FLAVEL

SILVER SAPPHIRE

INSET “HOLE IN THE WALL” DECORATIVE FUEL-EFFECT GAS FIRE

Installation, Maintenance & User Instructions

Hand these instructions to the user

Model No. FSSP00MN & FSSC00MN are for use on Natural Gas (G20) at a supply pressure of 20 mbar in G.B. / I.E.

NOTE TO THE INSTALLER : Prior to commencing Installation of this product, ensure you have an M3 / M4 socket or nut runner available

CONTENTS

Model numbers **FSSP00MN & FSSC00MN** are manufactured by:-

CFM Europe Ltd
Trentham Lakes
Stoke-on-Trent
Staffordshire
ST4 4TJ

SECTION 1
INFORMATION AND REQUIREMENTS

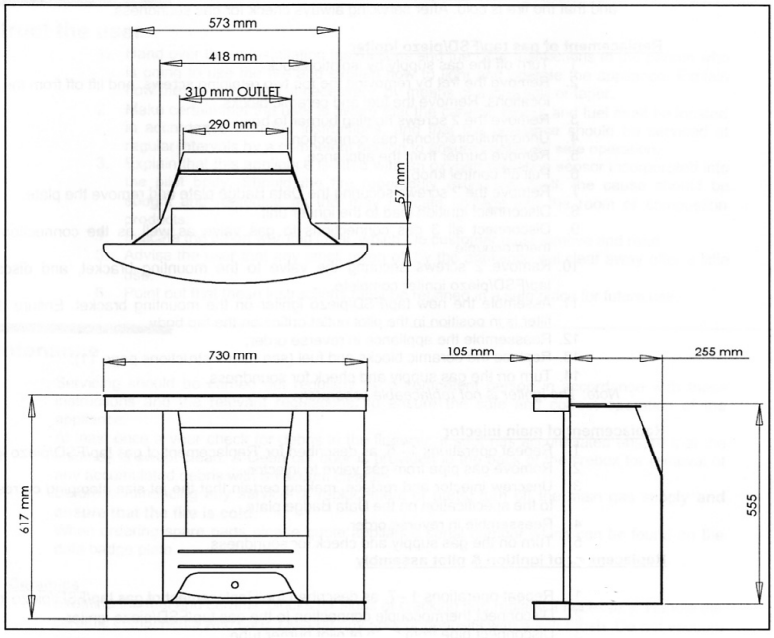
1.0 APPLIANCE INFORMATION

Main injector : (1 off)	Bray Injector Cat 82 – size 500 (NG)
Pilot Type :	Copreci ODS 21100 / 141
Max. Gross Heat Input : Min. Gross Heat Input :	6.9 kW 4.2 kW
Cold Pressure :	G20 20.0+/-1.0 mbar (8.0 +/- 0.4 in w.g.)
Ignition :	Push Button Piezo
Electrode Spark Gap :	4.0mm

Packed Weight Combustion Chamber : 28.0 kg

Fig 1.

Top View of Combustion Chamber **Side View of Combustion Chamber**



INSTALLATION REQUIREMENTS

1.1 CONDITIONS OF INSTALLATION

It is the law that all gas appliances are installed only by a CORGI Registered Installer, in accordance with these installation instructions and the Gas Safety (Installation and Use) Regulations 1998 as amended. Failure to install appliances correctly could lead to prosecution. It is in your own interest and that of safety to comply with the law. The installation must also be in accordance with all relevant parts of the Local and National Building Regulations where appropriate, the Building Regulations (Scotland Consolidation) issued by the Scottish Development Department, and all applicable requirements of the following British Standard Code of Practice.

1. BS 5871 Part 3 Installation of Decorative Fuel Effect Gas Fires
2. BS 6891 Installation of Gas Pipework
3. BS 5440 Parts 1 & 2 Installation of Flues and Ventilation
4. BS 1251 Open fire place components
5. BS 715 / BS EN 1856-2 Metal flue pipes for gas appliances
6. BS EN 1858 Clay Flue Blocks and Terminals
7. IS 813 : Domestic Gas Installation (Republic of Ireland)

No purpose made additional ventilation is normally required for this appliance, when installed in G.B. When Installing in I.E. please consult document I.S. 813 : Domestic Gas Installation, which is issued by the National Standards Authority of Ireland. If installing in Northern Ireland, please consult local building regulations. Any purpose made ventilation must be checked periodically to ensure that it is free from obstruction.

1.2 FLUE AND CHIMNEY SUITABILITY

This appliance is designed for use with conventional brick built or lined chimneys and fabricated flues and metal flue boxes conforming to BS 715 / BS EN 1856-2. All flues must conform to the following minimum dimensions.

Minimum diameter of circular flues	**175 mm**
Minimum effective height of all flue types	**3 metres**

Safe clearance of combustion products must always be checked by carrying out a smoke match test as described on page 22.

1.3 SITE PREPARATION / PRODUCT LOCATION

The appliance must only be installed into an opening with a non-combustible surface. The product must not be fitted into a room containing a bath or a shower. Combustible material such as wood, that is often used in the preparation of a hole in the wall type opening, may be fitted to within 100mm of either side of the opening, providing it does not project more than 100mm from the front of the opening. Soft furnishings, decorations and some forms of wall covering may discolour if fitted too close to the fireplace opening.
CFM Europe will not be liable for damage to soft furnishings, decorations and wall coverings that are fitted too close to the appliance.

DO NOT PLACE ANY OBJECTS, SUCH AS ORNAMENTAL ITEMS ETC. ON THE CANOPY OF THE SILVER SAPPHIRE FRAME.

1.4 SHELF POSITION

The fire may be fitted below a combustible shelf providing there is a minimum distance of 100mm above the top of the canopy and the shelf does not project more than 150mm. If the shelf overhangs more than 150mm the distance between the fire and the shelf must be increased by 15mm for every 25mm of additional overhang over 150mm.

1.5 FITTING TO PRE-FABRICATED TWIN WALL METAL FLUE BOXES

The appliance may be fitted to twin wall metal flue boxes conforming to the constructional requirements of BS 715, (for example the Selkirk LFE 175 box). The box must have a minimum flue diameter of 175mm internal and minimum internal dimensions of 320mm deep by 560mm high by 580mm wide. There are no maximum dimensional requirements for the box. The top face of the box must be insulated with a minimum thickness of 50mm of non-combustible mineral wool insulation or similar material. The flue box must stand on a non-combustible base of minimum thickness 12mm.

1.6 SPILLAGE MONITORING SYSTEM

This appliance is fitted with an atmosphere sensing spillage monitoring system in the form of an oxygen sensing pilot. This is designed to shut the fire off in the event of a partial or complete blockage of the flue causing a build up of combustion products in the room in which the fire is operated. **The following are important warnings relating to this spillage monitoring system** :-

1) The spillage monitoring system must not be adjusted by the installer.
2) The spillage monitoring system must not be put out of operation.
3) When the spillage monitoring system is exchanged only a complete original manufacturers part may be fitted. It is not possible to replace individual parts on the pilot system on this appliance, only a complete pilot assembly (including the thermocouple) may be fitted.

SECTION 2
INSTALLATION OF FIRE

2.1 UNPACKING THE FIREBOX AND SILVER SAPPHIRE TRIM ASSY.

Carefully lift the combustion chamber out of the carton. Remove the loose item packaging carefully from the pack. Check the contents as listed :-

Packing Check List

Carefully lift the components out of the carton. Remove the loose item packaging carefully from the pack. Check the contents as listed :-

1 off	Firebox assembly
1 off	Burner tray
1 off	Boxed ceramic fuel-bed set (packed inside firebox, coal or pebble dependent upon model chosen)
1 off	Installation & User Instruction Manual (Combined)
1 off	Loose Items pack
1 off	Silver Sapphire top section
1 off	Silver Sapphire base section
1 off	L/H Silver Sapphire side cheek
1 off	R/H Silver Sapphire side cheek
1 off	Pair Latex Gloves
1 off	Length of foil tape
2 off	Self adhesive foam strip (1 off short, 1 off long)

PLEASE NOTE : LATEX GLOVES ARE SUPPLIED WITH THIS PRODUCT TO PREVENT DAMAGE OF THE DECORATIVE SECTIONS OF THE ASSEMBLY DURING INSTALLATION. AN ALTERNATIVE SET OF PROTECTIVE GLOVES SHOULD BE USED BY INSTALLERS WHO SUFFER FROM SKIN CONDITIONS CAUSED BY LATEX ALLERGIES

2.2 PREPARATION OF THE FIREBOX OPENING

If installing the product into a hole in the wall type installation, create an opening as shown in Fig. 2 below. If installing into a conventional opening with a hearth panel, create an opening as shown in Fig. 3 below.

Fig. 2 - Hole in the Wall Installations

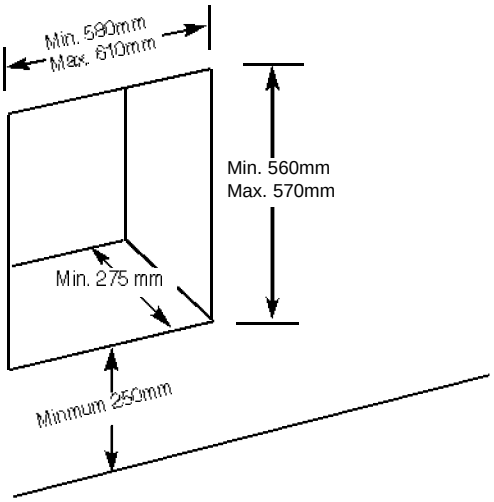
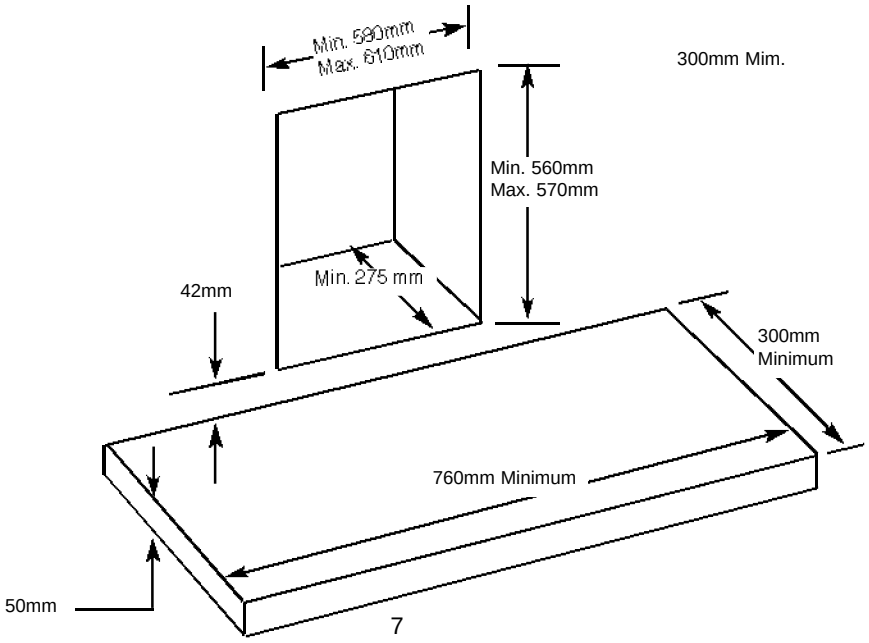


Fig. 3 - Conventional Installations



2.3 INSTALLING THE FIRE BOX & GAS SUPPLY PIPE.

Establish which type of flue you are intending to install the fire in to :-

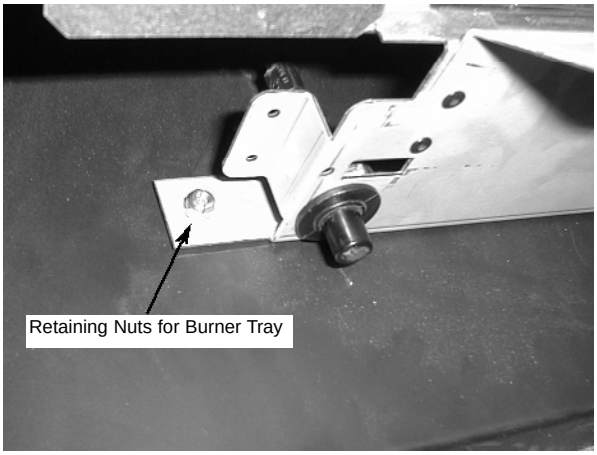
225 x 225mm (9 inch x 9 inch) brick built chimneys, 175mm (7 inch) diameter lined brick or stone flue, or insulated pre-fabricated metal flue box to B.S. 715.

A spillage test must always be carried out to check satisfactory clearance of flue products, regardless of the type of flue the appliance is being fitted to.

Proceed as follows :-

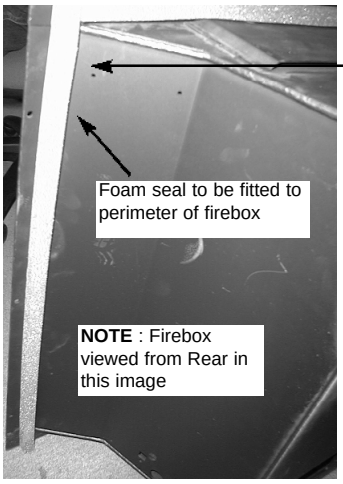
a) Remove the burner tray by unscrewing the 2 off retaining nuts on the base. See fig. 4 below.

Fig. 4



b) Fit the self adhesive foam seal to the rear of the firebox frame, as shown overpage in Fig. 5. The firebox seal is supplied in two sections, a short piece and a long piece. Fit the short piece to the left hand mounting flange of the firebox.

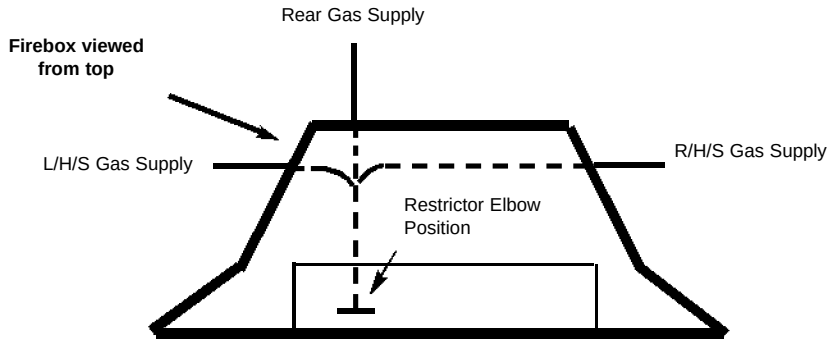
Fig. 5



Fit the short piece to the left hand mounting flange of the firebox.

c) Decide which side the gas supply is to enter the fire from. The gas connection can be made via the left hand side, right hand side or rear, to the burner tray inlet elbow which is located at the bottom left hand side at the front. The gas connection to the appliance should be made to the isolating / inlet elbow using 8mm rigid tubing. There must be no soldered joints within the firebox. See Fig. 6a below.

Fig. 6a



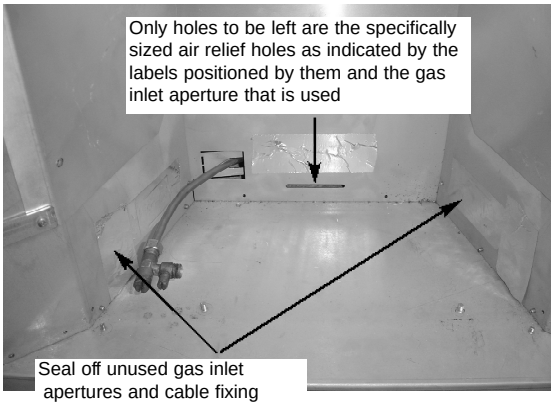
Note : Before breaking into the gas supply a pressure drop test should be carried out to establish that the existing pipework is sound.

Carefully withdraw the fire box from the opening to enable the gas supply and fire fixing to be completed. Ensure the gas pipe is capped to prevent entry of debris.

<u>IMPORTANT</u> : Sealing of the Gas Unused Gas Pipe Inlet Apertures

In line with current CORGI regulations, **it is imperative that the gas supply inlet apertures that are not utilised during the installation are sealed with the foil tape as supplied**. Failure to seal these inlet apertures could lead to flame reversal, which in turn will damage the burner and control systems of the product. Fig. 6b below shows a correctly sealed installation.

Fig. 6b

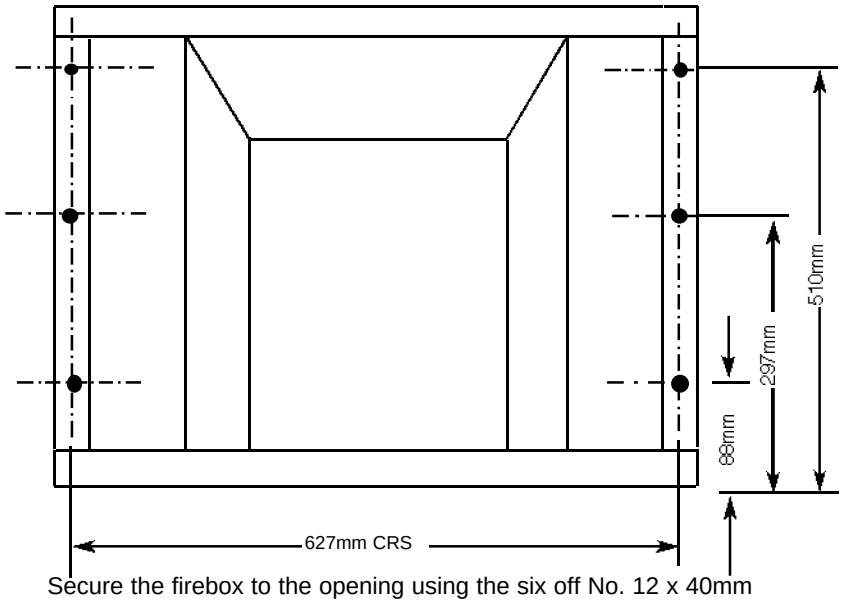


PLEASE NOTE :-

<u>CFM EUROPE LTD. WILL NOT BE LIABLE FOR GUARANTEE CLAIMS THAT ARE AS A DIRECT RESULT OF THE UNUSED GAS INLET APERTURES NOT BEING CORRECTLY SEALED.</u>

d) Drill 6 off holes in the front face of the opening in positions to match those in the front frame of the firebox as shown below in Fig. 7.

Fig. 7



e) Secure the firebox to the opening using the six off No. 12 x 40mm screws provided, ensuring that the foam seal is consistent around the opening, and that it forms an effective seal.

f) Re-fit the burner tray onto the weld studs on the base of the firebox, and tighten the nuts securely.

2.4 GAS TIGHTNESS AND INLET PRESSURE

a) Remove the pressure test point screw from the inlet elbow and fit a manometer.

b) Turn on the main gas supply and carry out a gas tightness test.

c) Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to purge the pipe work then press the igniter button. The burner should light, continue to hold the control knob for a few seconds then turn to the full-on position.

d) Check that the gas pressure is **20.0 mbar (+/- 1.0mbar) 8.0 in w.g.(+/- 0.4 in w.g.)**

e) Turn off the fire, remove the manometer and refit the pressure test point screw. Check the pressure test point screw for gas tightness with the appliance turned on using a suitable leak detection fluid or detector.

2.5 FITTING OF THE FRET AND SIDE CHEEKS

a) For this part of the installation, the latex gloves supplied should be used to protect the decorative parts. Also, leave the protective coating in place until the installation is complete.

b) Remove the two off M4 nuts and washers on the base of the firebox, as shown below in Fig. 8a

c) Fit the lower canopy to the firebox by locating the two holes in the lower canopy onto the two studs as detailed in section b) above and refitting the two off M4 nuts and washers on the base of the firebox

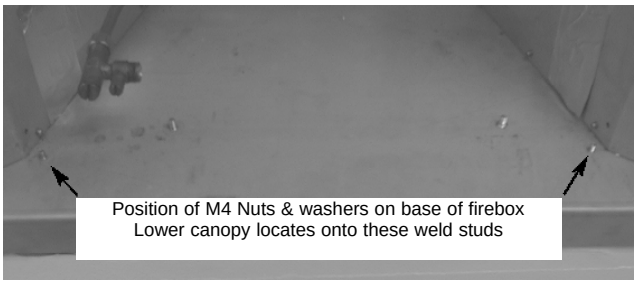
d) Locate the three studs in the upper canopy onto the three protruding flanges at the top of the firebox. Once located, the inner flange on the lower surface can be secured using the M4 nuts and bolts supplied. Finally, using an M3 nut runner or socket and the M3 nuts supplied secure the canopy through the holes in the lower surface.

e) Remove the protective cover from the upper surface of the lower canopy and that on the flanges of the fret only.

f) Fit the fret, located by two M5 screws in the holes provided.

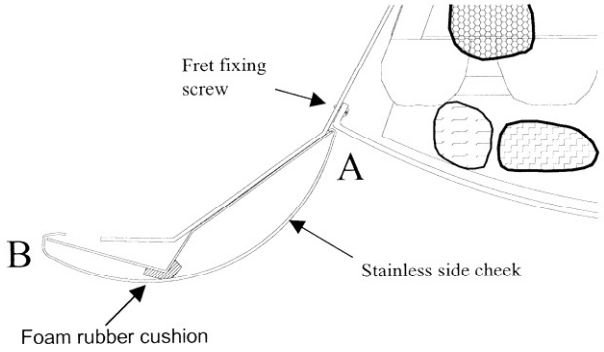
g) Remove the protective covering from the side cheeks and fit as shown in Fig. 8b overpage.

Fig. 8a



i) Finally remove all the protective coating.

Fig. 8b



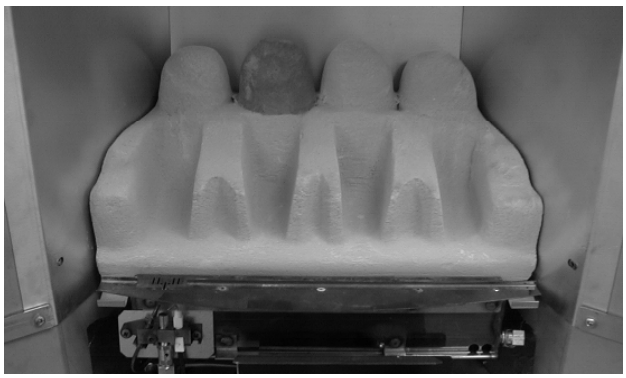
SECTION 3
ASSEMBLING FUEL BED AND COMMISSIONING

3.1 ASSEMBLING THE CERAMICS AND FUEL BED (PEBBLE FUEL-BED MODELS)

<u>NOTE</u> : The position of the fuel-bed components are critical to the performance of the product. Therefore please ensure that the fuel-bed components are positioned as described in the following section prior to requesting a service call due to soot build up, poor flame pattern etc.

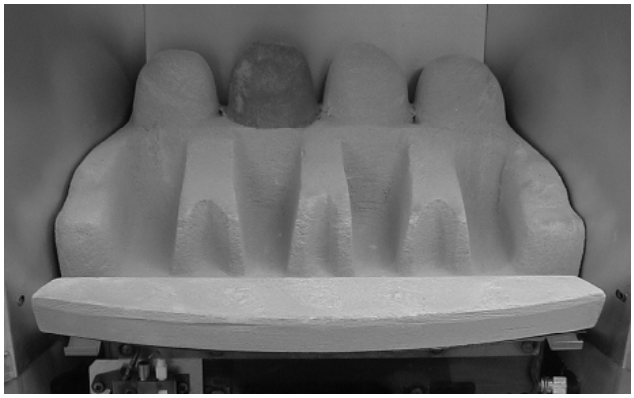
a) Place the ribbed ceramic fuelbed base on top of the fuelbed support and pull fully forwards to the burner. **Make sure that the fuelbed base is located centrally in the fire box**. **Ensure that the fuelbed base fit fully down onto the fuel bed support and is not lodged on the burner. See fig. 9 below.**

Fig. 9



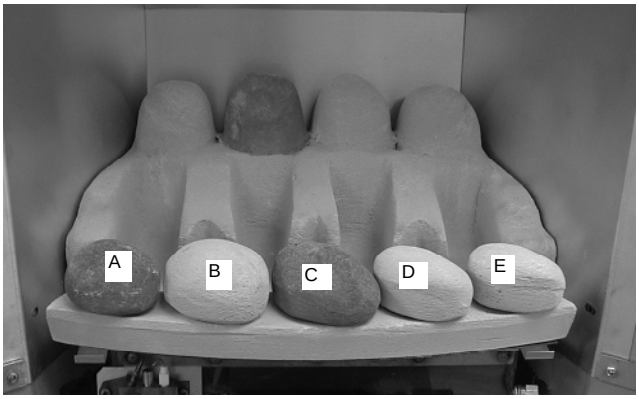
b) Position front ceramic rail on burner front ceramic support and ensure that the locating channel in the front ceramic rail is correctly located onto the lip on the burner front ceramic support. (See fig. 10 below)

Fig. 10



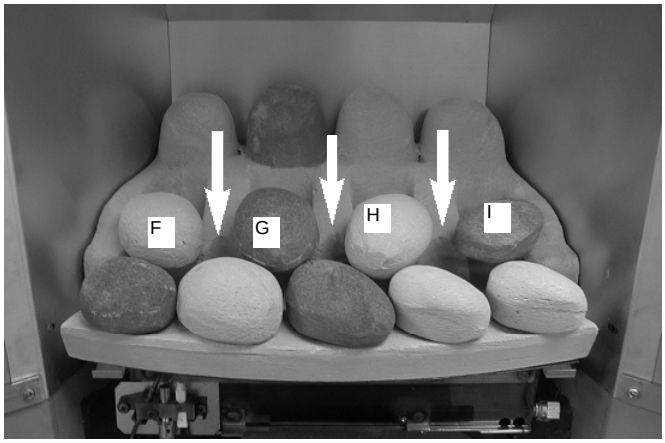
c) Pick pebbles A to E and arrange along the the front rail, ensuring that they are evenly spaced. Use the recess's in the front ceramic rail as a guide for placement. (See fig. 11 below)

Fig. 11



d) Select pebbles F to I and arrange behind the front row of pebbles, ensuring that flame paths as indicated below are not interupted.
. (See fig. 12 below)

Fig. 12

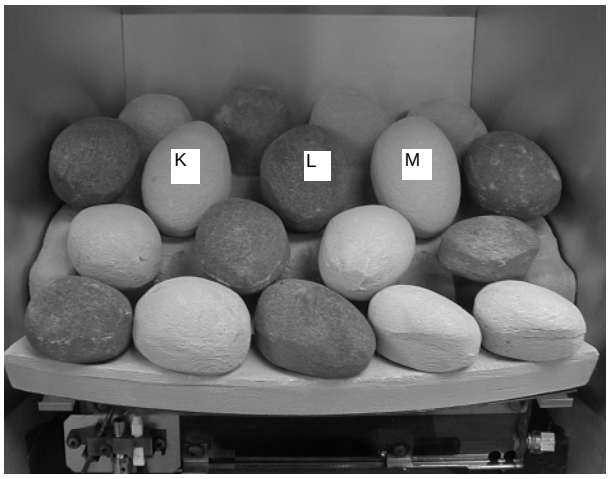


e) Select pebbles (J & N) and position to fill the gaps at each end of the third row of pebbles, as shown below in Fig. 13

Fig. 13

f) Select the remaining pebbles K, L & M (which are slightly larger that the other pebbles) and arrange along the rear of the fuelbed, using the ribs in the rear of the fuelbed as a guide for placement. (See fig. 14 below)

Fig. 14



The exact position and fit of the pebbles may be finely adjusted to give the most pleasing and random appearance.

Warning : Use only the pebbles supplied with the fire. When replacing the pebbles remove the old pebbles and discard them. Fit a complete set of pebbles of the correct type. Do not fit additional pebbles or any pebbles other than a genuine replacement set.

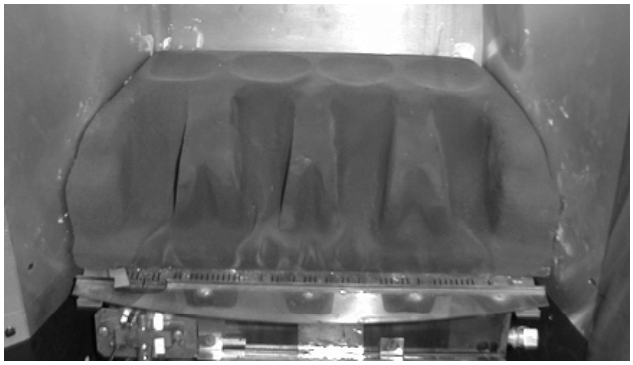
To ensure that the release of fibres from these R.C.F (Refractory Ceramic Fibre) articles is kept to a minimum, during installation and servicing we recommend that you use a HEPA filtered vacuum to remove any dust accumulated in and around the appliance before and after working on the appliance. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within heavy duty polythene bags, clearly labelled as "RCF waste". RCF waste is classed as a "stable", non reactive hazardous waste and may be disposed of 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.

3.2 ASSEMBLING THE CERAMICS AND FUEL BED (COAL FUEL-BED MODELS)

<u>NOTE</u> : The position of the fuel-bed components are critical to the performance of the product. Therefore please ensure that the fuel-bed components are positioned as described in the following section prior to requesting a service call due to soot build up, poor flame pattern etc.

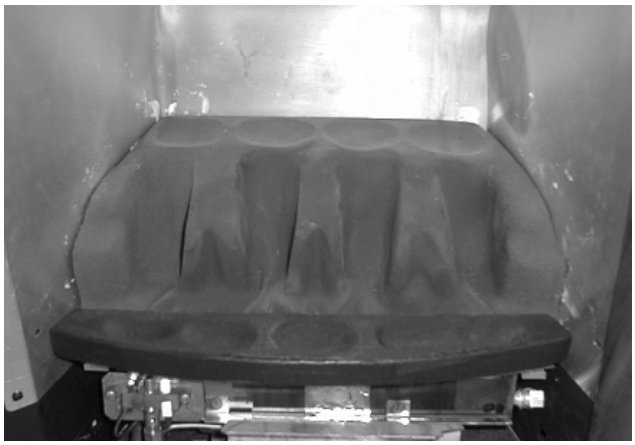
a) Place the ribbed ceramic fuelbed base on top of the fuelbed support and pull fully forwards to the burner. **Make sure that the fuelbed base is located centrally in the fire box**. **Ensure that the fuelbed base fit fully down onto the fuel bed support and is not lodged on the burner. (See fig. 15 below)**

Fig. 15



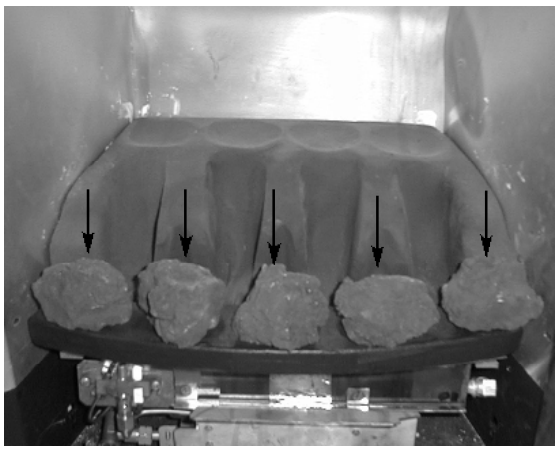
b) Position front ceramic rail on burner front ceramic support and ensure that the locating channel in the front ceramic rail is correctly located onto the lip on the burner front ceramic support. (See fig. 16 below)

Fig. 16



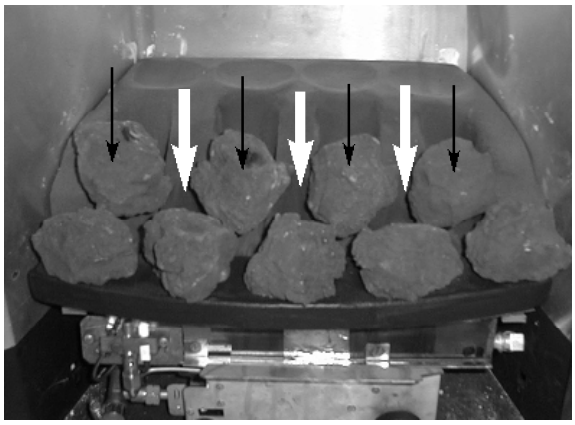
c) Fit five of the coals onto the front ceramic rail, ensuring that they are evenly spaced. Use the recess's in the front ceramic rail as a guide for placement. (See fig. 17 below)

Fig. 17



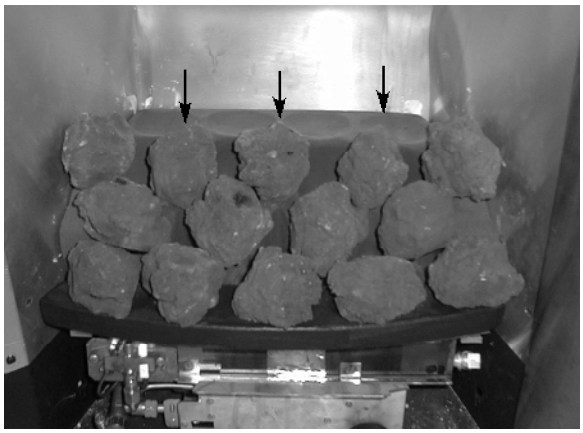
d) Select four of the coals and arrange behind the front row of coals, ensuring that flame paths as indicated below are not interupted. (See fig. 18 below)

Fig. 18



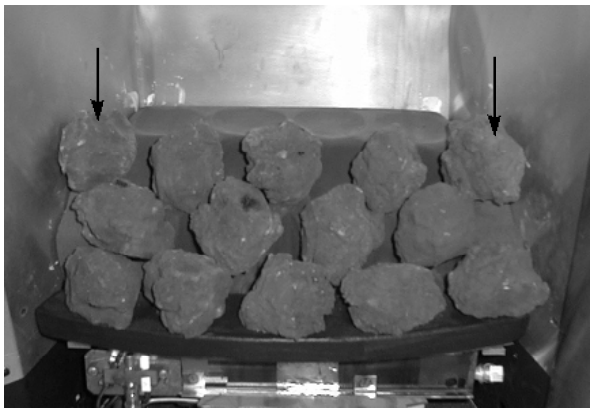
e) Select three of the coals and arrange along the rear of the fuelbed, using the ribs in the rear of the fuelbed as a guide for placement. (See fig. 19 below)

Fig. 19



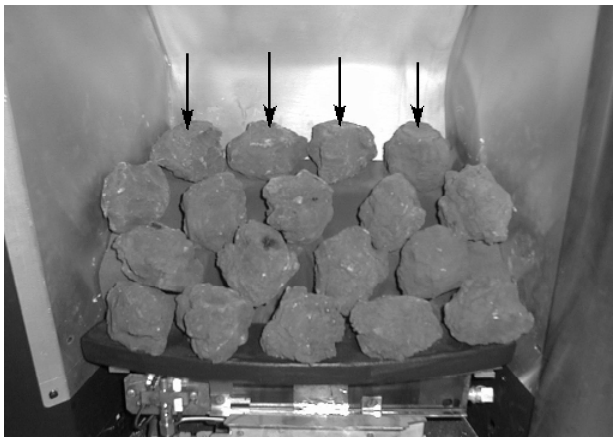
f) Select two coals and position to fill the gaps at each end of the third row of coals, as shown below in Fig. 20

Fig. 20



g) Select the remaining four coals and position along the rear edge of the fuelbed (See fig. 21 below)

Fig. 21



The exact position and fit of the coals may be finely adjusted to give the most pleasing and random appearance.

Warning : Use only the coals supplied with the fire. When replacing the coals remove the old coals and discard them. Fit a complete set of coals of the correct type. Do not fit additional coals or any coals other than a genuine replacement set.

To ensure that the release of fibres from these R.C.F (Refractory Ceramic Fibre) articles is kept to a minimum, during installation and servicing we recommend that you use a HEPA filtered vacuum to remove any dust accumulated in and around the appliance before and after working on the appliance. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within heavy duty polythene bags, clearly labelled as "RCF waste". RCF waste is classed as a "stable", non reactive hazardous waste and may be disposed of 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.

3.3 LIGHTING THE APPLIANCE

a) Turn on the gas isolation tap.
b) Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to purge the pipe work.
c) Continue to hold-in the control knob and press the igniter button. If the burner does not light, continue to press the igniter button until ignition occurs. Continue to hold the control knob for 5-10 seconds to allow the thermocouple to heat up, if the pilot goes out when the control knob is released, repeat the lighting sequence.
d) Turn the control knob in the anti-clockwise direction to the high position and the main burner will light.
e) Turn the control knob clockwise to the low position and the gas input will be reduced to the minimum setting.
f) Slightly depress the control knob and turn to the pilot position, the main burner will go out but the pilot will remain lit.
g) Slightly depress the control knob and turn to the off position, the pilot will now be extinguished.

WARNING : If the fire goes out for any reason or is turned off and it is necessary to re-light the fire it is important to allow the fire to cool for 3 minutes before attempting to re-light it

3.4 CHECKING FOR CLEARANCE OF COMBUSTION PRODUCTS

a) Close all doors and windows in the room.

b) Light the fire and allow to run for approximately 5 minutes on high position.

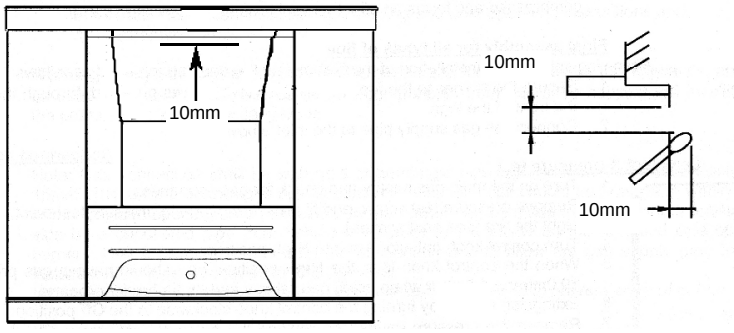
c) After approximately 5 minutes hold a smoke match 10mm inside and 10mm below the centre of the lower front edge of the top of the fire. (It is recommended that a suitable smoke match holder is used when checking for clearance of combustion products). All smoke generated should be drawn back into the flue. If slight spillage occurs or if in doubt, repeat the test after a further 5-10 minutes.

d) If spillage persists, remove the flue restrictor baffle and re-test from cold. If the product then still shows signs of spillage, the flue is not functioning correctly and a fault exists. If, after investigation the fault cannot be traced and rectified, the fire must be disconnected from the gas supply and expert advice obtained.

e) If there is an extractor fan fitted any where in the vicinity of the appliance, or in adjacent rooms the spillage test should be repeated with the fan running on maximum and all interconnecting doors open.

f) After ensuring that the fire is safe to use it should be left on high position to fully warm up. During this time a slight odour may be noticed, this is due to the “newness” of the fire and will soon disappear. At this stage any minor adjustments to the coals should be made using suitable long handled tongs and taking care not to damage the coals.
Finally, hand the Installation and Maintenance Instructions and the Users Instructions over to the customer and explain the operation of the fire.

Fig. 22



SECTION 4
MAINTENANCE

Servicing Notes

Servicing should be carried out annually by a competent person such as a CORGI registered engineer. **This is a condition of the Flavel guarantee schemes.** The service should include visually checking the chimney and fire opening for accumulations of debris and a smoke test to check for a positive up-draught in the chimney.

The condition of the pebbles or coals should be checked and **if necessary the whole set should be replaced with a genuine replacement set.**

The burner assembly is designed to be removed as a complete unit for ease of access. **After any servicing work a gas tightness check must always be carried out.**

For Diagrams refer to Section 2

4.1 Removing the burner assembly from the fire.

4.1.1 Prepare work area (lay down dust sheets etc.)

4.1.2 Remove the fret cover out of the way and put them in a safe location. Remove the loose pebbles or coals from the fuel bed. Remove the fuelbed matrix & front ceramic rails.

4.1.3 Isolate the gas supply and remove the inlet pipe from the appliance inlet elbow. Unscrew and remove the two nuts and washers which retain the burner at the base. Remove the burner assembly from the fire.

4.1.4 To refit the burner assembly. Push the burner to locate against the rear panel of the Silver Sapphire trim and secure the burner at the base of the control panel with the two nust and washers. Refit the gas supply pipe and carry out a gas tightness test. The ash pan cover can now be re-positioned.

4.2 Removing the Piezo Igniter

4.2.1 Remove the burner assembly as in section 4.1

4.2.2 Disconnect the ignition lead from the piezo and unscrew the retaining nut on the rear of the control panel. Withdraw the piezo from the front of the control panel. Re-assemble in reverse order and carry out a gas tightness test.

4.3 Removing the Control Tap from the fire.

4.3.1 Remove the burner assembly as in section 4.1.

4.3.2 Pull the control knob off the control tap spindle.

4.3.3 Loosen and remove the two gas pipe retaining nuts from the control tap and release the ends of the gas pipes from the control tap body. Remove the screw in thermocouple from the end of the control tap.

4.3.4 Unscrew the control tap locknut from the front of the control panel and remove the control tap.

4.3.5 To refit a control tap, reassemble in reverse order noting that the control tap locates with a flat in the control panel. Carry out a gas tightness test after re-assembly.

4.4 Removing the Oxy-Pilot Assembly

Note : Because this appliance is fitted with an atmosphere sensing 'Oxy-Pilot' it is not possible to replace the thermocouple separately, because the thermocouple position is factory set to a tight tolerance. Any replacement of parts on the pilot requires a complete new pilot assembly.

4.4.1 Remove the burner assembly as in section 4.1

4.4.2 Disconnect the pilot pipe, unscrew and remove the thermocouple retaining nut from the end of the control tap and disconnect the ignition lead from the pilot electrode.

4.4.3 Unscrew and remove the two pozi-driv screws which secure the pilot assembly to the burner. Remove the pilot.

4.4.4 Re-assemble in reverse order and carry out a gas tightness test.

PARTS SHORTLIST

Replacement of any other parts must be carried out by a competent person such as a CORGI registered gas installer. The part numbers of the main replaceable parts are as follows, these are available from CFM Europe Ltd. (see rear page for contact details)

Complete Coal Pack	B-91480	Complete Pebble Pack	B-91520
Coal Fuelbed Matrix	B-91500	Pebble Fuel-bed Matrix	B-91540
Coal Fuelbed Front Rail	B-91490	Pebble Fuelbed Front Rail	B-91530
Loose Coal Pack	B-91510	Loose Pebble Pack	B-91550
Gas Valve	B-36990	ODS Pilot	B-38930

SECTION FIVE - USER INSTRUCTIONS

5.1 About your Flavel Silver Sapphire

The Flavel Silver Sapphire incorporates a unique and highly developed fuel bed which gives the realism of a loose coal layout combined with realistic flames and glow. The use of durable ceramic material in the construction of the fuel-bed components ensures long and trouble free operation.
When first using the new fire a slight smell may be noticed. This is due to starch used in the manufacture of the soft ceramic coals or pebbles, it is non-toxic and will soon disappear.
Please take the time to fully read these instructions as you will then be able to obtain the most effective and safe operation of your fire.

IMPORTANT SAFETY INFORMATION

WARNING

This appliance has a naked flame and as with all heating appliances a fireguard should be used for the protection of children, the elderly and infirm. Fireguards should conform to B.S. 8423 : 2002 (Fireguards for use with gas heating appliances).

It is important that this appliance is serviced at least once a year by a CORGI registered gas installer and that during the service the fire is removed from the fire opening and the chimney or flue visually checked for fallen debris or blockages which must be removed. The chimney should also be checked to ensure clearance of flue products. **These are conditions of the manufacturers guarantee. After installation or during servicing a spillage test must always be carried out.**

Rubbish of any type must NEVER be thrown onto the fuel-bed, this could affect safe operation and damage the fire. Any debris or deposits should be removed from the fuel-bed from time to time. This may be carried out by referring to the cleaning section as described later in this book.

Only the correct number and type of coals must be used and only complete and genuine replacement sets must be sourced from CFM Europe Ltd. (See rear cover of this book for contact details)
The appliance must only be used with the coal set or pebble set supplied and must not be used with other coals or pebbles

Always keep furniture and combustible materials well clear of the fire and never dry clothing or items either on or near to the fire. Never use aerosols or flammable cleaning products near to the fire when it is in use.

The ceramic fuel-bed remains hot for a considerable period after use and sufficient time should be allowed for the fire to cool before cleaning etc.

5.2 Operating the Fire

To light the fire proceed as follows:-

1) Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to allow the gas to reach the pilot.
2) Continue to hold-in the control knob and press the igniter button. If the pilot does not light, continue to press the igniter button until ignition occurs. When the pilot has lit, continue to hold the control knob in for 5-10 seconds to allow the thermocouple to heat up, if the pilot goes out when the control knob is released, repeat the lighting sequence.

In the unlikely event of a failure of the igniter, the fire can be lit as follows :- Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to allow the gas to reach the pilot. Insert the tip of a lit taper in behind the front ceramic coals on the left hand side. This will light the pilot flame. When the pilot has lit, continue to hold the control knob in for 5-10 seconds to allow the thermocouple to heat up, if the pilot goes out when the control knob is released, repeat the lighting sequence.

3) After lighting, turn the control knob in the anti-clockwise direction to the high position and the main burner will light. It is recommended that for most efficient performance the fire is allowed to warm up for a few minutes with the gas control on maximum.
4) The gas control can be turned clockwise from the maximum position to give the desired heat output.

WARNING

If the fire goes out for any reason or is turned off and it is necessary to re-light the fire it is important to allow the fire to cool for 3 minutes before attempting to re-light it.

SPILLAGE MONITORING SYSTEM

This appliance is fitted with a spillage monitoring system which shuts down the fire if the evacuation of combustion products from the fire is affected by a partially or fully blocked flue. If this system operates the fire will go out. If this occurs, leave the fire for at least three minutes then follow the lighting procedure as described in the previous section. **In the event of repeated operation a CORGI registered gas installer must be called to investigate and rectify the cause.**

5.3 Cleaning - WARNING

Before attempting any cleaning operation ensure that the fire has been allowed to fully cool. The Silver Sapphire case should be gently cleaned with a damp cloth. DO NOT UNDER ANY CIRCUMSTANCES USE ABRASIVE CLEANINGS PRODUCTS ON ANY SURFACE OF THIS PRODUCT.

Cleaning the Fuelbed

We do not recommend cleaning of the coals or fuelbed components as these are fragile and damage may result. **None of these parts must be washed or exposed to any cleaning agents or water**. Any damaged parts must be replaced by contacting CFM Europe . (See rear cover of this book for contact details).
The coals must only be replaced with a complete and genuine replacement set and the fire must never be run with the wrong number or damaged coals.
The fuel-bed must be carefully re-assembled as stated in section 3.1

USER REPLACEABLE PARTS

The only user replaceable parts on this fire are the fuelbed components and coals or pebbles which may be replaced as described in the above section. Replacement of any other parts must be carried out by a competent person such as a CORGI registered gas installer. The part numbers of the user replaceable parts are as follows, these are available from CFM Europe Ltd. (See rear cover of this book for contact details).

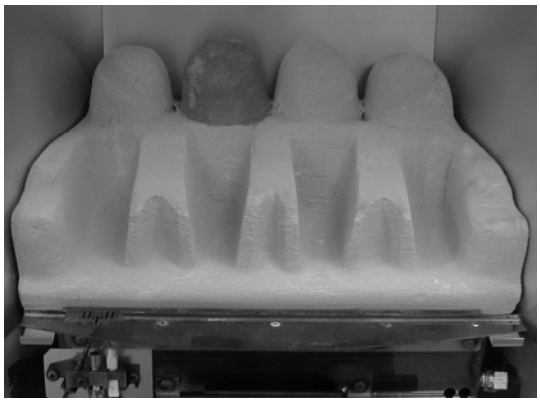
Complete Coal Pack	B-91480	Complete Pebble Pack	B-91520
Coal Fuelbed Matrix	B-91500	Pebble Fuel-bed Matrix	B-91540
Coal Fuelbed Front Rail	B-91490	Pebble Fuelbed Front Rail	B-91530
Loose Coal Pack	B-91510	Loose Pebble Pack	B-91550

5.4 Assembling the Pebble Fuelbed

<u>NOTE</u> : The position of the fuel-bed components are critical to the performance of the product. Therefore please ensure that the fuel-bed components are positioned as described in the following section prior to requesting a service call due to soot build up, poor flame pattern etc.

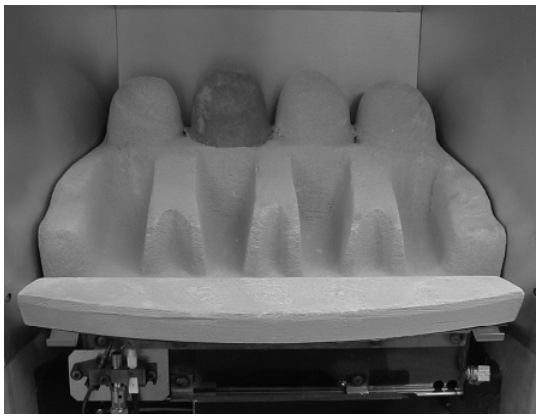
a) Place the ribbed ceramic fuelbed base on top of the fuelbed support and pull fully forwards to the burner. **Make sure that the fuelbed base is located centrally in the fire box**. **Ensure that the fuelbed base fit fully down onto the fuel bed support and is not lodged on the burner. See fig. 23 below.**

Fig. 23



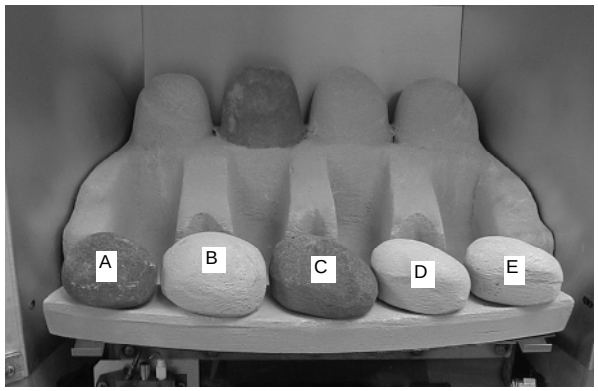
b) Position front ceramic rail on burner front ceramic support and ensure that the locating channel in the front ceramic rail is correctly located onto the lip on the burner front ceramic support. (See fig. 24 below)

Fig. 24



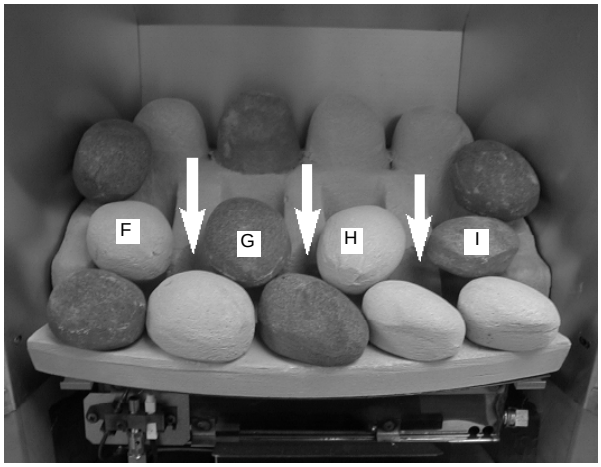
c) Pick pebbles A to E and arrange along the the front rail, ensuring that they are evenly spaced. Use the recess's in the front ceramic rail as a guide for placement. (See fig. 25 below)

Fig. 25



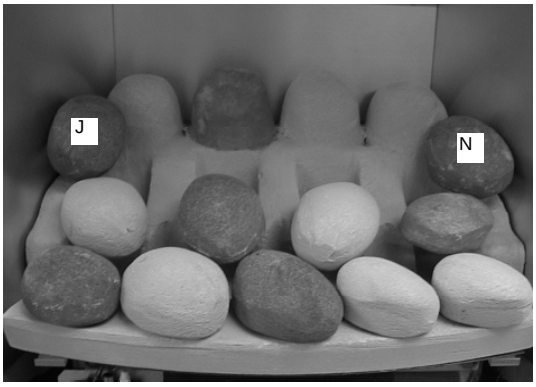
d) Select pebbles F to I and arrange behind the front row of pebbles, ensuring that flame paths as indicated below are not interupted.
. (See fig. 26 below)

Fig. 26



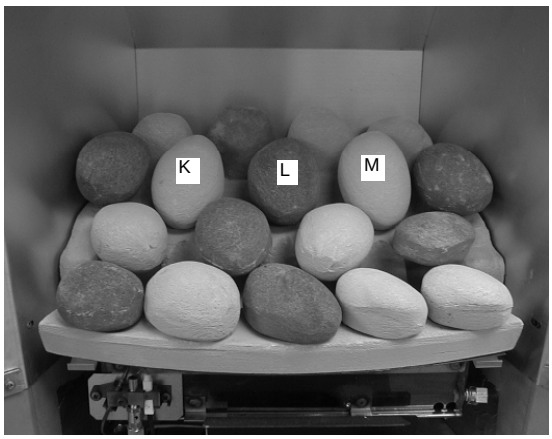
e) Select pebbles (J & N) and position to fill the gaps at each end of the third row of pebbles, as shown below in Fig. 27

Fig. 27



f) Select the remaining pebbles K, L & M (which are slightly larger that the other pebbles) and arrange along the rear of the fuelbed, using the ribs in the rear of the fuelbed as a guide for placement. (See fig. 28 below)

Fig. 28



The exact position and fit of the pebbles may be finely adjusted to give the most pleasing and random appearance.

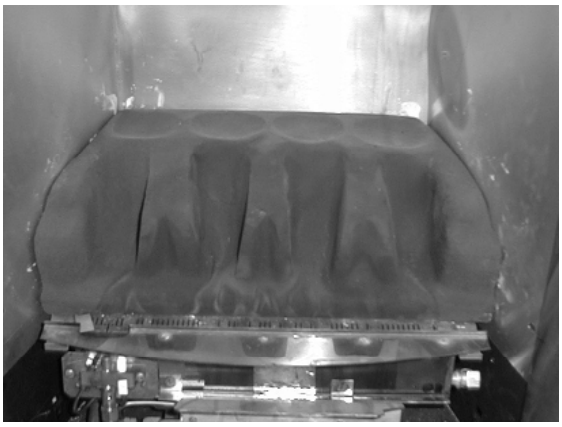
Warning : Use only the pebbles supplied with the fire. When replacing the pebbles remove the old pebbles and discard them. Fit a complete set of pebbles of the correct type. Do not fit additional pebbles or any pebbles other than a genuine replacement set.

To ensure that the release of fibres from these R.C.F (Refractory Ceramic Fibre) articles is kept to a minimum, during installation and servicing we recommend that you use a HEPA filtered vacuum to remove any dust accumulated in and around the appliance before and after working on the appliance. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within heavy duty polythene bags, clearly labelled as "RCF waste". RCF waste is classed as a "stable", non reactive hazardous waste and may be disposed of 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.

5.4 Assembling the Coal Fuelbed

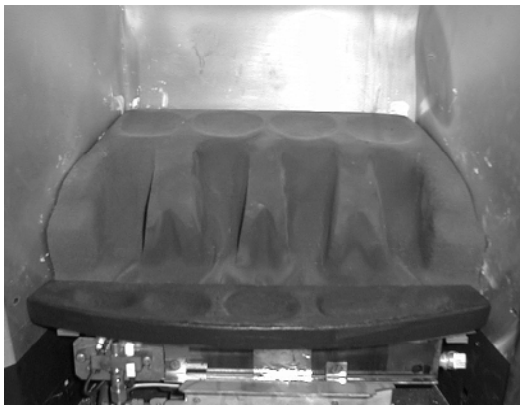
a) Place the ribbed ceramic fuelbed base on top of the fuelbed support and pull fully forwards to the burner. **Make sure that the fuelbed base is located centrally in the fire box**. **Ensure that the fuelbed base fit fully down onto the fuel bed support and is not lodged on the burner. See fig. 29 below.**

Fig. 29



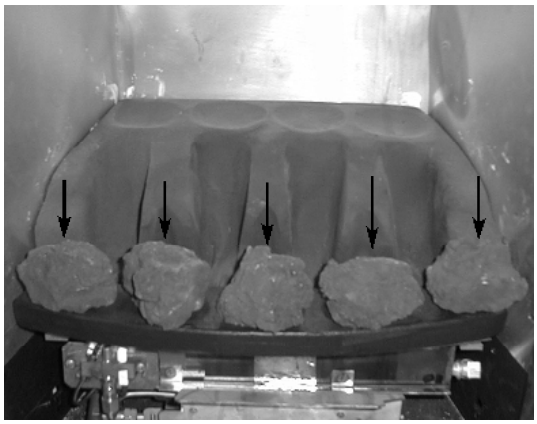
b) Position the two halves of the front ceramic (L/H & R/H) on the locating channel in the front ceramic, ensuring it is located onto the lip on the burner front ceramic support. (See fig. 30 below)

Fig. 30



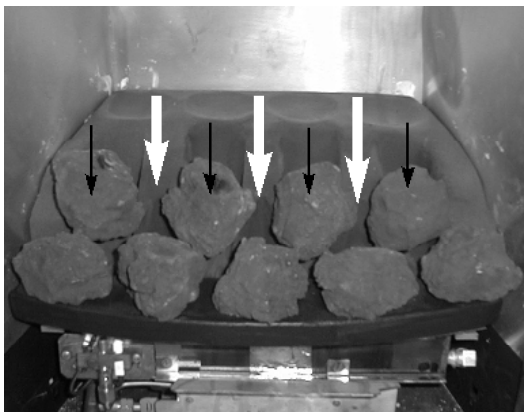
c) Fit five of the coals onto the front ceramic rail, ensuring that they are evenly spaced. Use the recess's in the front ceramic rail as a guide for placement. (See fig. 31 below)

Fig. 31



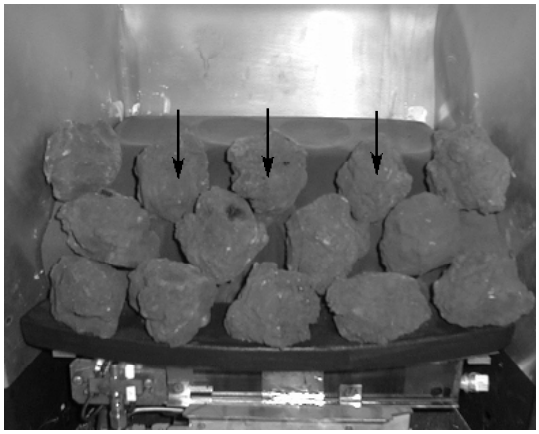
d) Select four of the large coals and arrange behind the front row of coals, ensuring that flame paths as indicated below are not interupted.
. (See fig. 32 overpage)

Fig. 32



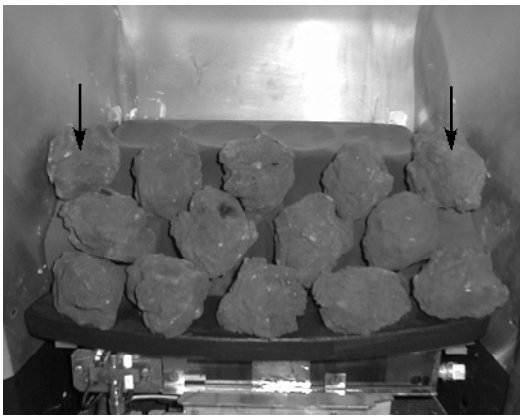
e) Select three of the coals and arrange along the rear of the fuelbed, using the ribs in the rear of the fuelbed as a guide for placement. (See fig. 33 below)

Fig. 33



f) Select the two small coals and position to fill the gaps at each end of the third row of coals, as shown overpage in Fig. 34

Fig. 34



g) Select the remaining four coals and position along the rear edge of the fuelbed (See fig. 35 below)

Fig. 35

The exact position and fit of the coals may be finely adjusted to give the most pleasing and random appearance.

Warning : Use only the coals supplied with the fire. When replacing the coals remove the old coals and discard them. Fit a complete set of coals of the correct type. Do not fit additional coals or any coals other than a genuine replacement set.

To ensure that the release of fibres from these R.C.F (Refractory Ceramic Fibre) articles is kept to a minimum, during installation and servicing we recommend that you use a HEPA filtered vacuum to remove any dust accumulated in and around the appliance before and after working on the appliance. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within heavy duty polythene bags, clearly labelled as "RCF waste". RCF waste is classed as a "stable", non reactive hazardous waste and may be disposed of 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.

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Coal Fuelbed Matrix	B-91500	Pebble Fuel-bed Matrix	B-91540
Coal Fuelbed Front Rail	B-91490	Pebble Fuelbed Front Rail	B-91530
Loose Coal Pack	B-91510	Loose Pebble Pack	B-91550

Due to our policy of continual improvement and development the exact accuracy of descriptions and illustrations cannot be guaranteed.

Part no. B-90710
Issue 2

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