

BAXI FIRES DIVISION

OWNER GUIDE

Model 946 Heat Engine

(GC No. 32-032-63)

INSET LIVE FUEL EFFECT GAS FIRE



**THIS APPLIANCE IS FOR USE WITH NATURAL GAS (G20).
WHEN CONVERTED USING CONVERSION KIT NO. 0595231 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).**

We trust that these instructions give sufficient details to enable this appliance to be operated and maintained satisfactorily. However, if further information is required, our **Baxi Fires Division Technical Helpline** will be pleased to help. Telephone **08706 061 065** (National call rates apply in the United Kingdom). In the Republic of Ireland telephone **0044 8706 061 065**.

This guide is intended to help you care for your Baxi Fires Division gas fire. Please read thoroughly before using and keep for future reference.

This guide to be left with the owner

BAXI ● VALOR ● WONDERFIRE

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Safety First.

Baxi Fires Division fires are CE Approved and designed to meet the appropriate British Standards and Safety Marks.



Quality and Excellence.

At the heart of every Baxi Fires Division fire.

All Baxi Fires Division fires are 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

Baxi Fires Division is a member of the Society of British Gas Industries which works to ensure high standards of safety, quality and performance.



Careful Installation

Baxi Fires Division is a CORGI registered company. All our gas fires must be installed by a competent CORGI Registered Installer in accordance with our Installer Guide and should not be fitted directly on to a carpet or floor of combustible material.

B A X I F I R E S D I V I S I O N

Baxi Fires Division, 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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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

OPEN DOORS AND WINDOWS TO GET RID OF THE GAS

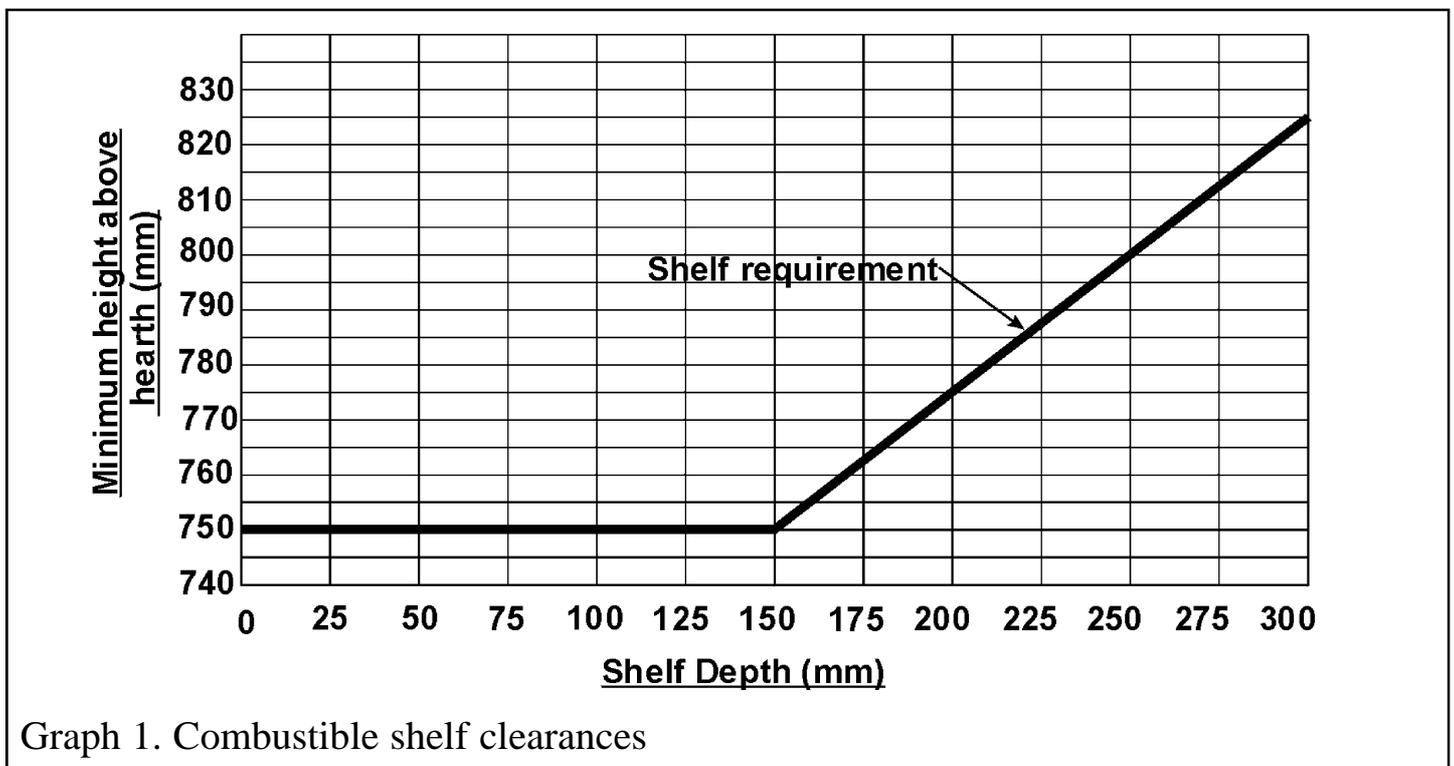
IMMEDIATELY CALL THE GAS EMERGENCY SERVICE – SEE YOUR LOCAL TELEPHONE DIRECTORY

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 instructions

Do provide a minimum clearance of 750mm from the top surface of the hearth 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 graph1).



Graph 1. Combustible shelf clearances

Do always use a fireguard complying with BS 8423 for the protection of young children, the elderly or infirm.

Do wait three minutes before attempting to relight if the fire is switched off or the

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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 flame goes 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 figure 1. Please bear this in mind if ever you are altering the room.

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

Don't put more loose ceramic fuel effect pieces on the fire than the number given in this guide or use any ceramic fuel effect pieces other than those authorised for this fire. Incorrect combustion could result.

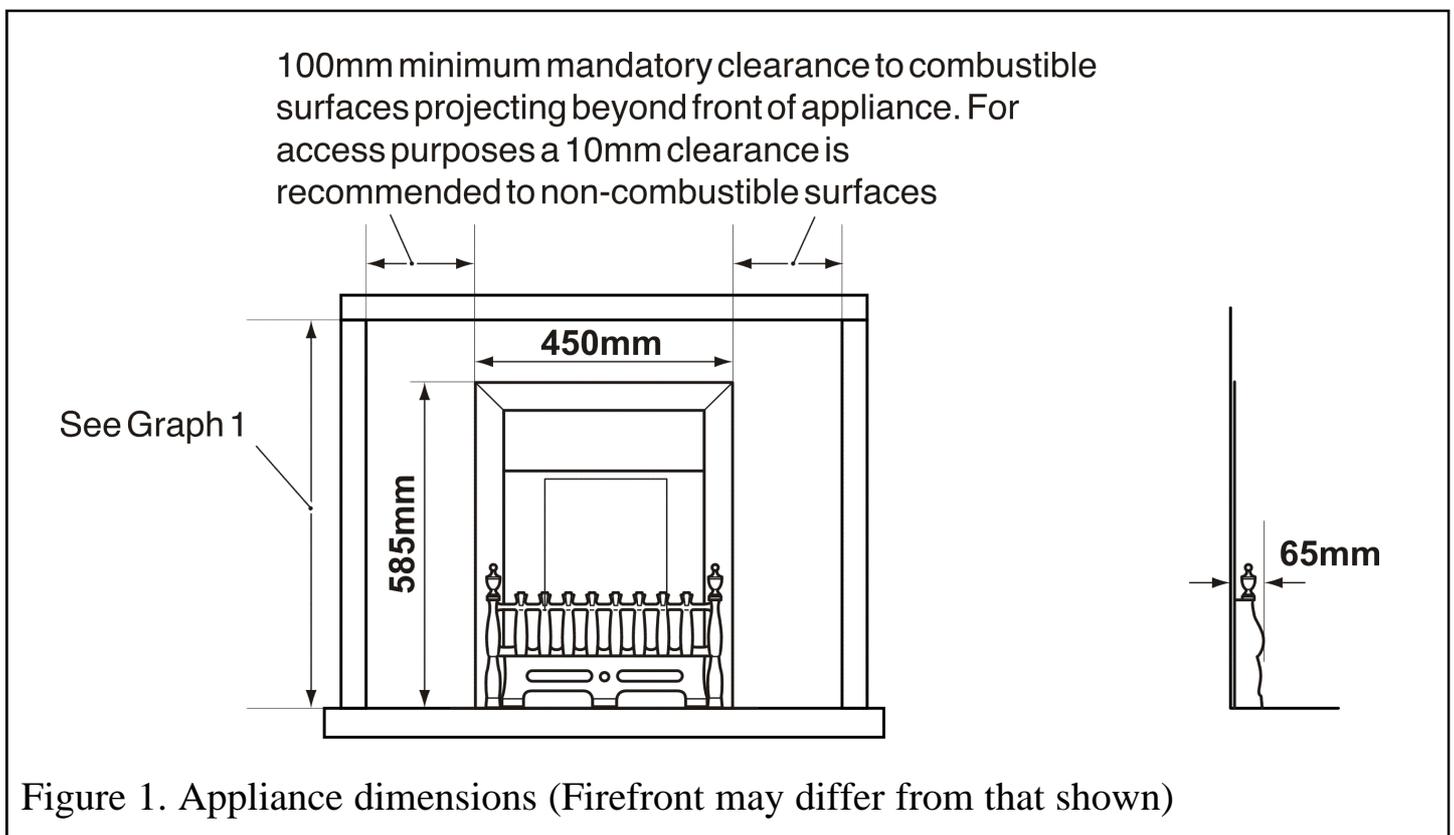
Don't put paper or other materials onto your fire.

Don't use the fire with damaged base ceramics.

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.

APPLIANCE DIMENSIONS



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GAS CONSUMPTION

Model 946

Has a maximum natural gas input of 6.0kW (Gross)

Has a maximum natural gas output of 3.0kW

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

Has a minimum natural gas output of 1.15kW

Model 946 when converted using kit number 0595231

Has a maximum propane gas input of 6.1kW (Gross)

Has a maximum propane gas output of 3.2kW

Has a minimum propane gas input of 3.8kW (Gross)

Has a minimum propane gas output of 2.0kW

OPERATING YOUR 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 and flue blockage safety system.

For your safety, this appliance is fitted with a flue blockage safety device which 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 which 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 kept depressed at the "Pilot/Ign" 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.***

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Lighting the pilot.

This fire is controlled by a 4-position gas tap mounted on the front leg of the appliance. In addition to the “OFF” position there is a pilot light and 2 heat control settings (See figure 2).

- Depress the control knob and turn anticlockwise towards the “**Pilot/Ign**” position. A spark should be generated at the pilot while turning. The spark should ignite the pilot. The pilot flame can be seen through the lower left hand opening in the front of the fuel effect bed.
- Keep the button depressed at the “**Pilot/Ign**” position for a further ten seconds. This will prevent the flame-sensing device from shutting off the gas while its probe warms up.
- If the pilot does not ignite instantly, repeat procedure. **If after 10 seconds pilot ignition has not occurred, turn the control knob back to the “Off” position, wait for 3 minutes and then repeat the ignition procedure.**

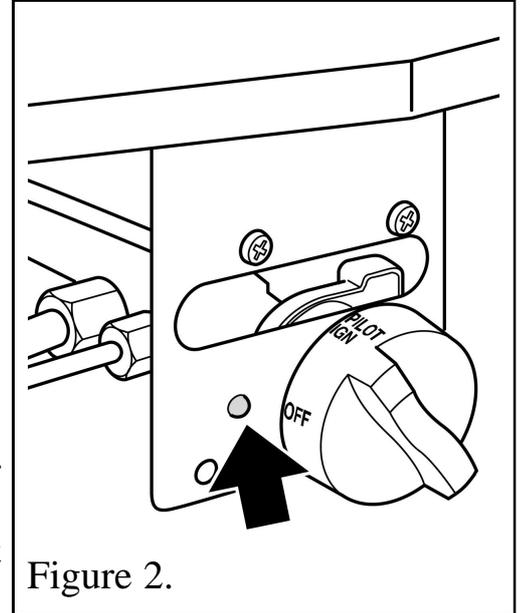


Figure 2.

Lighting the Main Burner

- Once the pilot light is established, the main burner can be lit by depressing and turning the control knob anticlockwise to the “**High**” position.

Selecting the heat setting.

- In order to change from one setting to another depress the control knob slightly and turn the knob to the required position. Any setting from “**Low**” to “**High**” may be selected.

***Note:** 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 operate the appliance at 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 to change between settings. This will help to remove any carbon deposits that may form during operation.*

Turning the fire back to pilot setting.

- Depress the control knob and turn clockwise until the pilot setting is reached.

Turning the appliance off.

- Make sure that the control knob is in the pilot position. Depress the control knob and turn clockwise to the “**Off**” position.
- **Wait at least three minutes before relighting.**

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Lighting with a taper.

(See figure 3).

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 through the lower left hand opening in the front of the fuel effect bed.

- Follow the section 'Lighting the pilot' as described previously.

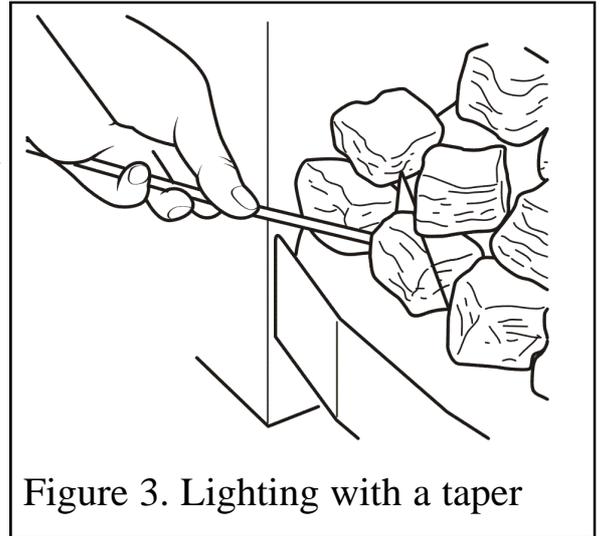


Figure 3. Lighting with a taper

CLEANING YOUR FIRE

To maintain the high performance and quality finish of your Baxi Fires Division appliance, please follow these guidelines:

- Before attempting to clean the fire, please remember to turn off the fire and wait for the appliance to cool completely. The fire will retain heat for some time before cleaning can begin.
- If any pieces of debris are found in the firebox, 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 as these will scratch the fire surface.
- **Fascia and firefront** - Clean the metal parts with a slightly damp cloth and then dry. If this does not work apply a very small amount of 'baby oil' to a lint free, non-abrasive cloth and wipe over the surface. Use a clean cloth to wipe off the oil.

Ceramic fuel effect and rear wall.

- **This product uses fuel effect pieces and burner compartment rear wall 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 fuel effect pieces and walls 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.

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- We suggest that you remove the ceramic fuel effect pieces in the reverse order to that shown in this guide.

Burner.

- The burner surface can be carefully cleaned to remove any loose particles after taking off the ceramic fuel effect pieces. Make sure that no particles are pushed into the burner holes.

CERAMIC COALS INSTALLATION

This section is for models supplied with a ‘Coal’ fuel effect only.

For ‘Pebble fuel effect’ see section headed ‘Ceramic pebble installation’.

The ceramic fuel effect may cause staining / discolouration to decorative surfaces. It is therefore advisable to protect decorative surfaces.

1. Place the base coal in the firebox (See figure 4).

2. Install the fourteen loose overlay ceramic coals as follows. The smooth surfaces of the ceramic coals should be at the bottom and back. Place five of the ceramic coals along the top of the front base coal (See figure 5). The ceramic coals should be evenly spaced. Each ceramic coal can be rotated to give a random effect. Placing the ceramic coals with flat sides facing forward will give a very uniform appearance.

Important : The front ceramic coals should not cover the opening slots in the base ceramic coal. If the opening slots in the base ceramic coal are covered by more than 2 -3 millimetres a poor flame picture will result (See figure 6).

A gap is required between the outer left hand ceramic coal and the ceramic coal to its right. This is for pilot viewing.

3. Place five loose ceramic coals on top of the first row of ceramic coals. These should

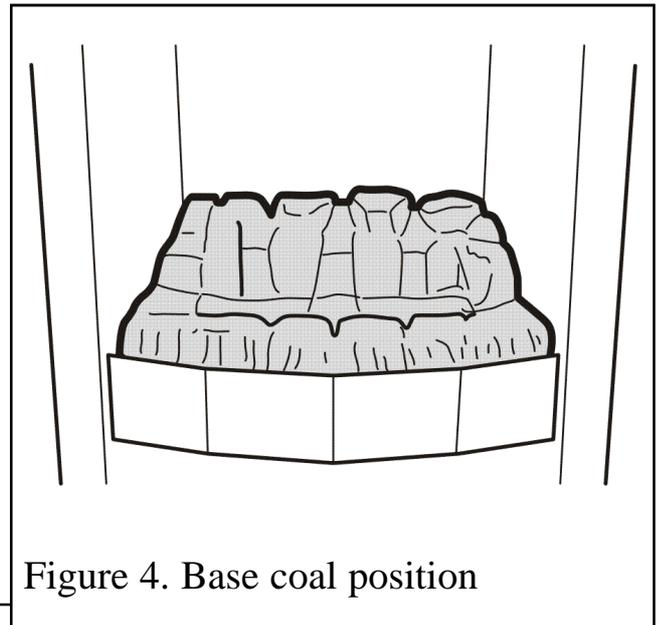


Figure 4. Base coal position

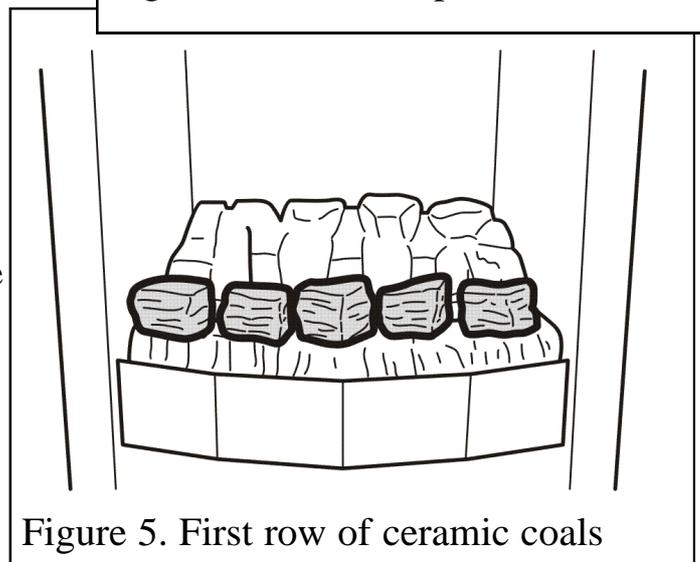


Figure 5. First row of ceramic coals

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be evenly spaced. Rest them on the ledges above the slots in the base coal (See figure 7).

4. Place the remaining four ceramic coals on top of the base ceramic coal rear (See figure 8).

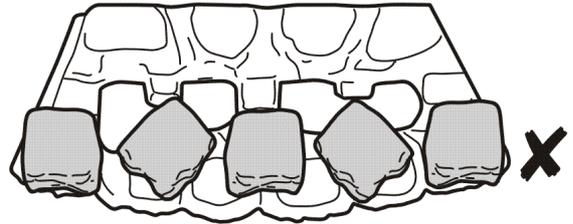
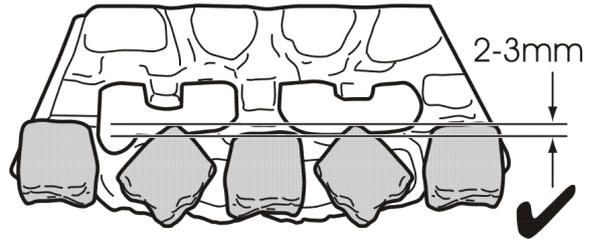


Figure 6. Ceramic coal positions

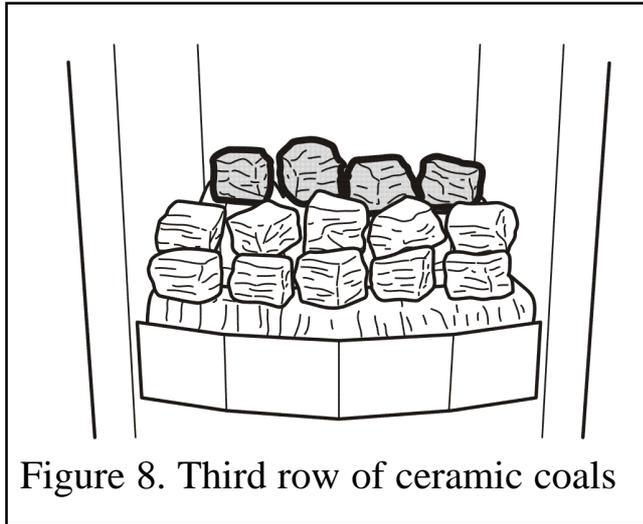


Figure 8. Third row of ceramic coals

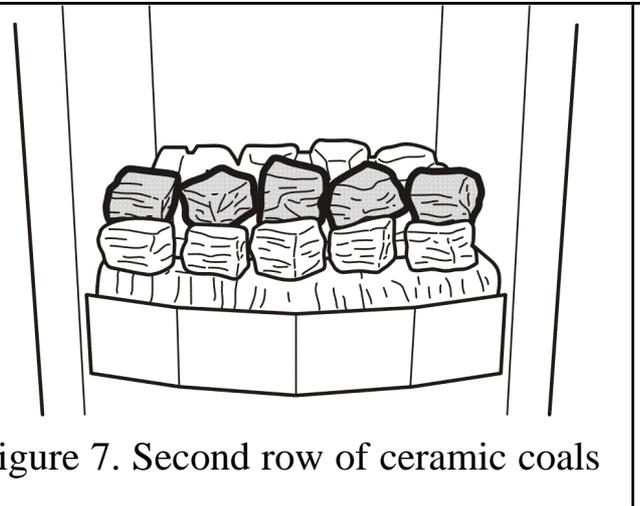


Figure 7. Second row of ceramic coals

CERAMIC PEBBLES INSTALLATION

This section is for models supplied with a ‘Pebble’ fuel effect only.

For ‘Coal fuel effect’ see section headed ‘Ceramic coal installation’.

The ceramic fuel effect may cause staining / discolouration to decorative surfaces. It is therefore advisable to protect decorative surfaces.

1. Place the base pebble in the firebox. It should rest on the ledges at the rear sides of the burner unit (See figure 9).

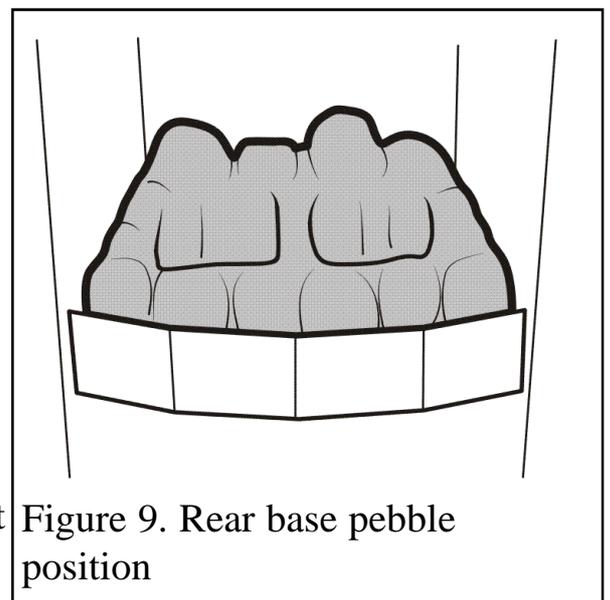


Figure 9. Rear base pebble position

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Install the 6 loose pebbles as follows. The underside of each pebble is marked with a letter 'A' to 'F' and an arrow.

2. The pebbles should be positioned so that the arrows always point towards the back of the fireplace opening. When located into position the stem of each arrow should be at 90° to the rear of the fireplace opening (See figure 10).

3. Hold pebble 'A' upright with the arrow pointing to the top. Place pebble "A" on top of the base pebble (See figure 10).

4. Hold pebble 'B' upright with the arrow pointing to the top. Place pebble "B" on top of the base pebble. (See figure 11).

5. Hold pebble 'C' upright with the arrow pointing to the top. Place pebble "C" on top of the base pebble (See figure 12).

6. Hold pebble 'D' upright with the arrow pointing to the top. Place pebble "D" on top of the base pebble (See figure 13).

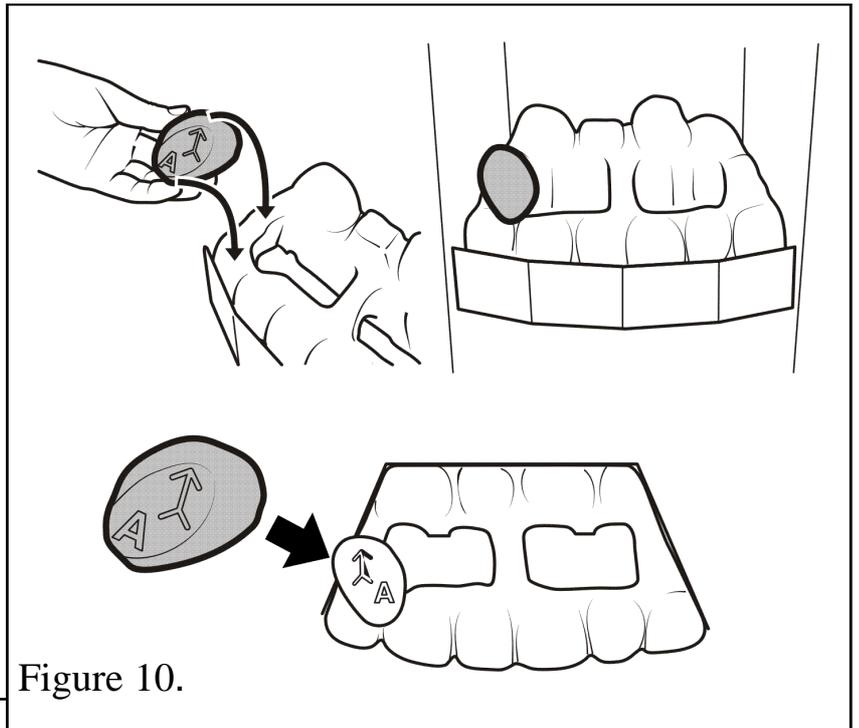


Figure 10.

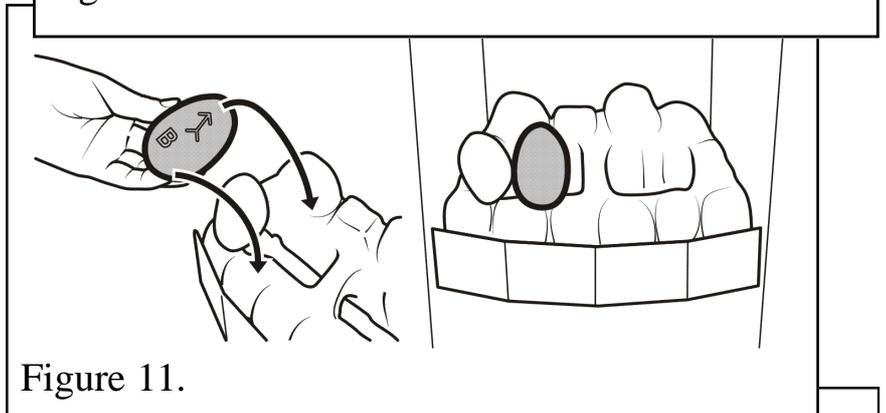


Figure 11.

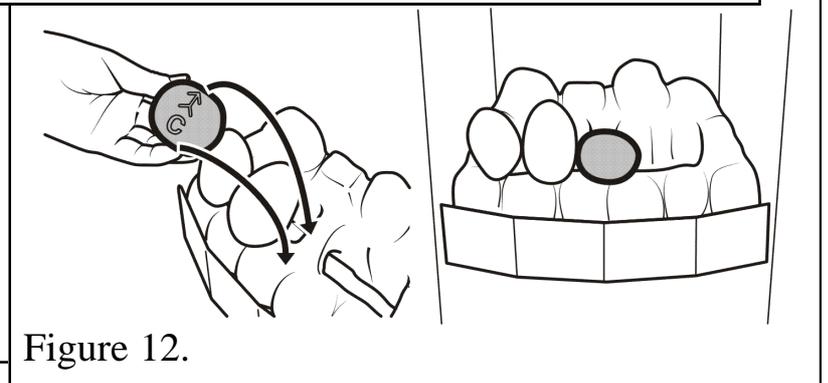


Figure 12.

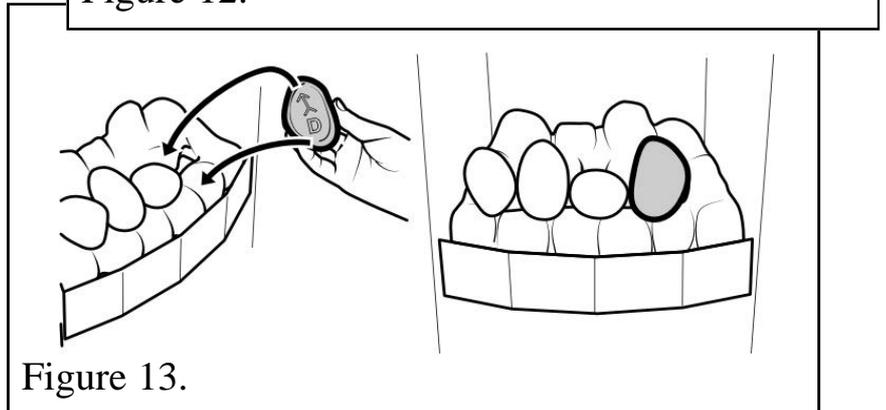


Figure 13.

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7. Hold pebble 'E' upright with the arrow pointing to the top. Place pebble 'E' on top of the base pebble (See figure 14).

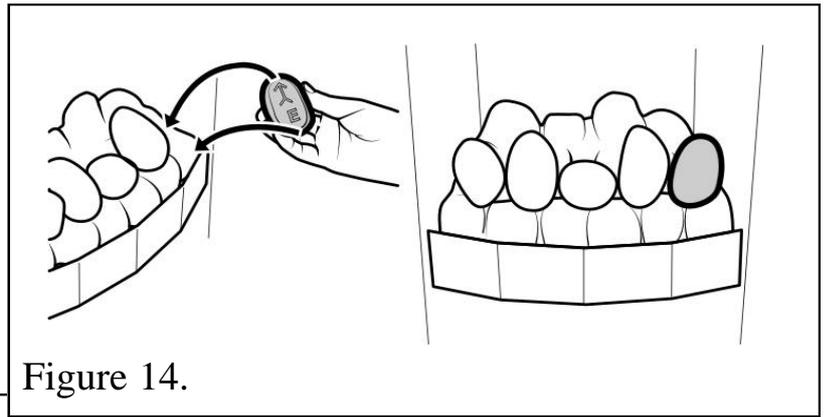


Figure 14.

8. Hold pebble 'F' upright with the arrow pointing to the top. Place pebble 'F' on top of pebble 'C'. It should rest against the rear of the pebble base (See figure 15).

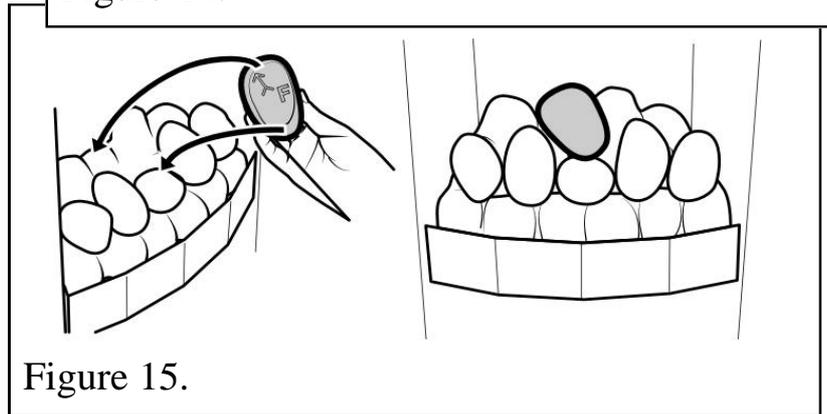


Figure 15.

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 U.K, a CORGI registered installer).

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

Servicing.

- In the United Kingdom servicing can be carried out either by a Baxi Fires Division service engineer or a CORGI registered installer.
- If you require your fire to be serviced, please contact **Baxi Fires Division Service** on **08706 090 081**.

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IMPORTANT

To help us quickly help you, please try to have the following information available before you contact us:

Type of fire.

Model/Name.

Serial Number (To be found on the plate close to the control knob).

You will also be asked for the fault, problem or request plus your Post Code.

- Spare parts are available nationwide via the ‘interpart stockist network’. For your local stockist consult Yellow Pages under ‘central heating’.
- **When fitting replacement parts, follow the instructions contained in this guide. It is important that only Baxi Fires Division approved parts are used for maximum safety.**

USEFUL TELEPHONE NUMBERS

General advice about gas and your gas fire:

BAXI FIRES DIVISION TECHNICAL HELPLINE 08706 061 065.

To report faults or arrange for your fire to be serviced:

BAXI FIRES DIVISION SERVICE 08706 090 081.

For sales or product information:

BAXI FIRES DIVISION SALES 08706 061 067.

To order spares

Spare parts are available nationwide via the ‘interpart stockist network’. For your local stockist consult Yellow Pages under ‘central heating’.

CALLERS IN THE REPUBLIC OF IRELAND

Call **0044 8706 061 064**