



**Installation and Servicing Instructions**  
**for Decorative Fuel Effect Fires**

**Models covered:**

Inset Trays

16 NV Inset G20 MANUAL / REMOTE CONTROL / E – SLIDE CONTROL  
**16 VR Inset G20 MANUAL / REMOTE CONTROL / E – SLIDE CONTROL**  
16 NV Inset G30/G31 MANUAL  
**18 VR Inset G20 MANUAL / REMOTE CONTROL / E – SLIDE CONTROL**

Hot boxes

16 NV Hot Box G20 MANUAL / REMOTE CONTROL / E – SLIDE CONTROL  
**16 VR Hot Box G20 MANUAL / REMOTE CONTROL / E SLIDE CONTROL**  
16 NV Hot Box G30/G31 MANUAL  
**18 VR Hot Box G20 MANUAL / REMOTE CONTROL / E – SLIDE CONTROL**

Convectors

16 NV Convector Box G20 MANUAL / REMOTE CONTROL / E – SLIDE CONTROL  
**16 VR Convector Box G20 MANUAL / REMOTE CONTROL / E – SLIDE CONTROL**  
16 NV Convector Box G30/G31 MANUAL  
**18 VR Convector Box G20 MANUAL / REMOTE CONTROL / E – SLIDE CONTROL**

**IMPORTANT**

Appliances shown in **bold type** are suitable for CLASS 1 flues only.

Appliances shown in normal type are suitable for  
CLASS 1 or 5" diameter flues only.

For use with Natural Gas (G20) @ 20mbar or Butane (G30) @ 28mbar or  
Propane (G31) @ 37 mbar inlet supply pressure only, as specified.

Country of destination: GB,IE,AT,CH,DK,ES,FI,IT,PT,SE for I2H = N.G. Only

Country of destination : GB,IE,ES,IT,PT for I3+(28-30/37)mbars I3B/P(30)mbars = L.P.G.

Please read before using and retain for future reference.

Only a CORGI registered person must install this product, and the installation must comply with these installation instructions.



**0063**

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Gas Council No. 32-045-04

**LIST OF COMPONENTS**

Inset Burner Trays (G20)

- Inset burner unit
- Ceramic base unit with burner holes
- Solid ceramic rear ramp
- (G30/G31 Burners come with an additional ceramic base)

Coal Pack

	<u>16" G20</u>	<u>18" G20</u>	<u>16" G30/31</u>
Small Square Coals	12	16	12
Small Random Coals	4	7	4
Large Square Coals	6	7	6
Large Random Coals	9	13	9

Documentation

- Installation and Servicing instructions
- Users Instructions
- Guarantee Card
- Remote control supplement if applicable

Firebox (If applicable)

- 16" or 18" Ceramic lined Hotbox, or Convector box.
- 2 x M5 Burner fixing nuts
- Decorative trim. (Brass, black or polished steel effect)
- 4 x Trim fixing magnets

Remote Control unit (if applicable) – supplied with:

- ultrasound receiver and heat shield
- remote handset
- 4 x AA batteries
- 1 x PP3 battery

**IF ANY OF THE LISTED COMPONENTS ARE MISSING FROM THE CARTON,  
PLEASE CONTACT THE VENDOR.**

**APPLIANCE DATA**

<b>MODEL</b>	<b>16" NV G20</b>	<b>16" VR G20</b>	<b>18" VR G20</b>	<b>16" NV G30/31</b>	
<b>GAS TYPE</b>	G20	G20	G20	G30	G31
<b>HEAT INPUT (gross)</b>	6.7 kW	8.6 kW	8.6 kW	6.7 kW	
<b>SUPPLY PRESSURE</b>	20 mbar	20 mbar	20 mbar	28 mbar	37 mbar
<b>SETTING PRESSURE</b>	8.5 mbar ± 0.5	10.1 mbar ± 0.5	10.1 mbar ± 0.5	27 mbar ± 1	36 mbar ± 1
<b>INJECTOR SIZE</b>	0.88 mm	0.97 mm	0.97 mm	1.3 mm	
<b>INJECTOR MARKING</b>	88	97	97	1.3	
<b>GAS CONNECTION</b>	8 mm Compression	8 mm Compression	8mm Compression	8mm Compression	
<b>BURNER DIMENSIONS</b>	L. 360mm D. 200mm H. 200mm	L. 360mm D. 200mm H. 200mm	L. 410mm D. 225mm H. 215mm	L. 360mm D. 200mm H. 200mm	

## PACKAGED WEIGHT

MODEL	G20 16 NV Inset	G20 16 VR Inset	G30/31 16 NV Inset	G20 18 VR Inset	G20 16 NV HB	G20 16 VR HB	G30/31 16 NV HB	G20 18 VR HB	G20 16 NV CB	G20 16 VR CB	G30/31 16 NV CB	G20 18 VR CB
WEIGHT (kg)	6 kg.				20 kg.				25 kg.			

## GENERAL INSTALLATION REQUIREMENTS

By law, all gas appliances must be installed by a CORGI Registered installer in accordance with the current **Gas Safety (Installation and Use) Regulations** or the Rules in Force. **The installation must comply with these installation instructions and** all relevant parts of Local and National Building Standards Regulations and those issued by the Scottish Development Board. Installation must also comply with relevant recommendations in the following British Standards.

**BS 5871: Parts 2&3. BS 8303 BS 5440: Part 1 BS 1251.**  
**BS 6891 BS 5482: Part 1.**

**For installation in IE, compliance with regulation I.S. 813 1996 is required.**

This appliance is designed for decorative purposes.

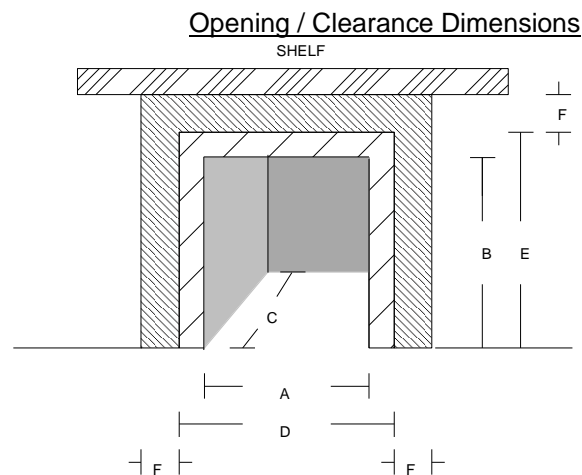
### The Fireplace:

#### Inset Trays

A nominal 16" (400 mm) or 18" (450 mm) size firebrick which complies to **BS 1251** is required, fitted with a non combustable surround or fire-frame with a return (depth) of at least 40 mm, giving a total opening depth of no less than 8¼" (210 mm). It should be, or have been, assembled in accordance with **BS 8303**, so that the fire opening height does not exceed 22" (560 mm) from the hearth level. The appliance can only be mounted against a non-combustible surface, which must extend at least 150mm past any edge of the appliance. If a combustable shelf is to be fitted above the fire opening a clearance of 150mm must be allowed.

#### Hotboxes / Convectors

- The installation may require removal of the existing firebrick.



#### Dimension Label

A (Opening width 16" Model)  
 A (Opening width 18" Model)  
 B (Opening height)  
 C (Opening depth)  
 D (Flat surface width 16" Model)  
 D (Flat surface width 18" Model)  
 E (Flat surface height)  
 F (Non Combustible clearance)

#### Convector Box

410 mm - 450 mm  
 460 mm - 500 mm  
 560 mm - 580 mm  
 Minimum 235 mm  
 Minimum 500 mm  
 Minimum 550 mm  
 Minimum 630 mm  
 Minimum 150 mm

#### Hot Box

410 mm - 450 mm  
 460 mm - 500 mm  
 555 mm - 585 mm  
 Minimum 260 mm  
 Minimum 500 mm  
 Minimum 550 mm  
 Minimum 630 mm  
 Minimum 150 mm

The fireplace opening must be within the dimensions detailed. There must be a flat area around the opening to allow for sealing of the firebox. The appliance can only be mounted against a non-combustible surface, which must extend at least 150mm past any edge of the appliance. If a combustable shelf up to 6" deep is to be fitted above the

fire opening a clearance of 150mm must be allowed. For every increase of shelf depth by 1" an additional 25mm clearance should be allowed.

**The chimney / Flue:**

Inset Models: (16 NV I G20; 16 VR I G20; 18 VR I G20; 16 NV I G30/G31)

Hot box models: (16 VR HB G20; 18 VR HB G20)

Convactor box models: (16 VR CB G20; 18 VR CB G20)

This appliance is only suitable for Class 1 chimneys, with a minimum cross sectional dimension no less than 7" (175 mm). **The flue** must have a minimum effective height of 3 metres. No Restrictor plate or flue damper is permitted. Where these exist, they must be either completely removed or permanently fixed in the fully open position. Any existing under grate draught must be sealed off, and the opening wall must be non-combustible. The chimney must be swept prior to installation and in accordance with National Regulations a flue test must be carried out.

Inset Models: (16 NV G20)

Hot box Models: (16 NV HB G20; 16 NV HB G30/G31)

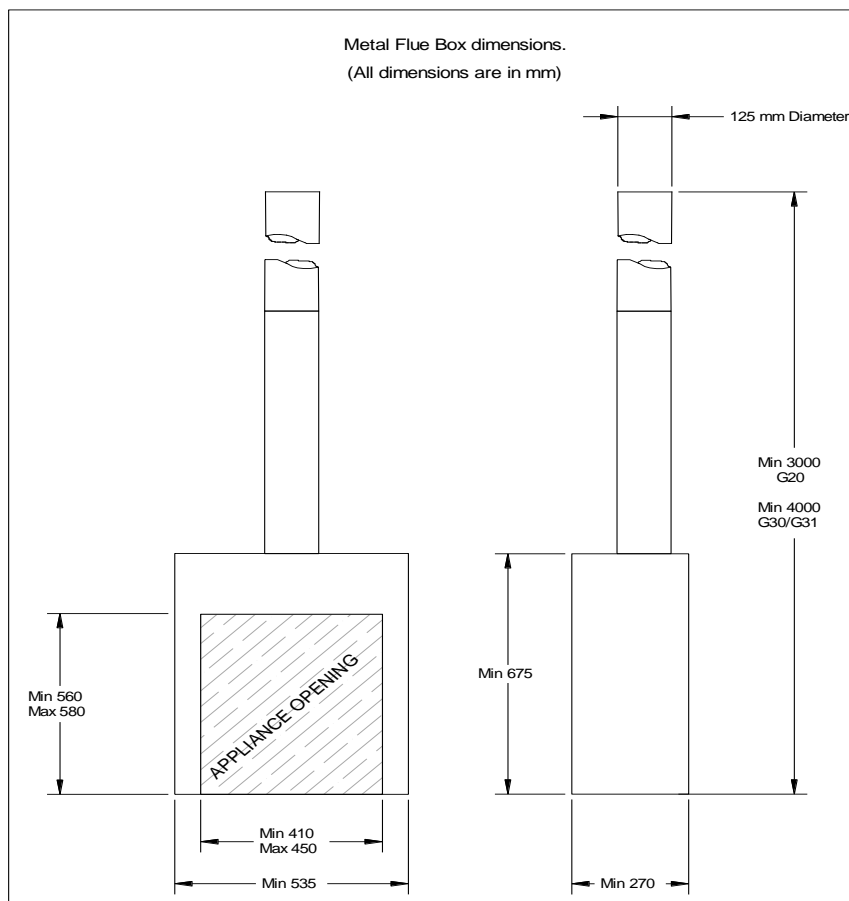
Convactor Box models: (16 NV CB G20; 16 NV CB G30/G31)

- As above, or...
- Minimum 125mm (5") diameter lined, brick or stone class 1 chimney with an effective height of 3 metres (4 metres for G30 / G31 models).
- Minimum 125mm (5") diameter twin wall flue conforming to BS 715 with a minimum effective height of 3 metres (4 metres for G30 / G31 models).

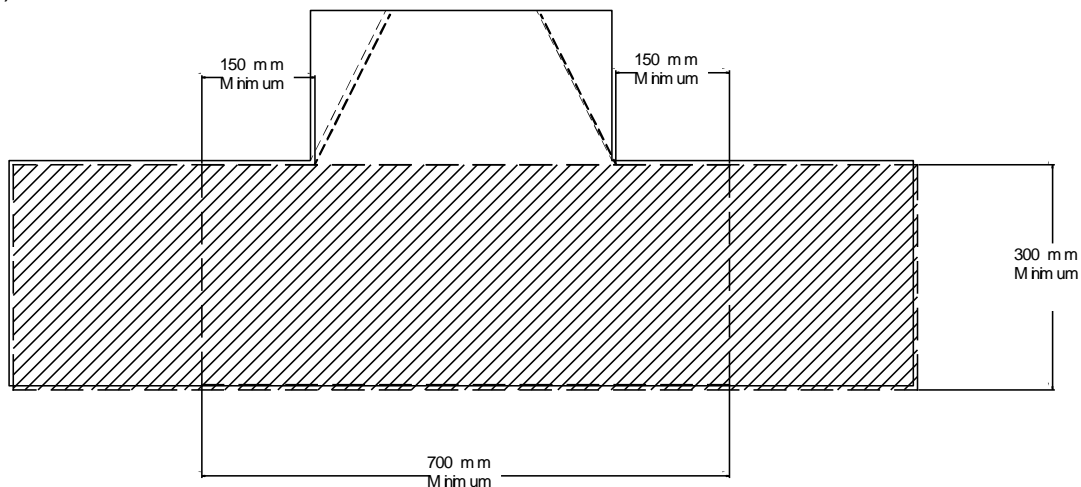
The effective height of the flue is as measured from the hearth to the top of the flue. Any flue damper plates or restrictors should be removed and no other restriction to the flue. Where removal is not practical, the restriction must be fixed in the fully open position. Any existing under grate draught must be sealed off, and the opening wall must be non-combustible.

**Prefabricated Flue Boxes:** This appliance can be fitted into a number of proprietary twin wall flue boxes (e.g. Selkirk LFE 125) provided that the manufacturers instructions for fitting the prefabricated box are complied with at all times. The fire box base must have a non-combustible surface of at least 12mm thick, the top surface of which must be at least 50mm above the surrounding floor. The firebox base may be drilled to allow screws and plugs to secure installation.

**Constructional Note:** The frame of the fire, any back panel or other in-fill panels and the flue box must be sealed together so that there is no possibility of leakage between them. Adequate clearances to combustible materials (e.g. false chimneybreast construction) must be maintained.



**The Hearth:** The Heating Appliances (Fireguards) (Safety) Regulations 1991 are part of the Consumer Protection Act. It is a criminal offence to fit any appliance into a fireplace where the periphery of the hearth is less than 50 mm above floor level under **BS 5871: Part 3**. (The installation of a fixed fender of 50-mm height will satisfy this hearth requirement). The actual thickness of the non-combustible surface material must be no less than 12.5 mm.



Minimum Hearth Dimensions

### Ventilation.

All NV rated burners do not require purpose made ventilation, subject to a satisfactory spillage test.

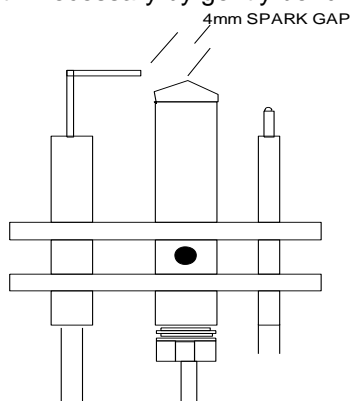
All VR rated burners can only be installed into a room with a permanently open air vent of at least 100cm square. The vent must be either direct to the outside air, or to an adjacent room having a permanent air vent of the same area.

**Ventilation for installations in IE:** Purpose made ventilation **must** be provided in accordance with regulation I.S. 813 1996.

### Fitting the Appliance

Check that the appliance is the correct type for the fireplace into which it is to be installed. (See 'General Installation Requirements')

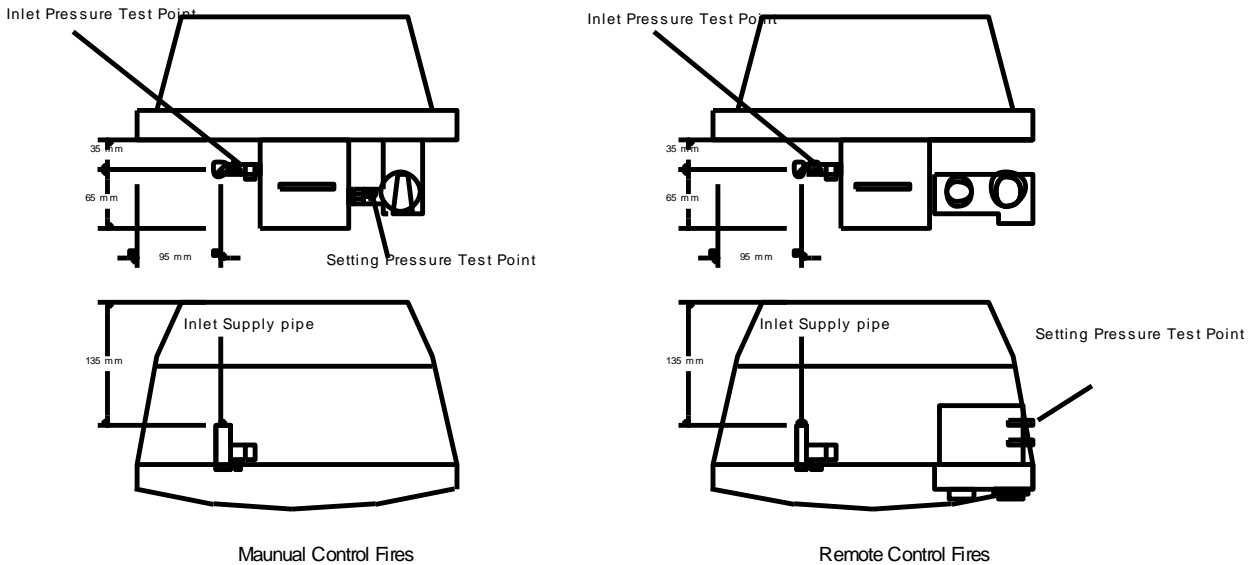
Check that the ignition system functions correctly. Push and turn the control knob and check that a spark is generated at the pilot burner (See Diagram below). If no spark is evident, check the soundness of the leads and that the spark gap is 4mm  $\pm$  0.5. Adjust if necessary by gently bending the spark generator into position.



Pilot Assembly

It is recommended that, before proceeding further, a smoke test is carried out to check the condition of the chimney. Light a smoke match or a twist of rolled paper, hold it within the fireplace opening and observe the behaviour of the smoke. If it is being drawn into the chimney proceed with the installation. If not, heat the chimney over a period of a few minutes and recheck. If smoke still fails to clear, further investigation of the chimney is required and the appliance **MUST NOT** be fitted.

The gas supply should be routed from the meter to a point convenient to the fireplace. A means of isolation should be fitted, to allow disconnection of the appliance from the supply for service and maintenance. Ensure that pipe sizing allows for pressure drops and provides 20mbar (G20), 28mbar (G30), and 37mbar (G31) at the appliance.



Cut and form a section of 8mm pipe - only rigid or semi-rigid tubing is acceptable - and run this into the fireplace opening. If a concealed fitting is required, care must be taken to sleeve the supply pipe when fitting through masonry.

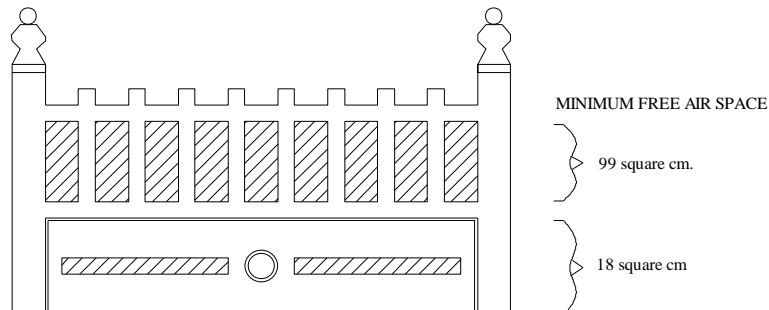
Installation of the firebox where applicable.

- There is a supply pipe hole in the rear of the appliance. This is to be utilised to allow easy access for the supply pipe into the fire opening. Pierce a hole in the rubber grommet to allow access for the supply pipe.
- Firstly, position the box inside the fire opening and note the position of the pipe hole. Before removing the firebox ensure that when it is in position there are no obstructions to the flue ports.
- Remove the firebox, and route the 8mm-supply pipe into the fire-opening corresponding to the hole. Position the firebox inside the fire opening, carefully threading the supply pipe through the pipe supply hole in the process.
- Seal the firebox into the opening using silicone sealant between the back of the frame, and the flat surface of the surround. Fix to the hearth using the holes provided in the base of the appliance.
- Locate the burner on the fixing studs at the front of the fire opening, and secure by pushing the rear leg behind the raised flange on the base of the firebox. Then proceed with the installation of the burner tray.

Place the appliance centrally within the fireplace opening.

**N.B.** No part of the appliance should project beyond the vertical opening of the fireplace opening.

Using the nut and olive provided, connect the 8mm-supply pipe to the inlet elbow. Ensure that the supply pipe has been cleared of any internal debris. For R/C models, the setting pressure should be checked at this point (see diagram above) Secure the appliance to the hearth with screw fixings through the two holes provided on the front of the centre panel, or to the firebox with the stud fixings and nuts provided. For R/C models ensure that the locating tab, for the heat shield, is fixed securely through the left side fixing point (see diagram)



AIR SPACE REQUIREMENT THROUGH THE FRONT FRET.

Decorative frets (suitable for both 16" and 18" models) must have a minimum of 99 square cm through the front bars and 18 square cm through the ash pan cover.

## **GAS SOUNDNESS CHECK**

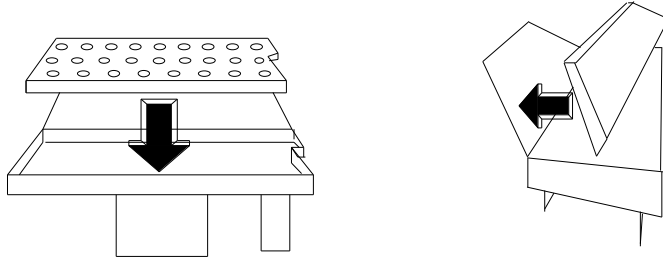
With the gas supply connected, all joints should be checked for gas soundness in accordance with **BS 6891**. Ensure that the setting pressure at the pressure test point on the injector side of the valve, is  $8.5 \text{ mbar} \pm 0.5$  on the 16 NV G20 model,  $10.1 \text{ mbar} \pm 0.5$  on the 16 VR G20 and 18 VR G20 model,  $27 \text{ mbar} \pm 1$  on the 16 NV G30 model or  $36 \text{ mbar} \pm 1$  on the 16 NV G31 model. (See diagram on page 5). This reading should be checked with the fire running on full. Should the setting pressure be less than indicated, check that the gas supply pipe sizing delivers 20 mbar at the appliance for G20 models, 28mbar for G30 and 37mbar for G31). The same setting pressures apply to the Remote Control versions.

**NOTE:** It is permissible to light the fire **FOR SHORT PERIODS ONLY** when the fire is not laid with ceramics and coals.

## **ASSEMBLING THE FIRE AND COAL PLACEMENT**

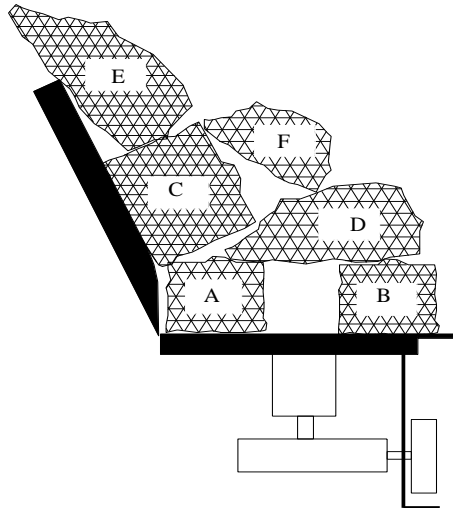
### **WARNING**

The appliance should **NOT** be used with damaged coals and ceramics, or with the incorrect amount.



The burner tray and ceramic are illustrated above. Take the base ceramic and place it on the burner tray and place the solid rear ceramic against the metal ramp at the back of the burner tray.

### **Coal Lay**

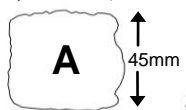


## Coal Lay (G20) Appliances

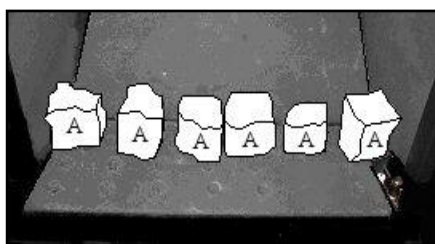
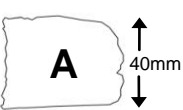
### Coal size A

Length & Width

← 45mm →



Height



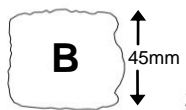
#### Row A

Place 6 small square coals (8 in the case of the 18" appliance), on their broken edges, the centre two touching, and the outer two at the edge of the tray, across the back of the burner, and up against the rear ceramic ramp. The remaining 2/4 coals should be placed leaving as much of the burner ports as open as possible

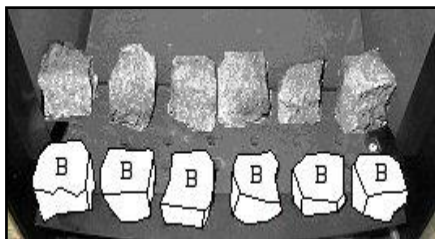
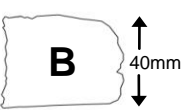
### Coal size B

Length & Width

← 45mm →



Height



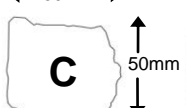
#### Row B

Place 6 (8 in the case of the 18" appliance) small square coals, evenly spaced, along the front edge of the burner, clearing the front burner ports.

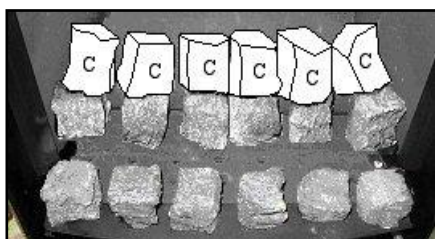
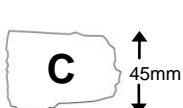
### Coal size C

Length & Width

← 50mm →



Height



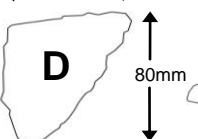
#### Row C

Place 6 (8 in the case of the 18" appliance) large square coals, on top of Row A, and resting against the rear ceramic. These should be evenly spaced, (broken edges facing outward).

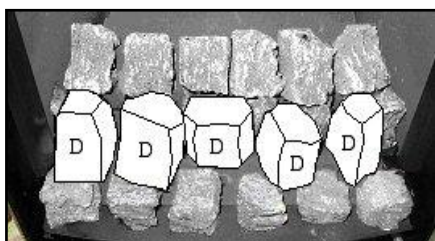
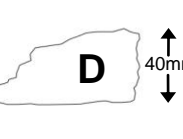
### Coal size D

Length & Width

← 80mm →



Height



#### Row D

Bridge the gap between rows A and B with 5 (7 in the case of the 18" appliance), large random shaped coals evenly spaced, point inwards. **ENSURE THE PILOT IS CLEAR.**

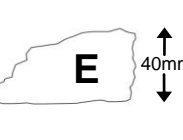
### Coal size E

Length & Width

← 80mm →



Height



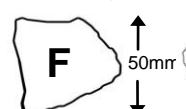
#### Row E

Place 4 (6 in the case of the 18" appliance), large random shaped coals tightly packed side by side, as shown in the photograph, in the centre of the burner tray. These coals rest on top of Row C.

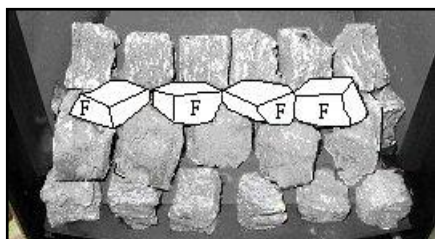
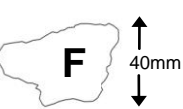
### Coal size F

Length & Width

← 50mm →



Height



#### Row F

Place 4 (7 in the case of the 18" appliance), small random coals bridging the gaps between each of the coals in Row D. These should be placed towards the rear of the burner tray and rest on top of Row D.

## LIGHTING THE APPLIANCE

### Lighting procedure.

(See REMOTE CONTROL section for r/c burners)

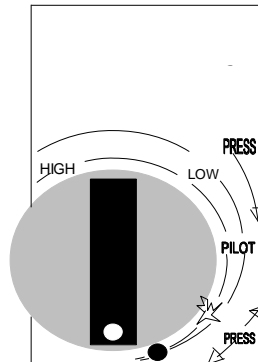


Fig 1. Control Knob

**Depress** the control knob and turn in an anti-clockwise direction to the pilot position, the pilot should spark and then light. This can be viewed on the right side of the burner tray. Continue to depress the control knob for about 10 seconds to allow the pilot flame to heat and activate the probe of the thermocouple. Release the knob. The pilot should remain alight. If it fails to do so, repeat the process but keep the control knob depressed for a slightly longer period.

**NOTE:** If the pilot does not light at the first attempt there may be a small amount of air in the supply pipe. To clear, turn the control knob to the "PILOT" position, hold in for a few seconds and then try to re-light.

Depress the control knob slightly and turn anti-clockwise to the "High" position. The main burner will now light.

Turn the control knob anti-clockwise to the LOW position. The flames will get lower but the main burner should remain alight.

Depress the control knob slightly and turn clockwise to the PILOT position. The main burner should go out but the pilot flame should remain alight.

Depress the control knob slightly and turn clockwise to the OFF position. The pilot flame should go out.

### **IMPORTANT:**

After turning OFF, or if the pilot and appliance go out for any reason, wait 3 minutes before attempting to re-light.

### **The flame sensing and spillage monitoring system. (ODS)**

This pilot unit incorporates a system, which will automatically shut off the gas supply if the pilot flame goes out, or if there is insufficient oxygen due to spillage or lack of ventilation. Check that the system operates properly as follows.

- Light the appliance and leave on 'HIGH' for one minute.
- Turn back to 'OFF' to extinguish the pilot. **Note the time when the pilot goes out.**
- Listen for a 'click' sound at the gas valve. **Note the time when this sound is heard.**
- An electromagnetic valve shutting off the gas supply through the valve causes this sound. This valve should operate **within 60 seconds of the pilot going out.** If the valve doesn't operate within this time limit, do not allow the appliance to be used until the fault has been corrected.

**THIS MONITORING SYSTEM MUST NOT BE ADJUSTED, BYPASSED OR PUT OUT OF OPERATION.**

**THIS MONITORING SYSTEM OR ANY OF ITS PARTS MUST ONLY BE EXCHANGED USING GENUINE PARTS SUPPLIED BY THE MANUFACTURER.**

## CHECK FOR SPILLAGE

Before briefing the customer on how to use the appliance, a spillage test must be carried out with the appliance and decorative fret in position. The following procedure must be followed.

Close all doors and windows in the room or space containing the appliance.

Light the appliance and burn at maximum for 5 minutes.

Light a smoke match and position it 25 mm inside the fire opening and 50 mm from the side and top perimeter. A visual check should ascertain that all smoke generated is drawn back into the fireplace opening.

If smoke comes into the room, burn the appliance on full for a further 10 minutes. Repeat the test. If the flue still fails the test, **DISCONNECT THE APPLIANCE FROM THE GAS SUPPLY**, and seek specialist flue advice.

**N.B.** If a mechanical extraction device is fitted into an adjacent room, the door should be opened and the spillage test repeated with the extraction device running.

## BRIEFING THE USER

Demonstrate the full operation of the appliance to the User, referring them specifically to the lay of the coals and removal of soot, as described in the Users Instructions.

Explain to the User, the operation of the 'Aeration Slide' Control.

**(NB. There is no aeration slide control on the G30 / G31 models.)**

This lever is designed to enable the User to choose between either a more aesthetically pleasing, slightly more yellow flame in position 'MIN' or a slightly hotter, slightly bluer flame in position 'MAX'. It can be operated at any time, and does not alter the gas throughput.

Inform the User that all cleaning procedures should be carried out **ONLY when** the appliance is cold.

Explain the function of the ODS as described earlier in this manual.

Leave these instructions, and the Users Instructions, with the User.

Advise the importance of having the appliance serviced and the chimney checked for clearance of combustion products on an annual basis.

If this device starts to shut off the gas frequently, please seek expert advice from your supplier.

**IF ANY PROBLEMS OCCUR DURING INSTALLATION, PLEASE CONTACT THE MANUFACTURER, AND ASK FOR TECHNICAL SUPPORT.**

## **SERVICE AND MAINTENANCE**

**BEFORE ANY SERVICING ENSURE THAT THE GAS SUPPLY TO THE APPLIANCE IS TURNED OFF.**

**AFTER REFITTING THE APPLIANCE, CHECK FOR GAS SOUNDNESS AND SPILLAGE.**

### **PARTS LIST**

### **PART NUMBER**

Control Knob	(08 018)
Control Valve NV / VR G20	(08 026)
Remote Control / E-Slide Valve	(08 038)
E-Slide Harness	(08 033)
Injector NV	(08 014)
Injector VR	(08 015)
L.P.G Injector elbow G30/31	(08 013)
L.P.G Injector Jet 1.3	(08 017)
Pilot Assembly G20	(08 022)
L.P.G Pilot Assembly G30/31	(08 023)
Smooth Rear Ceramic	(05 009)
Base Ceramic	(05 003)
Coal Set	(05 004)
Inlet Elbow	(08 025)
Inset Burner Tray	(03 001)
16" Hot Box	(03 010)
16" Convector Box	(03 011)
Remote Control package	(08 011)

Carefully remove all coals and ceramics from the burner, gently removing all soot and debris from them, using a soft brush.

Remove all soot and debris from the burner tray, a vacuum cleaner is best for this.

Check that the pilot ignition spark is functioning correctly.

Light the pilot flame and ensure that the flame shroud is sharp in definition and plays onto the thermocouple. The pilot assembly may need removing and cleaning, if this is necessary follow the instructions provided.

Ignite the main burner from the pilot. Ensure that all burner ports are alight and burning cleanly. It may be necessary to further clean the burner.

### **TO REMOVE THE BURNER**

Ensure that the gas supply to the appliance is turned off.

Disconnect the appliance from the gas supply, and remove from the fireplace opening by releasing the fixing points at the front base of the burner.

To refit, follow these instructions in reverse.

### **TO REMOVE THE FIREBOX**

To remove the firebox, remove the brass trim by pulling it from its magnetic fixings. Remove the burner tray as detailed in the main installation instruction booklet. Carefully slice the silicone sealant behind the black frame with a sharp knife. Gently pull the firebox from the fire opening.

Visually check inside the fire opening and remove any debris.

Remove any soot formation from the inside of the convector box using a soft brush and vacuum cleaner, and with a soft brush **only**, in the case of the Hotbox.

Remove the old silicone sealant from the fireplace and the back of the frame, before following these installation instructions to re-fit the firebox.

Ensure that flue ports are clear of obstruction, and complete re-fitting of the burner tray as detailed in this installation booklet.

### **TO REMOVE THE PILOT ASSEMBLY**

Unscrew the thermocouple nut from the rear of the valve. When reconnecting **do not over-tighten**.

Undo the HT lead from the electrode ceramic.

Undo the fixing nut on the 4mm steel supply pipe to the pilot, at the pilot end.

Remove the fixing screws from the pilot bracket and the complete assembly will remove from the burner tray. Ensure that the pilot injector and flame ports are clear of debris before refitting.

Visually inspect the thermocouple and pilot head for signs of deterioration, and the electrode ceramic for cracks. If either of these situations exist, replace the complete unit

Also check that the spark gap is 4 mm ( $\pm 0.5$ ).

To replace or refit, follow these instructions in reverse.

### **TO REMOVE THE CONTROL VALVE**

#### **• Manual Units only**

Unscrew the thermocouple nut from the rear of the valve. When reconnecting **do not over-tighten**.

Undo the remaining nuts on the valve, consisting of 4mm pilot supply, gas supply inlet and outlet to injector.

Pull off the control knob from the front of the valve.

Undo the retaining nut behind the control panel, and the valve will be released from the burner.

To refit or replace the valve, follow these instructions in reverse.

#### **• Remote Control Units only**

Unscrew the thermocouple nut from the rear of the remote control unit. When reconnecting **do not over-tighten**.

Undo the remaining nuts on the valve, consisting of 4mm pilot supply, gas supply inlet and outlet.

Disconnect the high-tension lead from the co-pilot and both leads from the control receiver box.

Unscrew locating / fixing screw and lift off R/C unit.

To refit or replace the R/C unit, follow these instructions in reverse.

### **TO REMOVE THE INJECTOR ELBOW**

Undo both nuts on the steel pipe from the valve outlet to the injector and remove the steel pipe.

Unscrew the injector from the burner. Take care to retain the spring washer if fitted.

If necessary, clean injector ports before replacement.

To refit or replace an injector, follow these instructions in reverse.

### **TO REBUILD THE FIRE**

Replace the ceramic base plate and rear plate.

Do not refit badly damaged coals. New supplies are available from Fuel Effect Fires stockists.

Follow the coal lay instructions as previously described.

Make final adjustments to the coals to ensure that the pilot flame is not impeded, and to obtain a satisfactory visual effect.

Visually check with leak detector solution, any joints beneath the fire that may have been altered during servicing.

Ensure that the operating pressure is in accordance with the Installation Instructions.

## Remote Control Version.

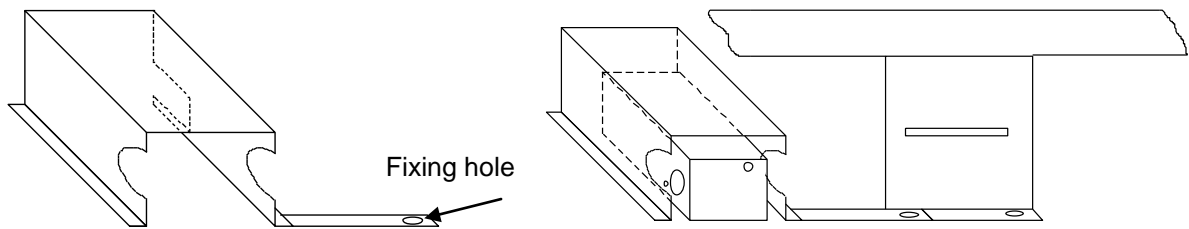
### Heat shield Installation.

#### Important.

The remote control appliances are supplied with a heat shield, to protect the ultrasound receiver from radiant heat generated by the burner. This unit **must** be fitted as follows.

Position the heat shield on the left side of the control panel, and locate the fixing hole in line with the fixing point on the base of the main burner control panel. Secure the heat shield through the fixing hole, onto the fixing stud. In the case of Hot box and Convector box appliances use the nut provided. In the case of inset appliances, the heat shield should be located as detailed above, and secured using the same fixing screws into the hearth, as the main burner. The base of the heat shield rests against the base of the firebox, or the hearth inside the fire opening.

Position the ultrasound receiver inside the heat shield. The unit is free-standing to allow easy access to exchange batteries when required. **Ensure that the receiver is completely covered by the heat shield.**

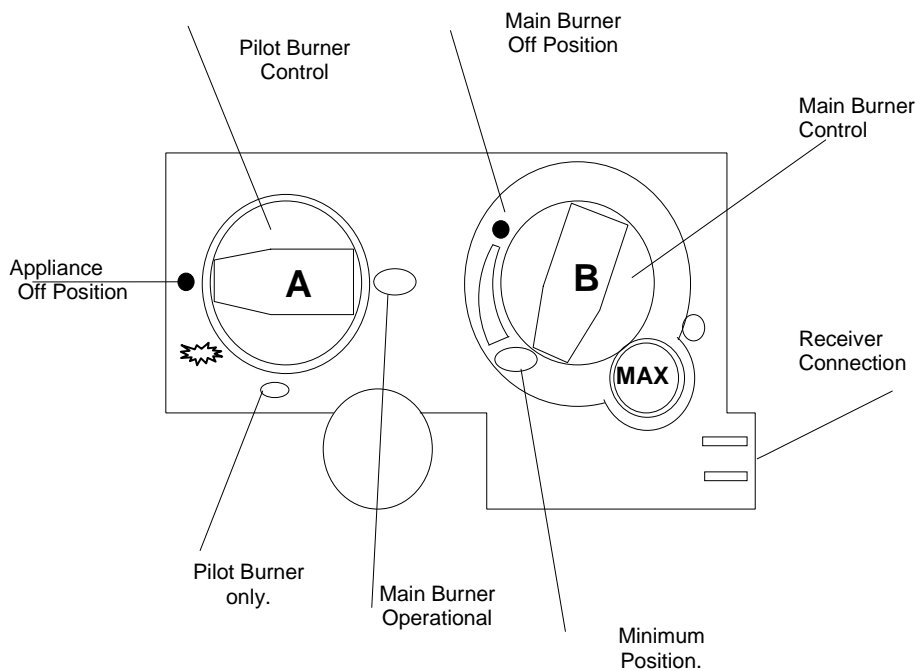


Heat shield

### Operating Instructions.

## OPERATION OF THE FIRE

This fire may be controlled manually, by use of a gas valve mounted on the appliance. The flame settings may also be controlled by means of the remote control handset.



To prevent accidental operation of the fire, we recommend that the fire be switched off when not in use.  
Light the Pilot

**Please note: The fire must be lit manually.**

Ensure that the Pilot Burner Control knob, **A**, is in the APPLIANCE OFF position. Depress the control knob, **A**, and turn anti-clockwise to the ignition position, shown as Pilot Burner only in above diagram to activate the piezo ignition system. A 'click' will be observed, and the pilot should light.

Hold the knob, **A**, in this position (keeping it depressed) for 20 seconds to allow the flame supervision device to establish.

Observe if it is alight by looking towards the pilot light on the right side of the burner.

If the pilot does not light immediately, repeat the above procedure, keeping the knob, **A** depressed for several seconds longer in order to purge any air from the system.

If after 20 seconds, ignition has not occurred, turn the control knob back to the OFF position and repeat the ignition procedure after 30 seconds.

Once the pilot is lit, keep the control knob, **A**, depressed for 20 seconds to allow the flame supervision device to establish. When the control knob, **A**, is released, the pilot should remain lit. If the pilot fails to remain lit, repeat the ignition procedure, this time keeping the control knob, **A** depressed for a longer period of time.

Lighting the Main Burner

Once the pilot light is established, the main burner can be lit by turning the pilot burner control knob, **A**, anti-clockwise to 'Main Burner position' (refer to previous diagram). Then turn the main burner control knob, **B**, to the 'maximum' position, which can be found by turning the control knob, **B**, anti-clockwise until it stops.

Controlling the Heat Setting

In order to change from one setting to another, turn the main burner control knob, **B**, to the required position by rotating it between the maximum setting and the point illustrated as 'Main Burner off' setting.

Note: We recommend you use the appliance at a high setting for the first few hours of use. Whilst binding materials are being burnt out of the burner there may be a slight odour.

To Turn Main Burner OFF

Turn the main burner control knob, **B**, fully clockwise. Alternatively turn the pilot burner control knob, **A**, clockwise to the 'Pilot Burner only' position.

To Turn the Fire Off

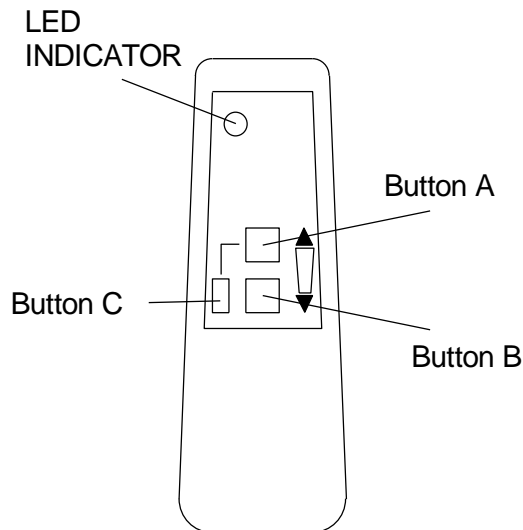
Rotate the Pilot Burner Control knob, **A**, clockwise to position shown as 'Appliance Off'.

**IF THE REMOTE CONTROL FAILS  
LIGHTING THE APPLIANCE WITH A TAPER**

Should the remote control fail to operate successfully, follow this procedure to manually light the pilot flame.

Ensure you can see the pilot assembly through the coals. (It is positioned on the right side of the burner tray, towards the front.) With the control valve, **a**, in the **OFF** position, light a taper or a long spill and insert the lit end into the close vicinity of the pilot assembly. Depress the control knob, **A**, and turn towards the Main Burner Operational setting whilst keeping the knob, **A**, depressed. The pilot flame should ignite from the taper. Once ignited, keep the control knob, **A**, depressed for a further 20 seconds before releasing. Once you release knob, **A**, the pilot flame should stay alight and the appliance can be operated as normal.

## Using the Remote Control Handset



- When the pilot burner control knob is in 'Main burner on' position, the remote control handset may be used to vary the flame effect between 'High' and 'Low', or switch the fire back to pilot setting.
- The handset operates on ultrasonic principles, and as such it is not necessary to point the handset directly at the fire.
- To light the main burner from the handset, ensure that the pilot is alight, and the pilot control is set to the 'main burner setting'. Then by depressing **both** 'BUTTON A' **AND** 'BUTTON C', the valve will operate and the burner will ignite. Keep **both** buttons pressed to turn the valve higher.

NB. This appliance has been designed with safety in mind, and the reason that both buttons need to be depressed is to ensure against accidental ignition of the main burner.

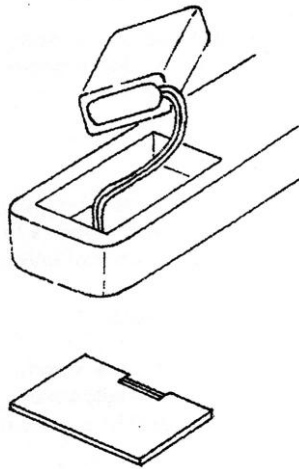
- To then alter the flame settings, using the handset, press and hold 'BUTTON B' to turn the appliance down, and repeat the procedure detailed above, to turn the appliance higher. When the main burner has reached either its fully on position, or the fully off position (pilot burner only), a loud clicking will be heard. Release the buttons at this point. **Failure to do so, will drain the batteries.**
- In order to disable the handset, but still leave the pilot alight, turn the pilot burner control knob to the 'pilot burner only' setting.
- To turn the fire off completely, rotate the pilot/burner control knob clockwise to position shown as 'Appliance off'.

## Battery Life & Replacement

- Please note: In order to ensure maximum battery life and optimal performance, we recommend that only 'Long Life' type replacement batteries are used.

### Handset

- The remote control handset is powered by 1 x PP3 battery that should be replaced approximately every 12 months.
- To replace: Remove cover from rear of handset, remove and discard old battery. Replace battery and refit cover.



### Receiver Unit

- The receiver/valve is powered by 4 x AA batteries that should be replaced every 12 months.
- To replace: Make sure the fire is switched off. Remove the fire front and ash-pan cover. Withdraw the battery holder, and open. Remove the old batteries and discard. Replace with new batteries. Refit batteries into holder and replace cover.

## E-Slide Control Version.

### Heat shield Installation.

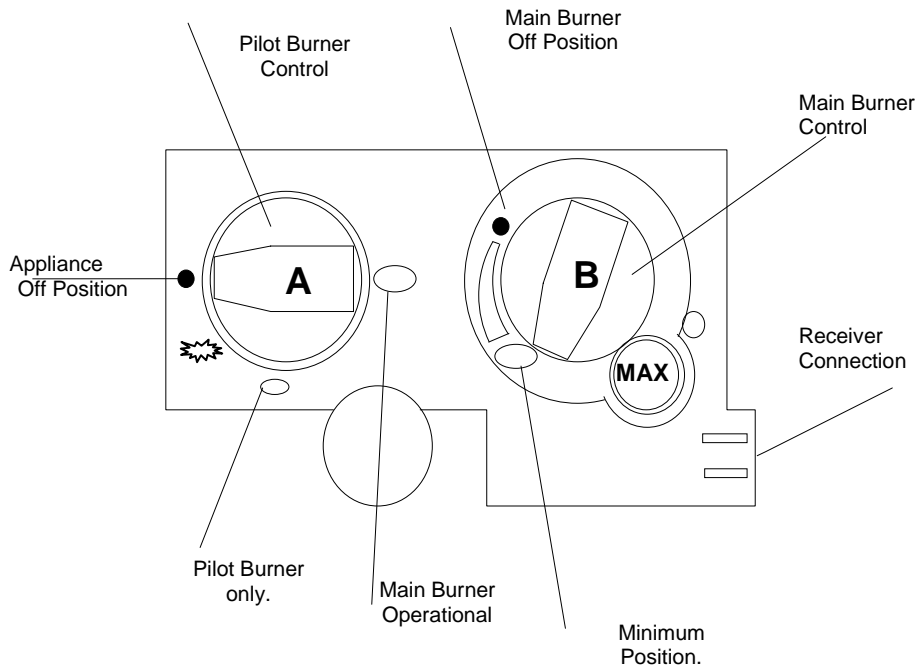
#### Important.

The E-Slide Control appliances are supplied with a heat shield, to protect the battery housing from radiant heat generated by the burner. Please Note: - The 9v PP3 battery housing is already located within the heat shield.

### Operating Instructions.

## OPERATION OF THE FIRE

This fire may be controlled manually, by use of a gas valve mounted on the appliance. The flame settings may also be controlled by means of the E-Slide Control.



To prevent accidental operation of the fire, we recommend that the fire be switched off when not in use.

## Manual

### Light the Pilot

**Please note: The fire must be lit manually.**

Ensure that the Pilot Burner Control knob, **A**, is in the APPLIANCE OFF position. Depress the control knob, **A**, and turn anti-clockwise to the ignition position, shown as Pilot Burner only in above diagram to activate the piezo ignition system. A 'click' will be observed, and the pilot should light.

Hold the knob, **A**, in this position (keeping it depressed) for 20 seconds to allow the flame supervision device to establish.

Observe if it is alight by looking towards the pilot light on the right side of the burner.

If the pilot does not light immediately, repeat the above procedure, keeping the knob, **A** depressed for several seconds longer in order to purge any air from the system.

If after 20 seconds, ignition has not occurred, turn the control knob back to the OFF position and repeat the ignition procedure after 30 seconds.

Once the pilot is lit, keep the control knob, **A**, depressed for 20 seconds to allow the flame supervision device to establish. When the control knob, **A**, is released, the pilot should remain lit. If the pilot fails to remain lit, repeat the ignition procedure, this time keeping the control knob, **A** depressed for a longer period of time.

### Lighting the Main Burner

Once the pilot light is established, the main burner can be lit by turning the pilot burner control knob, **A**, anti-clockwise to 'Main Burner position' (refer to previous diagram). Then turn the main burner control knob, **B**, to the 'maximum' position, which can be found by turning the control knob, **B**, anti-clockwise until it stops.

### Controlling the Heat Setting

In order to change from one setting to another, turn the main burner control knob, **B**, to the required position by rotating it between the maximum setting and the point illustrated as 'Main Burner off' setting.

Note: We recommend you use the appliance at a high setting for the first few hours of use. Whilst binding materials are being burnt out of the burner there may be a slight odour.

### To Turn Main Burner OFF

Turn the main burner control knob, **B**, fully clockwise. Alternatively turn the pilot burner control knob, **A**, clockwise to the 'Pilot Burner only' position.

### To Turn the Fire Off

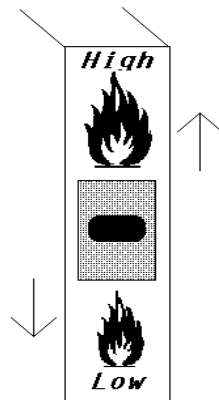
Rotate the Pilot Burner Control knob, **A**, clockwise to position shown as 'Appliance Off'.

## **IF THE E-SIDE CONTROL FAILS LIGHTING THE APPLIANCE WITH A TAPER**

Should the E-Slide Control fail to operate successfully, follow this procedure to manually light the pilot flame.

Ensure you can see the pilot assembly through the coals. (It is positioned on the right side of the burner tray, towards the front or at the front centre of the burner, depending on model.) With the control valve, **a**, in the **OFF** position, light a taper or a long spill and insert the lit end into the close vicinity of the pilot assembly. Depress the control knob, **A**, and turn towards the Pilot Burner setting whilst keeping the knob, **A**, depressed. The pilot flame should ignite from the taper. Once ignited, keep the control knob, **A**, depressed for a further 20 seconds before releasing. Once you release knob, **A**, the pilot flame should stay alight and the appliance can be operated as normal.

## Using your E-Slide Control



When the pilot burner control knob, **A**, is in 'Main Burner Operational' position, the E-Slide Control may be used to vary the flame effect between 'OFF', 'LOW' and 'HIGH', or switch the fire back to pilot setting.

In order to light the main burner from the E-Slide Control, ensure that the pilot light is alight, and the pilot control knob, **A** is set to the 'main burner'. Press and hold **the** 'E-Slide Control upwards and the burner will ignite. Keep the E-Slide Control pressed until the desired flame is achieved. A repetitive click will be heard once the maximum is reached, and the E-Slide should be released. To lower the flame press and hold in the downwards position once again, a repetitive click will be heard once the valve reaches its 'off' position and the E-Slide should be released. In order to switch the fire off to pilot setting press the E-Slide Control down until only the pilot light remains alight.

If main burner fails to ignite, please check batteries (see section on battery replacement)

In order to disable the E-Slide Control, but still leave the pilot alight, turn the pilot burner control knob to the 'pilot burner only' setting.

### Battery Life & Replacement

Please note: In order to ensure maximum battery life and optimal performance, we recommend that only 'Long Life' type replacement batteries be used.

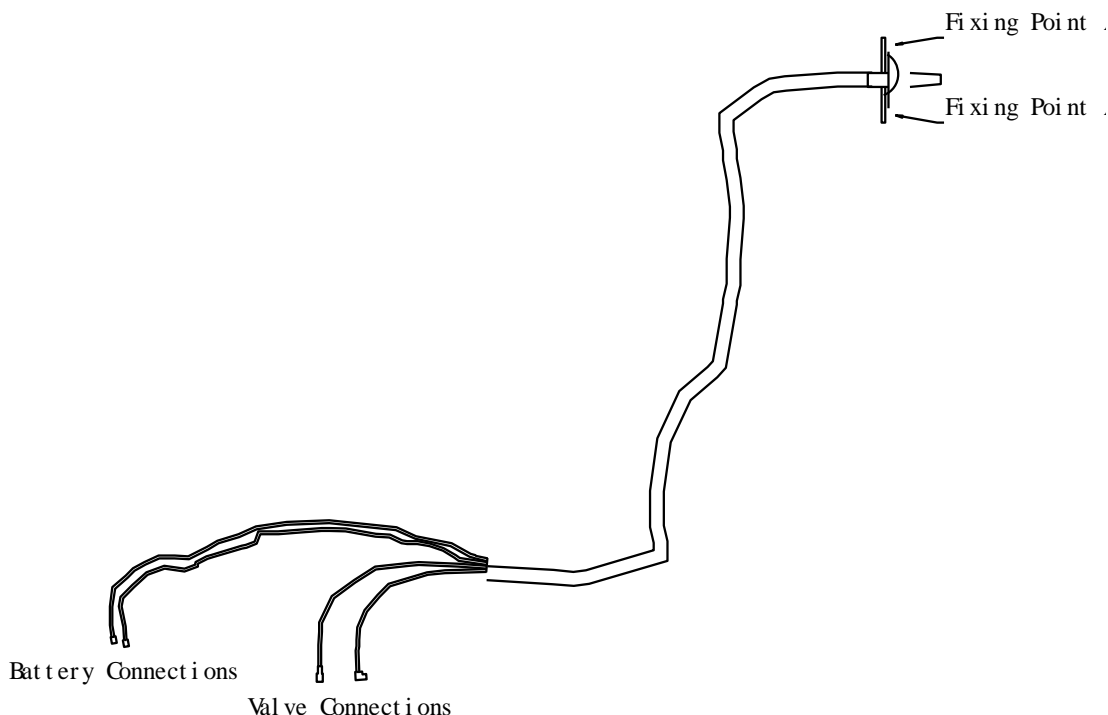
### Battery Holder

To replace: 1 x 9v battery which should be replaced at least every 12 months powers the valve motor.

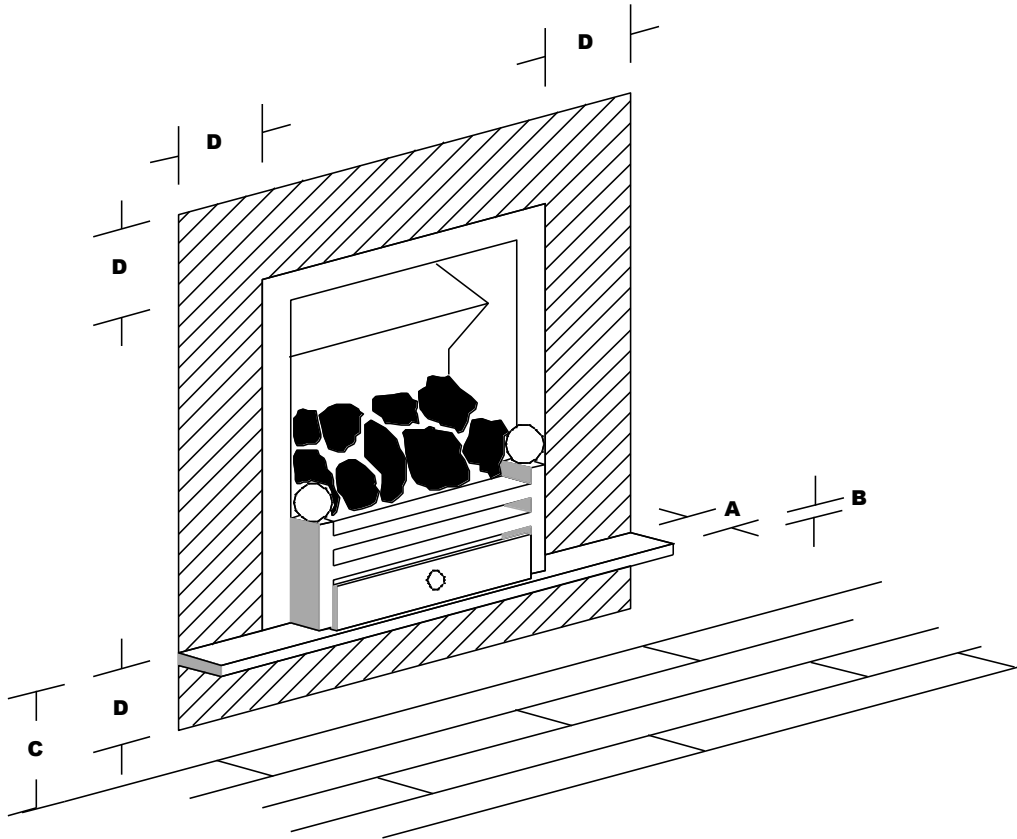
## E-Slide addendum sheet.

When fitting the E-Slide frame switch control, please follow this detail

1. Connect the switch to the fire box, using the 2 x self tapping screws provided. This are detailed below as '**Fixing Point A**'
2. Beneath the burner tray, connect the '**Battery Connections**' to the spades on the rear of the battery housing box.
3. Connect the '**Valve Connectors**' to the spades protruding from the body of the control valve. They are sized and shaped to ensure that they can only be fitted in the correct way.
4. If the switch appears to be operating the wrong way around, I.e. When the switch is lifted up and the fire goes down, and visa versa, then swap around the '**Battery Connectors**' on the rear of the battery housing box.
5. REMEMBER: Always ensure that the pilot ignition knob on the control valve, is set to the 'fire operational' setting. Otherwise, the valve will rotate, but will not ignite beyond the pilot setting. Any doubts, consult the installation instructions supplied.



Addendum for Hole in the Wall applications.  
 Covers all models, must be used in conjunction with the issued installation instructions.



A	Plinth projection	Minimum 75mm
B	Plinth thickness	Minimum 20mm
C	Height of appliance base, from floor	Minimum 200mm
D	Non combustible clearance requirements	Minimum 150mm

This addendum must be used in conjunction with the issued installation instructions, and facilitates installation of all FEF appliances without the need for a projecting hearth, other than the plinth as detailed above.

All other installation requirements are as stated in the supplied Installation Instructions, and must be adhered too.

## **16" Pebble Effect Arrangement Instructions**



### **ROW A**

Place 5 extra small pebbles (labelled on the base with XS), evenly spaced at the rear of the burner as illustrated. These should be placed with the marked side face down, and pushed as far back as the rear ceramic will allow.



### **ROW B**

Rest the next row of pebbles, half and half over the ceramic edge and the front spacer on the burner. Arrange 3 small pebbles (labelled on the base with S) positioned one at either edge and one in the middle of the burner. Then between these, 2 medium pebbles (labelled with M). All pebbles laid with the marked face down.



### **ROW C**

Place 3 large pebbles (labelled with L) lengthways as illustrated, on the top of Row A, and resting against the rear ceramic.



### **ROW D**

Place 2 medium pebbles lengthwise as shown on the top of ROW C. The marked side (M) should be facing the rear ceramic. Then, at either edge place 1 extra small pebble, again on the top of the pebbles on ROW C. The marking on the rear of these (XS) should be facing the rear ceramic.



### **ROW E (Part 1)**

Place 2 medium pebbles either side of the opening as illustrated. (The markings M, facing the rear of the appliance), angle these with the narrower top sloping away from the centre of the fire, and the thicker base firmly positioned between the pebbles on ROW A. These pebbles lean back against the large pebbles in ROW C.



### **ROW E (Part 2)**

Place 2 large pebbles (Marked L), with the top of each resting between the large pebbles in ROW C and the base resting centrally on top of the medium pebbles in ROW B. Place a medium pebble (marked M), on top of the centre pebble on ROW A, and leaning back against the 2 large pebbles as illustrated.

## Log effect lay instructions. (1 of 2)

Place log A, against the rear ceramic at the back of the burner in the orientation as shown.

NB. Log marked on rear.



Place the silver birch (light colour) log on top of log A and also resting against the rear ceramic.



Place log B lengthways across the front edge of the burner tray, as far forward as possible without overhanging the curved front spacer.

NB. Log marked on rear.



Log F should bridge the gap between log B and log A, with the two pronged end facing to the left. There are locating grooves along the front edge which allow the log to rest on the rear of log B. This log should be positioned central in the fire opening.

NB. Log marked on rear.



Rest the grooved edge of log D against the rear of log B and position the log against the right side of the fire opening. Log D will rest backwards against log A.

NB. Log marked on rear.



Rest the grooved edge of log E against the rear of log B, and ensure that this log is against the left side of the fire opening. The log should rest backwards against the silver birch log.

NB. Log marked on rear.



The forked end of log G should face towards the rear of the appliance, as the log is located into the groove towards the bottom of log D and rests against the back of log F as shown.

NB. Log marked on rear.



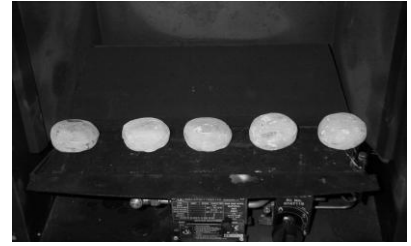
The forked end of log H should face towards the rear of the appliance as log H is placed securely into the fork of log F.

NB. Log marked on rear.



## 18" Pebble Lay Instructions

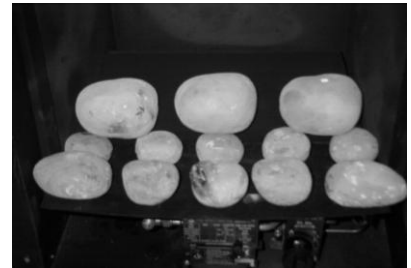
Place 5 extra small (marked XS) pebbles evenly spaced across the back of the burner tray, and up against the rear ceramic.



Across the front of the burner in the center, place 3 small pebbles (marked S) resting half on the base ceramic and half onto the front curved spacer as shown. These should have a 5-10mm space between them. At either side, place a medium pebble (marked M) lengthways pointing into the side of the fire. These should also rest half and half across the front spacer and base ceramic.



Resting against the rear ceramic and on top of the extra small pebbles, place 3 large pebbles (marked L) evenly spaced.



Position a medium pebble (M) at each side of the fire, and resting against the side cheeks. These pebbles should rest up against the large pebbles at the rear, and point forwards, bridging the gap between the base pebbles.



Take 4 large pebbles, (L) and place these across the front of the fire as shown. They should be in a vertical orientation and lean backwards against the large rear pebbles.



At the rear of the fire, firstly bridge the gaps between the large rear pebbles with medium pebbles (M) in a sideways orientation. These should rest against the rear ceramic. Place a small pebble (S) at either side of these, and an extra small (XS) pebble in between them.



Finally, position extra small (XS) pebbles across the top of the front row of large pebbles, equally spaced as shown.

