installed by a competent GAS SAFE REGISTER engineer (GAS SAFE REGISTER or CORGI engineer outside of UK) in accordance with our installer guide and should not be fitted directly on to a carpet or floor of combustible material.



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INSTALLER GUIDE

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1. SAFETY AND UNPACKING

Installer

Before continuing any further with the installation of this appliance please read the following guide to manual handling:

- The lifting weight of this appliance (DGF burner) is 2 kg. One person should be sufficient to lift the fire. If for any reason this weight is considered too heavy then obtain assistance.
- When lifting always keep your back straight. Bend your legs and not your back.
- Avoid twisting at the waist. It is better to reposition your feet.
- Avoid upper body/top heavy bending. Do not lean forward or sideways whilst handling the fire.
- Always grip with the palm of the hand. Do not use the tips of fingers for support.
- Always keep the fire as close to the body as possible. This will minimise the cantilever action.
- Use gloves to provide additional grip.
- Always use assistance if required.

This product uses fuel effect pieces containing Refractory Ceramic Fibres (RCF), which are man-made vitreous silicate fibres. Excessive exposure to these materials may cause irritation to eyes, skin and respiratory tract. Consequently, it is important 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 you use a HEPA filtered vacuum to remove any dust and soot accumulated in and around the fire before and after working on the fire. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within a heavy duty polythene bag, clearly labelled as RCF waste. RCF waste is classed as a stable, non-reactive hazardous waste and may be disposed at a landfill licensed to accept such waste. Protective clothing is not required when handling these articles, but we recommend you follow the normal hygiene rules of not smoking, eating or drinking in the work area and always wash your hands before eating or drinking.

This appliance does not contain any component manufactured from asbestos or asbestos related products.

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2. LIST OF ACCESSORIES				
Valor and B&Q models				
Description	Part Number			
All Models				
LPG Conversion kit	0595211			
'Quattro' / 'Anthem', 'Majestic' and Models not supplied with a firefront				
Replacement Chair brick	0552311			
Replacement Chair brick Trims				
Flat Brass effect	0552321			
Flat Satin Chrome effect	0552331			
• Flat Black	0552341			
<u>'Azure' Model</u>				
Replacement Chair brick	0552301			
Wonderfire models				
Wonderfire 'Gasflame 3 Convector box' and 16inch Wonderfire Models				

Replacement Chair brick	0552311		
Replacement Chair brick Trims			
Flat Brass effect	0552321		
Flat Satin Chrome effect	0552331		
Flat Black	0552341		
Bauhaus Firefront (16 inch Fret)			
Pale Gold effect	5135659		
Chrome effect	5135660		
• Black	9800123		
Black Nickel	5120251		
Description	<u>Part No</u>		
Blenheim Firefront (16 inch Fret)			
Pale Gold effect	5135657		
Chrome effect	5135658		
Black Cast Iron with Brass Finials	5135656		

3. APPLIANCE DATA AND EFFICIENCY

3.1 General information.

Gas	Natural (G20)	Propane (G31) <u>*</u>
Inlet Pressure	20 mbar	37 mbar
Input - Max. (Gross)	6.85 kW (23,400 Btu/h)	6.7 kW (22,860 Btu/h)
Input - Min. (Gross)	2.3 kW (7,850 Btu/h)	4.0 kW (13,650 Btu/h)

Burner Test Pressure (Cold)	20.0 ± 1.0mbar (8.0 ± 0.4in w.g.)	37.0 ± 1.0mbar (14.85 ± 0.4in w.g.)
Gas Connection	8mm pipe	8mm pipe
Burner Injector	Cat 82 - 074	Size 132
Pilot & Atmosphere Sensing Device	Copreci Ref. O.D.S 21500/166	Copreci Ref. O.D.S 21500/166 Fitted with RBM 180 -02 injector
Ignition	Integral Piezo Spark	Integral Piezo Spark
Aeration	Factory set	Non-adjustable

*When converted using kit 0595211

3.2 Efficiency.

There are no specific thermal efficiency requirements appropriate to this type of appliance as they are intended for decorative purposes only. For the purposes of SAP the efficiency is classed as 20% for use in the Space Heating Requirements calculation, see Table 4a of SAP.

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4. GENERAL INSTALLATION REQUIREMENTS

4.1 Regulations, Standards and Law.

The installation must be in accordance with these instructions. For the user's protection, in the United Kingdom it is the law that all gas appliances are installed by competent persons in accordance with the current edition of the Gas Safety (Installation and Use) Regulations. Failure to install the appliance correctly could lead to prosecution. GAS SAFE REGISTER and CORGI require their members to work to recognised standards. In the United Kingdom the installation must also be in accordance with:

All the relevant parts of local regulations.

All relevant codes of practice.

The relevant parts of the current editions of the following British Standards:-

BS 1251 - Fireplace components

BS 5440 Part 1 -	Installation of flues.
BS 5440 Part 2 -	Installation and maintenance of flues and ventilation for gas appliances of rated input not exceeding 70 kW net (1st, 2nd and 3rd family gases).
BS 5871 Part 2 -	Installation - Inset LFE gas fires
BS 6461 Part 1 -	Masonry chimney & flues - Installation
BS 6891 -	Gas pipework installation

- In England and Wales, the current edition of the Building Regulations issued by the Department of the Environment and the Welsh Office.
- In Scotland, the current edition of the Building Standards (Scotland) Regulations issued by the Scottish Executive.
- In Northern Ireland, the current edition of the Building regulations (Northern Ireland) issued by the Department of the Environment for Northern Ireland.
- In the republic of Ireland the installation must be carried out by a competent person and also conform to the relevant parts of:

The current editions of:-

IS 813 "Domestic Gas Installations" ICP3 IS327

All relevant national and local rules in force.

Where no specific instructions are given, reference should be made to the relevant British Standard Code of Practice.

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Figure 1. Hearth and fireplace opening



340mm minimum with casting completely behind the front of the fireplace opening. 2700m minimum with incandescent area level with the front of the fireplace opening (In both cases the burner must be positioned so that the burner tray trim is touching the lower inside face of the casting).

Figure 2. Hearth and fireplace opening for installations using the SPANISH BASKET CASTING ONLY (See <u>section 4.8</u>)

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4.2 Ventilation requirements.

Normal adventitious ventilation is usually sufficient to satisfy the ventilation requirements of this appliance. In GB reference should be made to BS 5871 Part 2 and in IE reference should be made to the current edition of IS 813 "Domestic Gas Installations" which makes clear the conditions that must be met to demonstrate that sufficient ventilation is available.

4.3 The Atmosphere sensing device (ASD).

The appliance is fitted with an A.S.D (Atmosphere sensing device). If the appliance closes down after a period of operation for no apparent reason, the consumer should be informed to stop

using the appliance until the installation and appliance have been thoroughly checked. The A.S.D will shut the appliance down if an unacceptable amount of harmful products of combustion accumulate. Under no circumstances should the A.S.D be altered or bypassed in any way. Only a genuine manufacturers replacement part should be fitted. The individual A.S.D components are not replaceable.

4.4 Fireguard requirements.

A fireguard complying with BS 8423 should be fitted for the protection of young children, the elderly, or the infirm.

4.5 Room considerations.

4.5.1 This appliance must not be installed in any room that contains a bath or shower or where steam is regularly present.

4.5.2 An extractor fan may only be used in the same room as this appliance, or in any area from which ventilation for the appliance is taken, if it does not affect the safe performance of the appliance. Note the spillage test requirements detailed further on in this manual. If the fan is likely to affect the appliance, the appliance must not be installed unless the fan is permanently disconnected.

4.5.3 Note that soft wall coverings (e.g. embossed vinyl, etc.) are easily affected by heat. They may scorch or become discoloured when close to a heating appliance. Please bear this in mind when installing.

4.6 Chimney preparation.

4.6.1 If the appliance is intended to be installed to a chimney that was previously used for solid fuel, the flue must be swept clean prior to installation. All flues should be inspected for soundness and freedom from blockages.

4.6.2 Any chimney damper or restrictor should be removed. If removal is not possible, they must be secured in the open position.

4.6.3 The flue must not be used for any other appliance or application.

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4.7 Fireplace preparation.

4.7.1 If the fireplace opening is an underfloor draught type, it must be sealed to stop any draughts.

4.7.2 The surface of the hearth must be sufficiently flat to enable the bottom of the front surround and the bottom front cover to be aligned horizontally. Any excessive unevenness (uneven tiles, Cotswold stone, etc.) should be rectified.

4.7.3 If the appliance is to be fitted against a wall with combustible cladding, the cladding must be removed from the area shown in <u>figure 3</u>.



Area to be free of combustible Cladding

Figure 3. Removal of combustible cladding

4.7.4 If the fireplace opening is greater than the acceptable dimensions given in this guide, do not use the back of a fire surround or marble to reduce the opening. This may cause cracking of the surround back or marble.

4.7.5 The appliance must not stand on combustible materials or carpets.

4.8 The hearth.

The appliance must be mounted behind a non-combustible hearth unless the conditions of <u>section 4.10.1</u> are met (N.B. conglomerate marble hearths are considered as non-combustible). The appliance can be fitted to a minimum class "O" 100°C surround. The hearth material must be at least 12mm thick. The periphery of the hearth (or fender) should be at least 50mm above floor level to discourage the placing of carpets or rugs over it (See <u>figure 1</u> or <u>2</u>).

4.9 Fireplace clearances.

4.9.1 Combustible side projections up to 75mm forward of the fixing plane of the fire are to be a minimum of 125mm from the fireplace opening (See <u>figure 4</u>).

Combustible projections up to 75mm forward of the fixing plane of the fire to be a minimum of 125mm from the fireplace opening. Projections above 75mm forward of the fixing plane of the fire to be a minimum of 178mm from the fireplace opening. Non-combustible projections to be 75mm from the fireplace opening.



FireFront	<u>Dimension 'X' (mm)</u>	<u>Dimension 'Y' (mm)</u>
Azure	400	65
Quattro / Anthem	390	65
Majestic	400	50
Portland	390	60

Figure 4. Appliance dimensions (Firefront may differ from that shown)

4.9.2 Combustible side projections greater than 75mm forward of the fixing plane of the fire are to be a minimum of 178mm from the fireplace opening (See <u>figure 4</u>).

4.9.3 Non-combustible side projections to be 75mm from the fireplace opening (See figure 4).

4.9.4 The minimum height from the base of the fireplace opening to the underside of any shelf made from wood or other combustible materials is as follows: -

- For a shelf up to 150mm deep Minimum height = 860mm.
- For a shelf deeper than 150mm
 860mm + 12.5mm for every 25mm depth over 150mm

(See <u>figure 5</u>).

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Figure 5. Combustible shelf clearances

4.10 Installation options.

In the United Kingdom, as supplied the appliance can be installed in the following situations: -

4.10.1. 'Hole-in-the-wall' Installations

For installation without the Spanish basket casting.

• It is recommended that a hearth should be installed as in figure 1.

For installation with the Spanish basket casting.

• It is recommended that a hearth should be installed as in figure 2.

For installation with and without the Spanish basket casting.

- If a hearth is not fitted or if a reduced depth hearth is fitted, the fire must be installed so that the distance from the base of the fireplace opening in the wall to the finished floor level is at least 75mm. Where there is no floor covering or carpet and the floor is of a type that is likely to be covered in such a way in the future then the distance from the base of the fireplace opening in the wall to the finished floor level should be increased to at least 150mm.
- If the lower part of the fascia (the firefront) is free standing, the recommended reduced hearth depth is 100mm. This is necessary to support the firefront.
- To protect from the risk of burns and ignition of clothing a tactile separator shall be used. The hearth detailed in <u>section 4.8</u> meets the requirements for a tactile separator. If this is not used then a 680mm long fender, kerb, horizontal bar, or other barrier, being fixed not less than 50mm above floor level and positioned 300mm in front of the fixing plane of the fire will meet the requirement.

The tactile separator can also take the form of a canopy, being fixed not more than 1000mm above floor level and positioned 300mm in front of and 150mm beyond the edge of any naked flame or incandescent part of the fire bed.

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For installations <u>without</u> the Spanish basket casting.

• To a fireplace complete with surround and hearth as shown in <u>figure 1</u> and complying with BS1251.

For installations with the Spanish basket casting.

• To a fireplace complete with surround and hearth as shown in <u>figure 2</u> and complying with BS1251.

For fireplace openings having dimensions different to those shown in <u>figure 2</u> refer to <u>figure 6</u> and BS 5871-Part 3 for flue sizes.

Into a fireplace that has a fireback of nominal size 400mm and conforming to BS1251.

Into a Replacement Chair Brick as below: -

• Quattro, Anthem, Majestic and models not supplied with a firefront

Into a Replacement Chairbrick. Part number 0552311.

• Azure model

Into a B&Q Replacement Chairbrick. Part number 0552301.

Suitable flues and minimum flue sizes are as follows: -225mm x 225mm conventional brick flue. 175mm diameter lined brick or stone flue. 200mm diameter factory made insulated flue manufactured to BS4543. 175mm diameter flue pipe. See BS6461 Part 1 for suitable materials.

The minimum effective height of the flue must be 3m. The flue must not be used for any other appliance or application.

4.11 Propane appliances.

Propane gas appliances must not be installed in a room that is built entirely below ground level (See BS 5871 Part 3).

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EXAMPLE

Fireplace opening is 0.9m wide x 0.75m high = $0.68m^2$. Then for flue height 6.0m, use a 300mm diameter flue.

NOTE 1 Where choice is possible, the smallest diameter flue should be used. Large diameter flues, particularly of short length, will be conducive to dowr draught and therefore spillage.

NOTE 2 In the case of fireplace openings served by the above chart, a fireplace opening of greater width than height will be less likely to spill than one of width and height, despite their having the same fireplace opensing areas.

Figure 6. Flue sizing table.

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5. UNPACKING

Contents:

- 1 Burner assembly.
- 1 Nut & olive for 8mm inlet pipe.
- 4 Screws.
- 4 Plastic screw plugs.
- 1 Fuel bed matrix support plate.
- 2 Self tapping screws.
- 1 Inlet 'T' connector / elbow.
- 1 Ceramic fuel effect pack.
- 1 Burner tray trim (Not fitted to Anthem or Quattro models).

For models supplied with a firefront

1 Firefront and ash pan cover (Where applicable).

Carefully remove the contents. Take special care in handling the ceramic fuel effect pieces. Check that all the listed parts are present and in good condition.

6. INSTALLATION OF APPLIANCE

INSTALLATION

6.1 Fireplace size.

The fireplace must comply with the requirements described in section 4.

6.2 Fireplace flue pull.

Visually inspect the flue for any obstruction, and that a smooth transition from the fireplace opening into the flue is available. Close all doors and windows in the room in which the appliance is to be installed. After confirming with a match that smoke is drawn into the flue, light a 13 gram smoke pellet and check that there is a definite flow through the flue. Verify outside that the smoke exits from one terminal only and that the termination is suitable. Observe, where possible, upstairs rooms and loft spaces for signs of escaping smoke indicating a defective flue. If there is not a definite flow warm the flue for a few minutes and repeat the smoke pellet test. If there is still no definite flow the flue may need remedial work – **Do not fit the appliance until there is a definite flow through the flue.**

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6.3 Installation of the burner unit

6.3.1 Prior to installation of the burner the rear ceramic support bracket must be fitted (See <u>figure 7</u>). Secure with two self-tapping screws but do not over-tighten as these will have to be removed again when installing the burner.



Figure 7. Fitting the rear support plate

6.3.2 Burner Tray trim.

- The trim is **not** to be fitted to Anthem or Quattro models.
- The fire is supplied with a burner tray trim. Fit the trim as in figure 8.



Figure 8. Burner tray trim

6.3.3 Burner Positioning.

The two tags at the side of the burner can be folded against the side of the burner tray. This may be required for installations where the width of the fireplace opening is restricted or when fitting into a 'Spanish Basket' casting (See <u>figure 9</u>).



Figure 9. Burner tags

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For installations without the 'Spanish Basket' casting.

• Place the burner unit centrally within the fireplace opening. Position the burner to the rear of the opening, this may be moved forward providing the front of the burner tray trim does not protrude beyond the front plane of the fireplace opening by more than 33mm (See <u>figure 10</u>).



PLANE OF FIREPLACE. (DO NOT MOVE FORWARD BEYOND THIS POINT)

Figure 10. Burner positioning

For installations with the 'Spanish Basket' casting.

- Place the casting centrally within the fireplace opening. Position the casting to the rear of the opening.
- Place the burner unit inside the casting.
- It is important that the burner tray trim touches the inner front face of the casting. This will give the customer greater access to the control knob.
- The casting and burner may be moved forward providing the front of the burner tray trim does not protrude beyond the front plane of the fireplace opening by more than 33mm (See <u>figure 10</u>).

6.3.4 Locating the burner.

Mark onto the floor, the position of the two fixing holes in the front fixing bracket (See <u>figure 11</u>).



Figure 11. Locating the burner

• Without disturbing the burner, remove the two screws at the rear of the burner tray (See <u>figure 12</u>).



Figure 12. Screw removal

These secure the rear ceramic support bracket to the burner tray.

- Hold the ceramic support bracket in place. Lift and remove the burner.
- The base of the rear ceramic support bracket has two holes. Mark their positions onto the floor.
- Drill all four marked hole positions with a 6mm masonry drill bit.
- Insert a wooden plug into each hole.
- Unscrew the fixing bracket from the front support leg of the burner.

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- Using 4 screws secure the front fixing bracket and ceramic support bracket to the base of the floor.
- Locate the burner onto the rear ceramic support bracket ensuring that the control knob bracket sits in front of the front support bracket. Secure the burner to the ceramic support bracket using the two screws removed previously. Secure the burner to the front securing bracket using the screw removed previously.

7. BURNER AND SUPPLY PIPE INSTALLATION

A nut and olive is provided for an mm pipe inlet connection directly to the gas control. The inlet 'T' connector / elbow can be rotated to allow a connection from any direction. The inlet 'T' connector includes a valve for isolating the gas supply. Note that the centre of the appliance inlet 'T' connector is 25mm above the fireplace floor. The inlet 'T' connector should be fitted to the supply pipe at this stage. The supply pipe must be rigid material. Flexible pipe must not be used. Connect the supply line to the appliance.

Turn on the gas supply and pressure check the installation pipework for gas soundness. In the United Kingdom (GB) check in accordance with the current edition of BS 6891. In the Republic of Ireland check in accordance with the current edition of IS 813 "Domestic Gas Installations".

7.1 Preliminary burner checks.

Some burner operations can be checked at this stage. Checking now will mean that less disassembly will be required if any problems are found. **A full check should still be made, however, after final installation.**

7.1.1 Lighting the fire

If closed, open the isolating inlet 'T' connector. Depress the control knob and slowly rotate it anticlockwise to the pilot ignition position. A 'click' will be heard as the integral piezo operates. A spark should be seen between the electrode and pilot tip. Turn the control knob clockwise to the 'Off' position. Repeat this operation until a flame appears at the pilot. There may be a delay before the pilot lights due to air being purged from the system. When a flame appears at the pilot keep the control knob depressed and hold the pilot ignition position for ten seconds. When the control knob is released the pilot flame should remain lit.

7.1.2 Operating the burner.

When the pilot burner is operating properly, gradually turn the control knob anticlockwise to 'HIGH' (Depress the knob slightly to get past the pilot ignition position). The main burner should now light. Depress the control knob slightly to release from the 'HIGH' position and turn back (clockwise) to 'LOW'. While turning, the burner flames should gradually become lower but remain alight. Depress the control knob slightly to release from the 'LOW' position and turn back (clockwise) to the 'pilot ignition' position. The main burner should extinguish but the pilot should remain alight. Depress the control knob slightly and turn back (clockwise) to turn OFF.

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This will extinguish the pilot.

7.1.3 Checking the inlet pressure.

The appliance is pre-set to give the correct heat input at the inlet pressure shown in <u>section 3</u> of this manual. No adjustment is necessary.

1. Ensure that the fire is OFF. Check the inlet pressure by fitting a pressure gauge at the test point. The test point is on the inlet 'T' connector (See <u>figure 13</u>). Check the pressure with the appliance alight and set at maximum output.



Figure 13. Pressure test point

2. After checking, turn off the appliance. Remove the pressure gauge and replace the test point sealing screw.

3. Relight the appliance. Turn to the maximum output position and test around the sealing screw for gas soundness with a suitable leak detection fluid.

8. FITTING THE FIREFRONT

Before fitting the fascia ensure that the information on the <u>back pages of the owner guide</u> have been completed.

8.1 For models <u>NOT</u> supplied with a firefront.

A slotted firefront with a **minimum** free area as shown in <u>figure 14</u> must always be used.



Figure 14. Firefront minimum open area requirements

8.2 For models <u>SUPPLIED</u> with a firefront.

The firefront supplied with this fire has been tested and found to be satisfactory for use with this fire. The open area may differ slightly from that shown in <u>figure 14</u>.

Place the decorative firefront on the hearth and central to the appliance.

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Quattro / Anthem firefront only.

1. The Quattro / Anthem firefront is fitted with a set of fixing brackets. Each bracket has two threaded holes. As supplied the top threaded hole should be fitted with a 25mm long machine screw. Remove the machine screw and locate to the threaded hole below.

2. The screw should be set at a distance of 7mm (Measured from the surface of the bracket to the underside of the screw head). Adjust the screw to this distance (See <u>figure 15</u>).



Figure 15. Bracket locations

3. Locate the firefront as in <u>figure 16</u>. The screw heads should locate into the slots in the burner tray.



Figure 16. Hanging the firefront

4. The lower "ash pan" casting should be located as in <u>figure 17</u>.



Figure 17. Lower "ash pan" location.

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9. FITTING THE CERAMIC FUEL EFFECT

The installer and owner guide for the ceramic fuel effect is supplied with the ceramic fuel effect. It is important that the fitting guide for the ceramic fuel effect be placed inside or attached to this guide and handed to the customer following completion of the 'Final review' section.

10. FULL OPERATING CHECKS

10.1 Spillage check.

• A spillage check must be made before leaving the installed appliance with the customer. Make this with all the ceramic fuel effect pieces and firefronts / castings are in position (See <u>figure 18</u>).



Figure 18. Spillage check

- Close all doors and windows in the room containing the appliance. Light the appliance and set the control to the 'HIGH' position. Leave the appliance on for five minutes. See lighting instructions within section 7 of this guide.
- The end of the smoke match should be level with the front face of the fireplace opening.
- The installation is satisfactory if the smoke is drawn into the fireplace opening. If the smoke is not drawn into the fireplace opening, leave the appliance alight at the maximum setting for a further ten minutes and then repeat the test. If smoke is still not drawn into the appliance **disconnect the appliance and seek expert advice.**
- If the above test is satisfactory, open all internal connecting doors, hatches, etc. in the room. Keep all doors and windows that open to the outside of the building closed. Switch on any extractor fan installed in the same room as the appliance or a connecting room. Open all doors and other openings between the fan and the appliance. Recheck for spillage as above. If the smoke is drawn into the appliance, continue with the installation.

If the test is not satisfactory, **disconnect the appliance and advise the customer of the cause of failure.**

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10.2 Flame Supervision & Spillage Monitoring System.

The pilot unit incorporates a system that will automatically shut off the gas supply if the pilot flame goes out or if there is insufficient oxygen due to spillage or lack of ventilation.

Check that the system operates properly as follows:

- Light the appliance. Set at the "HIGH" position and leave for one minute.
- Turn back to "OFF" to extinguish the pilot. Note the time when the pilot goes out. Listen for a snap sound at the gas tap. Note the time when the sound is heard. An electromagnetic valve shutting off the gas supply through the tap causes this sound. The valve is located in the body of the tap. The valve should operate within 60 seconds of the pilot going out. If the valve does not operate within this time limit do not allow the appliance to be used until the fault has been corrected.

This monitoring system must not be adjusted, bypassed or put out of operation. This monitoring system, or any of its parts, must only be exchanged using authorised parts.

10.3 Final Review.

1. ENSURE THAT YOU HAVE COMPLETED THE INFORMATION IN THE WARRANTY AND SERVICE SECTION OF THE OWNER GUIDE (See <u>last pages of the OWNER guide</u>).

2. Visually inspect the appliance. Clean off any marks incurred during installation.

3. Hand this guide to the customer.

4. Stress that no extra ceramic fuel effect pieces must be added over and above those supplied with the appliance and that any replacements must only be authorised spares. Warn that ignoring this advice could cause incomplete clearance of the products of combustion with consequent health hazards.

5. Advise the customer how to operate the appliance. Point out that lighting instruction details are contained within the owner guide.

6. Explain that this appliance is fitted with an atmosphere-sensing device, ODS pilot unit that will automatically shut off the supply of gas to the fire if, for any reason, the flames go out. It will also shut off the gas supply if the flue is blocked or if there is not enough ventilation. If this device does operate or if the fire is turned off accidentally or intentionally, always wait three minutes before attempting to relight.

7. Advise the customer that the fire front and ceramic fuel effect pieces can be cleaned as described in the owner guide and that the ceramic fuel effect pieces must be replace as described in the installer and owner guide for the ceramic fuel effect.

8. Recommend that the appliance should be serviced and the chimney inspected by a competent person at least annually.

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11. SERVICING & PARTS REPLACEMENT

Always turn off the gas supply and allow to cool completely before commencing any servicing (The appliance inlet 'T' connector incorporates an isolating valve).

It is recommended that, at least once a year, the appliance is disconnected and the fireplace opening checked and cleared of any debris. This product uses fuel effect pieces containing Refractory Ceramic Fibres (RCF), which are man-made vitreous silicate fibres. Excessive exposure to these materials may cause irritation to eyes, skin and respiratory tract. Consequently, it is important 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 you use a HEPA filtered vacuum to remove any dust and soot accumulated in and around the fire before and after working on the fire. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within a heavy duty polythene bag, clearly labelled as RCF waste. RCF waste is classed as a stable, non-reactive hazardous waste and may be disposed at a landfill licensed to accept such waste. Protective clothing is not required when handling these articles, but we recommend you follow the normal hygiene rules of not smoking, eating or drinking in the work area and always wash your hands before eating or drinking.

- Check that the appliance is clean and that soot or debris is not blocking the gaps between the ceramic fuel effect pieces causing an imperfect flame.
- Check that soot or debris is not impairing the electrode spark or pilot burner.
- Check that soot or debris is not blocking any of the slots in the main burner.
- After servicing, make sure that the ceramic fuel effect pieces are replaced correctly as described in the installation instructions.
- Always test for gas soundness and spillage after servicing the appliance.

11.1 Checking the aeration setting of the burner.

1. The aeration shutter is factory set and should not require adjustment. If the shutter is not as shown in <u>figure 19</u> and requires adjustment, loosen the two aeration shutter screws, slide the aeration shutter to the position shown in <u>figure 19</u> and tighten the fixing screws.



Figure 19. Aeration shutter setting

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11.2 To remove the complete burner unit.

- **1.** Remove the firefront and place in a safe position.
- **2.** Remove the ceramic fuel effect.
- 3. Close the valve in the inlet 'T' connector / elbow.
- 4. Disconnect the appliance from the inlet 'T' connector.
- 5. Remove the front leg fastening screw. This is located to the left of the control knob.
- 6. Lift the burner out of the fireplace opening.
- 7. Replace in the reverse order.

11.3 To remove the pilot unit.

- 1. Remove the burner unit (See section 11.2).
- 2. Detach the pilot pipe from the pilot unit.
- **3.** Detach the thermocouple from the gas valve.
- 4. Detach the electrode lead from the underside of the electrode tab.
- 5. Remove the two screws securing the pilot unit (See figure 20).



Figure 20. Pilot unit removal

6. Refit in the reverse order.

Note: The pilot unit is an atmosphere sensing device. It must be replaced as a whole assembly. Its individual components are not separately replaceable.

11.4 To remove the gas valve.

(See <u>figure 21</u>).



Figure 21. Gas valve (Viewed from rear with burner turned over)

1. Remove the burner unit (See section 11.2).

2. If lying the burner on its back, ensure that the work surface is suitably protected. This will avoid damage to the work surface. Turn the burner unit upside down. Detach the thermocouple from the tap.

- **3.** Detach the pilot pipe from the tap.
- 4. Detach the inlet pipe.
- 5. Detach the injector pipe.
- 6. Detach the electrode lead from the base of the electrode.
- 7. Remove the control knob by pulling forward.
- **8.** Remove the thermocouple by unscrewing the thermocouple nut at the gas valve.
- 9. Remove the hexagonal nut securing the gas valve to the mounting bracket.
- **10.** Remove the gas valve.
- **11.** Refit in the reverse order.

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11.5 To remove the piezo generator.

- 1. Remove the gas valve as in <u>section 11.4</u>.
- 2. Make sure that the tap is in the off position.
- 3. Remove the circlip holding the piezo unit to the tap. Remove the piezo unit.
- 4. Replace in the reverse order.

11.6 To grease the control tap.

1. Detach the tap and remove the piezo generator as <u>section 11.5</u> making sure that the tap is in the off position.

2. Remove the two screws from the head of the tap. Remove the niting head and spindle complete with collar and spring.

3. Note the position of the slot in the plug-mark its position on the tap body.

4. Remove the plug rotating slightly while pulling.

5. Clean and grease the plug lightly with suitable grease. Do not apply excessive grease. Particularly, make sure that the gas ports in the tap are not restricted by grease.

6. Push the plug into the tap body and position the slot in line with the mark previously made on the tap body.

7. Reassemble the niting head and spindle complete with collar and spring making sure that the components are correctly engaged. Check the operation of the tap.

8. Refit the piezo generator.

11.7 To replace the burner.

(See figure 22).



Figure 22. Removal of burner

- 1. Remove the burner unit (See section 11.2).
- 2. Support the elbow injector and unscrew the injector nut.
- 3. Remove the two screws from the burner clamping plate (See figure 22).
- **4.** Lift the right hand side of the burner, slide it to the right and lift clear.
- **5.** Refit in reverse order.

11.8 To remove the main burner injector.

(See figure 23).



Figure 23. Main burner Injector removal

- **1.** Remove the burner (See <u>section 11.7</u>).
- 2. Remove the burner clamping screw (See figure 23).
- 3. Unscrew the injector from the burner.
- 4. Refit in the reverse order.

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OWNER GUIDE

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This gas fire is designed to meet the most stringent quality, performance and safety requirements to provide you with many years' trouble-free service.

This guide aims to improve your understanding and appreciation of your gas fire by providing simple and informative instructions to ensure that you benefit from the excellent performance and features it has to offer.

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SAFETY

IF YOU SMELL GAS

- DON'T SMOKE.
- EXTINGUISH ALL NAKED FLAMES.
- DON'T TURN ELECTRICAL SWITCHES ON OR OFF.
- TURN OFF THE GAS SUPPLY AT THE METER OR TANK AS APPROPRIATE.
- OPEN DOORS AND WINDOWS TO GET RID OF THE GAS.
- IMMEDIATELY CALL THE GAS EMERGENCY SERVICE FROM A NEIGHBOURS PHONE - SEE YOUR LOCAL TELEPHONE DIRECTORY.

Do have the fire installed by a competent person. In the United Kingdom, installation must be in accordance with the latest edition of the Gas Safety (installation & use) Regulations. In the Republic of Ireland, installation must be in accordance with all national and local regulations in force.

Do have the chimney swept prior to installation if it was previously used for solid fuel.

Do have the fire installed in accordance with the installation guide.

Do provide a minimum clearance of 860mm from the base of the fireplace opening to any shelf made of wood or other combustible material where the shelf is not more than 150mm deep. For a shelf deeper than 150mm, add 12.5mm to the clearance for every 25mm of additional shelf depth (See <u>figure1</u>).



Figure 1. Combustible shelf clearances

Do provide a suitable guard that complies with BS 8423 for the protection of young children, the elderly, the infirm and pet animals. (Although this fire conforms to all the applicable standards, it is a heating appliance and certain parts of its surface will become hot).

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Do wait three minutes before attempting to relight if the fire is switched off or the flames are extinguished for any reason. (Your fire is fitted with a safety device that will automatically shut off the gas supply to the fire if, for any reason, the flames go out).

Do get advice about the suitability of any wall covering near your fire. Soft wall coverings (e.g. embossed vinyl, etc.) which have a raised pattern are easily affected by heat. They may, therefore, scorch or become discoloured when close to a heating appliance. Please bear this in mind whenever you are considering redecorating.

Do provide a minimum side clearance as detailed in <u>figure 2</u>. Please bear this in mind if ever you are considering altering the room.

Don't hang clothing, towels or any other fabrics over the front of the fire.

Don't add any extra ceramic fuel effect pieces above the number stated in the installer and owner guide supplied with the ceramic fuel effect. This should have been placed inside or attached to this guide by the installer. This could cause incomplete combustion and consequent safety hazard.

Don't put paper or any other material on the fire.

Don't place any combustible material (rugs, carpet, plastic tiles, etc.) on the hearth.

Don't attempt to clean or service the fire until it has been switched off and allowed to cool completely.

GAS CONSUMPTION

Model 939

Has a maximum natural gas input of 6.85kW (Gross) Has a minimum natural gas input of 2.3kW

Model 939 when converted using kit number 0595211

Has a maximum propane gas input of 6.7kW (Gross) Has a minimum propane gas input of 4.0kW

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APPLIANCE DIMENSIONS

Combustible projections up to 75mm forward of the fixing plane of the fire to be a minimum of 125mm from the fireplace opening. Projections above 75mm forward of the fixing plane of the fire to be a minimum of 178mm from the fireplace opening. Non-combustible projections to be 75mm from the fireplace opening.



<u>FireFront</u>	<u>Dimension 'X' (mm)</u>	Dimension 'Y' (mm)
Azure	400	65
Quattro / Anthem	390	65
Majestic	400	50
Portland	390	60

Figure 2. Appliance dimensions (Firefront may differ from that shown)

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OPERATING THE FIRE

PLEASE NOTE

When operating your fire for the first time, some vapours may be given off which may cause a slight odour and could possibly set off any smoke alarms in the immediate vicinity. These vapours are quite normal with new appliances. They are totally harmless and will disappear after a few hours use.

The Oxysafe flame sensing & flue blockage safety system.

For your safety, this appliance is fitted with a flue blockage safety device that will shut down the appliance in the event of abnormal flue conditions. This device is NOT a substitute for an independently mounted Carbon Monoxide detector.

The device will also automatically shut off the gas supply to the fire if the pilot flame goes out due to lack of oxygen or for any other reason.

If this device starts to repeatedly shut off the gas, get expert advice.

This device incorporates a probe that senses that the heat from the pilot flame is correct. If this probe is cool, the device will prevent any gas flow unless the control knob is held in at the ignition position.

If, for any reason, the flames go out when the fire is hot or if the fire is turned off when hot, always **wait at least three minutes before attempting to relight.**

To light the fire.

Depress the control knob and slowly rotate it anticlockwise to the pilot ignition position. A 'click' will be heard as the integral piezo operates. A flame should appear at the pilot. Keep the control knob depressed and hold the pilot ignition position for ten seconds. When the control knob is released the pilot flame should remain lit. If a flame does not appear at the pilot then turn the control knob clockwise to the 'OFF' position and repeat the above.

When the pilot burner is operating properly, gradually turn the control knob anticlockwise to 'HIGH' position. (Depress the knob slightly to get past the pilot ignition position). The main burner should now light. Depress the control knob slightly to release from the 'HIGH' position and turn back (clockwise) to 'LOW'. While turning, the burner flames should gradually become lower but remain alight. Depress the control knob slightly to release from the 'LOW' position and turn back (clockwise) to the Pilot ignition position. The main burner should extinguish but the pilot should remain alight. Depress the control knob slightly and turn back (clockwise) to turn OFF. This will extinguish the pilot.



Figure 3. Lighting the fire

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While cooling, the ceramic fuel effect may make some crackling noises. This is quite normal.

- If the flames go out while setting the control, repeat the full lighting procedure.
- If the flames repeatedly go out have the fire serviced.
- Please note. When first turned on the flames will appear predominantly blue. The ceramic fuel effect will take time to warm up. Although some glow will be seen after approximately ten minutes, the full visual effect will only be apparent after a somewhat longer time.
- The appliance will operate to its maximum potential if the flue is primed during the first 20 – 30 minutes of operation. To do this, simply turn the control knob to its 'HIGH' setting. This will also burn off any carbon deposits that may have formed during previous operations.
- If operating the appliance for long periods it is beneficial occasionally to change the settings. This will also help to remove any carbon deposits that may form during operation.

Lighting with a taper.

See figure 4.



Figure 4. Lighting with a taper (The fuel effect may differ from that shown)

In the unlikely event of failure of the ignition spark, the pilot can be lit by a taper or long spill. Insert the taper or spill between the second and third left hand ceramic fuel effect pieces on the first row. Operate the control knob as described in the section headed <u>'To light the fire'</u>.

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CLEANING

Turn the fire off and allow it to cool completely before attempting any cleaning. Note that the fire will retain heat for some time after it has been turned off.

If large pieces of debris are found anywhere in the fireplace, have the chimney inspected before further use.

Metal parts.

Clean the metal parts with a slightly damp cloth and then dry. **Do not use abrasive cleaners**, **they could scratch the surface**.

Ceramic fuel effect .

This product uses fuel effect pieces containing Refractory Ceramic Fibres (RCF), which are man-made vitreous silicate fibres. Excessive exposure to this material may cause

irritation to eyes, skin and respiratory tract. Consequently, it is important to take care when handling these articles to ensure that the release of dust is kept to a minimum.

- Light coatings of soot will usually be burnt off during the normal operation of the fire.
- Should any soot accumulation become excessive, the ceramic fuel effect pieces should be removed from the fire for cleaning.
- Cleaning should be carried out in a well-ventilated area or in the open air by gently brushing with the pieces held away from your face so that you avoid inhaling the dust.
- We do not recommend the use of a normal domestic vacuum cleaner that may blow dust back into the air.
- We suggest that you remove the ceramic fuel effect pieces in the reverse order to that shown in the installer and owner guide supplied with the ceramic fuel effect. This should have been placed inside or attached to this guide by the installer.

Burner.

Remove any deposits of soot or other foreign matter from the burner with a dry soft brush. Be careful not to brush any particles into the open slots. Remove any particles from the slots with a vacuum cleaner fitted with a soft brush attachment. **Do not poke wire, etc. into the slots in the burner.**

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CERAMIC FUEL EFFECT REFITTING

The installer and owner guide for the ceramic fuel effect is separate from this guide.

The installer may have attached it to this guide or placed it inside. It is important that the installer and owner guide for the ceramic fuel effect is followed correctly. If replacing the ceramic fuel effect, where a new guide is supplied, follow the installer and owner guide supplied with the replacement fuel effect.

Keep the replacement installer and owner guide with this owner guide for future reference.

FITTING THE LOWER FIREFRONT

Decorative firefront.

For Quattro / Anthem firefronts please see section below.

To remove the firefront, remove the 'ash pan' (where applicable) and then lift the firefront clear.

To fit the firefront simply place the decorative firefront on the hearth and centralise to the appliance. Then fit the 'ash pan' (where applicable).

Quattro and Anthem firefront only

Note: Before removing the Quattro / Anthem firefront it is necessary to remove the ceramic fuel effect.

- Remove the fuel effect carefully and place aside. We recommend that the fuel effect is removed in the reverse order to that shown in the fitting sections.
- Remove the lower 'ash pan' (Where applicable).
- Lift the firefront clear of the burner.
- To fit the firefront, locate the firefront as in <u>figure 5</u>. The hooks should fit into the slots on the burner tray.



Figure 5. Hanging the firefront

• The lower 'ash pan' should be located as in figure 6.



Figure 6. Lower "ash pan" location

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MAINTENANCE

Regular maintenance.

In order to achieve and maintain high levels of personal safety and performance efficiency, it is essential that the opening at the back of the fire and the flue are kept clear of any form of obstruction. It is possible that deposits of mortar or soot could fall and accumulate causing the flue to be blocked or restricted and so preventing proper clearance of dangerous exhaust fumes.

In the United Kingdom it is the law that a landlord must have any gas appliance, flue and pipework which is situated in a tenant's premises checked for safety at least every twelve

months by a competent person (In the UK a GAS SAFE REGISTER engineer, Outside of the UK a CORGI or GAS SAFE REGISTER engineer).

We recommend that all gas appliances and their flues, wherever situated, are checked annually.

• When fitting replacement parts it is important that only approved parts are used for maximum safety.

WARRANTY AND SERVICE

Standard Warranty Terms & Conditions

The warranty is for 12 months subject to contract.

In the United Kingdom servicing can be carried out either by a **heateam** service engineer or a **GAS SAFE REGISTER** engineer. Outside of the United Kingdom servicing can be carried out either by a **CORGI** or **GAS SAFE REGISTER** engineer. You must register your fire with **heateam**, the service division of Baxi Heating UK Limited, either by completing and returning the registration card or calling our free telephone registration line on **0800 032 72 44**.

It is also a requirement of the warranty that the fire has an annual service (every 12 months) in accordance with the installation and servicing instructions, performed by a GAS SAFE REGISTER engineer, (CORGI or GAS SAFE REGISTER outside of UK), please call on **0844 8711 525**.

Our promise to you

If you experience a fault with your new fire, we aim to provide a safe and high quality repair service supported by our dedicated national network of highly skilled engineers. If your installer can't resolve the problem for you, we will do everything we can to get an engineer out to you as quickly as possible. Nothing in this warranty will affect your statutory rights.

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What you need to do if you experience a problem with the operation of the fire:

- You should always contact your installer first, because the cause of the fault may not be related to the fire.
- If your installer confirms that the fault is with the fire and they can't repair it, our friendly customer service team is on hand to help.
- Simply call our service division heateam on **0844 8711 565** to book an engineer visit or for any general advice that you may need. Our contact centre is open Monday to Friday

8am – 6pm, weekends and Bank Holidays 8.30am – 2pm, excluding Christmas Day and New Years day.

When calling heateam, it would be helpful if you could have the following information to hand:-

1. Fire serial number and fascia code (Located on the information label - See <u>figure 7</u> on page 43)<u>*</u>.

- 2. Date of installation.*
- 3. Your installer name and address details.*
- 4. Fire make and model number.*
- 5. Proof of purchase (if you do not have the fire serial number).

*Note: Details 1 – 4 should be recorded on pages 42 & 43 at the end of this guide.

What this warranty covers

Free of charge repair or replacement of components found to be of faulty manufacture.

Free of charge replacement of the complete unit providing the failure is related to a manufacturing fault that cannot be repaired or is uneconomic to repair.

What this warranty does not cover

Repairs to fires which haven't been installed and commissioned properly and as set out in the installation instructions.

Faults caused by inadequate supply of gas or electricity (where applicable).

Reimbursement of any third party repair or replacement costs that we haven't been told about or agreed with you in advance.

Compensation or consequential losses (e.g. loss of earnings, business losses, stress and inconvenience) arising from a production breakdown, including repair delays caused by factors outside our reasonable control.

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Installer Details (Block Capitals)

Installer Name	
Gas Safe Register or Corgi Registration Number.	
Company Name.	
Company Address	
Company Telephone number	
Company Fax number	

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Model



Serial number (Can be found on the information label - See figure 7)





Figure 7.

A LABEL CONTAINING THE SERIAL NUMBER MAY HAVE BEEN PLACED INSIDE THIS BOX.

Fascia name (Block Capitals)



Fascia code - Can be found close to the information label (Block Capitals)





Brand (Please tick)

Baxi	
Valor	
Wonderfire	Other

Date of Installation



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