



Castelle

INSET FUEL EFFECT GAS FIRE

Installation, Maintenance & User Instructions

Hand these instructions to the user following installation

Model No's FPCLRN is only for use on Natural Gas (G20) at a supply pressure of 20 mbar in G.B. / I.E.**

**** denotes colour variant**

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This appliance is manufactured by :-

BFM Europe Ltd,
Trentham Lakes, Stoke-on-Trent, ST4 4TJ

SECTION 1 INFORMATION AND REQUIREMENTS

1.0 APPLIANCE INFORMATION

Model	FPCL**RN
Gas Type	G20
Main injector (1 off)	Size 1.65mm
Pilot Type	S.I.T. Oxystop YA OP 9061
Max. Gross Heat Input :	5.0kW
Min. Gross Heat Input :	2.8kW
Cold Pressure :	20.0 +/-1.0 mbar
Ignition :	6V Battery Generator
Electrode Spark Gap	4.0mm
Weight	29.5kg

Firebox dimensions

Width :	(with fascia fitted)	750mm
Height :	(with fascia fitted)	600mm
Depth :	(overall-with fascia)	223mm
Depth :	(from mounting face)	75mm

Gas Connection 8mm Compression (Supplied with fire)

Efficiency Declaration

The efficiency of this appliance has been measured as specified in BS 7977-1 : 2009 and the result is 71.2%.

The gross calorific value of the fuel has been used for this efficiency calculation.

The test data from which it has been calculated has been certified by BSI.

The efficiency value may be used in the UK Government's Standard Assessment Procedure (SAP) for energy rating of dwellings.

INSTALLATION REQUIREMENTS

1.1 CONDITIONS OF INSTALLATION

It is the law that all gas appliances are installed only by a GAS SAFE 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 2 Installation of Inset Live 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 : 1996 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 : 1996 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	125 mm (Without Flue Restrictor Fitted)
Minimum effective height of all flue types	3 metres

When fitting to conventional chimneys or 175mm flues it may be desirable to fit the flue restrictor baffle (supplied) to reduce the flue flow and increase the efficiency of the fire. Safe clearance of products must always be checked by carrying out a smoke match test as described.

1.3 FIREPLACE / SURROUND SUITABILITY

The fire **must not be installed directly onto carpet or other combustible floor materials**. See page 9 for further details regarding hearth panels.

The fire is suitable for fitting to non-combustible fire place surrounds and proprietary fire place surrounds with a temperature rating of at least 150^oc.

If a heating appliance is fitted directly against a wall without the use of a fire surround or fire place all combustible material must be removed from behind the trim. Soft wall coverings such as blown vinyl, wall paper etc. could be affected by the rising hot air and scorching and/or discoloration may result. Due consideration should be made to this when installing or decorating.

1.4 SHELF POSITION

The fire may be fitted below a combustible shelf providing there is a minimum distance of 200mm above the top of the fire 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 FLUE / CHIMNEY INSPECTION

Before commencing installation, a flue or chimney should be inspected to ensure that all the following conditions are satisfied.

1. Check that the chimney / flue only serves one fire place and is clear of any obstruction. Any dampers or register plates must be removed or locked in the open position.
2. Brick/stone built chimneys or any chimney or flue which has been used for an appliance burning fuel other than gas must be thoroughly swept. The base of the chimney / flue must also be thoroughly cleared of debris etc.
3. Any under-floor air supply to the fire place must be completely sealed off.
4. Ensure that the inside of the chimney / flue is in good condition along it's length and check that there is no leakage of smoke through the structure of the chimney during and after the smoke pellet test. **With pre-cast flues it is especially important to check the inside of the flue for extruded cement / sealant protruding from the joints between the flue blocks. If present, these should be removed by rodding the flue before proceeding with the installation.**
5. **Using a smoke pellet, check that there is an up-draught in the chimney / flue and that the smoke can be seen issuing from the terminal / chimney pot outside.**

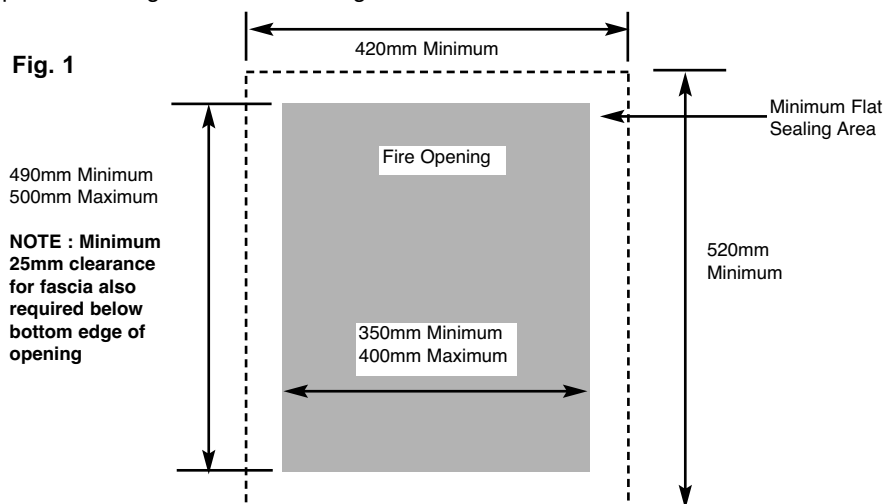
There must be no leakage of smoke through the structure of the chimney during or after the smoke pellet test and it is important to check inside upstairs rooms adjacent to the chimney / flue. Check the chimney pot / terminal and general condition of the brickwork or masonry. If the chimney or flue is in poor condition or if there is no up-draught do not proceed with the installation. If there is a history of down-draught conditions with the chimney / flue, a tested and certificated flue terminal or cowl suitable for the relevant flue type should be considered.

6. **A spillage test must always be carried out during commissioning of the appliance.**

1.6 FIRE PLACE OPENING AND CHIMNEY CATCHMENT SPACE

The front opening of the fire place must be between 350mm and 400mm wide, and between 490 and 500mm high. If the opening exceeds these dimensions then a surround must be constructed from suitable non-combustible material to produce a correct size opening. Any surround must be suitably sealed to the fire place to prevent leakage. See below in figure 1.

Fig. 1



NOTE : Minimum 25mm clearance for fascia also required below bottom edge of opening

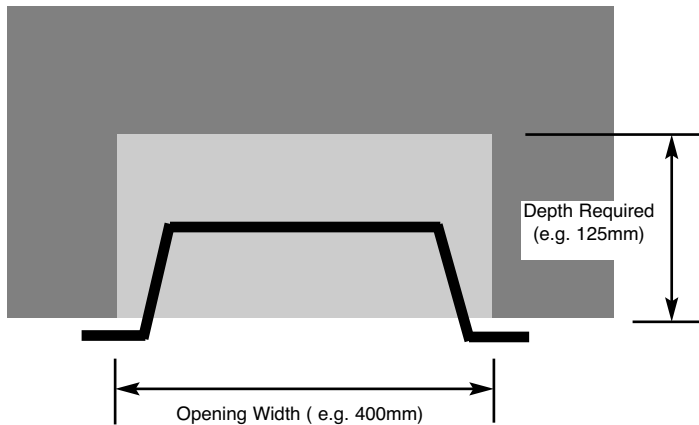
When installing into a brick built chimney, you must ensure that there is sufficient depth to accommodate any debris which may fall from the chimney. This depth must be sufficient to accommodate 12 litres of volumetric space.

Table A - Installation Depth Requirements for a Flavel Castelle being installed into a brick built chimney, requiring 12.0 litres of debris collection volume (figure 2).

The chimney requires a minimum of 50mm clearance when measured from the mouting face of the fire behind the firebox to accomodate 12.0 litres of debris collection.

See figure 2 below for explanatory diagram.

Fig. 2



1.7 FITTING TO FIREPLACES WITH EXISTING CHAIRBRICKS AND CONVENTIONAL BRICKBUILT CHIMNEYS

This appliance is suitable for use in fireplaces fitted with an existing chairbrick without the need for removal of the chairbrick, providing the minimum depth of the fireplace from mounting face to chairbrick exceeds 125mm. The fireplace must be checked to ensure that no part of the chairbrick is within 50mm of the flue outlet of the fire when installed.

1.8 FITTING TO PRE-CAST FLUE INSTALLATIONS

To install the fire box in to pre-cast flue starter blocks, there must be at least 100mm from the mounting face of the fire to the rear of the pre-cast flue starter block to allow sufficient space for debris collection. It is important to consider this depth if choosing a fire surround as the thickness of the fire surround must be sufficient to give a total depth of **at least 100mm to the rear of the starter block**, otherwise there will be insufficient depth. To increase this depth the fire surround may be packed away from the wall using suitable non-combustible board, providing the installation is correctly sealed. If in doubt about the suitability of the fire contact BFM Europe Ltd. for advice before proceeding.

It is important to ensure that the pre-cast flue is in good condition and is free from extruded mortar or sealant from between the flue blocks.

This appliance has been tested for use in a pre-cast flue block complying with BS EN 1858. In accordance with BS EN 1858, pre-cast flues built with directly plastered faces (front or rear) are not correctly installed as to ensure proper operation with any type of gas fire. In some instances of this flue construction, temperature cracking of surface plaster may occur through no fault of the appliance. An air gap or some form of insulation material should be installed to prevent normal flue temperatures from damaging wall surfaces.

1.9 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 125 box). The box must have a minimum flue diameter of 125mm internal and minimum internal dimensions of 160mm deep by 490mm high by 350mm 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.

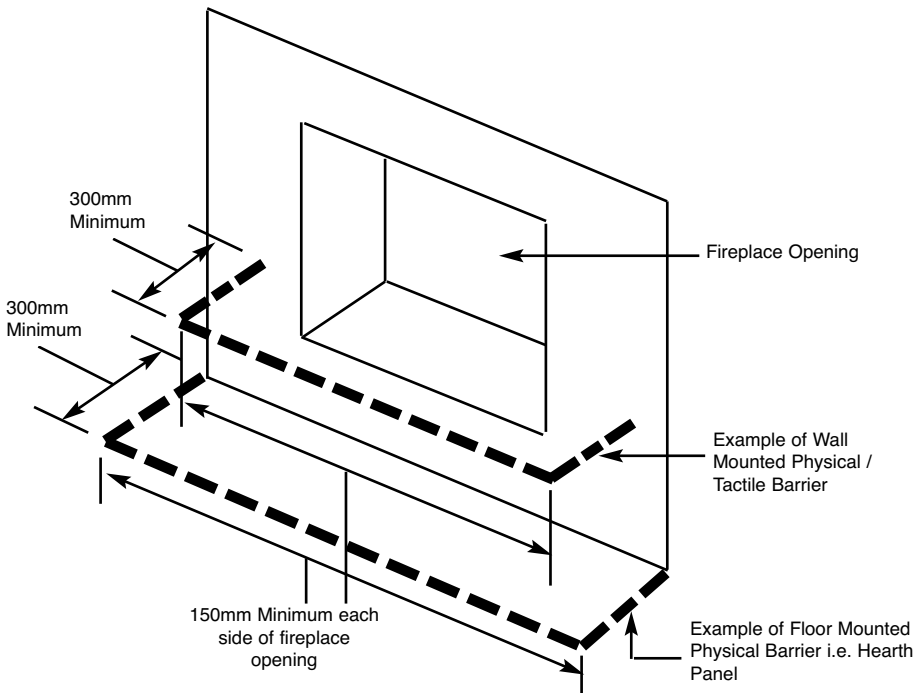
1.10 WALL / HEARTH MOUNTING

This appliance must be fitted on a flat, non-combustible base of minimum thickness 12mm. In addition, a non-combustible hearth or physical barrier should be provided in front of the fire.

With “hole in the wall” type installations, where it may be desirable not to fit a hearth panel or physical barrier, the product may be installed in accordance with Document J of the building regulations so that every part of the flame or incandescent material is at least 225mm above the floor level. For the customers safety, and in accordance with BS 5871-2, the fitting of a hearth panel or physical barrier should be carried out. Should this advice not be followed however, please give consideration to the safety of the occupants in the room to which the appliance is installed.

Any hearth panel or physical barrier that is fitted should project a minimum of 300mm forwards from the fire opening and 150mm either side of the fire opening, as shown below in figure 3. Any physical barrier must be securely fixed and be of robust design.

Fig. 3



1.11 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 :-**

- 1.11.1 The spillage monitoring system must not be adjusted by the installer.
- 1.11.2 The spillage monitoring system must not be put out of operation.
- 1.11.3 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 FIRE

Carefully lift the fire out of the carton. Remove the loose item packaging carefully from the front of the appliance. Check the contents as listed :-

Packing Check List

1 off	Fire box / burner assembly
1 off	Boxed ceramic log set (boxed inside combustion chamber)
1 off	Installation and user instruction book (combined)
1 off	Remote control handset
1 off	Guarantee
1 off	Fascia
4 off	AA batteries
1 off	9V battery
8 off	Wallplate fixing screws and rawlplugs
1 off	Flue restrictor baffle (for use in brick built chimneys and large diameter e.g. 175mm flue applications).
1 off	Draught diverter cover

2.2 INSTALLING THE FIRE BOX

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, insulated pre-fabricated metal flue box to BS 715 / BS EN 1856-2 or Pre-Cast Flue to BS EN 1858**

When installing into 125mm (5 inch) diameter lined brick or stone flue, or insulated pre-fabricated metal flue box to BS 715 / BS EN 1856-2 and pre-cast flues the restrictor baffle must not be fitted.

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. This product is designed to fit into a standard set of pre-cast starter blocks, without needing to move the blocks within the wall cavity. If the customer requires the product to be fitted at a height which requires modification to the pre-cast flue system, please consult a structural engineer regarding the re-positioning of the starter / collection blocks of the pre-cast flue system.

UNDER NO CIRCUMSTANCES SHOULD THE FIRE BE RECESSED INTO THE GATHER BLOCK, OFFSET OR STRAIGHT FLUE BLOCKS.

2.3 PREPARATION OF THE FIREBOX OPENING

- 2.3.1. If installing the product into a hole in the wall type installation, create an opening as shown in figure 4 below. If installing into a conventional opening with a hearth panel, create an opening as shown in figure 5 below.

Fig. 4 - Hole in the Wall Installations

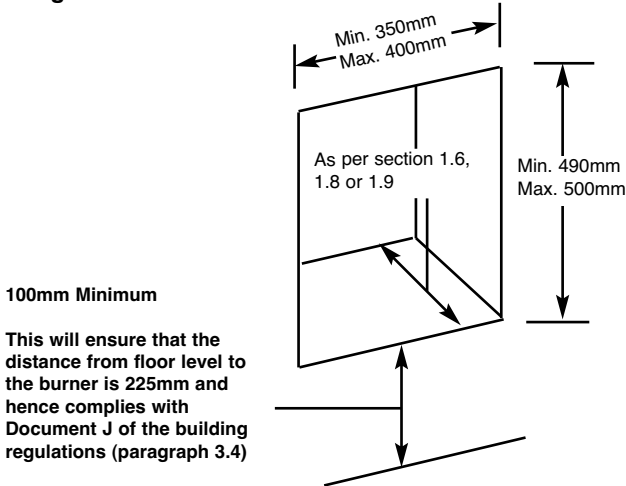
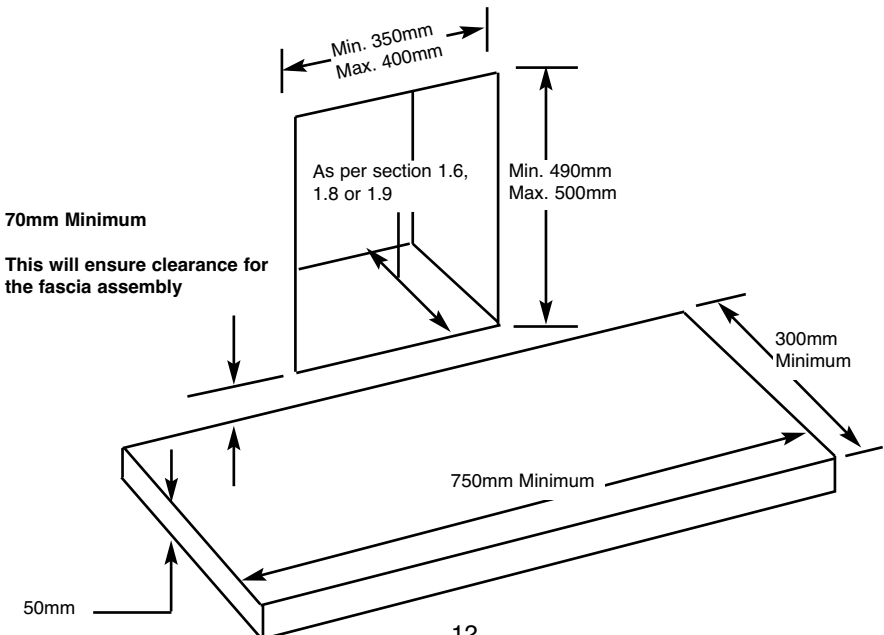
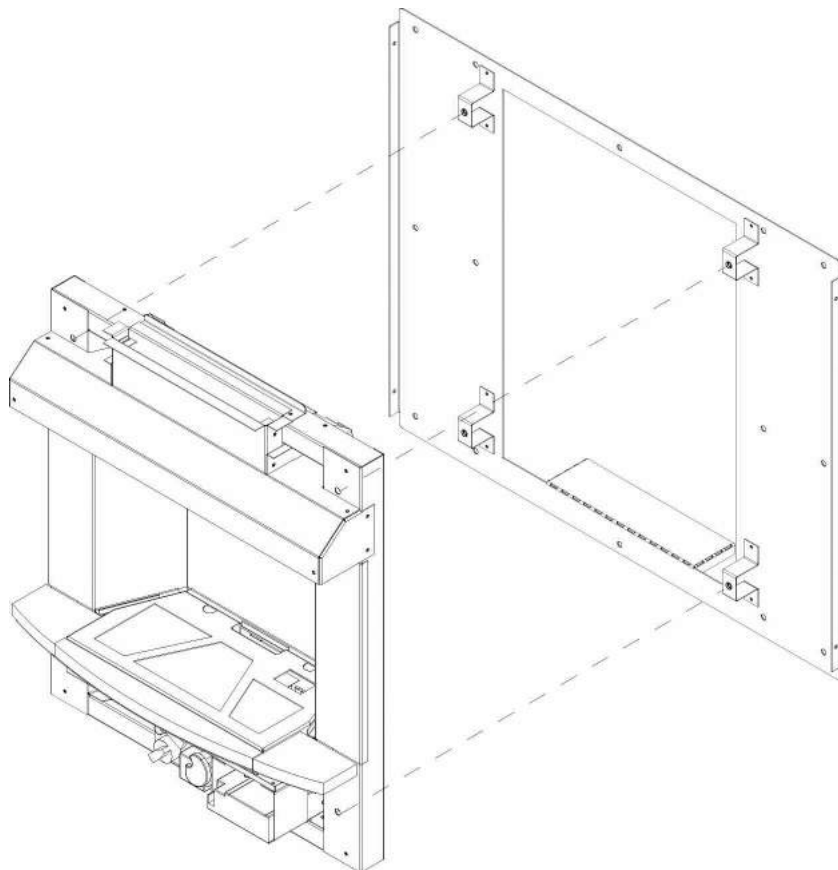


Fig. 5 - Conventional Installations



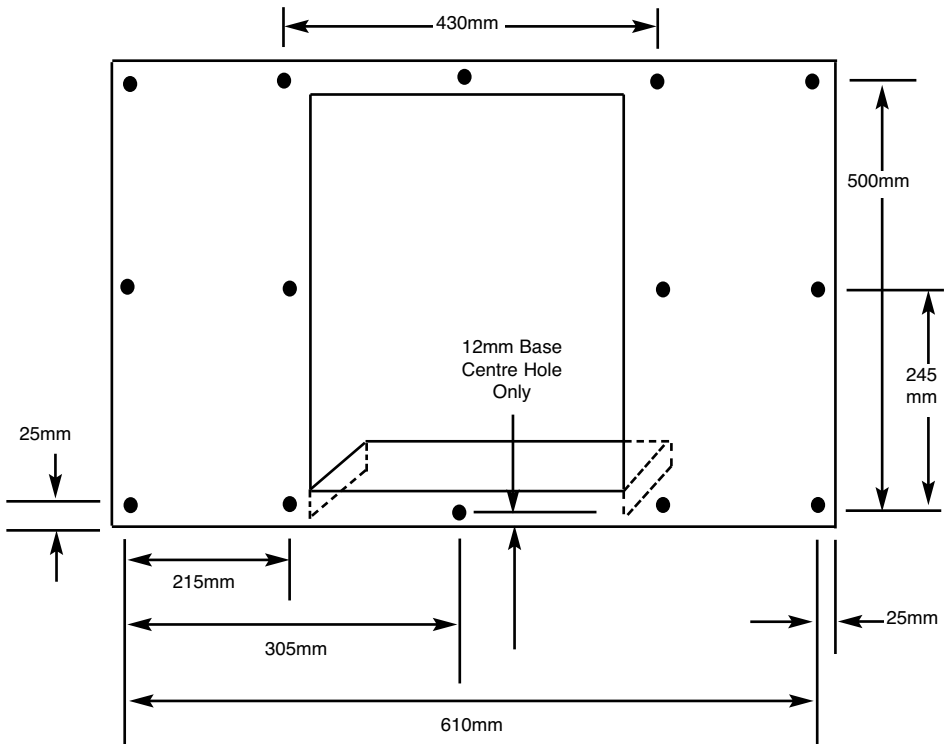
- 2.3.2 Remove the firebox / burner assembly from the packaging. Remove the fuel-bed set from the combustion chamber and store in a safe location. Remove the firebox mounting plate from the rear face of the firebox assembly by unscrewing the 4 off M5 retaining screws as shown below in figure 6.

Fig. 6



2.3.4 The firebox mounting plate should then be secured to the fireplace opening as created in section 2.3, via the mounting holes as indicated below in figure 7.

Fig. 7

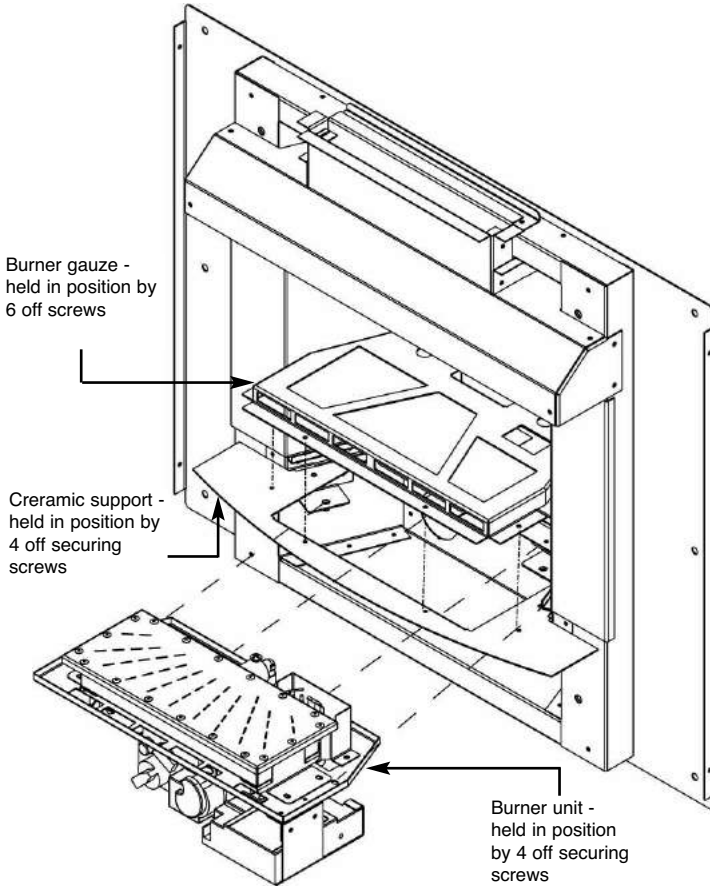


2.3.5 Drill minimum of 8 off holes to secure the firebox mounting plate (14 off holes are provided in the mounting plate to allow a variety of fixing positions) and secure the firebox mounting plate to the fireplace opening. Use a **minimum** of eight fixing points to ensure a satisfactory seal is achieved. It may be necessary to seal the plate with suitable tape if required.

2.3.6 Remove the burner unit from the fire as shown overpage in figure 8.

2.3.7 Remove the 6 off screws to remove the burner gauze, then 4 off screws to remove the ceramic support and finally 4 off burner mounting screws as shown below in figure 8, then lift the burner unit clear of the firebox.

Fig. 8



2.3.8 With the burner removed from the firebox, plan the routing of the gas supply pipe into the firebox. See overpage, section 2.3.9 for suggested pipework routing.

Continue for all models

- 2.3.9 Decide which side the gas supply is to enter the fire from. Plan the pipe run to enter the fire box through one of the openings in the sides or rear of the fire box below the fuelbed support panel and connect to the isolating / inlet elbow. 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 figure 9 & 10 below for suggested pipe layouts.

Fig. 9

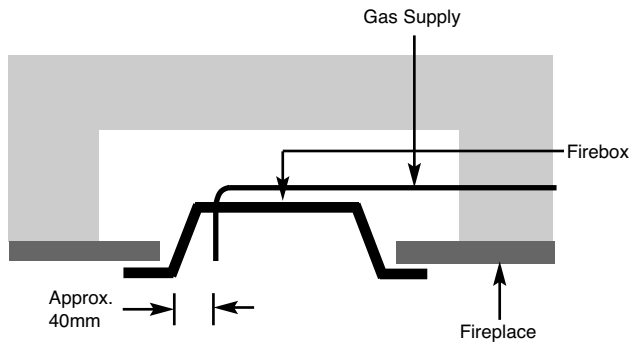
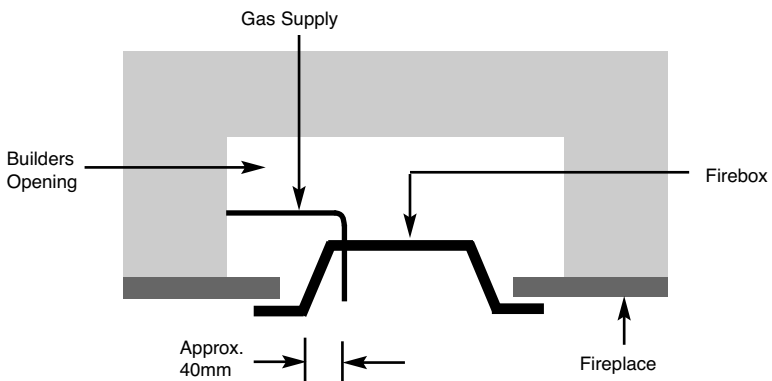


Fig. 10



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

- 2.3.10 Carefully withdraw the fire box from the opening to enable the gas supply and fire fixing to be completed.

- 2.3.11 With the fire securely in place, if a concealed gas connection has been made through the access holes in the rear of the fire, the holes should be closed around the pipe with the grommet supplied to prevent leakage of air through the gap around the pipe, **failure to do may lead to flame reversal, which will invalidate the guarantee.**
- 2.3.12 Refit the burner. Fit the four retaining screws and check that the burner is correctly locked into position.
- 2.3.13 Secure the firebox into the mounting plate with the four off M5 screws.
- 2.3.14 Before making the final gas connection, thoroughly purge the gas supply pipework to remove all foreign matter, otherwise serious damage may be caused to the gas control valve on the fire.**

2.4 GAS TIGHTNESS AND INLET PRESSURE

- 2.4.1 Remove the pressure test point screw from the inlet elbow and fit a manometer.
- 2.4.2 Turn on the main gas supply and carry out a gas tightness test.
- 2.4.3 Light the fire, see page 24-25 for full details of the operating method for the fire.
- 2.4.4 Check that the gas pressure is **20.0 mbar (+/- 1.0mbar) 8.0 in w.g.(+/- 0.4 in w.g.)**
- 2.4.5 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.

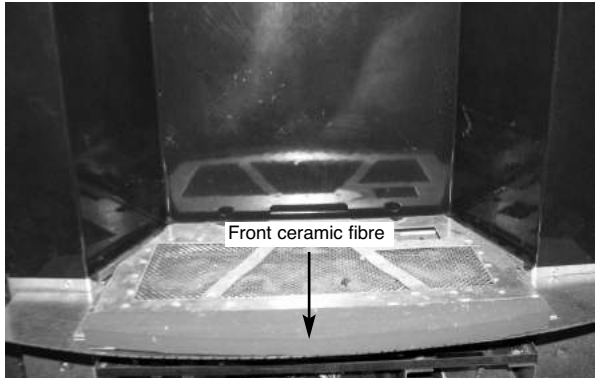
SECTION 3 ASSEMBLING FUEL BED AND COMMISSIONING

NOTE : 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.

3.1 ASSEMBLING THE CERAMICS AND FUEL BED

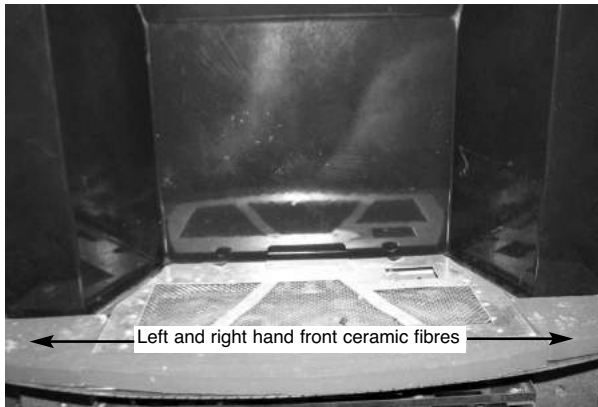
3.1.1 Place the fuel-bed front ceramic fibre as shown below in figure 11.

Fig. 11



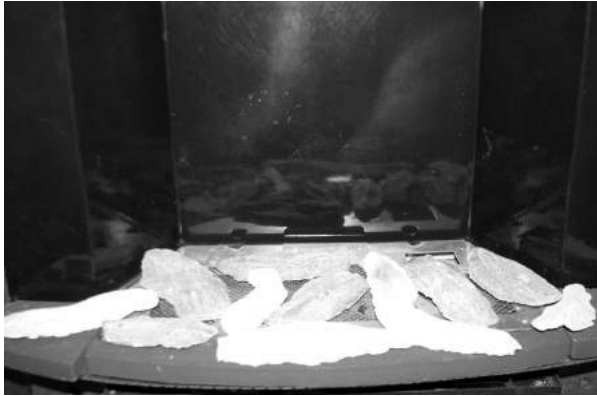
3.1.2 Place the left hand and right hand front ceramic fibre pieces as shown below in figure 12.

Fig. 12



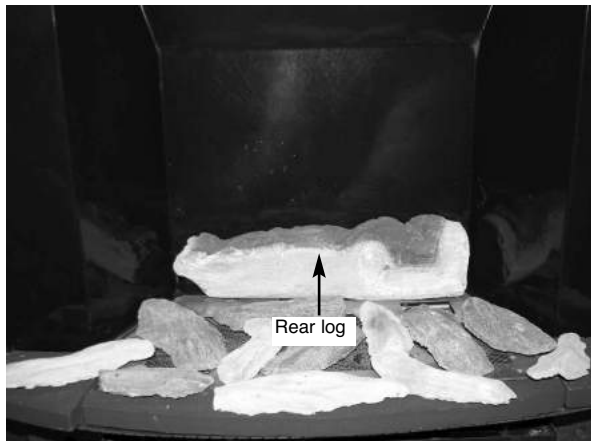
3.1.3 Place a single layer of bark chippings over the burner as shown below in figure 13.

Fig. 13



3.1.4 Fit the rear base log as shown below in figure 14.

Fig. 14



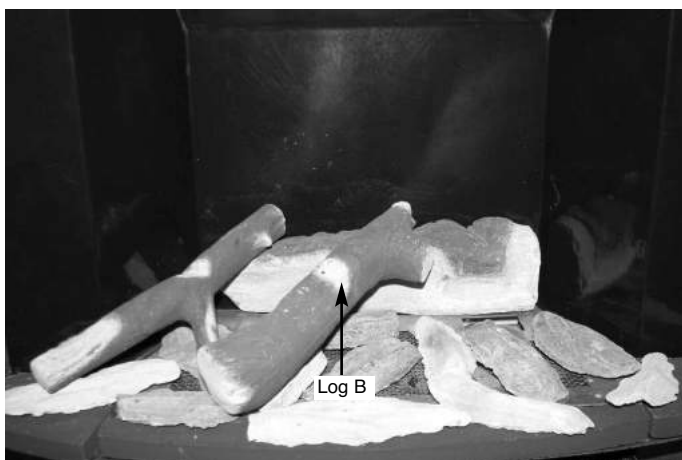
3.1.5 Fit log A as shown below in figure 15, onto the rear log.

Fig. 15



3.1.6 Fit log B as shown below in figure 16, onto the rear log.

Fig. 16



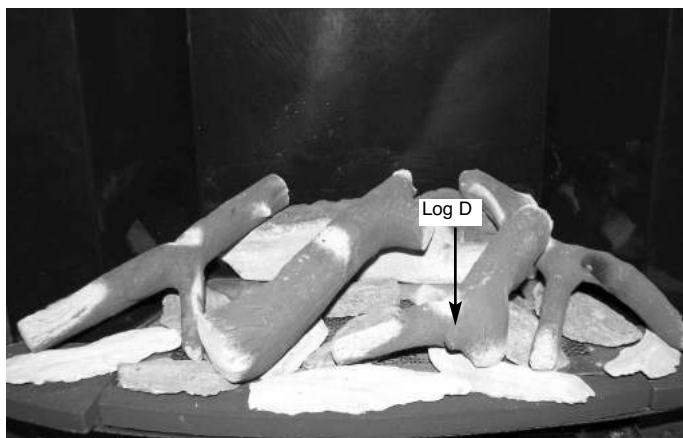
3.1.7 Fit log C as shown below in figure 17 onto the rear log.

Fig. 17



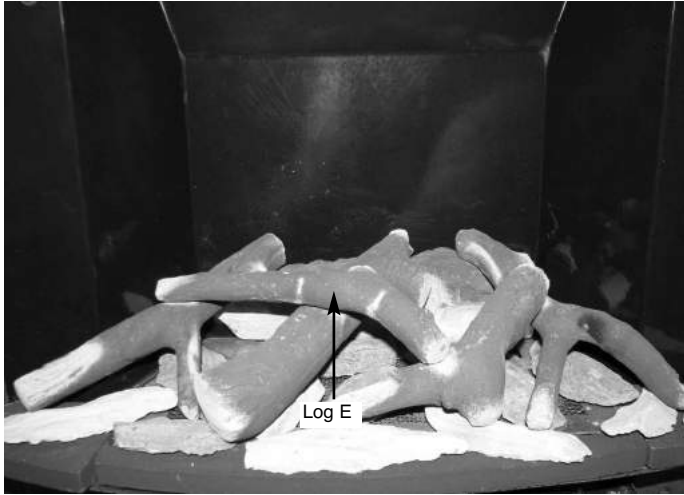
3.1.8 Fit Log D as shown below in figure 18, using the cut-out in Log C as a guide for placement.

Fig. 18



3.1.9 Fit Log E as shown below in figure 19, using the cut-out's in Log D and Log A as a guide for placement.

Fig. 19



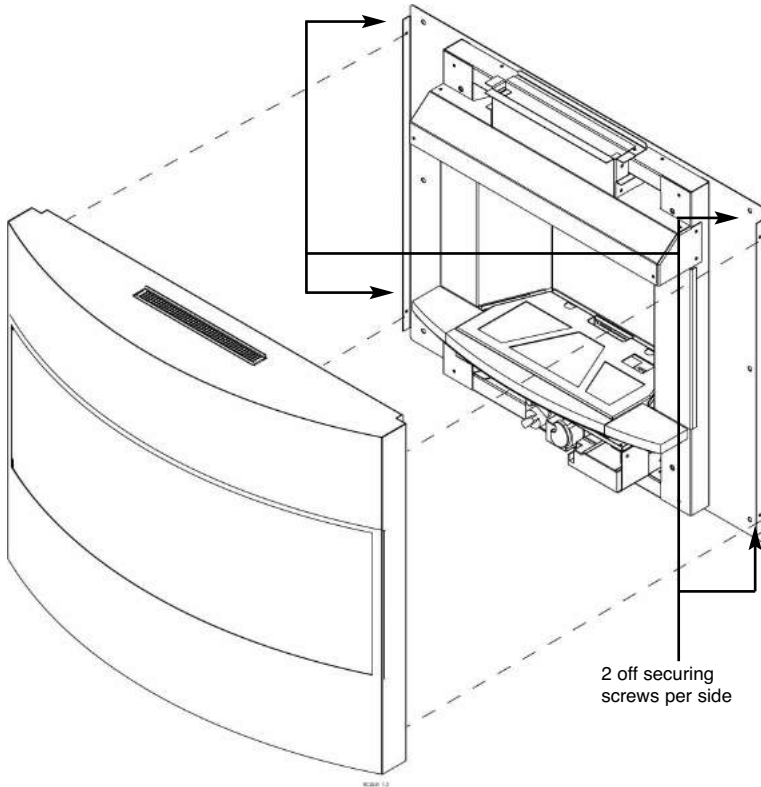
Warning : Use only the logs supplied with the fire. When replacing the logs remove the old logs and discard them. Fit a complete set of logs of the correct type. Do not fit additional logs or any logs other than a genuine replacement set.

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 FITTING THE FASCIA

- 3.2.1 Fit the fascia as shown below in figure 20, and secure with 2 off screws per side. Ensure the top edge of the fascia has hooked over the top edge of the firebox.

Fig. 20

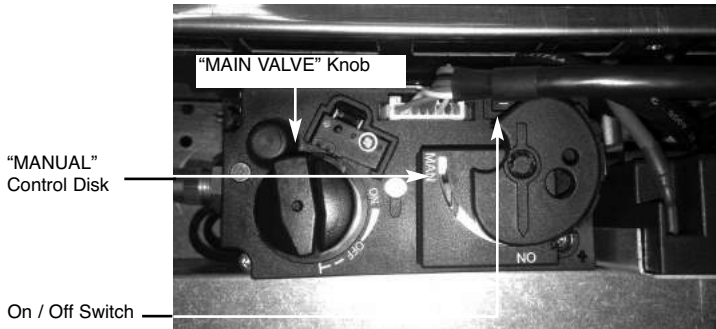


- 3.2.2 Fit the draught diverter cover (as supplied in the loose items pack) as shown in section 3.5

3.3 LIGHTING THE APPLIANCE

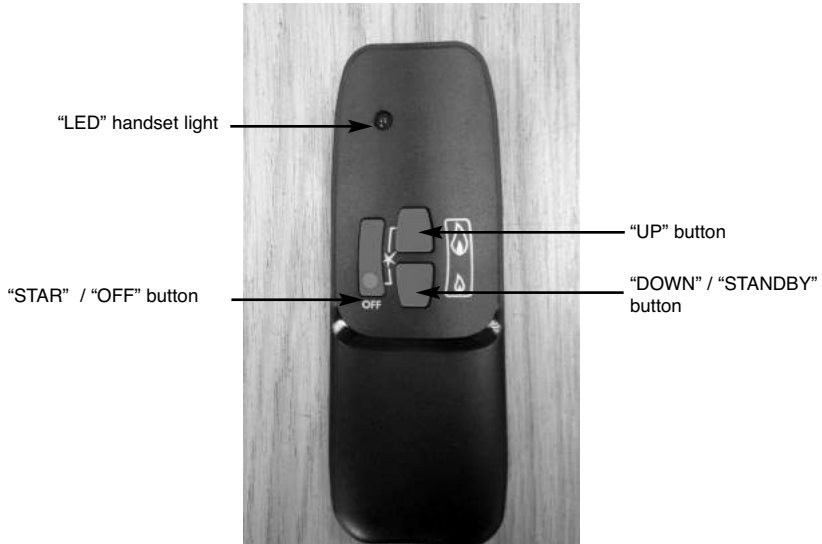
- 3.3.1 The control valve is positioned below the burner unit when viewed from the front.
- 3.3.2 To operate the appliance automatically via the remote control handset, ensure that the on / off switch is switched to the “on” position as shown below in figure 21.

Fig. 21



- 3.3.3 Switch the MANUAL control disc to the “on” position.
- 3.3.4 Switch the main valve knob to the “OFF” position.
- 3.3.5 Press and hold the “STAR” button and “UP” button on the remote handset simultaneously, see figure 22 overpage for image of handset.
- 3.3.6 The valve will then emit an audible beep and commence its ignition sequence. When the pilot flame has been established, the control will continue to beep whilst the thermocouple heats up. When the thermocouple has reached operating temperature, it will allow gas to flow to the burner and the burner will light at high rate heat input

Fig. 22



- 3.3.7 To reduce the heat input, press the "DOWN / STANDBY" button until the flame reduces to the low rate heat input setting. "DOWN" arrow on the handset. To reduce the flame height of the main burner incrementally, press the arrow momentarily. To reduce the heat input directly down to the minimum level, press the "SMALL" flame arrow on the handset twice. If you wish to turn off the fire altogether, press the "STAR" / "OFF" button.

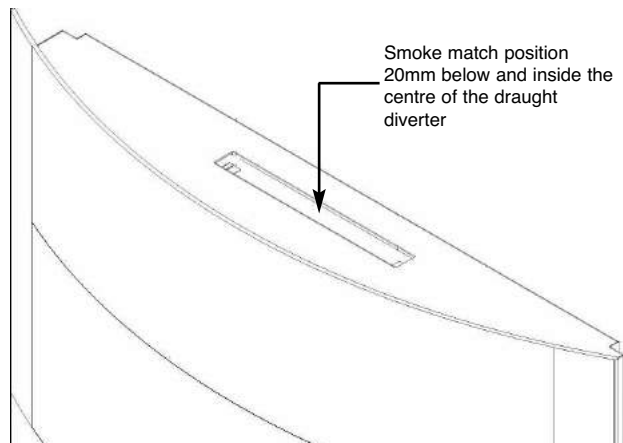
AFTER THE PILOT FLAME HAS BEEN EXTINGUISHED, IF YOU WISH TO RE-LIGHT THE APPLIANCE YOU MUST WAIT AT LEAST THREE MINUTES BEFORE TRYING TO RE-LIGHT THE FIRE.

- 3.3.8 Should the handset be misplaced, you can turn the fire off by switching the "ON / OFF" switch to the "OFF" position.

3.4 CHECKING FOR CLEARANCE OF COMBUSTION PRODUCTS

- 3.4.1 Close all doors and windows in the room.
- 3.4.2 Light the fire and allow to run for approximately 5 minutes on high position.
- 3.4.3 After approximately 5 minutes hold a smoke match 20mm inside the draught diverter aperture at the centre as shown below in figure 23. (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. **If the test indicates that spillage is occurring and the flue restrictor baffle has been fitted, it should be removed (see section 3.6) and the test repeated after the fire has cooled.**
- 3.4.4 If spillage persists, 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.
- 3.4.5 If there is an extractor fan fitted any where in the vicinity of the appliance, the spillage test should be repeated with the fan running on maximum and all interconnecting doors open.
- 3.4.6 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. Fit the draught diverter cover as shown in section 3.5. Finally, hand the Installation and maintenance Instructions and the users Instructions over to the customer and explain the operation of the fire.

Fig. 23

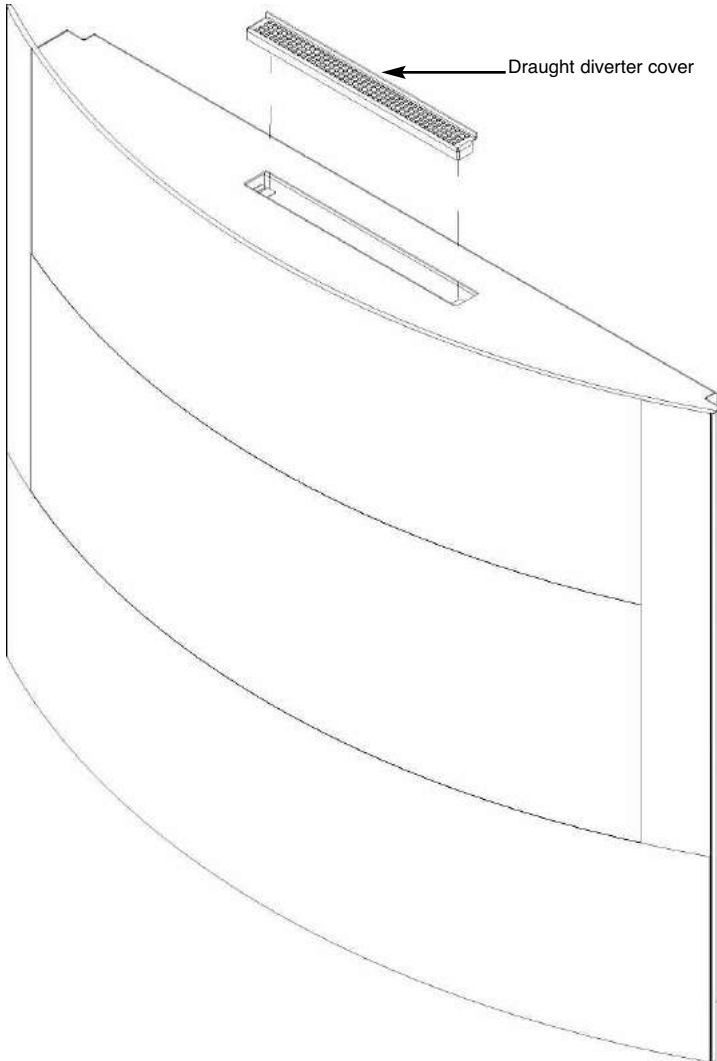


3.5 REMOVAL & RE-FITTING THE DRAUGHT DIVERTER COVER

3.5.1 The draught diverter cover plate is supplied in the loose items pack.

3.5.2 Position in the glass fascia assembly as shown below in figure 24.

Fig. 24

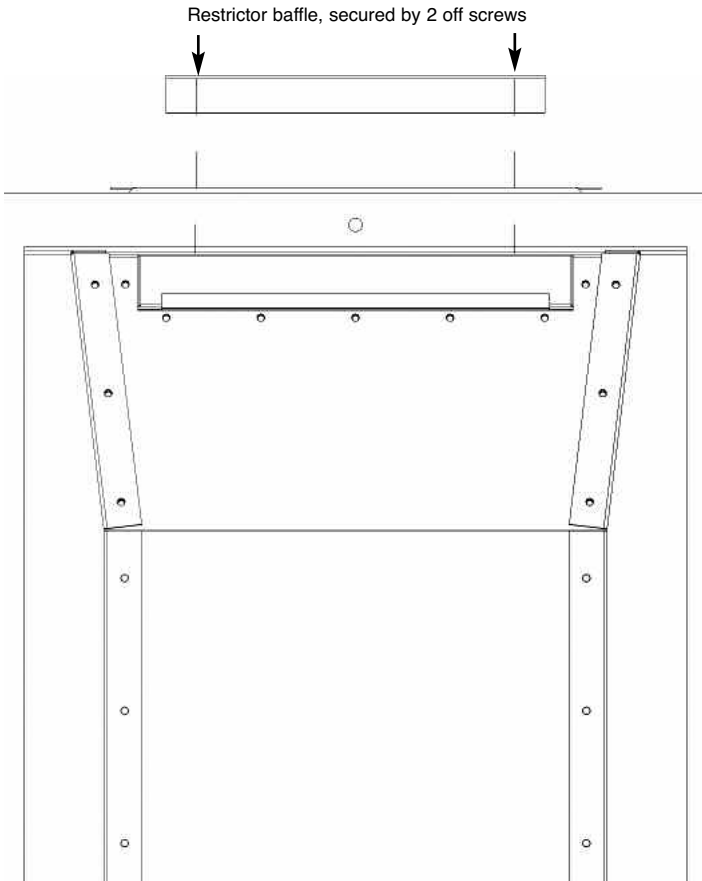


3.6 REMOVAL / RE-FITTING OF THE FLUE RESTRICTOR BAFFLE

3.6.1 The flue restrictor baffle is supplied in the loose items pack. When installing into 125mm (5 inch) diameter lined brick or stone flue, or insulated pre-fabricated metal flue box to BS 715 / BS EN 1856-2 and pre-cast flues the restrictor baffle **must not be fitted**.

3.5.2 Fit to the rear of the firebox via 2 screws as shown below in figure 25.

Fig. 25



SECTION 4 MAINTENANCE

Servicing Notes

Servicing should be carried out annually by a competent person such as a GAS SAFE registered engineer and must include an annual Oxy-pilot change. **This is a condition of the Flavel Fires 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 logs 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.**

Remote Control Fires - For Diagrams refer to section 2

4.1 Removing the Burner Assembly

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

4.1.2 Firstly remove the glass fascia assembly by removing the 2 off screws at the L/H & R/H sides and then lift the glass fascia assembly clear, see section 3.2 for diagram.

4.1.3 Remove the fuel-bed logs and bark chippings and L/H, R/H & central ceramic inlays, see section 3.1 for diagrams.

4.1.4 Remove the 6 off screws to remove the burner gauze, then 4 off screws to remove the ceramic support and finally 4 off burner mounting screws then lift the burner unit clear of the firebox, see section 2.37 for diagram.

NOTE : Please take care with the wiring.

4.1.5 To refit the burner assembly, re-assemble in reverse order and carry out a gas tightness test. Refit the fuel-bed referring to section 3 for the correct coal layout. The fascia can now be replaced, see section 3.2 for diagram.

4.6 Removing the gas valve from the fire

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

4.2.2 Remove the burner assembly as described in section 4.1

- 4.2.3 Disconnect pilot, main and injector pipes and disconnect the wiring loom thermocouple and ignition wire, the valve can then be removed.
Re-assemble in reverse order, refit the fuel-bed referring to section 3.1 for the correct coal layout. The fascia can now be replaced, see section 3.2 for diagram.

4.3 Removing the 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.

- 4.3.1 Prepare work area (lay down dust sheets etc.)
- 4.3.2 Remove the burner assembly as described in section 4.1
- 4.3.3 Remove the pilot shield, which is held in position by two screws. Loosen the pilot nut and remove the two screws retaining the pilot assembly. Unscrew the thermocouple from the gas valve.
- 4.3.4 Re-assemble in reverse order, Refit the fuel-bed referring to section 3.1 for the correct layout. The fascia can now be replaced, see section 3.2 for diagram.

4.4 Replacing the batteries (within the radio frequency receiver)

- 4.4.1 Prepare work area (lay down dust sheets etc.)
- 4.4.2 Firstly remove the glass fascia assembly by removing the 2 off screws at the L/H & R/H sides and then lift the glass fascia assembly clear, see section 3.2 for diagram.
- 4.4.3 The RF receiver is located on the right hand side of the product, below the burner assembly. Remove the two off screws on the bracket at the right hand side, this will allow the unit to be tilted downwards and forwards. Slide the battery cover off and replace the batteries as necessary.
- 4.4.4 Refit the fascia, see section 3.2 for diagram
- NB The handset uses one LR61 (9v) and should be replaced by removing the cover on the rear of the handset.

ENSURE THE BATTERIES ARE CONNECTED TO THE CORRECT POLARITY POSITIVE (+), NEGATIVE (-)

PARTS SHORTLIST

Replacement of parts must be carried out by a competent person such as a GAS SAFE registered gas installer. The part numbers of the replaceable parts are as follows, these are available from BFM Europe Ltd. who may be contacted at the address shown below.

Complete log set	B-167640
Rear log	B-167650
Log A	B-167660
Log B	B-167670
Log C	B-167680
Log D	B-167690
Log E	B-167700
L/H ceramic front fibre	B-160150
R/H ceramic front fibre	B-160160
Centre ceramic front fibre	B-164300
Bark chippings	B-167710
Complete glass fascia assembly	1156-168750
Remote valve	B-92200
ODS pilot	CV-104500

SECTION FIVE - USER INSTRUCTIONS

5.1 INSTALLATION INFORMATION

CONDITIONS OF INSTALLATION

It is the law that all gas appliances are installed only by a competent (e.g. GAS SAFE registered Installer), in accordance with the installation instructions and the Gas Safety (Installation and Use) Regulations 1998. 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 fire may be fitted below a combustible shelf provided that the shelf is at least 200mm above the top of the appliance and the depth of the shelf does not exceed 150mm.

The fire may be installed below combustible shelves which exceed 150mm deep providing that the clearance above the fire is increased by 15mm for each 25mm of additional overhang in excess of 150mm.

No purpose made additional ventilation is normally required for this appliance when installed in G.B. When installed I.E. please consult document I.S. 813 : 1996 Domestic Gas Installation which is issued by the National Standards Authority of Ireland. Any purpose made ventilation should be checked periodically to ensure that it is free from obstruction.

If the chimney or flue has been previously used by appliances burning fuels other than gas they must be swept prior to the installation of this fire.

If this appliance is fitted directly on to a wall without the use of a fireplace or surround, soft wall coverings such as wallpaper, blown vinyl etc. could be affected by the heat and hot convection air and may discolour or scorch. This should be considered when installing or decorating.

The Model number of this appliance is as stated on the rating plate affixed to the control panel of the fire and the appliance is manufactured by:-

BFM Europe Ltd
Trentham Lakes
Stoke on Trent
ST4 4TJ

ABOUT YOUR NEW FLAVEL CASTELLE

The Flavel Castelle log effect gas fire incorporates a unique and highly developed fuel bed which gives the realism of a loose log layout combined with realistic flames and glow. The use of durable ceramic material in the construction of the fuelbed 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 logs, 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 GAS SAFE 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. We recommend that during the annual service, replacement of the Oxypilot is carried out. **This is a condition 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 logs must be used and only complete and genuine replacement sets must be used.

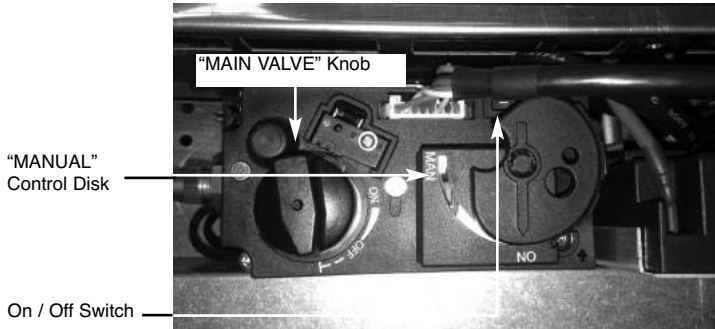
Always keep furniture and combustible materials well clear of the fire and never dry clothing or items either on or near to the fire. Never use aerosols or flammable cleaning products near to the fire when it is in use.

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 - REMOTE CONTROL VARIANTS

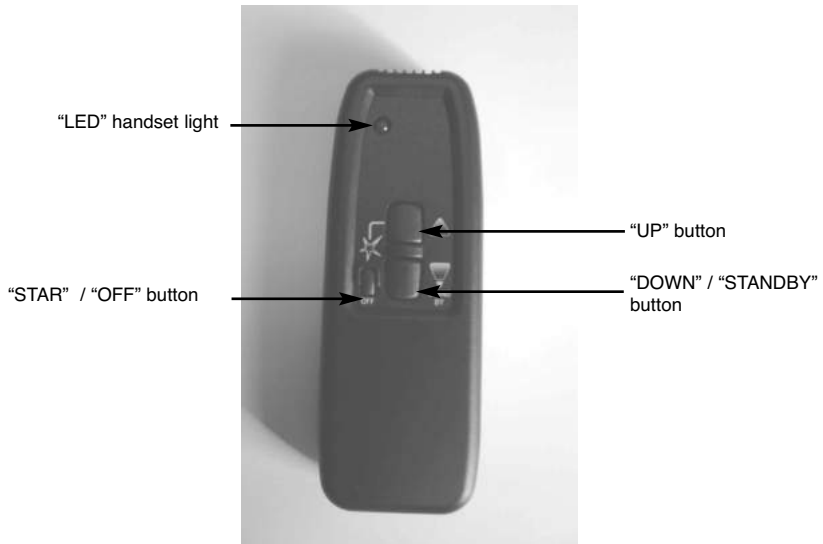
- 5.2.1 Open the controls access door. The control valve is positioned in the centre of the fire when viewed from the front.
- 5.2.2 To operate the appliance automatically via the remote control handset, ensure that the on / off switch is switched to the “on” position as shown below in figure 1.

Fig. 1



- 5.2.3 Switch the MANUAL control disc to the “ON” position.
- 5.2.4 Switch the main valve knob to the “OFF” position.
- 5.2.5 Press and hold the “STAR” button and “UP” button on the remote handset simultaneously, see figure 2 overpage for image of handset.
- 5.2.6 The valve will then emit an audible beep and commence its ignition sequence. When the pilot flame has been established, the control will continue to beep whilst the thermocouple heats up. When the thermocouple has reached operating temperature, it will allow gas to flow to the burner and the burner will light at high rate heat input.

Fig. 2



5.2.7 To reduce the heat input, press the "DOWN / STANDBY" button until the flame reduces to the low rate heat input setting. "DOWN" arrow on the handset. To reduce the flame height of the main burner incrementally, press the arrow momentarily. To reduce the heat input directly down to the minimum level, press the "SMALL" flame arrow on the handset twice. If you wish to turn off the fire altogether, press the "STAR" / "OFF" button.

AFTER THE PILOT FLAME HAS BEEN EXTINGUISHED, IF YOU WISH TO RE-LIGHT THE APPLIANCE YOU MUST WAIT AT LEAST THREE MINUTES BEFORE TRYING TO RE-LIGHT THE FIRE.

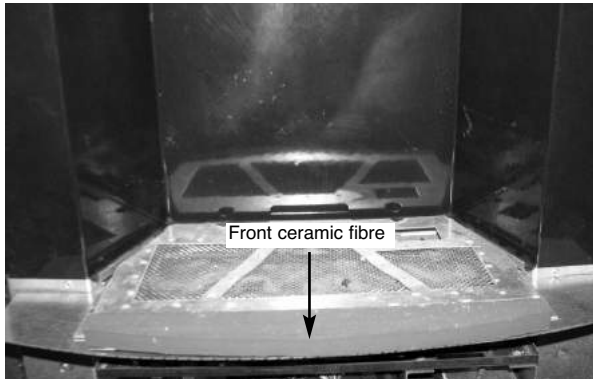
5.3 SPILLAGE MONITORING SYSTEM

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 GAS SAFE registered gas installer must be called to investigate and rectify the cause.**

5.4 ASSEMBLING THE CERAMICS AND FUEL BED

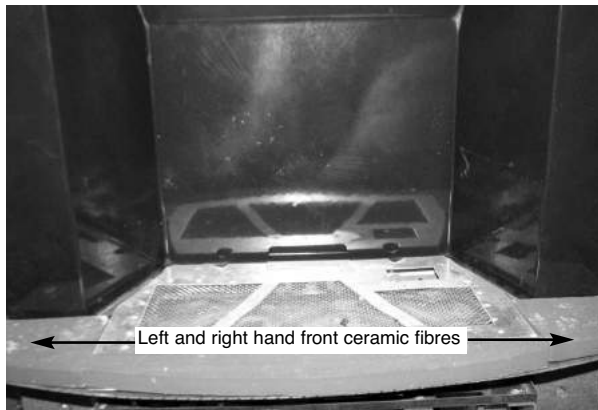
5.4.1 Place the fuel-bed front ceramic fibre as shown below in figure 1.

Fig. 1



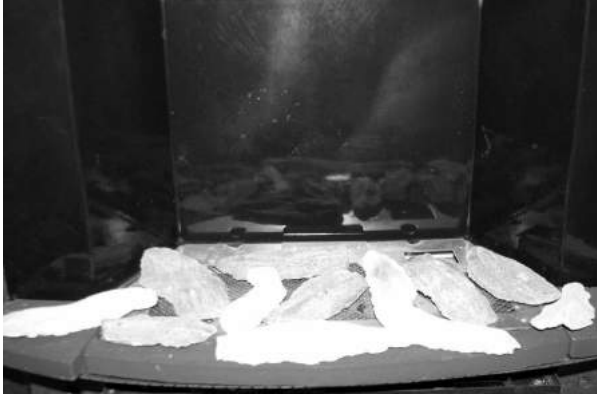
5.4.2 Place the left hand and right hand front ceramic fibre pieces as shown below in figure 2.

Fig. 2



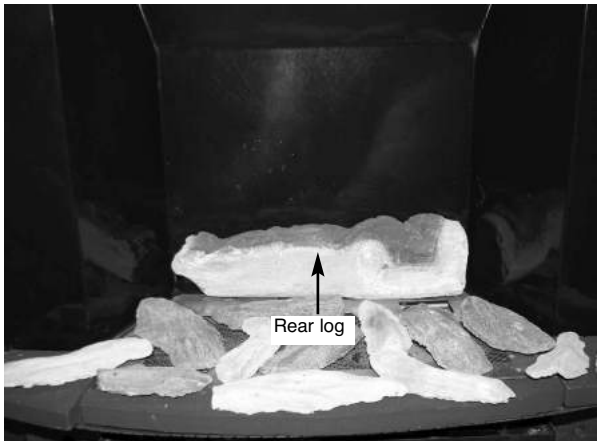
5.4.3 Place a single layer of bark chippings over the burner as shown below in figure 3.

Fig. 3



5.4.4 Fit the rear base log as shown below in figure 4.

Fig. 4



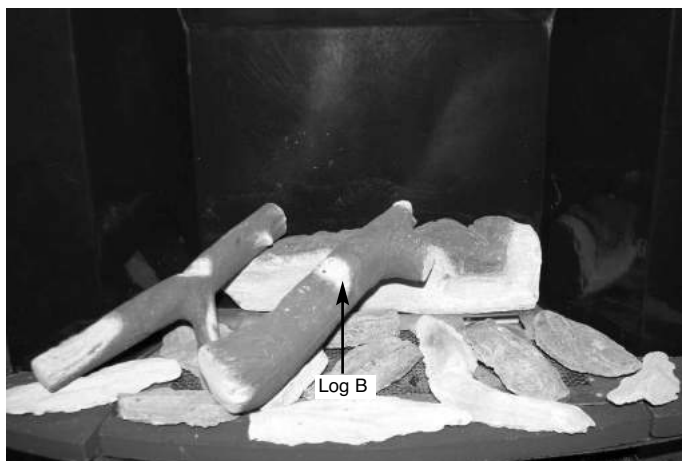
5.4.5 Fit log A as shown below in figure 5, onto the rear log.

Fig. 5



5.4.6 Fit log B as shown below in figure 6, onto the rear log.

Fig. 6



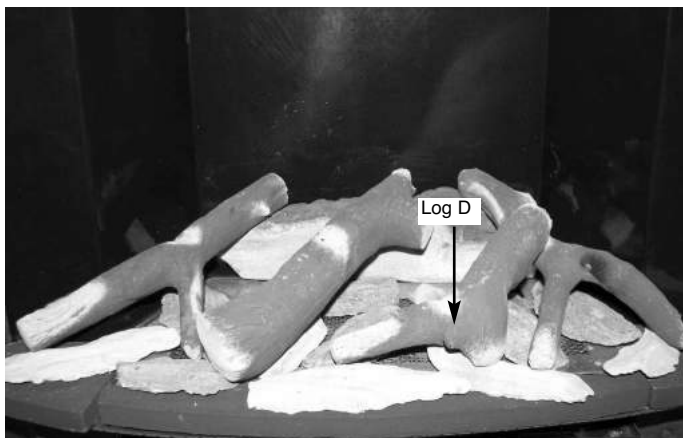
5.4.7 Fit log C as shown below in figure 7 onto the rear log.

Fig. 7



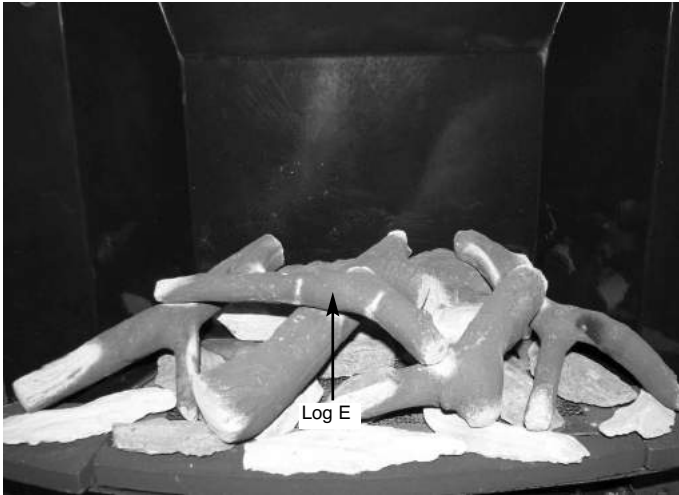
5.4.8 Fit Log D as shown below in figure 8, using the cut-out in Log C as a guide for placement.

Fig. 8



5.4.9 Fit Log E as shown below in figure 9, using the cut-out's in Log D and Log A as a guide for placement.

Fig. 9



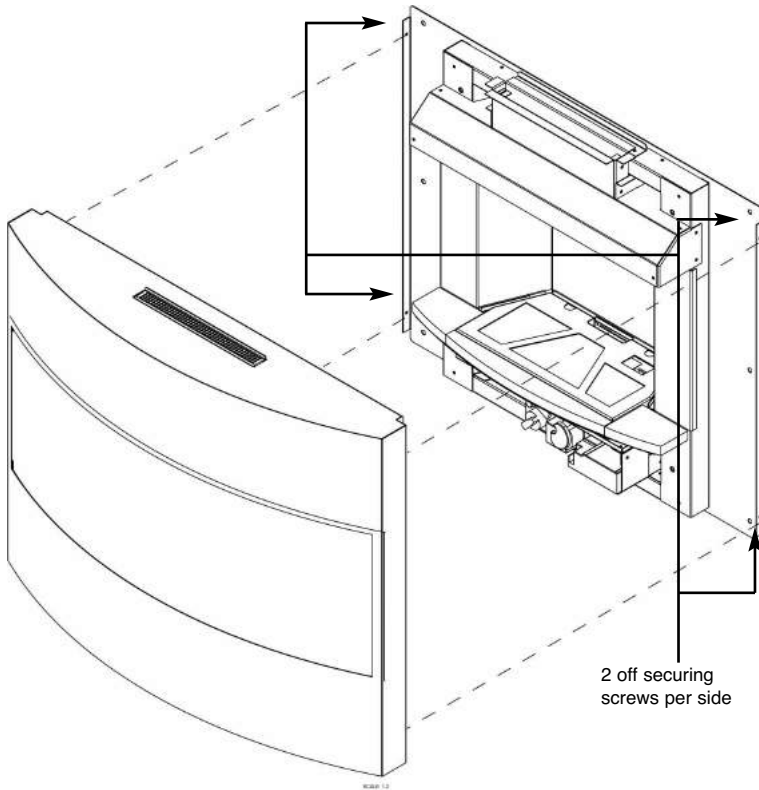
Warning : Use only the logs supplied with the fire. When replacing the logs remove the old logs and discard them. Fit a complete set of logs of the correct type. Do not fit additional logs or any logs other than a genuine replacement set.

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.

5.5 REMOVAL & RE-FITTING THE GLASS FASCIA

- 5.5.1 Fit the fascia as shown below in figure 10, and secure with 2 off screws per side. Ensure the top edge of the fascia has hooked over the top edge of the firebox.

Fig. 10

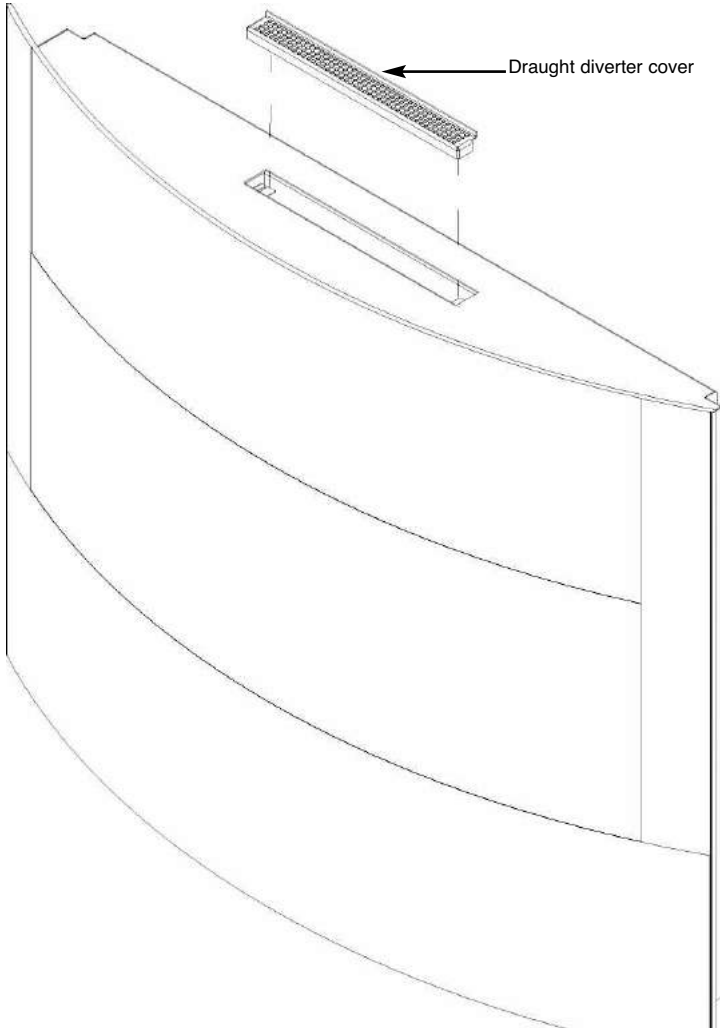


- 5.5.2 Fit the draught diverter cover as shown in section 5.6

5.6 REMOVAL & RE-FITTING THE DRAUGHT DIVERTER COVER

- 5.6.1 The draught diverter cover plate can be removed for cleaning purposes or during routine removal / replacement of the glass fascia assembly.
- 5.6.2 Simply lift from the glass fascia assembly as shown below in figure 11 and replace in reverse order as necessary.

Fig. 11



5.7 CLEANING THE FUEL-BED / GLASS FASCIA ASSEMBLY

We do not recommend cleaning of the logs 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 your dealer or telephoning BFM Europe Ltd. on the number stated on the rear cover of this book. The logs must only be replaced with a complete and genuine replacement set and the fire must never be run with the wrong number or damaged logs. The fuel-bed must be carefully re-assembled as stated in section 5.4.

To clean the glass panel, please remove it from the product as described in section 5.5.

Use a clean damp cloth and ceramic glass cleaner to remove any stains or deposits from the glass panel. Do not use scouring pads as this may scratch the surface finish of the glass panel.

PLEASE NOTE :- The glass will require cleaning periodically. Condensation produced by the products of combustion will create marks on the inside face of the glass panel.

5.8 USER REPLACEABLE PARTS

The only user replaceable parts on this fire are the fuelbed components and the glass fascia assembly which may be replaced as described in section 5.4/5.5

Replacement of any other parts must be carried out by a competent person such as a GAS SAFE registered gas installer. The part numbers of the user replaceable parts are as follows, these are available from BFM Europe Ltd. who may be contacted at the number on the rear cover of this book.

Complete log set	B-167640
Rear log	B-167650
Log A	B-167660
Log B	B-167670
Log C	B-167680
Log D	B-167690
Log E	B-167700
L/H ceramic front fibre	B-160150
R/H ceramic front fibre	B-160160
Centre ceramic front fibre	B-164300
Complete glass fascia assembly	1156-168750

Due to our policy of continual improvement and development the exact accuracy of illustrations and descriptions contained in this book cannot be guaranteed

**Part No. B-171060
Issue 2**



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