BFM Europe

BRITISH FIRE MANUFACTURERS

Avelli

BALANCED FLUE LOG EFFECT GAS FIRE

Installation, Maintenance & User Instructions

Hand these instructions to the user

Model No's BBFLRN2 is only for use on Natural Gas (G20) at a supply pressure of 20 mbar in G.B. / I.E.**

**** denotes cosmetic variant**

CONTENTS

This appliance is manufactured by :-

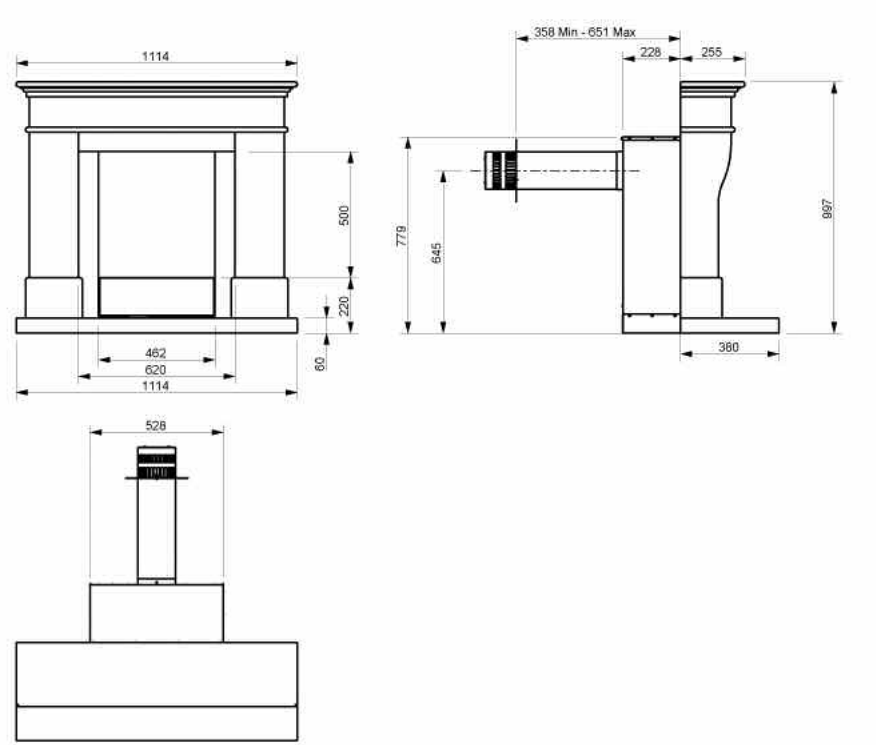
BFM Europe Ltd, Trentham Lakes,
Stoke-on-Trent, ST4 4TJ.

SECTION 1
INFORMATION AND REQUIREMENTS

1.0 APPLIANCE INFORMATION

Model	BBFL**RN2 ** denotes cosmetic variant of product
Gas Type	G20
Main injector (1 off)	Size 380
Pilot Type	Black Technigas “Polidoro” G27.2
Max. Gross Heat Input :	5.7 kW
Min. Gross Heat Input :	4.4 kW
Gas Rate :	0.529 m^3/hr
Cold Pressure :	20.0 +/-1.0 mbar
Ignition :	6V Battery Ignition
Electrode Spark Gap	4.0mm
Packed Weight	48 kg
Gas Connection :	8mm Compression (supplied with fire)

Fig. 1



INSTALLATION REQUIREMENTS

Efficiency Declaration

The efficiency of this appliance has been measured as specified in BS EN 613 : 2001 and the result after conversion to Gross using the appropriate factor from Table 4 of SAP 2009 is 76%. 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.

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. B.S. 5871 Part 1 Installation of Gas Fires
2. B.S. 6891 Installation of Gas Pipework
3. B.S. 5440 Parts 1 & 2 Installation of Flues and Ventilation
4. I.S 813 : 1996 Domestic Gas Installation, issued by the National Standards Authority of Ireland.

1.2 FIREPLACE / SURROUND SUITABILITY

The fire must only be installed with the hearth supplied it **must not be installed directly onto carpet or other combustible floor materials.**

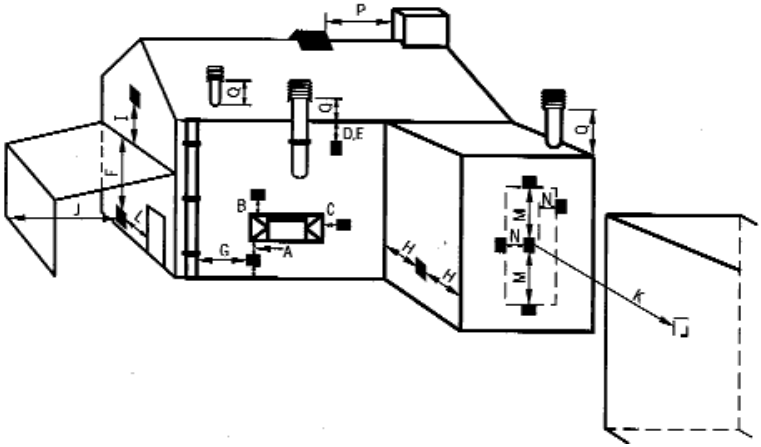
If a heating appliance is fitted directly against a wall combustible material must be removed from behind it. Soft wall coverings such as blown vinyl, wall paper etc. could be affected by the rising hot air and scorching and/or discoloration may result. Due consideration should be made to this when installing or decorating.

This product can only be installed with surround designs available from BFM Europe Ltd or designs which meet the criteria as required by BFM Fires. For further details of specification requirements please contact BFM Europe Technical Service.

1.3 FLUE TERMINAL POSITION

The minimum acceptable dimensions from the flue terminal to obstructions and ventilation openings are shown below and listed in the table
It is important that the position of the flue allows the free passage of air across it at all times. The minimum acceptable space from the flue terminal to obstructions and ventilation openings are specified below (fig. 2)

Fig. 2



DIMENSION	TERMINAL POSITION	MINIMUM DIMENSION
A	Directly below an opening, air brick, opening window	300mm (12in)
B	Above an opening, air brick, opening window	300mm (12in)
C	Horizontally to an opening, air brick, opening window etc.	300mm (12in)
D	Below gutters, soil pipes or drain pipes	300mm (12in)
E	Below eaves	300mm (12in)
F	Below balconies or car port roof	600mm (12in)
G	From a vertical drain pipe or soil pipe	300mm (12in)
H	From an internal or external corner	600mm (24in)
I	Above ground roof or balcony level	300mm (12in)
J	From a surface facing the terminal	600mm (24in)
K	From a terminal facing the terminal	600mm (24in)
L	From an opening in the car port	1200m (48in)
M	Vertically from a terminal on the same wall	1500mm(59in)
N	Horizontally from a terminal on the same Wall	300mm (12in)
O	NOT APPLICABLE	N/A
P	NOT APPLICABLE	N/A
Q	NOT APPLICABLE	N/A

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 HEARTHS

This appliance must only be installed with the BFM Europe supplied hearth panel or an alternative item as dimensionally approved by BFM Europe.

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 - All Models

Pack 1 of 2 - Combustion Chamber Pack

1 off	Combustion chamber & glass frame assembly	
1 off	Boxed ceramic fuel-bed set (packed inside combustion chamber)	
1 off	Wall plate	
1 off	Flue terminal / pipe unit	
1 off	Flue terminal guard	
1 off	Installation / user book (combined)	
1 off	Loose items pack – containing :-	1 off 9V battery, 4 off 1.5V batteries remote handset, 1 off handset wall brkt (inc. fixings), 1 off glass removal tool, 4 off M5 locknuts, 4 off 8mm rawlpugs & fixing screws, 2 off surround leg securing brackets.

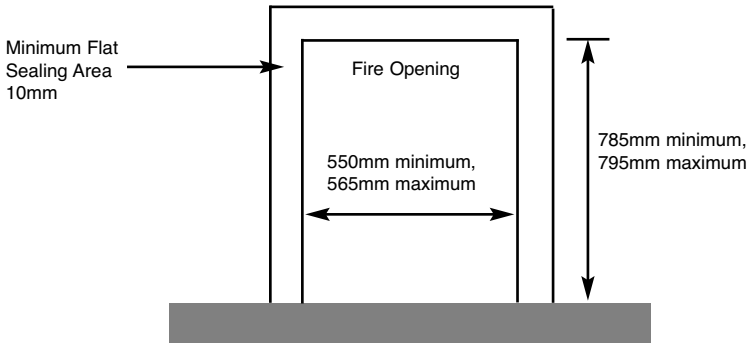
Pack 2 of 2 - Limestone or Travertine Surround

1 off	Hearth	1 off L/H leg
1 off	Shelf	1 off R/H leg
1 off	Top infill	1 off Controls access panel
1 off	Shelf infill section	
1 off	Firebox / burner assembly	

2.2 FIRE PLACE OPENING

a) The front opening of the fire place must be between 550 and 565mm wide and between 785mm and 795mm high. If the opening exceeds these dimensions then a surround must be constructed from suitable non-combustible material to produce a suitable sized opening. Any surround must be suitably sealed to the fire place to prevent leakage. See fig. 3 below

Fig. 3



b) The minimum / maximum sized distances between the firebox mounting flange and outside wall are shown below and overpage in fig. 4 & 5

Fig. 4

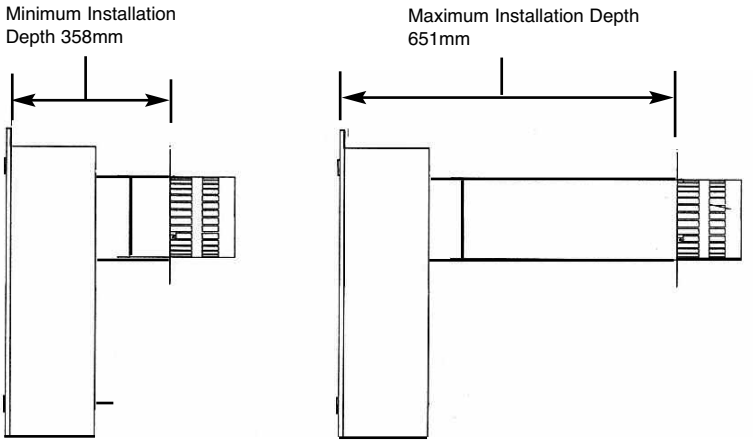
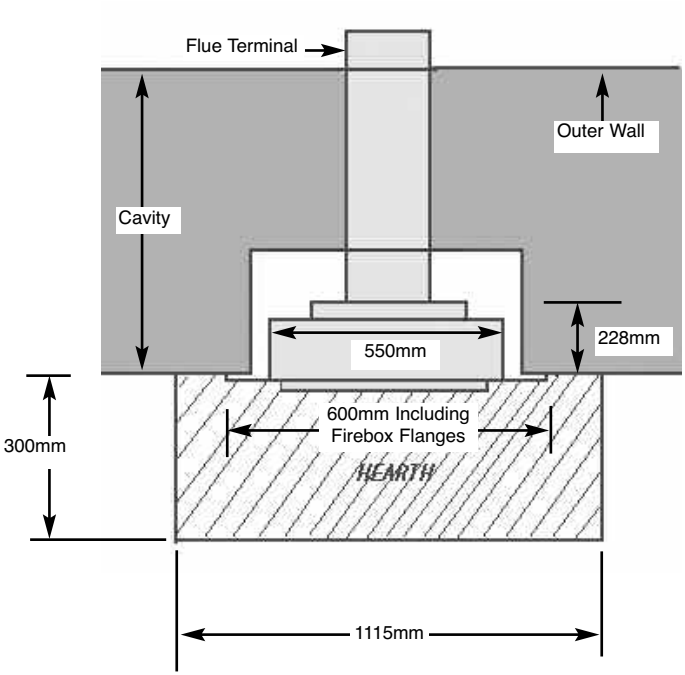


Fig. 5

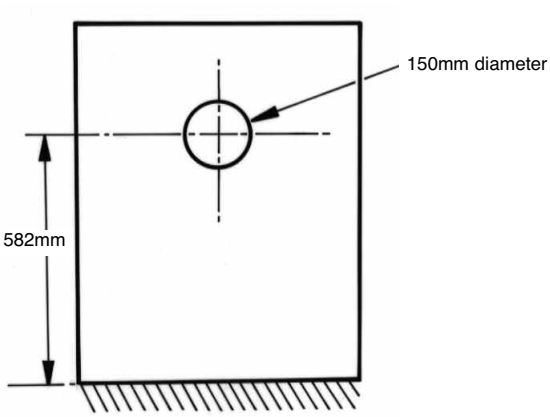


2.3 PREPARATION OF THE WALL

a) The appliance and flue pipes must be installed at right angles to the mounting wall. The appliance itself should be installed vertically against a flat wall. Where an uneven wall surface is found, appropriate action should be taken to ensure that the appliance is not stressed or does not distort when installed.

b) Ensure that the floor surface onto which the appliance is mounted onto is flat. The minimum height from the floor to the centre of the flue is shown on fig. 6 overpage.

Fig. 6



2.4 PREPARATION OF THE FLUE HOLE

a) Mark the position of the centre of the flue on the inner wall.

b) Cut hole for outer flue pipe. There are two possible methods to achieve this, either core drill or via hammer and chisel.

c) To core drill, proceed as follows :-

Drill a pilot hole through the wall, in position as specified in figure 6.

Using a 6” core drill, drill the flue hole.

To Hammer and chisel, proceed as follows :-

Mark the position of the centre of the flue pipe as specified in figure 6.

Mark the position of the hole around this point.

Chisel out the area as marked on the wall.

d) We then recommend that a cardboard cylinder is placed around the flue pipe and inserted in the chiselled out hole whilst making good.

NOTE :- **If the appliance is to be installed into a building under construction, it is recommended that a non-corrosive metal tube of 6” diameter be inserted into the position of the hole.**

2.5 INSTALLATION OF THE GAS SUPPLY

a) Before installing the firebox, decide from which side or if a rear connection to the gas supply is required. Plan the pipe run to enter the firebox from the left, right or rear and connect to the inlet elbow. See below :-

b) If concealed pipe work is required plan the pipe run to enter the fire box through the openings in the rear of the fire box and connect to the inlet elbow. See fig. 7 & 8 below for a suggested concealed pipe layout.

Fig. 7

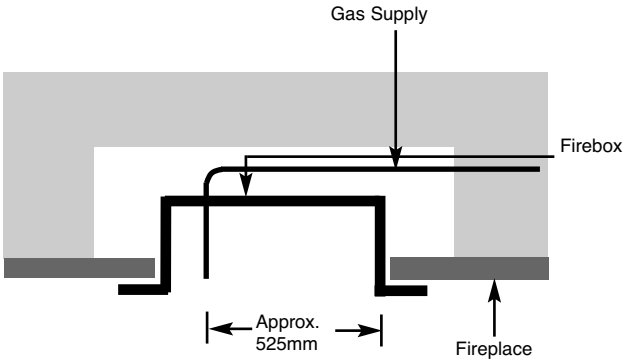
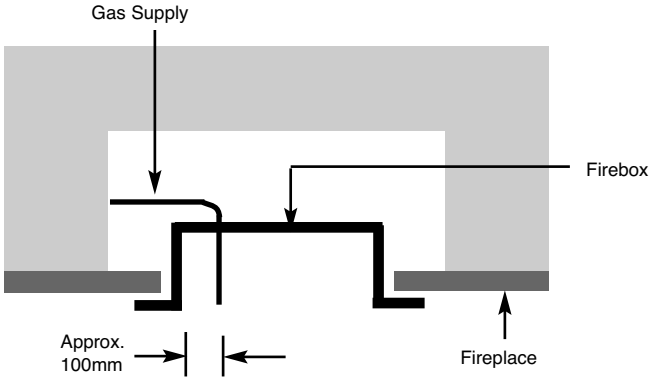


Fig. 8



Note : Before breaking into the gas supply a pressure drop test should be carried out to establish that the existing pipework is sound. Always re-fit the gas inlet plate to the rear entry point and secure with the screws provided.

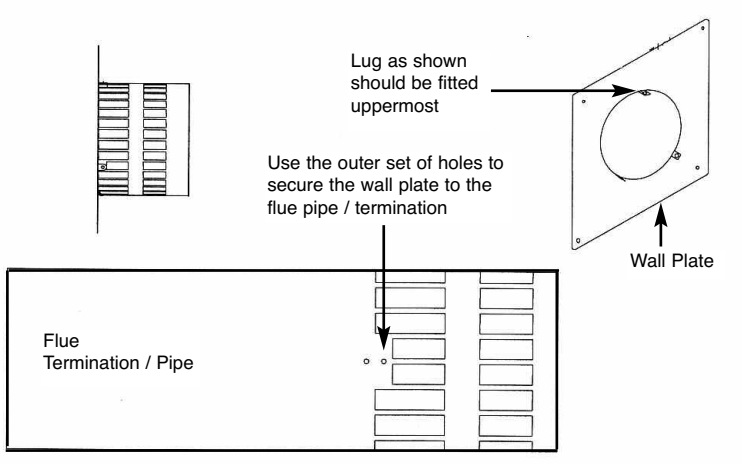
2.6 PREPARATION OF THE FLUE DUCT

a) Place the firebox into the fire opening with fire surround correctly secured in the final position. From the outside of the house measure from the face of the outside wall to the rear panel of the firebox through the flue hole. Cut the flue duct to this size.

IMPORTANT : ENSURE THE PIPES ARE CUT SQUARELY.

b) The joint between the firebox and the flue duct as shown below in fig. 9 must be secured with screws and sealed with the foil tape as supplied. In order to do this, the wall plate must removed from the flue pipe / termination.

Fig. 9



c) Due to the varying lengths of flue that will be required via differing installations it will be necessary to drill the flue pipe using the 3 off holes in the mounting flange on the rear of the combustion chamber as a guide for positioning. When the holes have been drilled and the screws fitted, wrap the joint with the foil tape supplied.

d) Re-fit the wall plate ensuring the outer set of holes as indicated above in fig. 9 are used. Use a high temperature sealant to secure the wall plate to the outside wall of the property before securing with the screws and rawlplugs supplied to ensure a mechanical fix.

2.7 SECURING OF FIREBOX TO THE OPENING

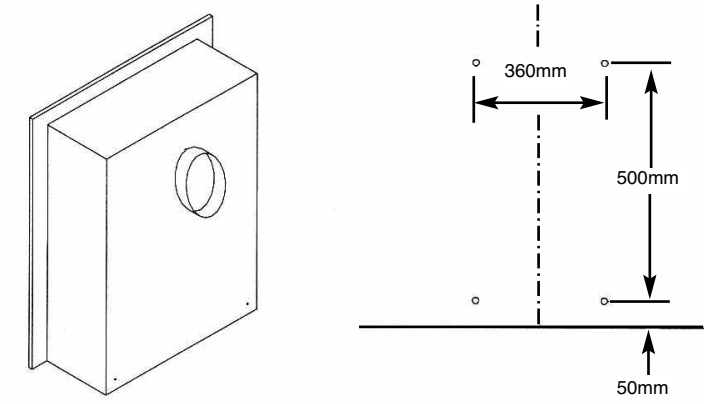
a) There is a choice of methods of fixing the firebox that are provided to enable the installer to deal with any type of installation. The preferred method of fixing the appliance is the cable fixing method, which is described in detail in the following section.

b) If the standard firebox fixing flange is to be used, the firebox may be secured using the cable method, but in installations where the cable method is not suitable, e.g.insufficient space behind the firebox, or loose masonry, the firebox can be fitted directly to either the front of the fireplace via the flange with the four off screws provided. The firebox will require sealing to the fireplace, regardless of the method used.

c) To secure the fire using the preferred cable method, proceed as follows below :-

d) Mark out and drill 4 off No 14 6mm holes in the rear face of the fire opening in the positions as shown in fig. 10 below.

Fig. 10



e) Fit the wall plugs provided and screw the fixing eyes securely into the rear of the fire opening. Remove the glass frame and burner assembly as detailed in section 2.10 / 2.11.

f) Uncoil the two fire fixing cables and thread one end of the each of the cables through the ears in the top of the fire box lid, and through each fixing eye at the top. Thread both cables through the fixing eye's at the bottom, then the holes at the bottom of the firebox

g) Thread the cables through the rear of the firebox, insert the flue pipe / terminal through the hole in the rear of the opening and offer the firebox up to the fireplace.

h) Thread a tensioning screw over both of the cables and ensure that the tensioning nut is screwed fully up against the hexagon shoulder of the tensioning screw (this provides maximum travel for the tensioning nut).

i) Fit a screwed nipple on to each of the cables and pull hand tight up against the tensioning screw, then secure each nipple with a screwdriver.

j) 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.
Failure to purge the gas supply will invalidate the guarantee.

2.8 INSTALLING THE AVELLI SURROUND

a) Unpack the surround from the wooden crate, check all parts are present as per Fig. 11 overpage and carefully store the components.

b) The underside of the hearth should be painted with a weak PVA (8 parts water to 1 part PVA). This will prevent staining penetrating through the stone. The hearth must be centered to the opening. If the fireplace is to be installed on a chimney breast ensure that the opening is also centered to the chimney breast. It is essential that the hearth is completely level. The hearth must be bedded down on bonding or an equivalent material. Avoid cement based products and ensure the hearth is firmly fitted and well supported. Allow the bedding material to set before any weight is placed onto the hearth. Wipe off any surplus bonding material with a wet sponge.

c) Screw the fixing plates firmly into the rear faces of the legs with the screws and rawlplugs provided. Position the legs equally about the center of the hearth panel. Maintain 462 mm between the legs as detailed in section 2.5 and ensure that the legs are in an upright position when placed on the hearth. Mark the fixing hole positions on the wall, remove the legs, cover the hearth panel with a dust sheet then drill the fixing holes and fit rawlplugs. Replace the legs and secure to the wall via the brackets. Additional adhesive may be used on the legs.

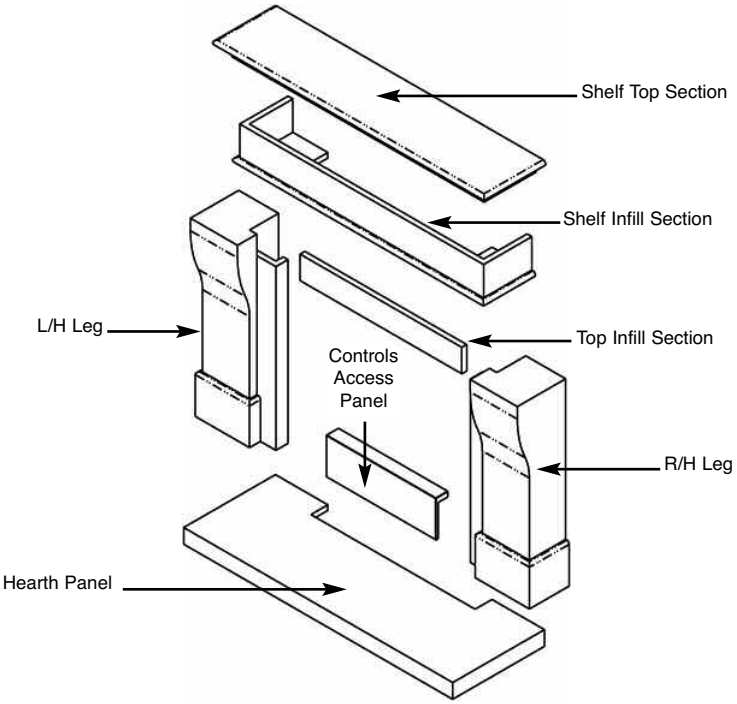
d) Fit the top infill section across the legs, ensure it is aligned and fix securely with a suitable mastic adhesive. Place glass rock/mineral wool behind this component to stop heat transfer.

e) Fit the shelf infill section and shelf top section to the legs, once again it is imperitive to ensure that this lines up before sealing with adhesive.

f) Fit the controls access panel to the metal mounting panel assembly and secure with 4 off M5 nuts. The M5 nuts are contained in the loose items pack with the fire. The slots on the metal mounting plate assembly allow some up / down adjustment and the four capscrews on the mechansism assembly allow some left / right adjustment to ensure the access panel can be correctly aligned with the surround. 4 off nuts in base allow front / back adjustment.

g) Once the fireplace is correctly installed, grout all of the joints including between the fireplace and the wall with a water based cream mastic or tile grout. Ensure all surplus grout is immediately removed by washing the stonework using a sponge and clean water.

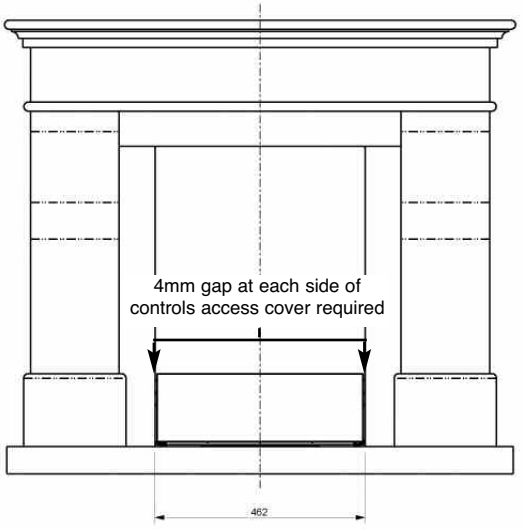
Fig. 11


Shelf Top Section
Shelf Infill Section
L/H Leg
Top Infill Section
Controls
Access
Panel
R/H Leg
Hearth Panel

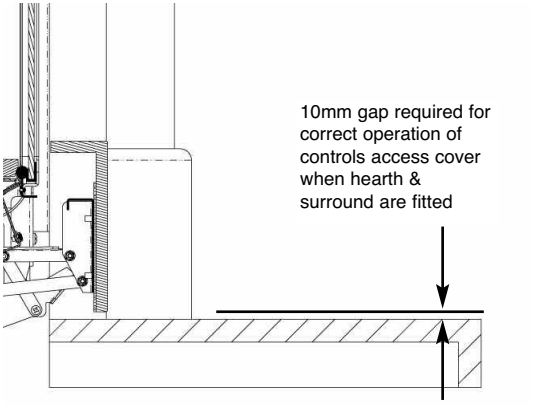
2.9 CENTRALISING THE SURROUND LEGS

a) In order to ensure that controls access cover does not bind on the surround legs, it also necessary to set the surround legs to assume a 4mm gap at each side of the controls access cover, centrally about the opening. See fig. 12 below, the distance between the legs should be nominally 462mm and a 10mm gap between the bottom of the access cover and top face of the hearth.

Fig. 12



IF THIS 462MM DIMENSION IS NOT MAINTAINED BETWEEN THE LEGS IT WILL PREVENT THE GLASS FRAME ASSEMBLY BEING REMOVED FROM THE FIRE AND BINDING OF THE CONTROLS ACCESS COVER. PLEASE CHECK THE DIMENSION AT TOP AND BOTTOM.



2.10 MAKING THE GAS CONNECTION / PRESSURE TESTING

a) The gas connection should be made to the appliance inlet elbow to using 8mm rigid tubing.

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

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

d) Light the fire (see section 3.2 for instructions).

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

2.11 FITTING THE TERMINAL GUARD

a) With the flue terminal in position, place the terminal guard over the top of the flue terminal and mark the position of the holes on the outer wall.

b) Remove the terminal guard and drill the 4 off 6 mm holes.

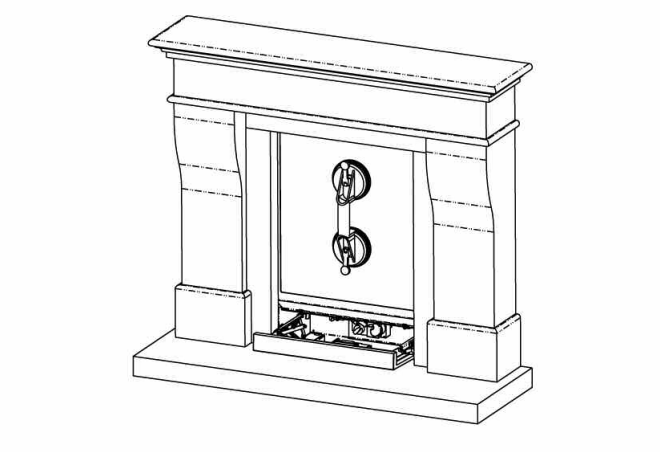
c) Insert the raw plugs into the drilled holes, replace the terminal guard over the top of the flue terminal and attach to the wall using the No.12 x 40mm screws provided with the terminal guard.

NOTE : In England & Wales, building regulations require that a terminal guard should be fitted if the terminal could come into contact with people near the building or be subject to damage. BFM Europe Ltd. also recommend the fitting of a flue terminal guard where regulations do not demand that it be fitted. A suitable flue terminal guard is supplied with the appliance.

2.12 REMOVING & REFITTING OF THE GLASS FRAME.

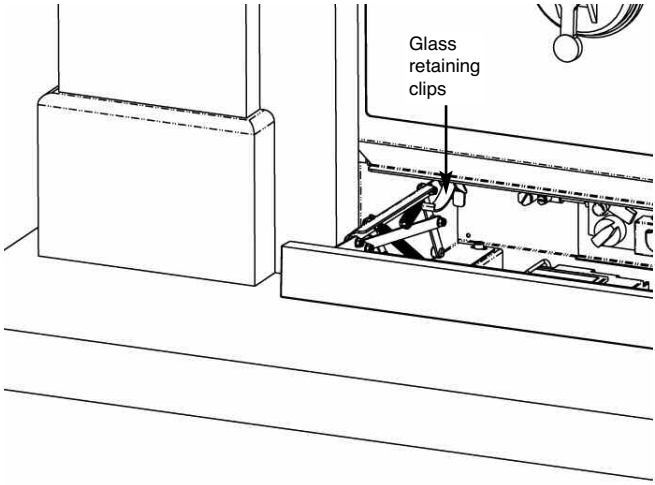
a) Remove the glass panel by firstly lowering the access door then affixing the glass clamp to the glass panel as shown below in fig. 13 (Images shown with surround installed, please install firebox before surround).

Fig. 13



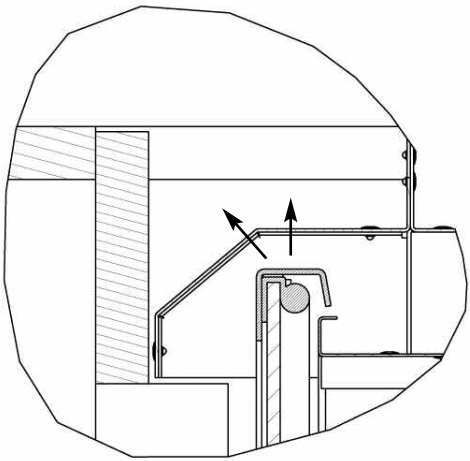
b) Unclip the glass frame retaining clips at the base of the glass frame assembly as shown in fig. 14 below. (Images shown with surround installed, please install firebox before surround).

Fig. 14



c) Unhook the glass panel from the top retaining channel by lifting upwards then tilt the top edge of the glass assembly towards you as shown below in fig. 15 (sectional view shown through product for clarity)

Fig. 15



d) Remove the glass frame assembly by dropping down, sliding to the left until the right hand edge of the glass frame can be released from behind the right hand leg of the surround as shown below in fig. 16 and overpage in fig. 17 (Images shown with surround installed, please install firebox before surround).

Fig. 16

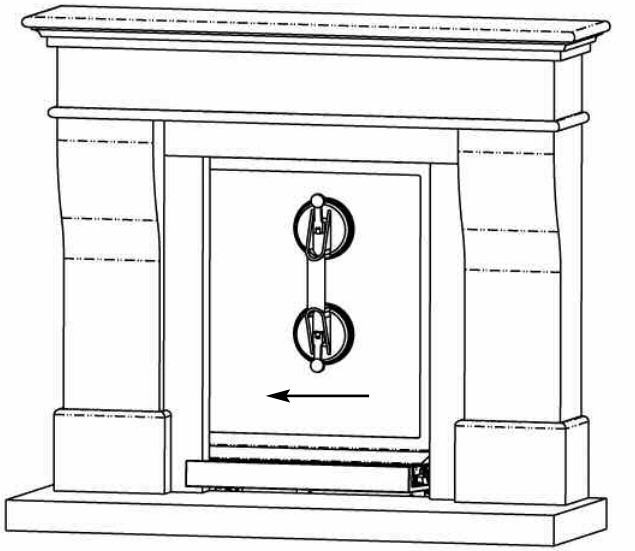
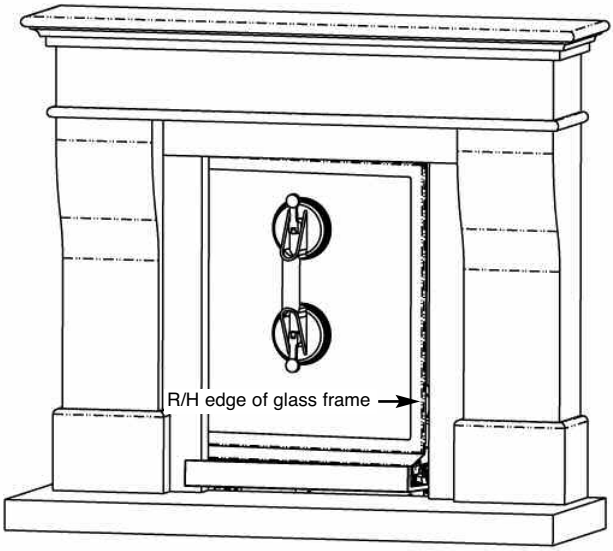


Fig. 17



e) Store the glass frame assembly in a safe place.

f) Re-assemble in reverse order when re-fitting the glass assembly.

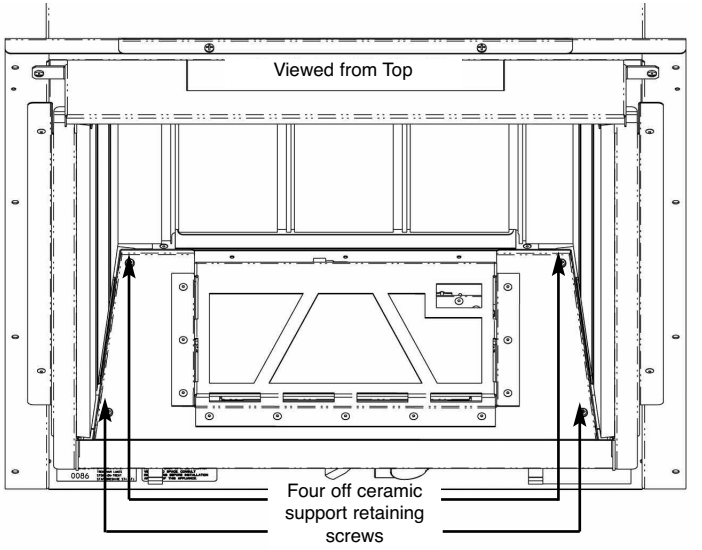
Ensure that the glass assembly is correctly located on the top flange of the combustion chamber, this can be achieved by putting your hand onto the top edge of the glass frame inside the convection air aperture and pushing down firmly to check the glass frame is correctly located.

DO NOT OPERATE THE FIRE WITHOUT THE GLASS FRAME ASSEMBLY IN POSITION OR NOT CORRECTLY LOCATED.

2.13 REMOVAL OF THE BURNER ASSEMBLY

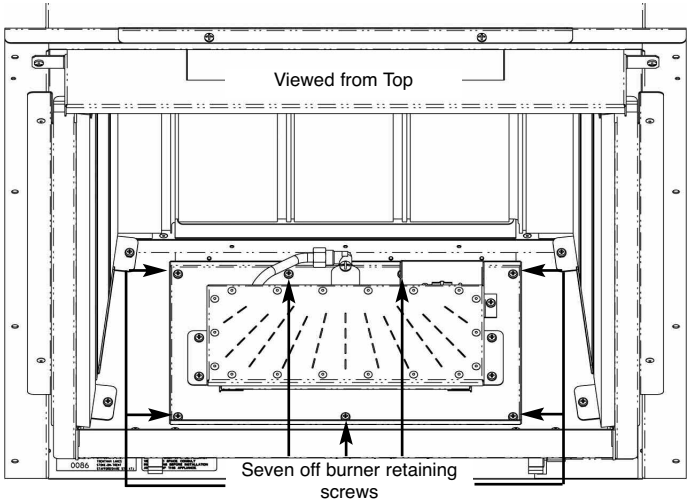
a) Remove the burner. To allow burner removal, the ceramic support panel must be removed to allow access to the burner fixings. Remove the 4 off ceramic support retaining screws as shown below in fig. 18

Fig. 18



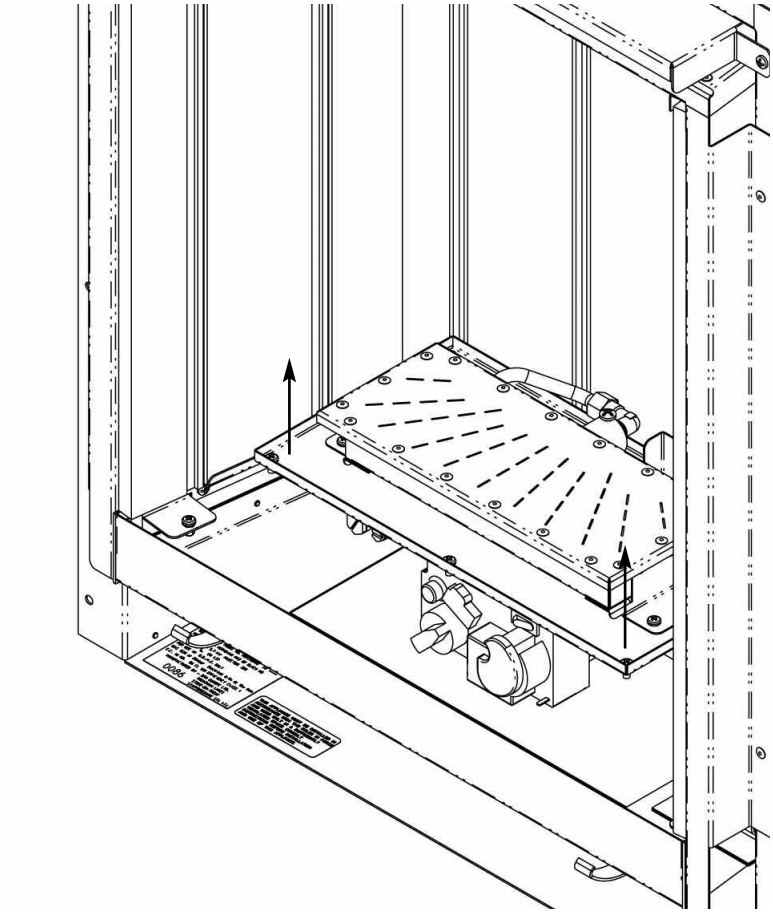
b) Remove the 7 off screws that hold the burner in position, see fig. 19 below.

Fig. 19



c) Remove the burner by lifting clear from the combustion chamber as shown below in fig. 20, take care to also lift out the receiver unit and wiring loom, (the receiver unit is held in position with velcro).

Fig. 20



d) Store the burner unit in a safe position.

e) Re-assemble in reverse order.

2.14 FITTING THE BATTERIES TO THE RECEIVER UNIT & HANDSET

a) 4 off AA 1.5V batteries (found in the loose items pack) are to be fitted to the battery holder located on the base of the fire below the combustion chamber.

b) To remove the receiver unit, lift from the self adhesive velcro strip.

c) Slide off the cover from the receiver unit.

d) Fit the 4 off AA batteries to the unit, then re-fit the cover.

e) Replace the receiver into it's self adhesive velcro strip.

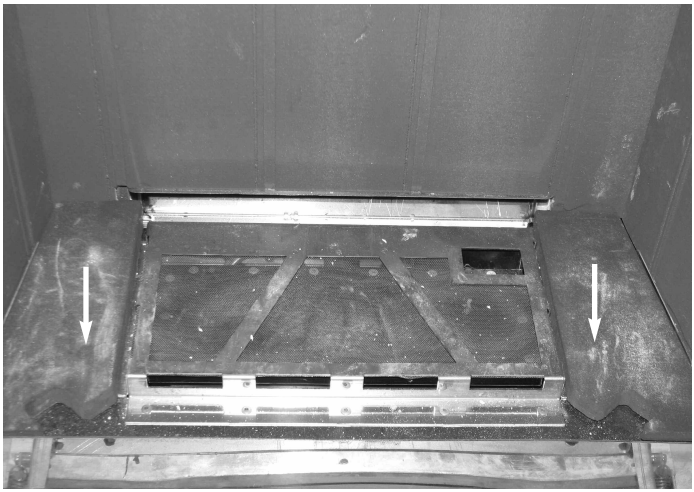
f) Fit the 1 off 9V battery to the handset by removing the rear cover, connecting the battery then replacing the cover.

SECTION 3

3.1 ASSEMBLING THE LOG FUEL-BED

a) Place the L/H and R/H ceramic base pieces onto the ceramic support panel as shown below in fig. 21

Fig. 21

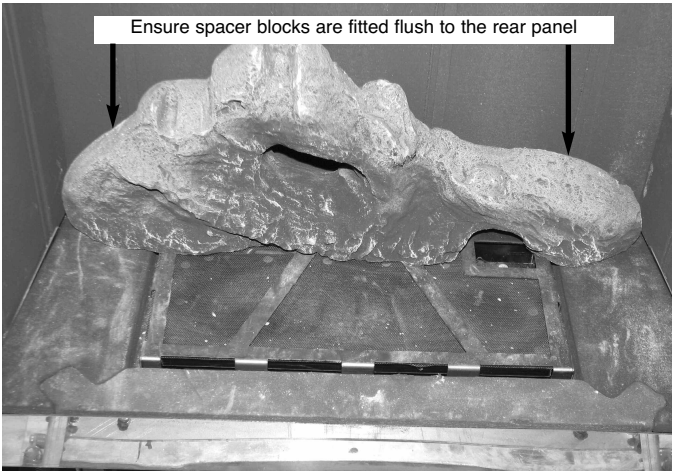


b) Place the front ceramic base piece onto the ceramic support ensuring the location tabs fit into the L/H & R/H ceramic base pieces as shown below in fig. 22

Fig. 22

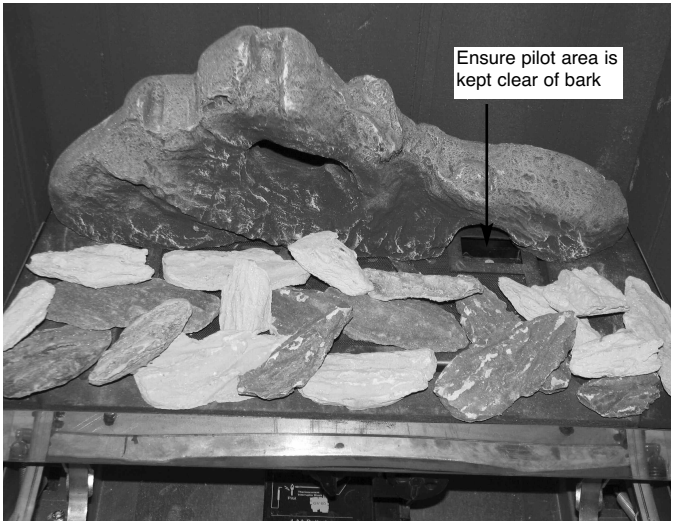
c) Place the base log onto the ceramic support panel as shown below in fig. 23, ensuring the spacer locating blocks on the rear face are fitted flush up against the rear panel.

Fig. 23



d) Cover the burner and fuel-bed base ceramic in a single, even layer of bark chippings as shown below in fig. 24

Fig. 24

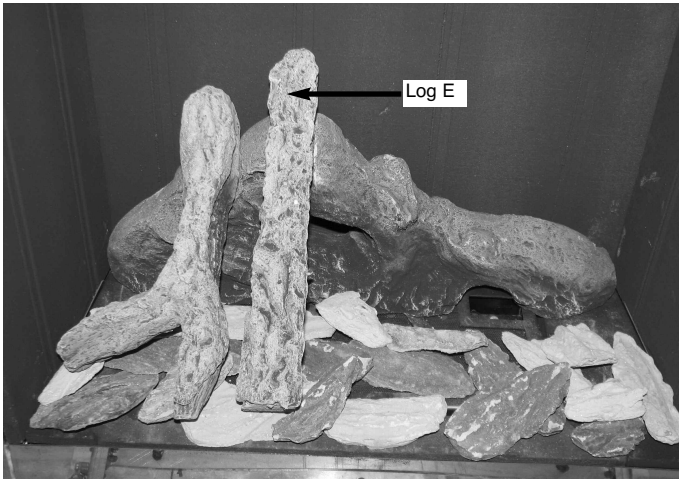


e) Position log “H” onto the base log using the location lug on the back face of log “H” and the groove on the base log to find the correct location, as shown below in fig. 25

Fig. 25

f) Position log “E” onto the base log using the location lug on the back face of log “E” and the groove on the base log to find the correct location as shown below in fig. 26

Fig. 26



g) Position log “B” onto the base log using the location lug on the back face of log “B” and the groove on the base log to find the correct location as shown below in fig. 27

Fig. 27

h) Position log “G” onto the base log using the location lug on the back face of log “G” and the groove on the base log to find the correct location as shown below in fig. 28

Fig. 28

i) Re-fit the glass frame assembly as shown in section 2.12 before proceeding to section 3.2

Warning : Use only the log fuel-bed supplied with the fire. When replacing the log fuel-bed remove the old log fuel-bed and discard it. Fit a complete log fuel-bed from the manufacturer, only use genuine replacements.

THE FOLLOWING STATEMENT IS APPLICABLE TO ALL FUEL-BED TYPES

This appliance uses fuel effect pieces containing Refractory Ceramic Fibres (R.C.F.), which are man-made vitreous silicate fibres. Excessive exposure to these materials may cause temporary irritation to eyes, skin and respiratory tract. Consequently, it makes sense to take care when handling these articles to ensure that the release of dust is kept to a minimum. To ensure that the release of fibres from these R.C.F. articles is kept to a minimum, during installation & servicing we recommend that you use a HEPA filtered vacuum to remove any dust and soot accumulated in and around the fire, before and after working on the fire. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within a heavy duty polythene bag, clearly labelled as "RCF waste". This is not classified as "hazardous waste" and may be disposed of at a tipping site licensed for the disposal of industrial waste. Protective clothing is not required when handling these arrticles, but we do recommend you follow the normal hygiene rules of not smoking, eating or drinking in the work area, and always wash your hands before eating or drinking.

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

3.2 LIGHTING THE APPLIANCE

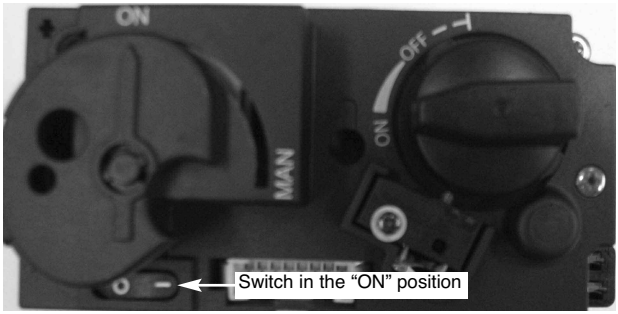
IMPORTANT : IF THE BURNER IS EXTINGUISHED FOR ANY REASON YOU MUST ENSURE THAT YOU WAIT A FULL THREE MINUTES BEFORE ATTEMPTING TO RE-LIGHT THE FIRE.

The product is controlled by the remote handset supplied with the fire. Ensure the 9V battery as supplied in the loose items pack has been fitted to the fire before attempting to light it and the 4 off AA batteries have been fitted to the reciever unit, located centrally on the firebox base. There are 3 modes of operation of the product, “MANUAL mode”, “TEMPERATURE mode” and “TIMER mode”.

3.2.1 Operation of the Fire in “MANUAL” mode

a) Locate the ON/OFF switch on the appliance, it is situated behind the controls access cover at the bottom of the fire. Ensure that the on / off switch on the valve is in the “ON” (1) position as shown below in fig. 29

Fig. 29



b) The remote handset is now used to control all functions of the fire. To light the fire, press the “UP” arrow and and “OFF” button simultateously. as shown on fig. 30 below. You will hear a click and the fire begins a 30 second ignition process. The pilot and main burner will light.
The appliance is now in “MANUAL mode” which will be shown via the “MAN” graphic on the display of the handset as shown below in fig. 20

Fig. 20

c) With the product in “MANUAL” mode the fire can now be switched between HIGH rate heat input and LOW rate heat input by pressing the “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 and hold the “DOWN” arrow on the handset. NOTE : At the lowest point the fire will go to “STANDBY MODE”. In “STANDBY MODE” only the pilot remains lit. See fig. 31 below

Fig. 31

d) To turn the fire off, press the “OFF” button, this will extinguish all flames including the pilot.

3.2.2 Operation of the Fire in "TEMPERATURE" mode

a) In order to change the mode of operation from "MANUAL" to "TEMPERATURE", press the "SET" button, the fire will then change to either "DAY TEMP" (fig. 32) mode or "NIGHT TEMP" mode (fig 33). To alternate between the 2, press the "SET" button. **The display on the handset will show the current temperature in the room.**

"DAY TEMP" Mode

"NIGHT TEMP" Mode

Fig. 32

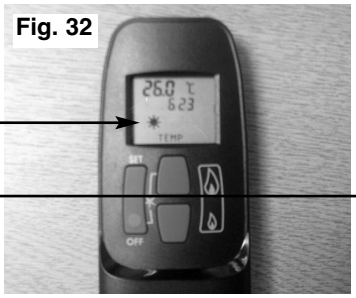
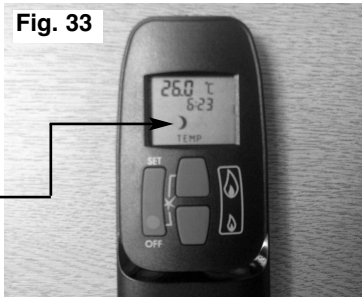


Fig. 33



NOTE : The "SET" button allows you to alternate between all modes of operation :- " MANUAL", "DAY TEMP", "NIGHT TEMP", "TIMER" and back to "MANUAL". Alternatively, pressing either the "UP" or "DOWN" arrow allows the unit to revert to "MANUAL" mode. **Fire must be in standby mode (pilot must be lit) for temperature mode to be used.**

b) Within the "TEMPERATURE" mode there are options for either "DAY TEMP" or "NIGHT TEMP". These temperatures can be set independently to allow a higher temperature to be maintained at night than during the day, or if setting the same temperature for day and night the fire will compensate for the generally cooler evening temperatures and automatically increase the heat input level accordingly.

c) To set the temperature, ensure the handset is in "TEMPERATURE" mode and then press the "SET" button until the "TEMP" display flashes then let go. Proceed to set the desired temperature by pressing the "UP" (large flame) or "DOWN" (small flame) arrows as necessary, then press "OFF" to complete the process.

NOTE : Minimum temperature is 5^{O}C, Maximum temperature is 30^{O}C, or minimum 41F to maximum 86F when in Fahrenheit mode.

d) Press the "OFF" button to stop the display flashing or wait to return to "TEMPERATURE" mode. NOTE : If you set a temperature below the current room temperature the fire will switch to standby mode (pilot burner only) until the room has cooled to the temperature you have set on the handset display.

e) If you would like the "NIGHT TEMP" to turn the fire off then decrease the temperature until [----] is displayed.

3.2.3 Operation of the Fire in "TIMER" mode

a) In order to change the mode of operation from "MANUAL" to "TIMER", press the "SET" button, the fire will then alternate between the settings until the "TIMER" mode is displayed.

NOTE : The "SET" button allows you to alternate between all modes of operation :- " MANUAL", "DAY TEMP", "NIGHT TEMP", "TIMER" and back to "MANUAL". Alternatively, pressing either the "UP" or "DOWN" arrow allows the unit to revert to "MANUAL" mode. **Fire must be in standby mode (pilot must be lit) for temperature mode to be used.**

b) Within the "TIMER" setting mode there are two programmable settings you can make over a 24 hour period, namely P1 and P2. To set the timer, ensure the handset is in "TIMER" mode as detailed in section a) above.

c) To set the P1 timed start setting, press and hold the "SET" button until the P1 (sun symbol is displayed as per fig. 34 below) and the time flashes. Set the hour by pressing the "UP" (large flame) and set the minutes (in ten minute increments) by pressing the "DOWN" (small flame) as necessary, then press "OFF" button to complete the process. Repeat for the P1 (moon symbol is displayed as per fig. 35 below) Set the hour by pressing the "UP" (large flame) and set the minutes (in ten minute increments) by pressing the "DOWN" (small flame) as necessary, then press "OFF" button to complete the process.

P1 with "Sun" symbol illuminated

P1 with "Moon" symbol illuminated

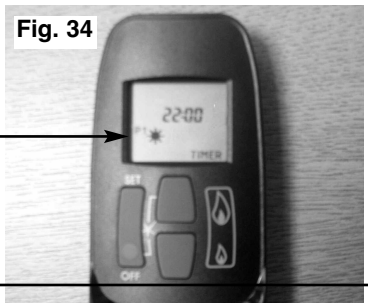


Fig. 34

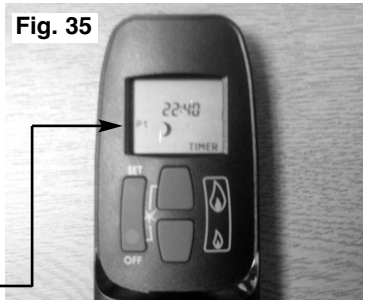


Fig. 35

d) To set the P2 timed setting, press the "SET" button until the "TIMER" mode is displayed. Hold the "SET" button until the display flashes the current time for P1. Press the "SET" button again to scroll past the setting for P1 (sun) and P1 (moon). The time should now be flashing on the handset. Set the hour by pressing the "UP" (large flame) and set the minutes (in ten minute increments) by pressing the "DOWN" (small flame) as necessary, then press "OFF" button to complete the process.

3.2.4 Low Battery Signal

a) When the battery in the handset needs replacing, “BATT” will be displayed on the handset.

b) Remove the cover on the rear of the handset and replace the 9V battery as necessary.

3.2.5 To Set the Time on the Remote Handset

a) Simultanelously press the “UP” (large flame) arrow and “DOWN” (small flame) arrow buttons on the remote handset.

b) Press the “UP” (large flame) arrow to set the hour and the “DOWN” (small flame) arrow to set the minutes.

3.2.6 To Set the ^{O}C / 24 Hour or ^{O}F / 12 Hour Clock

a) Press and hold the “OFF” and the “DOWN” (small flame) arrow buttons on the handset simultaneously until the display changes from ^{O}C to ^{O}F and vice versa

3.3 FITTING THE HANDSET WALL BRACKET

a) The wall bracket is supplied in the loose items pack and is optional to fit.

b) If fitting the wall bracket, **please be advised that the thermostatic sensor is contained within the handset itself, so the position of the wall bracket will therefore be the position of temperature measurement within the room.** To fit, position as necessary, mark hole positions, drill and secure with fixings provided.

3.4 INSTRUCTING THE USER / PRODUCT HANDOVER

a) Instruct the user on the operation of the fire and the handset.

b) Hand the glass clamp over and advise the customer to store it in a safe place.

SECTION 4
MAINTENANCE

Servicing should be carried out annually by a competent person such as a GAS SAFE registered engineer. It is a condition of the guarantee scheme that this is carried out by a competent person i.e a GAS SAFE registered Engineer in accordance with these servicing notes and that the themocouple is changed annually as a condition of the guarantee.
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.**

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 glass assembly, remove the ceramic logs.

4.1.3 Isolate the gas supply and remove the supply pipe from the appliance inlet elbow. Unscrew and remove the four screws which retain the ceramic support plate to the base,then lift clear. Remove the seven screws which hold the burner in position & then remove the burner assembly from the fire.

4.1.4 To refit the burner assembly, locate the burner unit and refit the seven screws. Refit the ceramic support plate and four screws. Refit the gas supply pipe and carry out a gas tightness test. Refit the fuel-bed referring to section 3 for the correct log positions, refit the glass assembly.

4.2 Removing the Gas Control Valve

4.2.1 Remove the burner assembly as detailed in section 4.1

4.2.2 Remove the thermocouple retaing nut from the valve, remove the main pipe, inlet pipe, pilot pipe and thermocouple interupter / wires from the valve.

4.2.3 Remove the valve retaining screws and remove the valve. Re-assemble in reverse order and carry out a gas tightness test.

4.3 Removing the Pilot Assembly.

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

4.3.2 Remove the glass frame assembly as shown in section 2.10 and put it in a safe location.

4.3.3 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 and carry out a gas tightness test.

4.4 Replacing the Radio Frequency Receiver or its Batteries

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

4.4.2 The RF receiver is located on the combustion chamber base at the centre of the product, below the burner assembly. Remove the RF receiver (held in position with velcro). Slide the battery cover off and replace the batteries as necessary, if replacing disconnect the wiring looms. Re-assemble in reverse order.

4.4.3 Replace in reverse order and check correct operation of the appliance.

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 POSITVE (+), NEGATIVE (-)

PARTS SHORTLIST

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 main replaceable parts are as follows, these are available from your local BFM Fires stockist, whose details can be found on the BFM Europe website, in the “stockist” section.

Gas Control Valve	B-92200
Ignition Lead	CV-104934
Thermocouple Interupter	B-93300
Cable Interupter	B-93310
Avelli glass frame assembly	1133-139410
Avelli base fibre centre section	B-137240
Avelli base fibre right hand section	B-141710
Avelli base fibre left hand section	B-141720
Avelli set bark chippings	B-142900
Avelli rear log	B-142130
Avelli complete log set	B-142120
Avelli log “B” only	B-134080
Avelli log “E” only	B-134110
Avelli log “G” only	B-134130
Avelli log “H” only	B-134140
Avelli BF NG pilot assy	CV-104530

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.

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

Please Note : The life span of the batteries in the burner unit on remote and electronic fire control models is dependent upon use and therefore the battery life will vary accordingly. If the burner unit fails to operate, please check the 6 off AA batteries before calling the service centre for engineer assistance.

About your BFM Fires Avelli

The BFM Fires Avelli range of log effect gas fires 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 fuel-bed components ensures long and trouble free operation.

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

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. **This is a condition of the manufacturers guarantee. After installation or during servicing a spillage test must always be carried out.**

THE FIRE MUST NOT BE OPERATED WITH THE GLASS CRACKED, BROKEN OR REMOVED.

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 log fuel-bed must be used and only complete and genuine replacement fuel-bed logs must be sourced from BFM Europe Ltd.
The appliance must only be used with the log fuel-bed supplied and must not be used with other log fuel-beds.

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. The fire must only be operated with the fascia supplied with the fire.

5.2 OPERATING THE FIRE

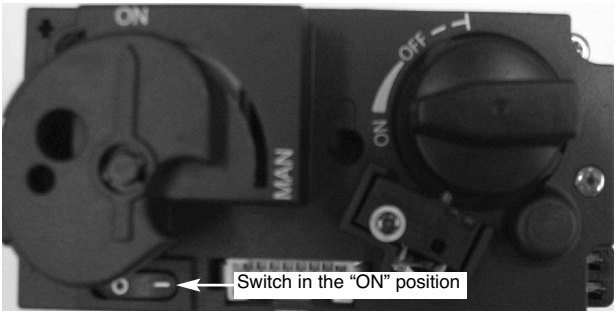
IMPORTANT : IF THE BURNER IS EXTINGUISHED FOR ANY REASON YOU MUST ENSURE THAT YOU WAIT A FULL FIVE MINUTES BEFORE ATTEMPTING TO RE-LIGHT THE FIRE.

The product is controlled by the remote handset supplied with the fire. Ensure the 9V battery as supplied in the loose items pack has been fitted to the fire before attempting to light it. There are 3 modes of operation of the product, “MANUAL mode”, “TEMPERATURE mode” and “TIMER mode”.

5.2.1 Operation of the Fire in “MANUAL” mode

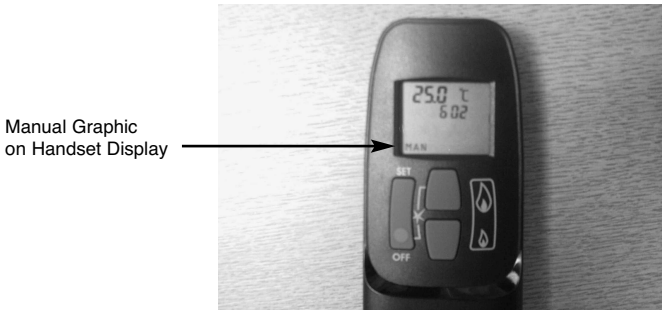
a) Locate the ON/OFF switch on the appliance, it is situated behind the controls access cover at the bottom of the fire. Ensure that the on / off switch on the valve is in the “ON” (1) position as shown below in fig. 1

Fig. 1



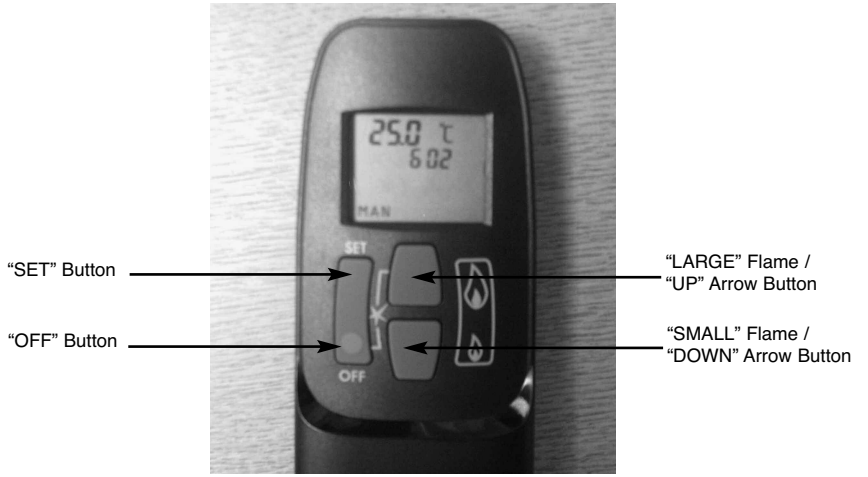
b) The remote handset is now used to control all functions of the fire. To light the fire, press the “UP” arrow and and “OFF” button simultateously. as shown on fig. 2 below. You will hear a click and the fire begins a 30 second ignition process. The pilot and main burner will light. The appliance is now in “MANUAL mode” which will be shown via the “MAN” graphic on the display of the handset as shown below in fig. 2

Fig. 2



c) With the product in “MANUAL” mode the fire can now be switched between HIGH rate heat input and LOW rate heat input by pressing the “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 and hold the “DOWN” arrow on the handset. NOTE : At the lowest point the fire will go to “STANDBY MODE”. In “STANDBY MODE” only the pilot remains lit. See fig. 3 below

Fig. 3



d) To turn the fire off, press the “OFF” button, this will extinguish all flames including the pilot.

5.2.2 Operation of the Fire in "TEMPERATURE" mode

a) In order to change the mode of operation from "MANUAL" to "TEMPERATURE", press the "SET" button, the fire will then change to either "DAY TEMP" (fig. 4) mode or "NIGHT TEMP" mode (fig 5). To alternate between the 2, press the "SET" button. **The display on the handset will show the current temperature in the room.**

"DAY TEMP" Mode

"NIGHT TEMP" Mode

Fig. 4

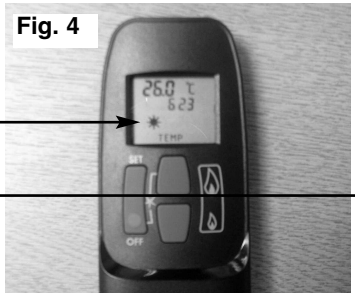
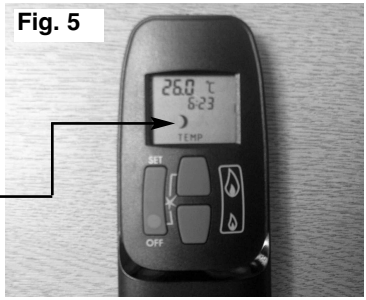


Fig. 5



NOTE : The "SET" button allows you to alternate between all modes of operation :- " MANUAL", "DAY TEMP", "NIGHT TEMP", "TIMER" and back to "MANUAL". Alternatively, pressing either the "UP" or "DOWN" arrow allows the unit to revert to "MANUAL" mode.

b) Within the "TEMPERATURE" mode there are options for either "DAY TEMP" or "NIGHT TEMP". These temperatures can be set independently to allow a higher temperature to be maintained at night than during the day, or if setting the same temperature for day and night the fire will compensate for the generally cooler evening temperatures and automatically increase the heat input level accordingly.

c) To set the temperature, ensure the handset is in "TEMPERATURE" mode and then press the "SET" button until the "TEMP" display flashes then let go. Proceed to set the desired temperature by pressing the "UP" (large flame) or "DOWN" (small flame) arrows as necessary, then press "OFF" to complete the process.

NOTE : Minimum temperature is 5^{O}C, Maximum temperature is 30^{O}C, or minimum 41F to maximum 86F when in Fahrenheit mode.

d) Press the "OFF" button to stop the display flashing or wait to return to "TEMPERATURE" mode. NOTE : If you set a temperature below the current room temperature the fire will switch to standby mode (pilot burner only) until the room has cooled to the temperature you have set on the handset display.

e) If you would like the "NIGHT TEMP" to turn the fire off then decrease the temperature until [----] is displayed.

5.2.3 Operation of the Fire in "TIMER" mode

a) In order to change the mode of operation from "MANUAL" to "TIMER", press the "SET" button, the fire will then alternate between the settings until the "TIMER" mode is displayed.

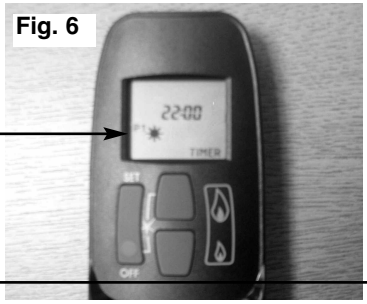
NOTE : The "SET" button allows you to alternate between all modes of operation :- " MANUAL", "DAY TEMP", "NIGHT TEMP", "TIMER" and back to "MANUAL". Alternatively, pressing either the "UP" or "DOWN" arrow allows the unit to revert to "MANUAL" mode.

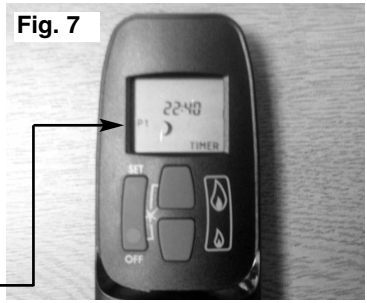
b) Within the "TIMER" setting mode there are two programmable settings you can make over a 24 hour period, namely P1 and P2. To set the timer, ensure the handset is in "TIMER" mode as detailed in section a) above.

c) To set the P1 timed start setting, press and hold the "SET" button until the P1 (sun symbol is displayed as per fig. 6 below) and the time flashes. Set the hour by pressing the "UP" (large flame) and set the minutes (in ten minute increments) by pressing the "DOWN" (small flame) as necessary, then press "OFF" button to complete the process. Repeat for the P1 (moon symbol is displayed as per fig. 7 below) Set the hour by pressing the "UP" (large flame) and set the minutes (in ten minute increments) by pressing the "DOWN" (small flame) as necessary, then press "OFF" button to complete the process.

P1 with "Sun" symbol illuminated

P1 with "Moon" symbol illuminated





d) To set the P2 timed setting, press the "SET" button until the "TIMER" mode is displayed. Hold the "SET" button until the display flashes the current time for P1. Press the "SET" button again to scroll past the setting for P1 (sun) and P1 (moon). The time should now be flashing on the handset. Set the hour by pressing the "UP" (large flame) and set the minutes (in ten minute increments) by pressing the "DOWN" (small flame) as necessary, then press "OFF" button to complete the process.

5.2.4 Low Battery Signal

a) When the battery in the handset needs replacing, “BATT” will be displayed on the handset.

b) Remove the cover on the rear of the handset and replace the 9V battery as necessary.

5.2.5 To Set the Time on the Remote Handset

a) Simultanelously press the “UP” (large flame) arrow and “DOWN” (small flame) arrow buttons on the remote handset.

b) Press the “UP” (large flame) arrow to set the hour and the “DOWN” (small flame) arrow to set the minutes.

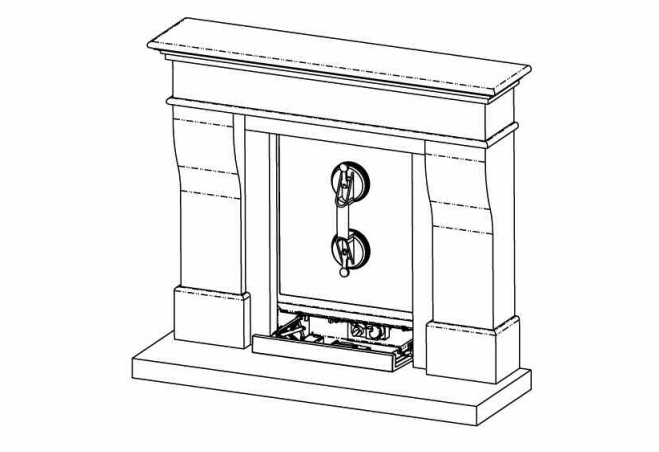
5.2.6 To Set the ^{O}C / 24 Hour or ^{O}F / 12 Hour Clock

a) Press and hold the “OFF” and the “DOWN” (small flame) arrow buttons on the handset simultaneously until the display changes from ^{O}C to ^{O}F and vice versa

5.3 REMOVAL / RE-FITTING THE GLASS FRAME ASSEMBLY

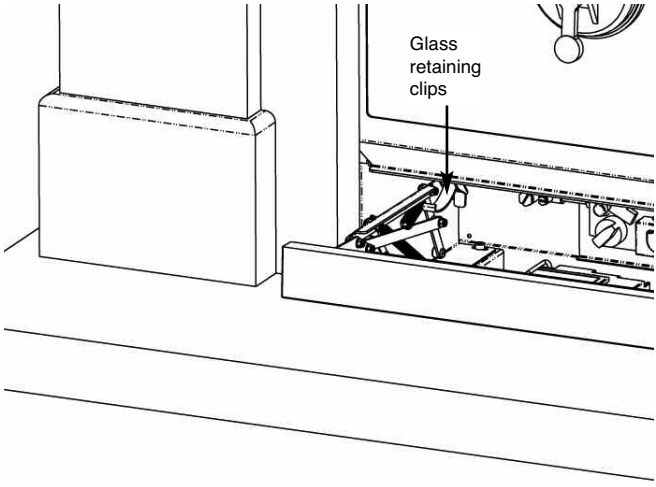
a) Remove the glass panel by firstly affixing the glass clamp to the glass panel as shown below in fig. 8

Fig. 8



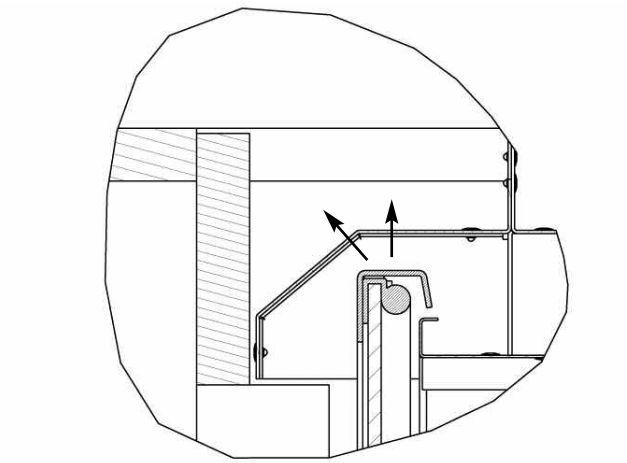
b) Unclip the glass frame retaining clips at the base of the glass frame assembly as shown in fig. 9 below.

Fig. 9



c) Unhook the glass panel from the top retaining channel by lifting upwards then tilt the top edge of the glass assembly towards you as shown below in fig. 10 (sectional view through product for clarity)

Fig. 10



d) Remove the glass frame assembly by sliding to the left until the right hand edge of the glass frame can be released from behind the right hand leg of the surround as shown below in fig. 11 and overpage in fig. 12

Fig. 11

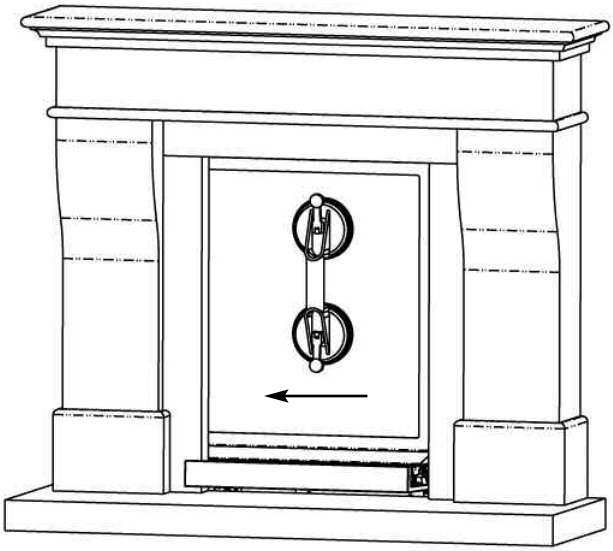
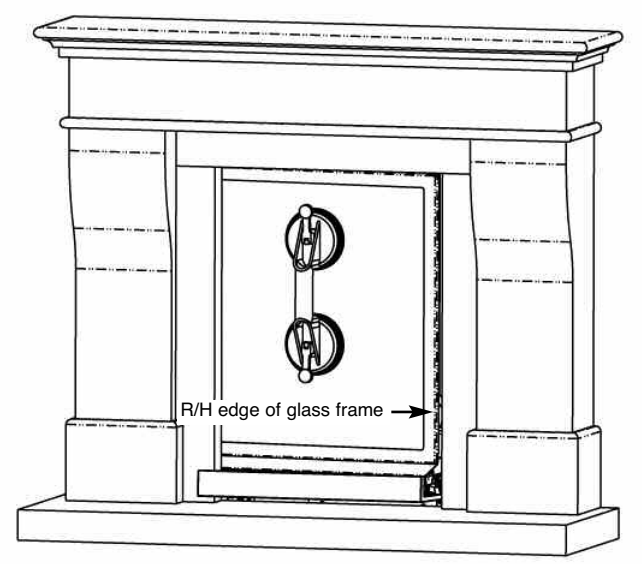


Fig. 12



e) Store the glass frame assembly in a safe place.

f) Re-assemble in reverse order when re-fitting the glass assembly.

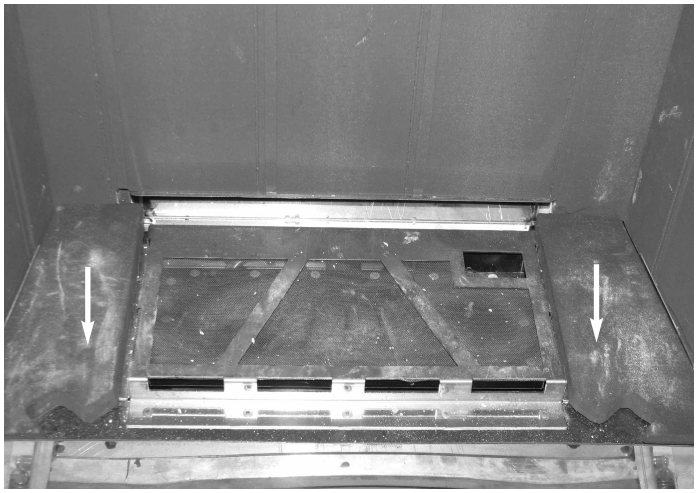
Ensure that the glass assembly is correctly located on the top flange of the combustion chamber, this can be achieved by putting your hand onto the top edge of the glass frame inside the convection air aperture and pushing down firmly to check the glass frame is correctly located.

DO NOT OPERATE THE FIRE WITHOUT THE GLASS FRAME ASSEMBLY IN POSITION OR NOT CORRECTLY LOCATED.

5.4 RE-LAYING THE FUEL-BED

a) Place the L/H and R/H ceramic base pieces onto the ceramic support panel as shown below in fig. 13

Fig. 13

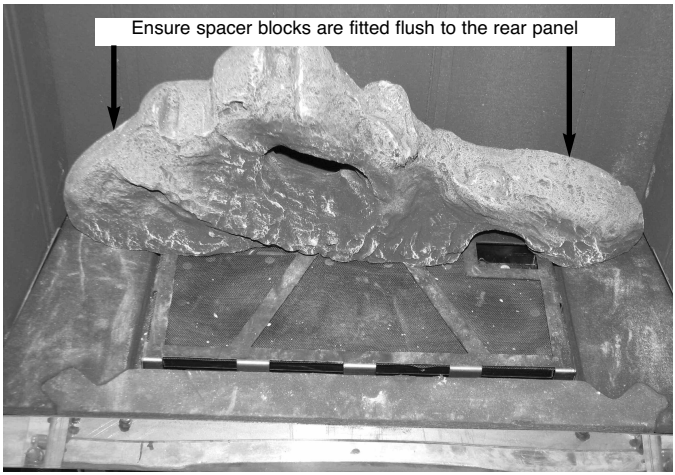


b) Place the front ceramic base piece onto the ceramic support ensuring the location tabs fit into the L/H & R/H ceramic base pieces as shown below in fig. 14

Fig. 14

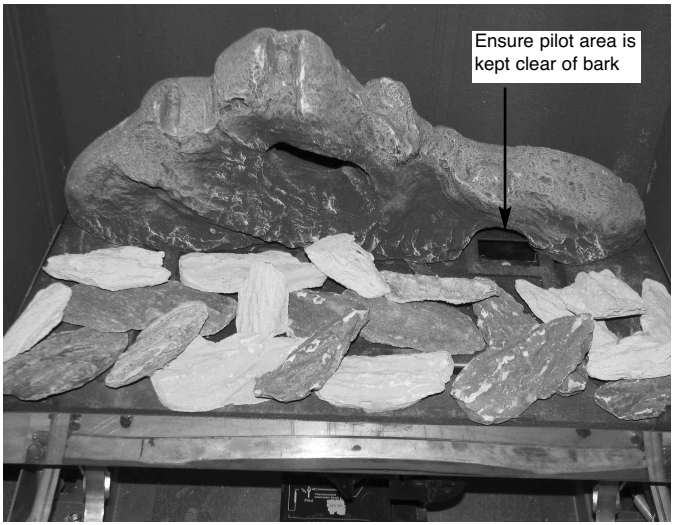
c) Place the base log onto the ceramic support panel as shown below in fig. 15, ensuring the spacer locating blocks on the rear face are fitted flush up against the rear panel.

Fig. 15



d) Cover the burner and fuel-bed base ceramic in a single, even layer of bark chippings as shown below in fig. 16

Fig. 16

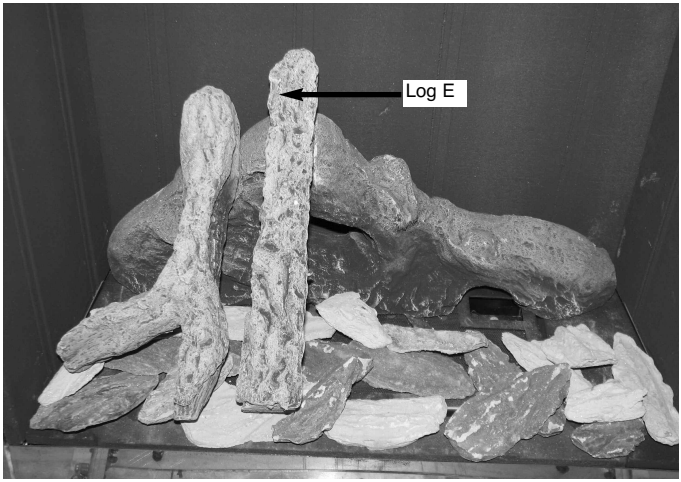


e) Position log “H” onto the base log using the location lug on the back face of log “H” and the groove on the base log to find the correct location, as shown below in fig. 17

Fig. 17

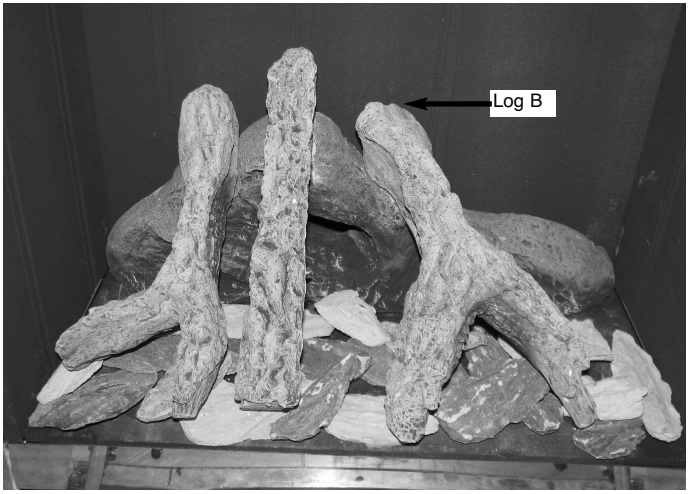
f) Position log “E” onto the base log using the location lug on the back face of log “E” and the groove on the base log to find the correct location as shown below in fig. 18

Fig. 18



g) Position log “B” onto the base log using the location lug on the back face of log “B” and the groove on the base log to find the correct location as shown below in fig. 19

Fig. 19



h) Position log “G” onto the base log using the location lug on the back face of log “G” and the groove on the base log to find the correct location as shown below in fig. 20

Fig. 20

i) Re-fit the glass frame assembly as detailed in section 5.3.

Warning : Use only the log fuel-bed supplied with the fire. When replacing the log fuel-bed remove the old log fuel-bed and discard it. Fit a complete log fuel-bed from the manufacturer, only use genuine replacements.

THE FOLLOWING STATEMENT IS APPLICABLE TO ALL FUEL-BED TYPES

This appliance uses fuel effect pieces containing Refractory Ceramic Fibres (R.C.F.), which are man-made vitreous silicate fibres. Excessive exposure to these materials may cause temporary irritation to eyes, skin and respiratory tract. Consequently, it makes sense to take care when handling these articles to ensure that the release of dust is kept to a minimum. To ensure that the release of fibres from these R.C.F. articles is kept to a minimum, during installation & servicing we recommend that you use a HEPA filtered vacuum to remove any dust and soot accumulated in and around the fire, before and after working on the fire. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within a heavy duty polythene bag, clearly labelled as "RCF waste". This is not classified as "hazardous waste" and may be disposed of at a tipping site licensed for the disposal of industrial waste. Protective clothing is not required when handling these arrticles, but we do recommend you follow the normal hygiene rules of not smoking, eating or drinking in the work area, and always wash your hands before eating or drinking.

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

5.5 CLEANING - WARNING

Before attempting any cleaning operation ensure that the fire has been allowed to fully cool. Black painted metal parts should be gently cleaned with a damp cloth.

To clean the glass panel, please remove it from the product as described in section 5.3 Use a clean damp cloth and ceramic glass cleaner to remove any stains or deposits from the glass panel. Do not using 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.

CLEANING THE FUELBED

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 log fuel-bed must only be replaced with a complete and genuine replacement item and the fire must never be run with a damaged item. The fuel-bed must be carefully fitted as stated in section 5.4.

5.6 REPLACING THE BATTERIES IN THE RECEIVER UNIT & HANDSET

a) 4 off AA 1.5V batteries are to be fitted to the battery holder located on the base of the fire below the combustion chamber.

b) To remove the receiver unit, lift from the self adhesive velcro strip.

c) Slide off the cover from the receiver unit.

d) Fit the 4 off AA batteries to the unit, then re-fit the cover.

e) Replace the receiver into it's self adhesive velcro strip.

f) Fit the 1 off 9V battery to the handset by removing the rear cover, connecting the battery then replacing the cover.

USER REPLACEABLE PARTS

The only user replaceable parts on this fire are the fuelbed components and logs 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 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.

Avelli base fibre centre section	B-137240
Avelli base fibre right hand section	B-141710
Avelli base fibre left hand section	B-141720
Avelli set bark chippings	B-142900
Avelli rear log	B-142130
Avelli complete log set	B-142120
Avelli log “B” only	B-134080
Avelli log “E” only	B-134110
Avelli log “G” only	B-134130
Avelli log “H” only	B-134140

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

Part No. B-146250
Issue 3

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