



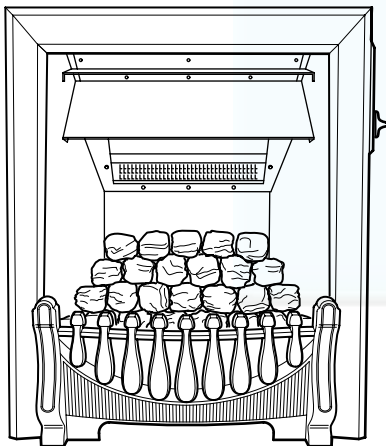
## Installation & Servicing Instructions

To be left with the user

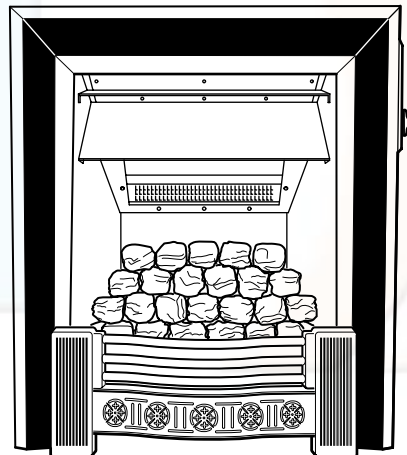
# The Glow-worm Inset Fire Front

*For Use With a Specially Designed  
Glow-worm Back Boiler Unit only*

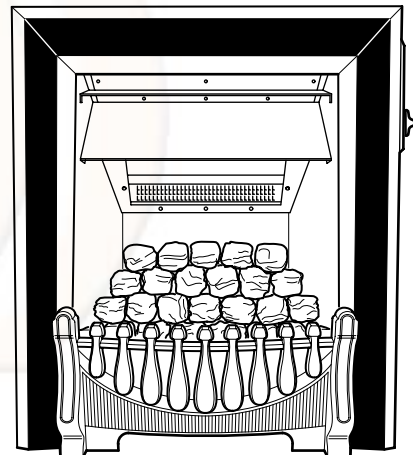
**Brass Chatsworth BBU  
with Brass - Standard  
frame**



**Brass Dovedale BBU  
with Brass / Black  
frame**



**Silver Chatsworth BBU  
with Silver / Black  
frame**



6520



This is a Cat I<sub>2H</sub> Appliance

**HEATCALL**

**One Contact Local Service**

Customer Services:

Tel: (01773) 828100

Fax: (01773) 828070

**Hepworth Heating Ltd.,**

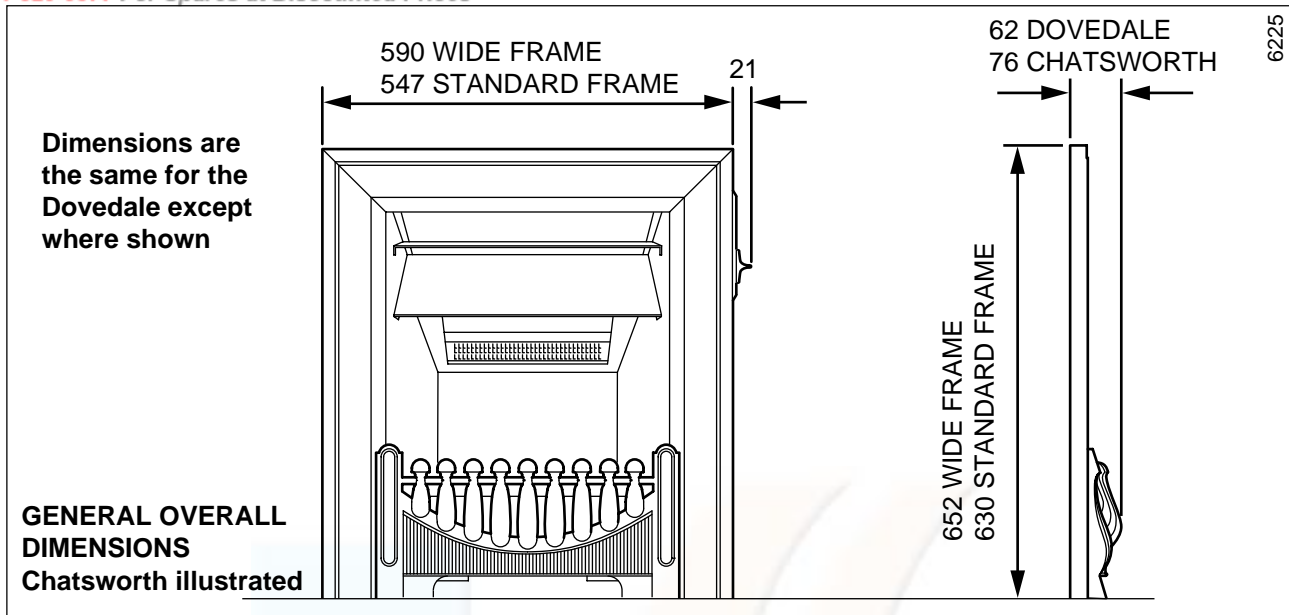
Nottingham Road, Belper, Derbyshire. DE56 1JT

**General/Sales enquiries:**

Tel: (01773) 824141 Fax: (01773) 820569



## 1 General



References in these instructions to British Standards and Statutory Regulations and Requirements apply only to the United Kingdom.

For Ireland the rules in force must be used.

The instructions consist of two parts, Installation and Servicing Instructions for the Fire Front and the Instructions for Use. The instructions are an integral part of the appliance and must, to comply with the current issue of the Gas Safety (Installation and Use) Regulations, be handed to the user on completion of the installation.

### 1 General Notes and Information

There is one cardboard carton, which contains all the parts necessary for the fitting of the fire front, see diagram 1.4.

Note: Wherever the wording “wide frame” is used, it refers to either the brass/black frame or the silver/black frame.

Wherever possible, all materials, appliances and components to be used should comply with the requirements of applicable British Standards.

Where no British Standard exists, materials and equipment should be fit for their purpose and of suitable quality and workmanship.

#### 1.1 Important Notice

This fire front is for use only on G20 gas.

The fire front is fitted with a combustion products discharge safety device which will shut it down if there is a lack of oxygen. The principle by which this operates is that when there is a depletion of oxygen resulting from a build up of combustion products. The flame on the pilot light will become unstable and lift up off the thermocouple. This will deactivate the mag unit in the gas control valve, cutting off the gas supply.

If the fire shuts down frequently for no apparent reason the first things to check are the chimney and air inlets into the room. Any problems found must be put right,

by a competent person, and a full operational test carried out before the fire is used again.

IN ALL cases the room must be ventilated before attempting to relight the fire.

The combustion products discharge safety device incorporates the electrode, thermocouple and pilot assemblies.

**The combustion products safety device MUST NOT be adjusted or disconnected. It must be serviced strictly in accordance with the instructions in this book. Any unauthorised interference could result in the device failing to operate, creating a potentially dangerous situation. If replacing, use only the correct and approved parts.**

Sealed components must not be interfered with.

Servicing instructions and identification of parts is given in Sections 6, 7, 8 and 9.

It is essential that only genuine Glow-worm parts are used.

All WARNINGS and cautions in these instructions must be observed.

#### Sheet Metal Parts

**WARNING.** When fitting or servicing this fire front, care should be taken when handling sheet metal parts, to avoid any possibility of personal injury.

#### 1.2 Statutory Requirements

The fitting of this fire front must be done by a competent person, in accordance with the current issue and relevant requirements of:-

Manufacturer’s instructions, supplied.

The Gas Safety (Installation and Use) Regulations, The Building Regulations, The Building Standards (Scotland) Regulations, (applicable in Scotland), The Health and

## 1 General

Safety at Work Act, The Control of Substances Hazardous to Health, The Electricity at Work Regulations and any applicable local regulations.

Detailed recommendations are contained in the current issue of the following British Standards and Codes of Practice:-

BS1251, BS5440 Part 1 and 2, BS5871, BS6891.

Manufacturer's instructions must not be taken as overriding statutory requirements.

### 1.3 Certification

This fire front is certificated for performance and safety. It is, therefore, important that no alteration is made to the fire front without permission, in writing, from Hepworth Heating Ltd.

Any alteration that is not approved by Hepworth Heating Ltd., could invalidate the certification, the warranty and could also infringe the statutory requirements.

### CE Mark

The boiler meets the requirements of Statutory Instrument, No. 3083 The Boiler (Efficiency) Regulations, and therefore is deemed to meet the requirements of Directive 92/42 EEC on the efficiency requirements for new hot water boilers fired with liquid or gaseous fuels.

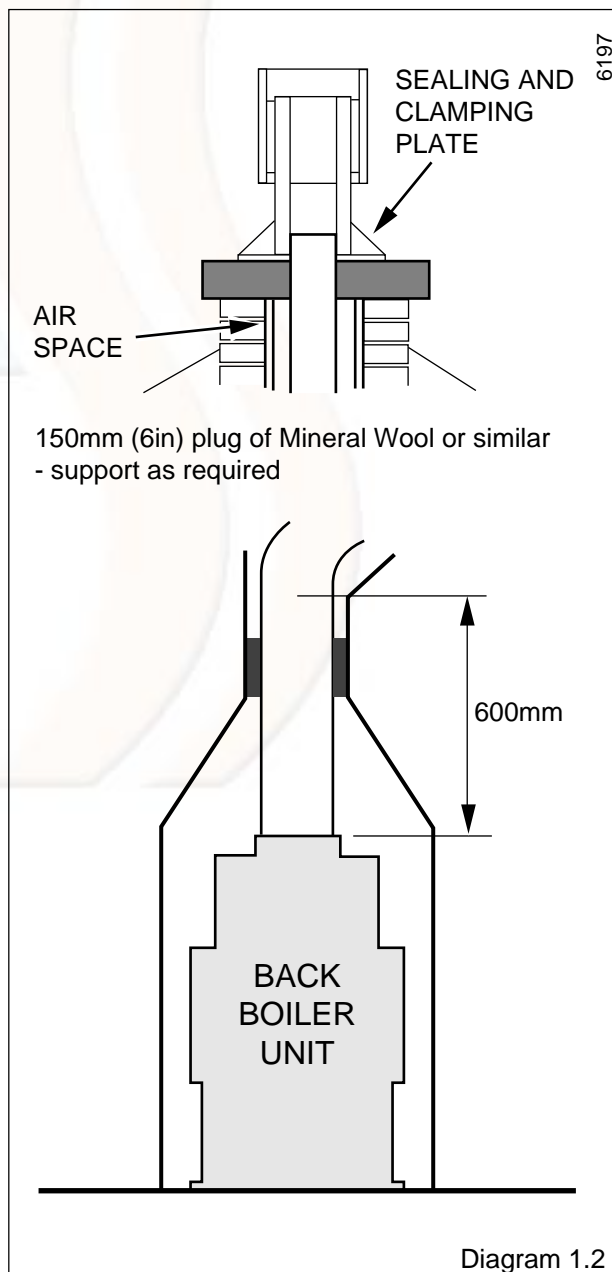
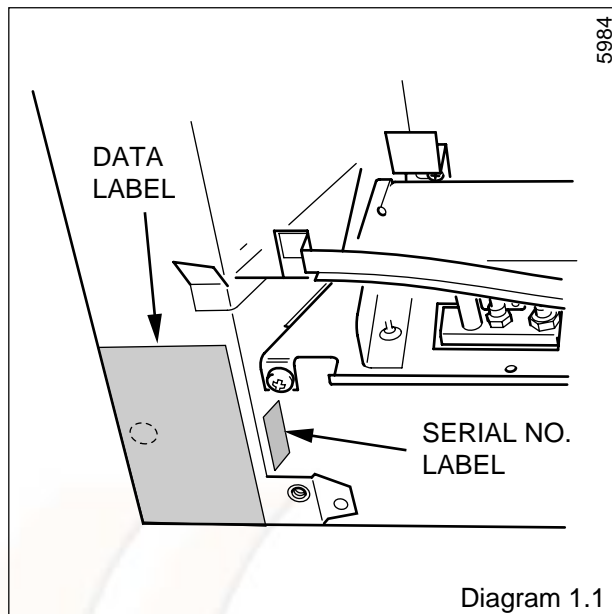
Type test for purposes for Regulation 5 certified by: Notified body 0086.

Product/production certified by: Notified by 0086.

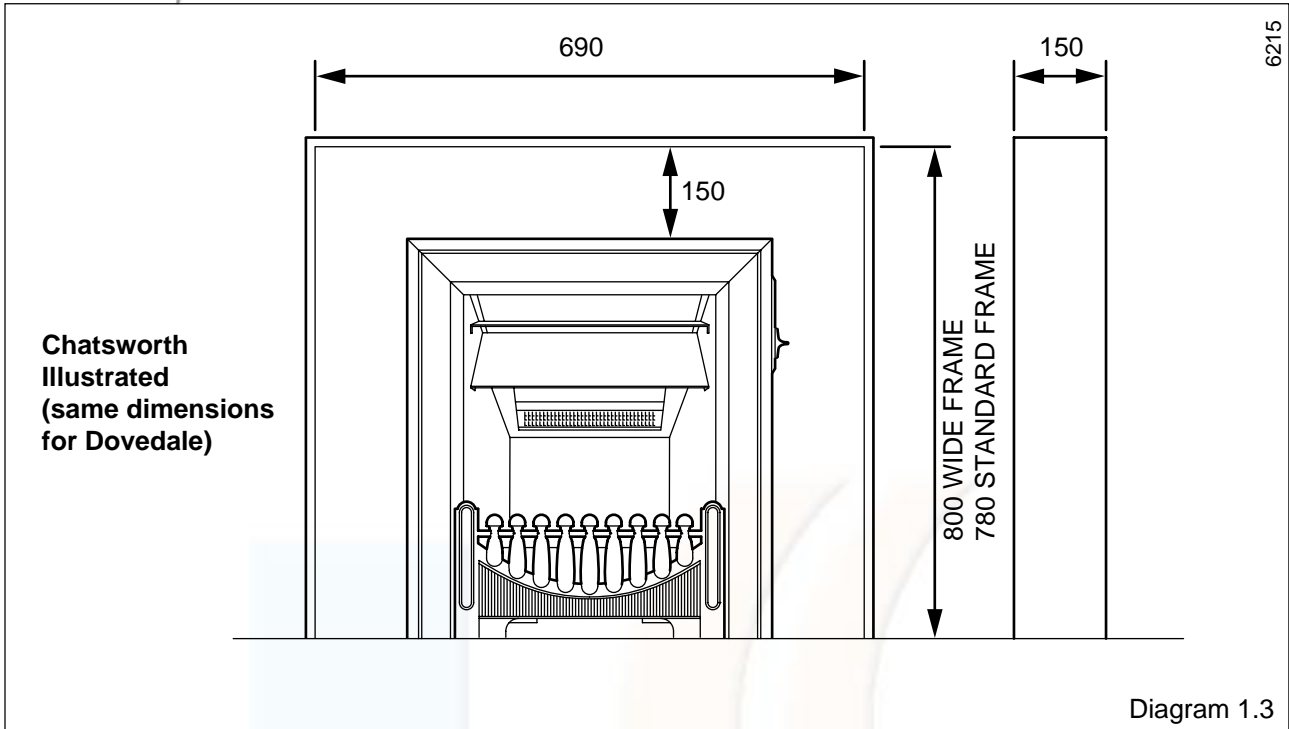
1. Directive 90/396/EEC on the approximation of the Laws of the Member States relating to appliances burning gaseous fuels.
2. Directive 73/23/EEC on the harmonization of the Laws of the Member States relating to electrical equipment designed for use within certain voltage limits.
3. Directive 89/336/EEC on the approximation of the Laws of the Member States relating to electromagnetic compatibility.

### 1.4 Data

Injector	Part No. 205739
Pressure setting	Hot 17.6mbar (7.1 in wg)
Heat input nominal	6.74kw (23000 Btu/h)
Total appliance	
Unpacked weight	(Approx. 20kg)
Data label is positioned, see diagram 1.1.	



## 1 General



### 1.5 Fire Location

This fire front can only be fitted to a Glow-worm Inset 40 or 50 back boiler unit which itself has been installed in accordance with the Glow-worm Installation and Servicing Instructions for the back boiler.

Before fitting the fire front it is important to make sure that the annular space between the back boiler flue liner and the chimney is sealed at the base and top of the chimney, as shown in diagram 1.2.

The combustion chamber flue spigot assembly projects into the back boiler unit draught diverter assembly.

The gas supply is taken from the fire front gas service cock, located in front of the back boiler unit.

The back boiler must be correctly positioned in the builder's opening as the fire front is located by connection to it.

### 1.6 Clearances

Restrictions must not be placed around the assembled fire, see diagram 1.3.

A shelf or surround of a maximum depth of 150mm may be fitted, provided clearances are as shown in diagram 1.3. However, for every 25mm extra above the fire the depth of the shelf may be increased by 25mm.

Combustible furniture or materials must not be placed closer than 1metre in front of the fire.

### 1.7 Unpacking

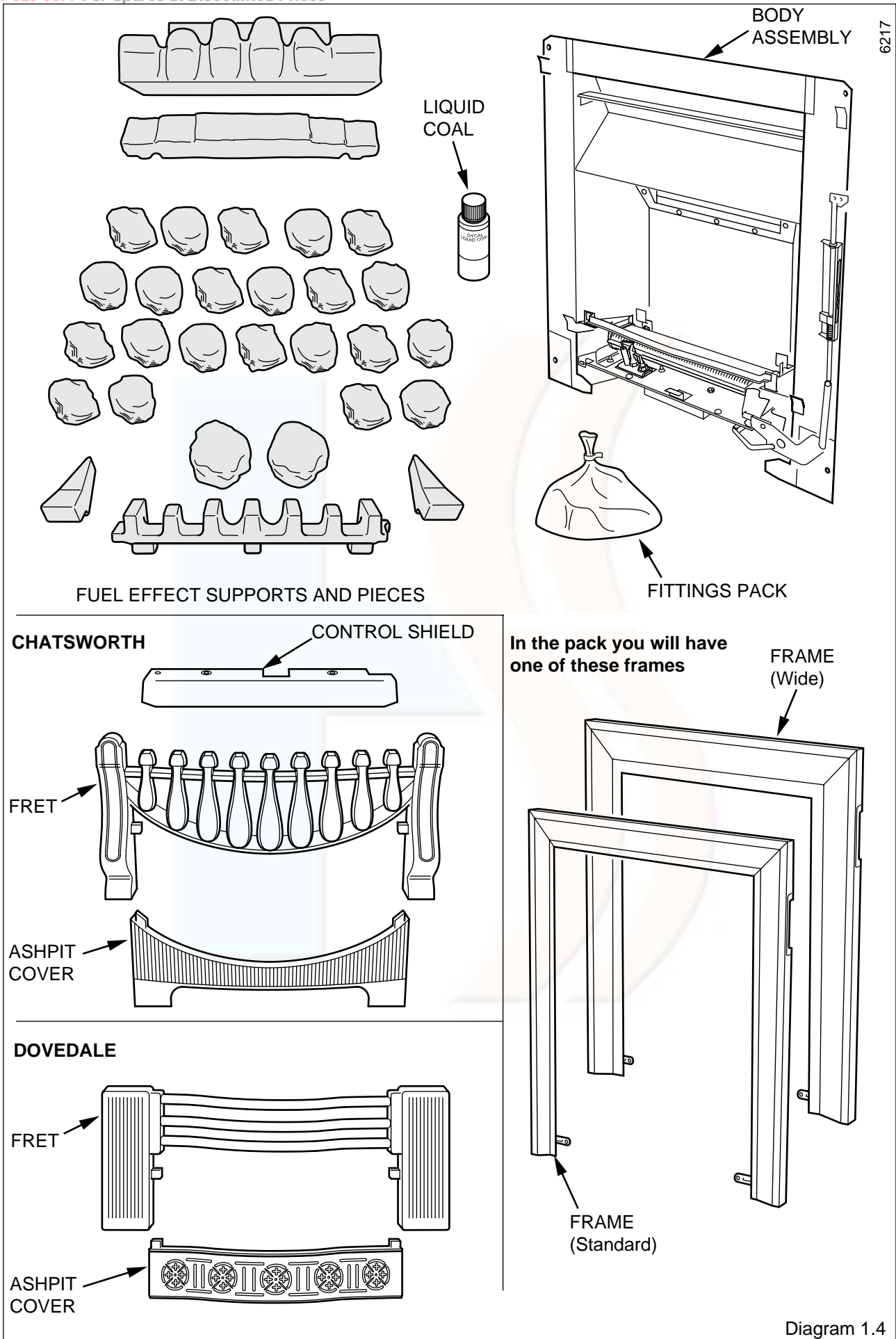
There is one carton containing all parts necessary for fitting of the fire.

Diagram 1.4 shows the parts supplied.

Note: The contents will include either the Chatsworth or Dovedale fret and ashpit cover.

Check contents of loose items pack against packed list.

1 General



## 2 Types of Installation and Flue

### 2.1 Hearth

In ALL cases a fireproof hearth to the minimum dimensions as shown in diagram 2.1, must be fitted.

### 2.2 With Surround

The surround must have a minimum clear flat area as shown in diagram 1.3. Any projection on the surround must be outside this area.

Any combustible material, for example, blown vinyl wall covering, on the fire front fixing face area of the surround must be removed, see diagram 1.3.

This area, to the depth removed should then be rendered with a sand/cement mixture.

### 2.3 Without Surround

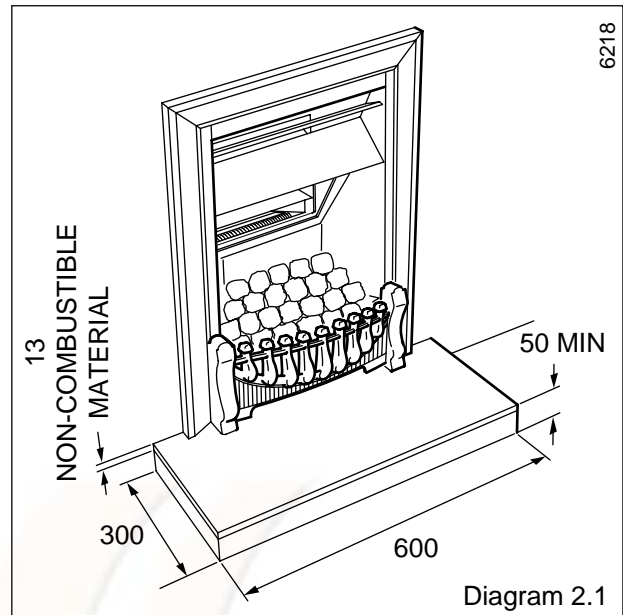
The fire front fixing wall face must be flat over an area as shown in diagram 1.3. This also shows the minimum clearances for shelves or projections on the fire front fixing wall face.

The information regarding the fire front opening must be followed together with the last two paragraphs of 2.2. "With Surround".

### 2.4 Flue and Ventilation

The back boiler draught diverter assembly accepts the combustion chamber flue spigot.

Note. Provision must have been made during installation of the back boiler for the total ventilation requirement of the combined appliance. See the relevant Section in the Back Boiler Installation and Servicing Instructions.



### 3 Installation

#### 3.1 Positioning the Fire Front

Note: Before fitting, make sure the wall surface to which the fire front is to be fitted is vertical and flat. Any unevenness may cause the whole assembly to become twisted or distorted when fixing.

Fit the fire front flue seal supplied in the fittings pack around the outside of the flue spigot, see diagram 3.1.

Place the fire front into the fire opening and make sure the flue spigot fits into the draught diverter. Secure the fire front to the back boiler assembly by tightening the wing nuts and the two securing screws provided, see diagram 3.2.

#### Fire Front Removal

This will be necessary when servicing the back boiler unit.

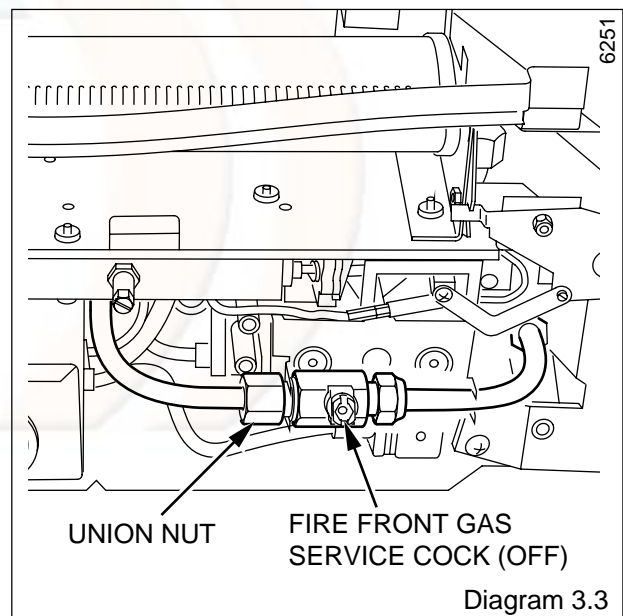
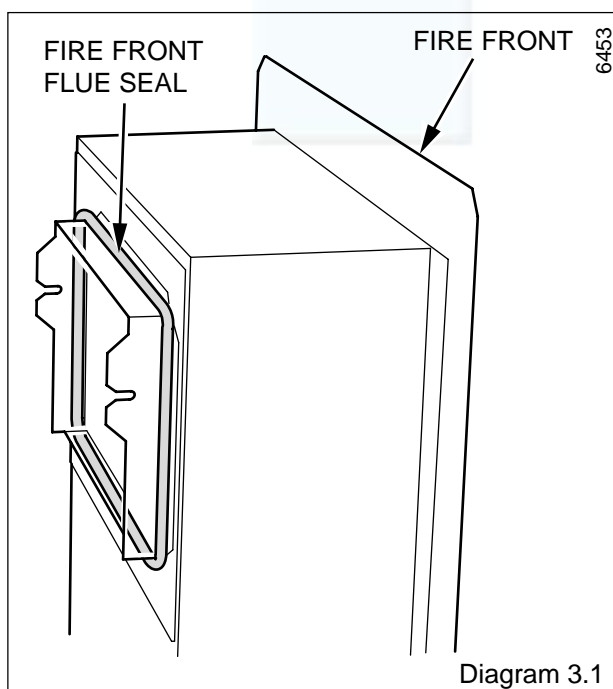
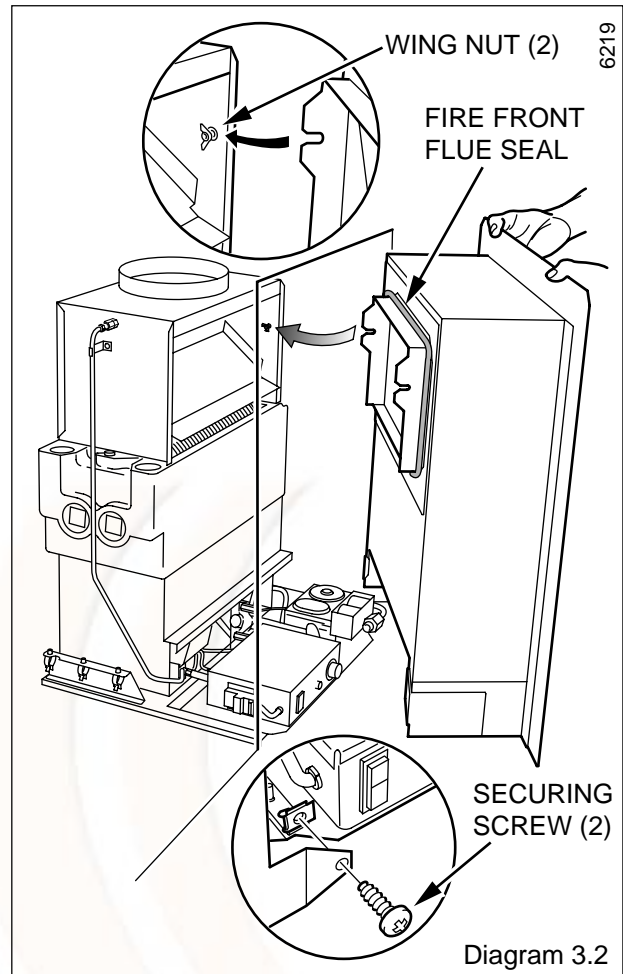
Disconnect the union nut at the front gas service cock, see diagram 3.3.

Remove the two securing screws, slacken the two wing nuts, remove the fire front, see diagram 3.2.

**IMPORTANT NOTE:** Replace the fire front flue seal if necessary. Ensure the fire front flue seal is fitted before re-fitting the fire front.

#### 3.2 Gas Connection

Connect the gas supply tube, as diagram 3.3 tighten the nut at the fire front gas service cock.





## 4 Lighting, Testing and Fitting of Internal Parts

### 4.1 Lighting and Testing

The fire is fitted with a safety device.

The information in Section 1 must be observed.

Fit knob to slider control, see diagram 4.1.

The slider control will move up and down, as it does the locator selects positions from off to ignition, see diagram 4.2.

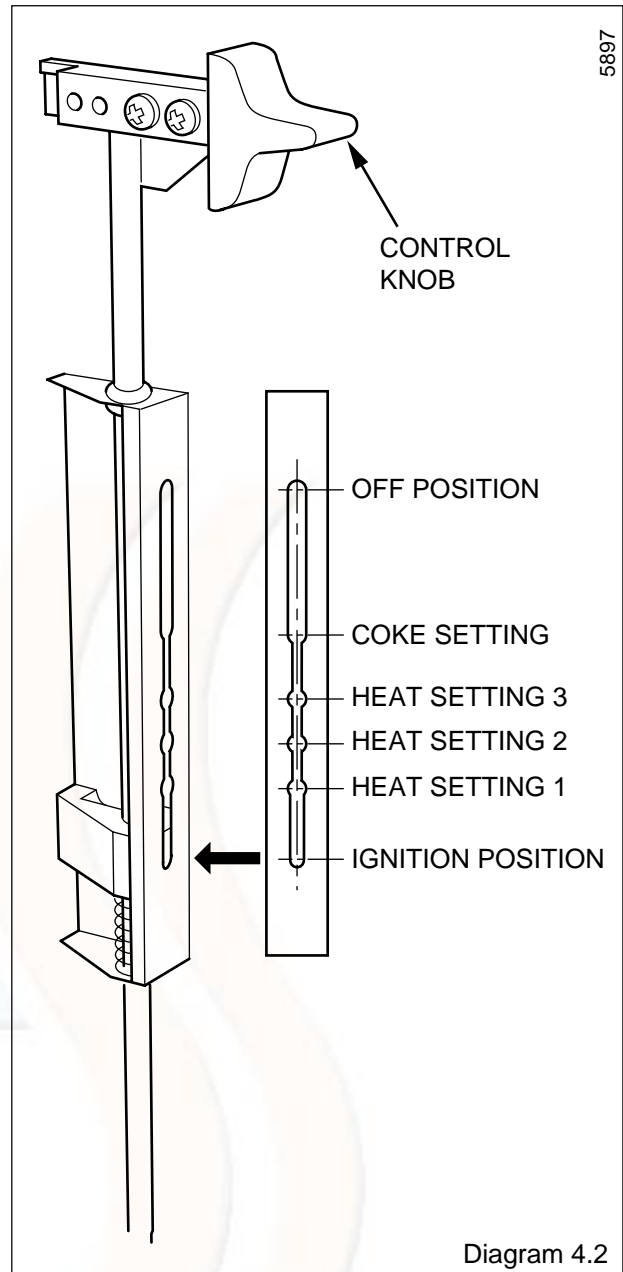
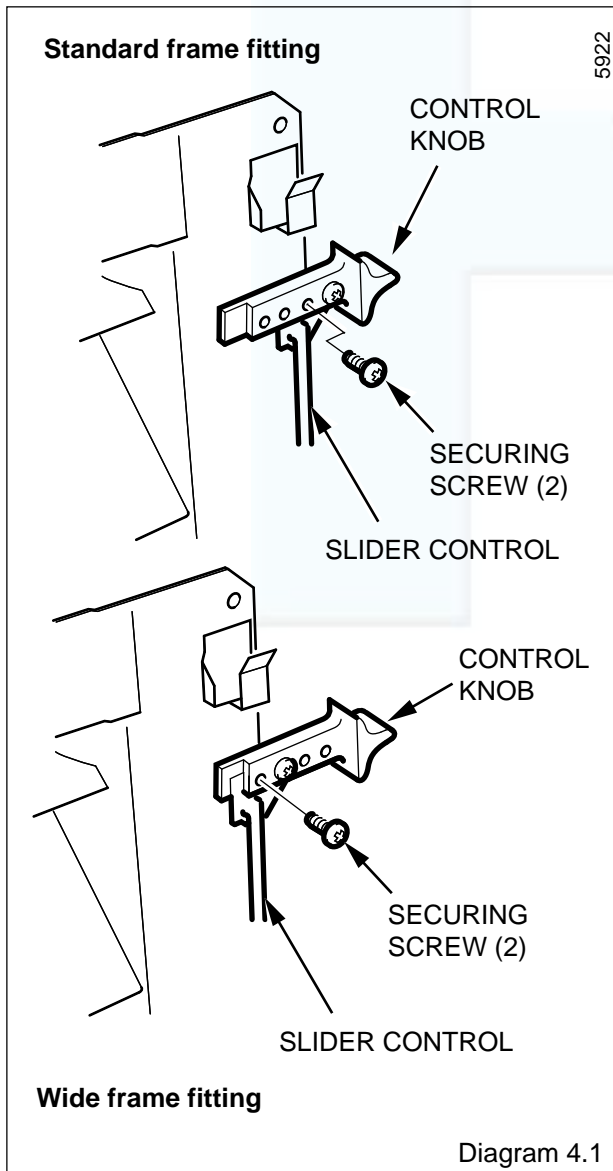
Make sure that the gas control assembly is in the OFF position, that is, the slider control is at the top, see diagram 4.2.

Fit the battery, see diagram 4.3.

Remove the pressure test nipple screw and fit a suitable pressure gauge, see diagram 4.4.

Turn the gas supply on at the fire front gas service cock.

To check for gas soundness, apply leak detection fluid to all joints.



## 4 Lighting, Testing and Fitting of Internal Parts

**WARNING.** Take care when doing the following check, as the burner has a naked flame.

Slide the control knob all the way down to the ignition position, against its stop, and hold, see diagram 4.2, clicking of the ignition will be heard and the burner will light.

**IMPORTANT.** If the burner does not light within three seconds, return the knob to the OFF position, wait for ten seconds and repeat the lighting operation.

Keep the slider in the ignition position for fifteen seconds during which time the ignition system will continue to operate, indicated by the clicking.

**Before releasing, ensure the control knob is fully depressed against its stop, to engage the flame supervision device.**

Air may be present in the supply to the fire so that the initial lighting operation may need to be repeated.

With the burner lit, check all joints for gas soundness, at all control positions, in accordance with the current issue of BS6891.

Check that the gas pressure is as stated in the Data Section or on the Data Label.

If there is any doubt about the gas rate, check at the meter, having first turned off all other gas appliances and pilot lights.

The gas rate for this fire at heat setting 3 is 22.68ft<sup>3</sup>/h (0.8m<sup>3</sup>/h).

Check all heat settings, 1, 2, 3 and coke.

To turn the fire off, return the slider control to the top.

Remove the pressure gauge, refit the screw and make sure that a gas tight seal is made.

Chatsworth only - fit the control shield, see diagram 4.5.

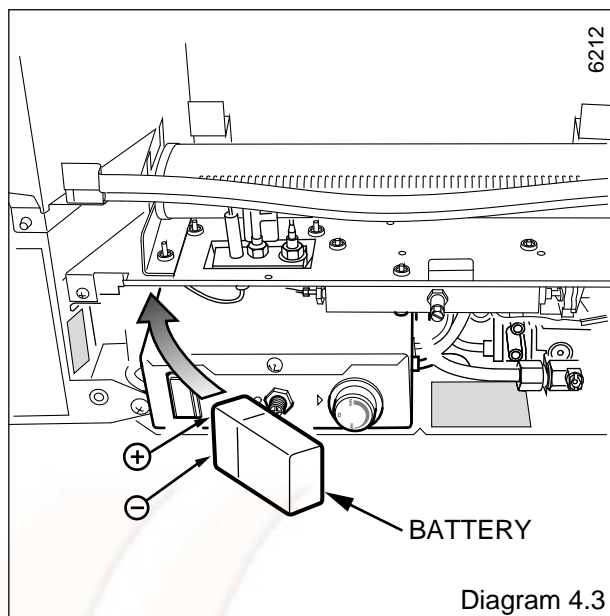


Diagram 4.3

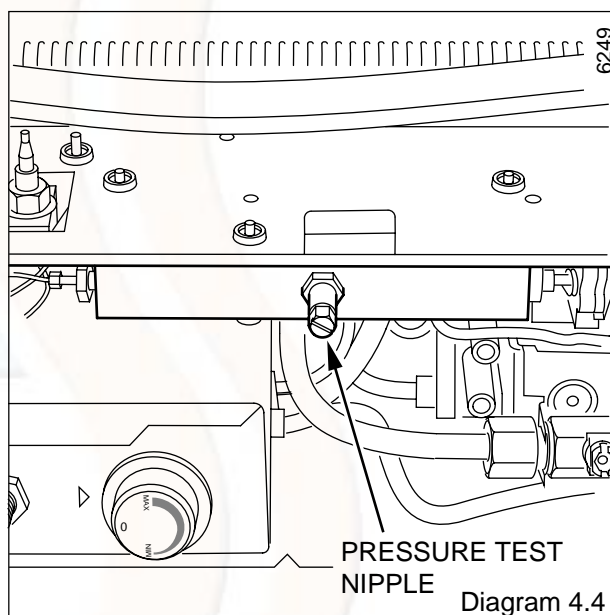
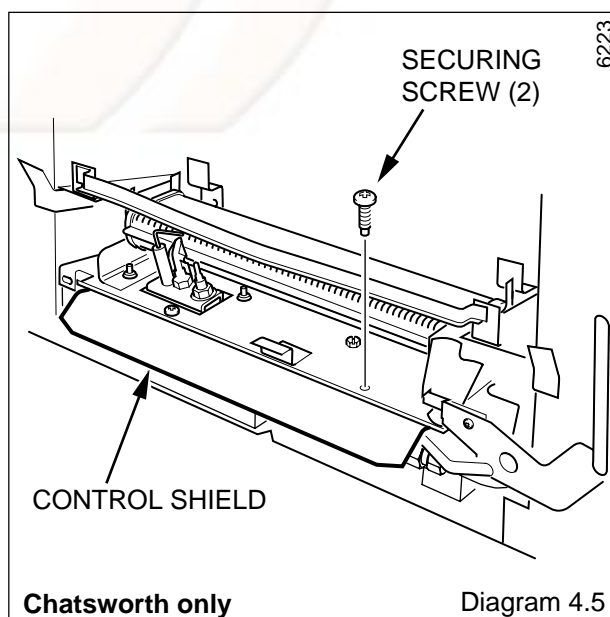


Diagram 4.4



Chatsworth only

Diagram 4.5

## 4 Lighting, Testing and Fitting of Internal Parts

### 4.2 Fire Frame

Remove the frame from the packaging.

Fit as shown in diagram 4.6

### 4.3 Fuelbed Fitting

**CAUTION.** If the fuel effect supports and fuel effect pieces are damaged, do not light the fire or further test until replacement parts are fitted.

**USE ONLY THE FUEL EFFECT APPROVED FOR THIS FIRE.**

**DO NOT USE MORE FUEL EFFECT PIECES THAN SPECIFIED.**

**DO NOT CHANGE THE LAYOUT OF THE FUEL EFFECT PIECES.**

The importance of positioning the fuel effect pieces correctly cannot be overemphasised if sooting is to be avoided. The flame effect may also be impaired and the life of the fuel effect pieces reduced if assembly directions are not followed.

Before positioning the fuel effect pieces, study carefully the illustrations showing the layout procedure of the pieces, see diagram 4.7.

Follow the steps which are shown numerically in the fuelbed fitting sequence starting at Step 1, making sure that each stage is completed before carrying on to the next and that all written instructions are adhered to, see diagram 4.7.

**STEP 1.** When fitting the front support make sure the feet are located at the back of the retaining lip and the support fits between the brackets.

**STEP 2.** Fit the side supports tightly into the front corners touching the side and front of the appliance.

**STEP 3.** Fit the rear support, making sure it sits on the bottom of the brackets, by pushing it down firmly.

**STEP 4.** Fit the middle support over the burner making sure it sits behind the brackets on the burner. Keep the support clear of the cross lighting ports.

**STEP 5.** Place the two large fuel effect pieces with the flat bases and round indents down. Leave gaps around the pieces.

**NOTE:** The remaining fuel effect pieces can be turned as requires to maintain a constant gap around each fuel effect piece.

**STEP 5 CONTINUED.** Place four small fuel effect pieces starting from the outside, leaving gaps around the pieces. The left hand outside piece must touch the side of the fire. The right hand outside piece must touch the left hand side of the burner support bracket.

**STEP 6.** Place seven small fuel effect pieces on the middle support starting from the outside, leaving gaps around the pieces. The two outside pieces touch the sides of the fire.

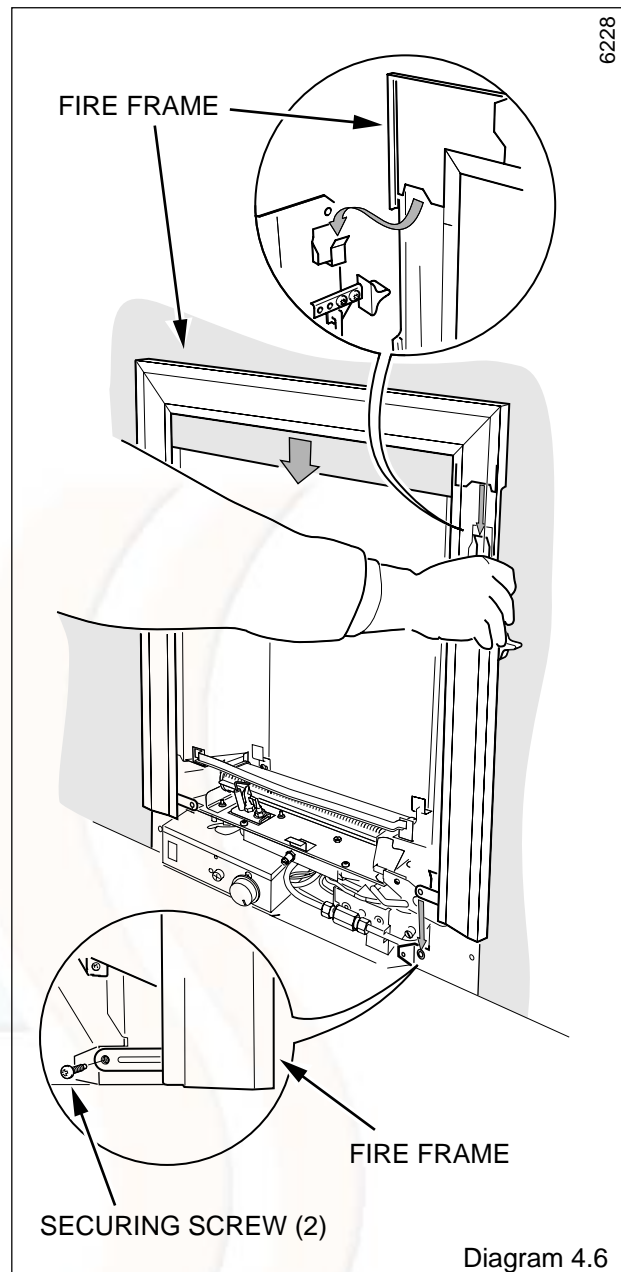


Diagram 4.6

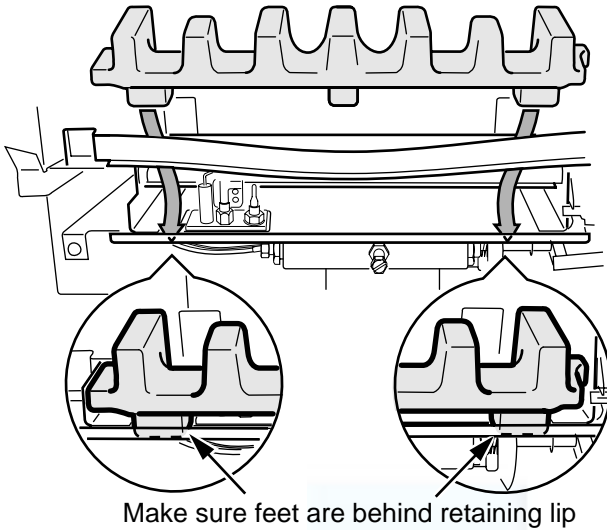
**STEP 7.** Place six small fuel effect pieces on the six flat areas of the rear support starting from the outside, leaving gaps around the pieces. The two outside pieces touch the sides of the fire.

**STEP 8.** Place five small fuel effect pieces on the top of the rear support starting from the outside overlapping slightly the previously fitted pieces and touching the rear of the fire. Leave gaps around the front and side of the pieces. The two outside pieces do not touch the sides of the fire.

When you have fitted all the small pieces you may have to adjust some slightly to maintain constant gaps.

4 Lighting, Testing and Fitting of Internal Parts

**STEP 1 - Front support**

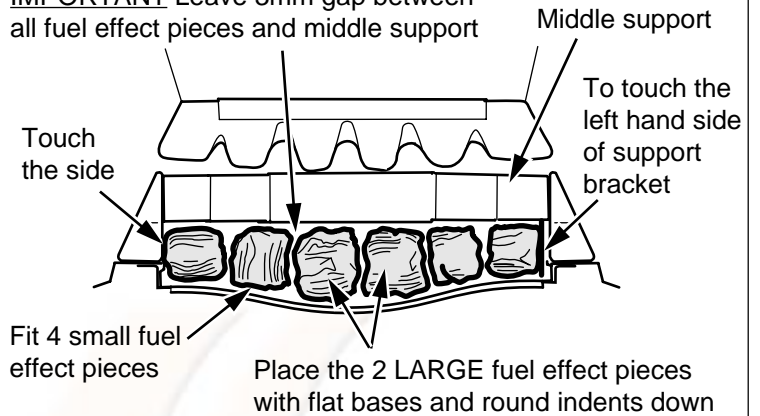


**NOTE :** The fuel effect pieces can be rotated to achieve a random effect.

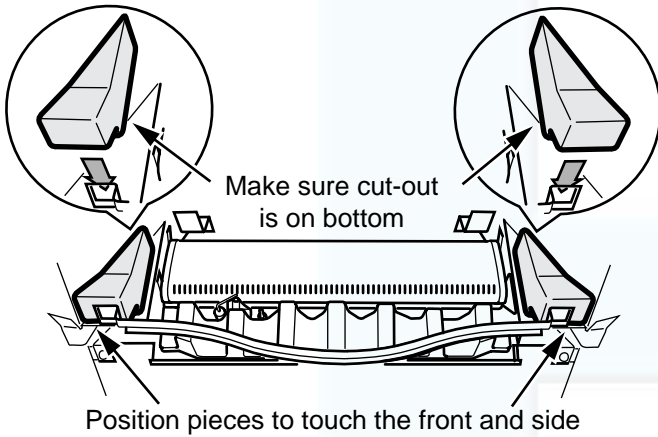
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**STEP 5 - 2 Large & 4 small fuel effect pieces**

**IMPORTANT** Leave 3mm gap between all fuel effect pieces and middle support

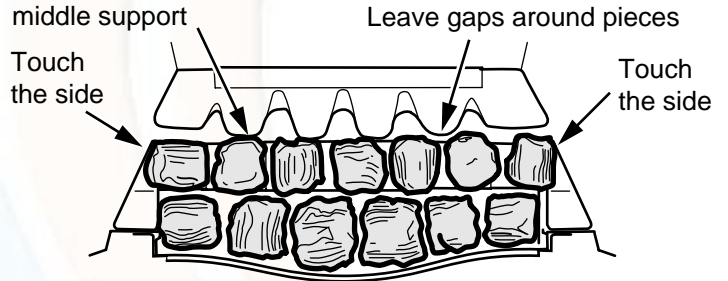


**STEP 2 - Side supports**



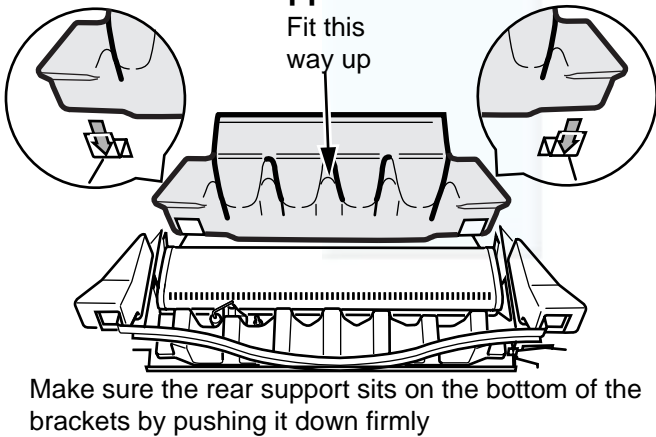
**STEP 6 - 7 Small fuel effect pieces**

Sit 7 fuel effect pieces on the middle support

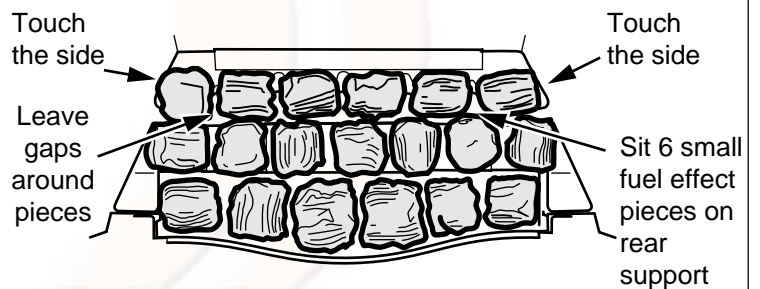


**IMPORTANT** This row of fuel effect pieces must not overlap the front row of fuel effect pieces. Position as shown on the front edge of the middle support

**STEP 3 - Rear support**

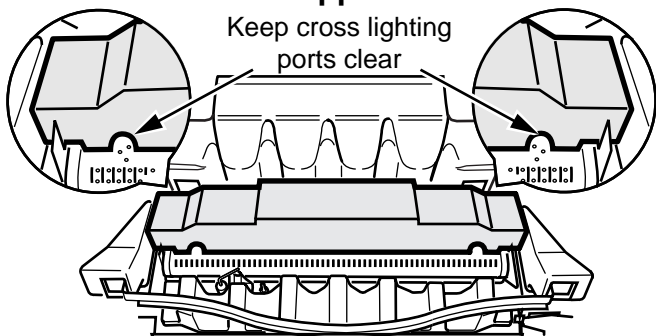


**STEP 7 - 6 Small fuel effect pieces**



**IMPORTANT** This row of fuel effect pieces must not overlap the middle row of fuel effect pieces.

**STEP 4 - Middle support**



**STEP 8 - 5 Small fuel effect pieces**

Fit 5 fuel effect pieces they must touch rear of fire

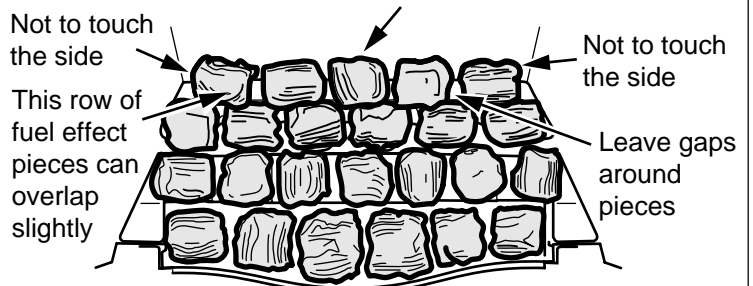


Diagram 5.5

## 4 Lighting, Testing and Fitting of Internal Parts

Note: Remove remote lighting instructions from the rear of the ashpit cover and replace with BBU lighting instructions from the loose items pack, see diagram 4.9.

Fit the fret and ashpit cover as shown in diagram 4.8.

Take care not to damage the frame.

Chatsworth (black only). The brass coloured badge on the appliance can be replaced with a silver coloured badge.

Telephone: The Sales Office on 01773-824141, quote Pt. No. 209310P.

### 4.4 Heat Settings

Refer to diagram 4.2.

In the unlikely event of the burner going out whilst the fire is on, return the slider to OFF. Wait three minutes before relighting.

If relighting for any other reason wait two minutes before doing so.

### 4.5 Testing for Clearance of Products

The fire must be fitted with all its parts.

- (a) **WARNING.** The fire front burner has an open flame.
- (b) **WARNING.** Take care. The appliance will get hot during testing.
- (c) For the test you will need a smoke match and an extension.
- (d) **IN ALL CASES,** if spillage continues after the specified test periods steps must be taken to rectify the fault(s).

Possible causes include, flue obstruction, down draught or restricted fresh air supply into the room.

If the problem cannot be put right the appliance must be disconnected and expert advice sought.

#### TEST: WHERE NO FAN IS PRESENT

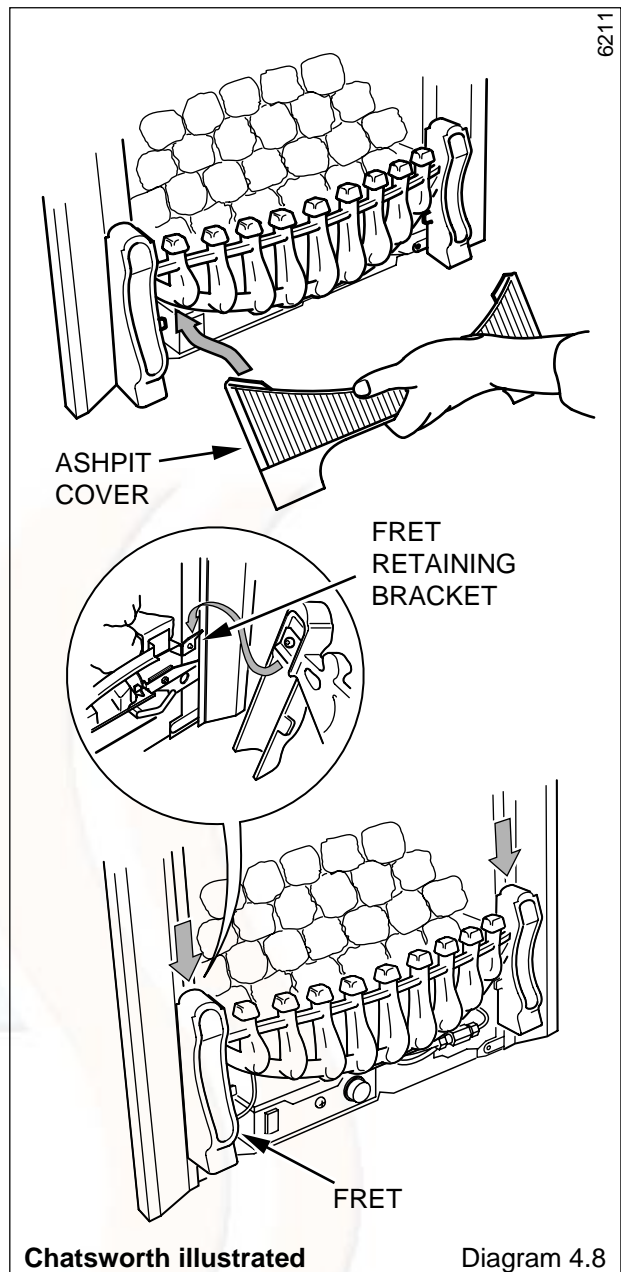
Close all outside doors, doors and windows in the room in which the appliance is fitted.

Light the fire front only and run on heat setting 3. After 5 minutes apply a spillage test as shown in diagram 4.10.

If spillage occurs, leave fire front alight for up to a further 10 minutes and repeat test. Turn the fire front off.

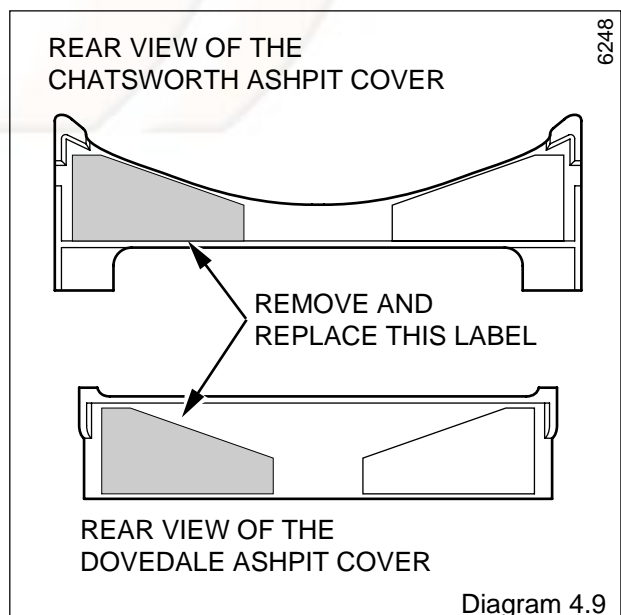
Next light the back boiler unit only. Run on maximum, after 10 minutes apply spillage test as shown diagram 4.10.

If spillage occurs, leave the boiler alight for up to a further 5 minutes and repeat tests.



Chatsworth illustrated

Diagram 4.8



REAR VIEW OF THE CHATSWORTH ASHPIT COVER

REMOVE AND REPLACE THIS LABEL

REAR VIEW OF THE DOVEDALE ASHPIT COVER

Diagram 4.9

## 4 Lighting, Testing and Fitting of Internal Parts

Leave the boiler alight.

Now light the fire front. Run on heat setting 3, after 10 minutes apply spillage tests as shown in diagram 4.10.

If spillage occurs leave the boiler and fire front alight for up to a further 5 minutes and repeat the tests.

### TEST: WHERE A FAN IS PRESENT

A fan means an extract fan or a fan for other open flued appliances or a circulating fan for a warm air unit, (whether or not gas fired). With the fan switched off carry out the appropriate spillage test with all doors and windows closed, as above.

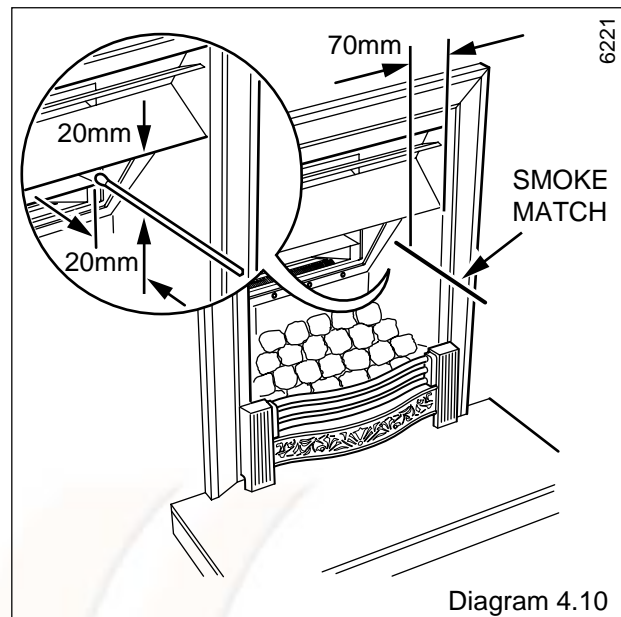
If the above spillage test is satisfactory proceed as follows:

Open all doors connecting the room containing the appliance and the room in which the fan is fitted. Close all other doors and windows in the premises.

If the fan is in the same room as the appliance, close all doors and windows in that room. Switch the fan on and repeat the spillage test as above.

In ALL cases, if spillage occurs the cause must be found and put right before the fire is left.

**IF THE FAULT CANNOT BE PUT RIGHT, THE FIRE MUST BE DISCONNECTED AND EXPERT ADVICE SOUGHT.**



## 5 Instructions to User

Hand the Instructions for Use to the user and make sure that they are understood.

Refer to the Instructions for Use on how to light the fire.

Advise the customer that they should read their Users instructions before operating the fire and always follow the advice in the Section headed "Cleaning your Fire".

Advise that any smell which may be apparent on initial lighting is quite normal and it will quickly disappear.

Important. Advise that soft wall coverings, for example, blown vinyl wallpaper, are easily affected by heat, they may, therefore, scorch or become discoloured when close to a heating appliance. This should be borne in mind when having a heating appliance installed and when redecorating.

Advise that to ensure the continued efficient and safe operation of the fire it is recommended that it is checked

and serviced at regular intervals. The frequency of servicing will depend upon the particular installation and usage, but in general once a year should be enough.

Advise that the chimney must be checked at least once a year and any debris found removed.

Draw attention, if applicable, to the current issue of the Gas Safety (Installation and Use) Regulations, 35, which imposes a duty of care on all persons who let out any property containing a gas appliance.

It is the Law that any servicing must be carried out by a competent person.

Reminder, leave these instructions with the user.

## 6 Servicing

### 6.1 Notes

To ensure the continued efficient and safe operation of the fire it is recommended that it is checked and serviced at regular intervals. The frequency of servicing will depend upon the particular installation and usage, but in general once a year should be enough.

It is the Law that any servicing is carried out by a competent person.

Refer to Section 1.

Before starting make sure that the gas supply is turned off at the Fire Front service cock.

Make sure that the fire is cold before doing any servicing.

After servicing of parts always test for gas soundness with a suitable leak detection fluid.

**WARNING.** Take care as the burner has a naked flame.

To test the gas control assembly apply leak detection fluid to all joints, light the burner and check all joint for leakage at all settings.

Carry out functional check of controls.

After removing or disconnecting any pipework always make sure that it is refitted correctly and does not interfere with the fitting of the fire.

Unless stated otherwise all parts are replaced in the reverse order to removal.

### 6.2 Fret and Ashpit Cover

Remove fret and ashpit cover, see diagram 4.8.

Take care not to damage the frame.

Turn the gas supply off at the fire front service cock, see diag 6.1.

### 6.3 Fuel Bed Supports and Fuel Effect Pieces

Following steps 1 to 8 in reverse order, remove the fuel effect pieces and fuel effect supports, see diagram 4.7.

Care should be taken as they become fragile with use.

Clean the fuel effect pieces and the fuel effect supports with a soft brush.

**IMPORTANT: A VACUUM CLEANER MUST NOT BE USED ON FUEL EFFECT PIECES OR FUEL EFFECT SUPPORTS.**

With the fuel effect pieces and fuel effect supports removed, the **base of the appliance may be cleaned with a vacuum cleaner.**

**NOTE:**

The importance of positioning the fuel effect pieces correctly cannot be overemphasised if sooting is to be avoided. The flame effect may also be impaired and the life of the fuel effect pieces reduced if assembly directions are not followed, see section 4.3.

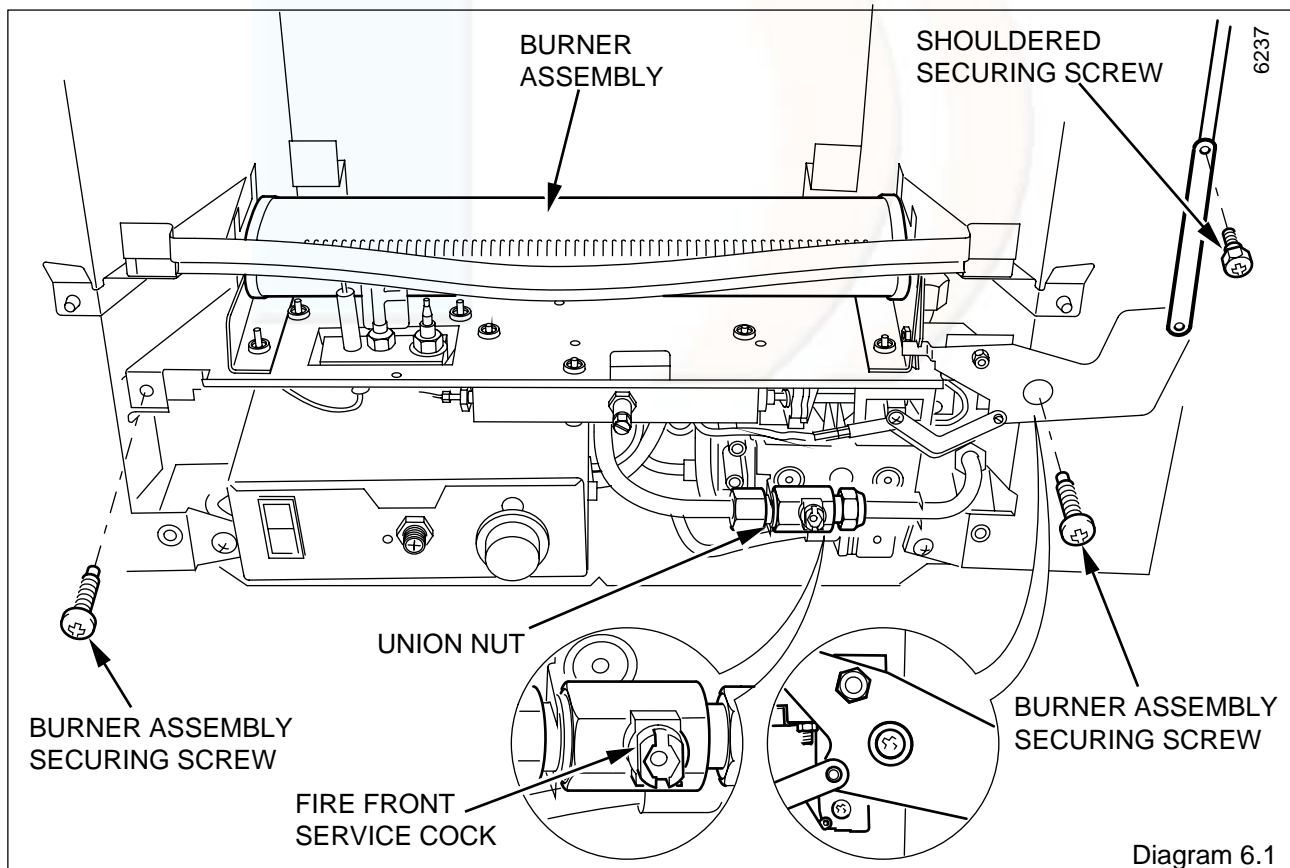


Diagram 6.1

## 6 Servicing

### 6.4 Burner and Injector

The burner can be cleaned, using a suitable soft brush or vacuum cleaner.

Do not use a brush with wire bristles.

Disconnect the gas supply at the fire front gas service cock.

Remove the frame and fire front from the wall, refer to relevant parts of Sections 4.3, 4.2, 3.2 and 3.1.

With the fire front removed lay it on its back. Remove the three wires from the spark generator, see diagram 8.1.

Remove the shouldered securing screw, the burner securing screws pull out the burner assembly, see diagram 6.1.

Disconnect the gas supply pipe union nut from the injector and slacken the connection at the gas control valve, pull the pipe off the injector, see diagram 6.2.

Remove the injector.

Do not clean the hole with a wire or sharp instrument.

### 6.5 Combustion Products Discharge Safety Device

Refer to Section 1.1.

When cleaning make sure that all the holes in the safety device are clear of dust and lint.

If damaged replace the safety device as Section 8.10.

### 6.6 Electrode

Ensure that the electrode is in line with the earth post and that the spark gap is as shown in diagram 6.3.

If damaged replace the safety device as Section 8.10.

### 6.7 Thermocouple

Inspect the thermocouple for wear and damage, clean with a soft brush, see diagram 6.3.

If damaged replace the safety device as Section 8.10.

When replacing the burner assembly, refer to diagram 6.4 (Locating burner support tabs).

### 6.8 Ignition Lead

Inspect the ignition lead for wear and damage, replace if necessary.

NOTE: When replacing the burner refer to diagram 6.4 (Locating the burner support tabs).

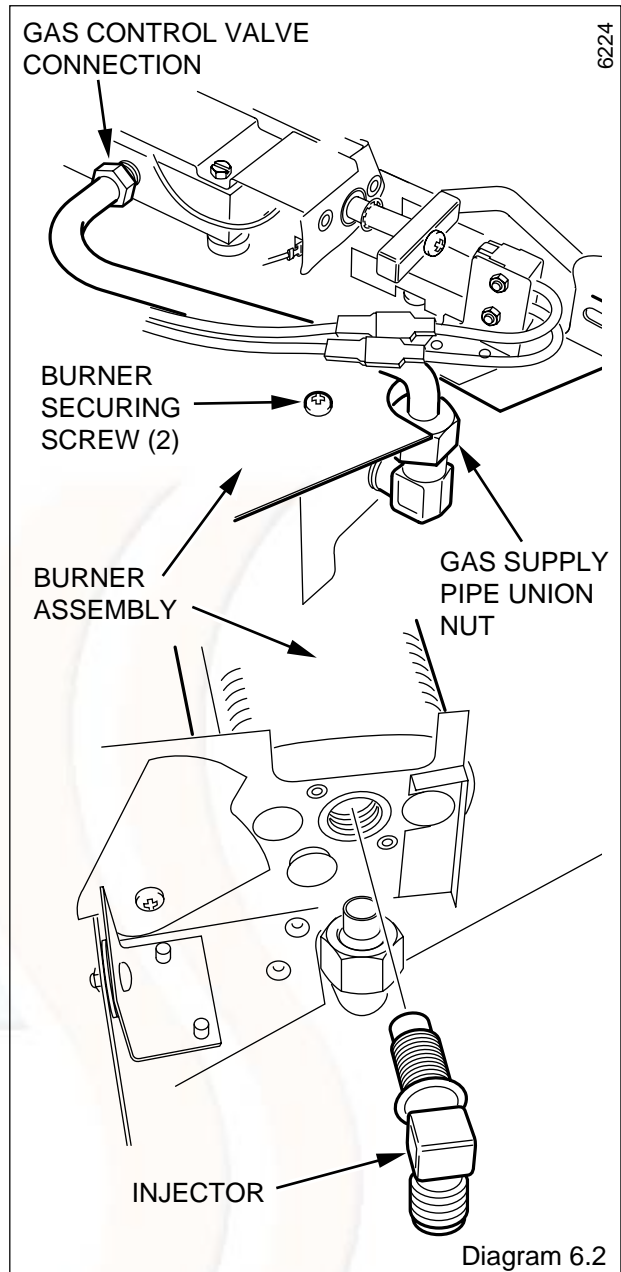


Diagram 6.2

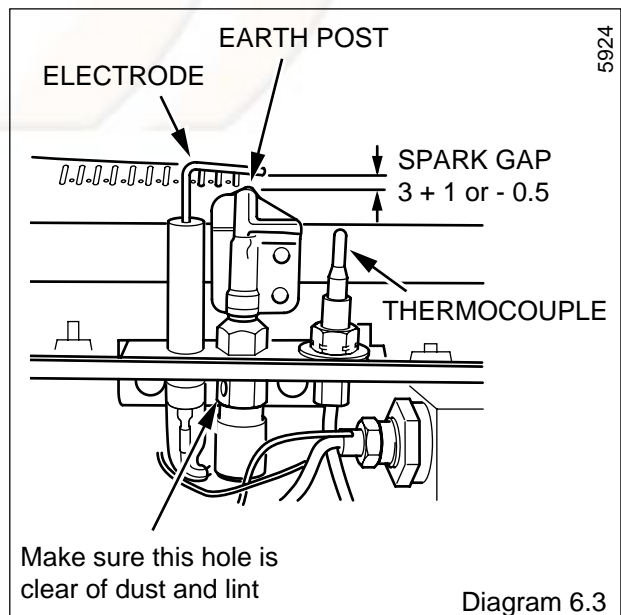
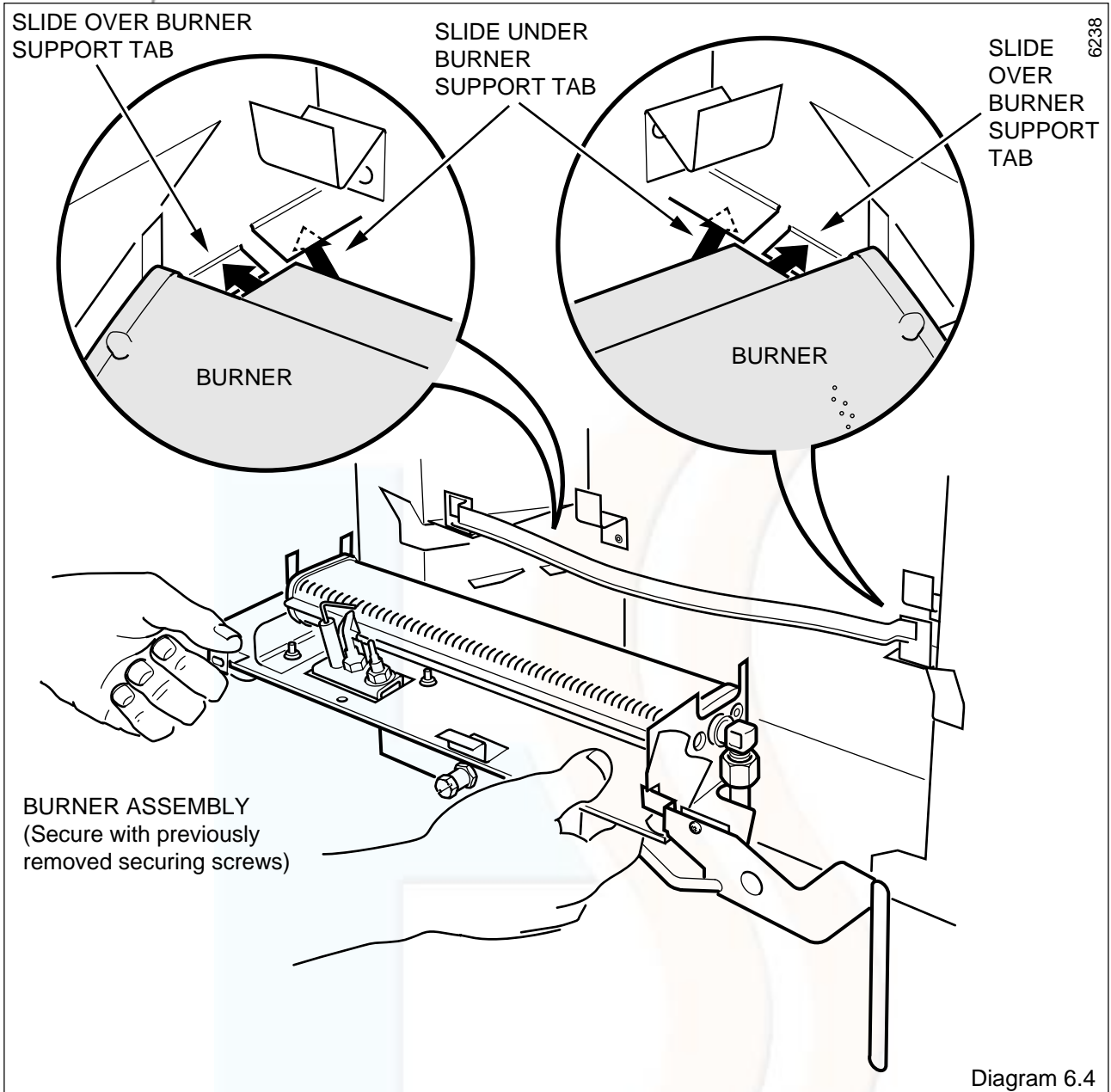


Diagram 6.3



## 6 Servicing



## 7 Fault Finding

### 7.1 Fire Ignition

Refer to Fire Ignition Sequence of Operations, see diagram 7.1.

### 7.2 Safety Device

If the fire shuts down for no apparent reason the flue/chimney and the air inlets into the room must be checked. Any problems found must be put right, before the fire is used again.

Also, check for dust and lint around the holes in the safety device.

IN ALL cases the room must be ventilated before attempting to relight the fire.

The safety device must not be bypassed or put out of action.

## 7 Fault Finding

6015

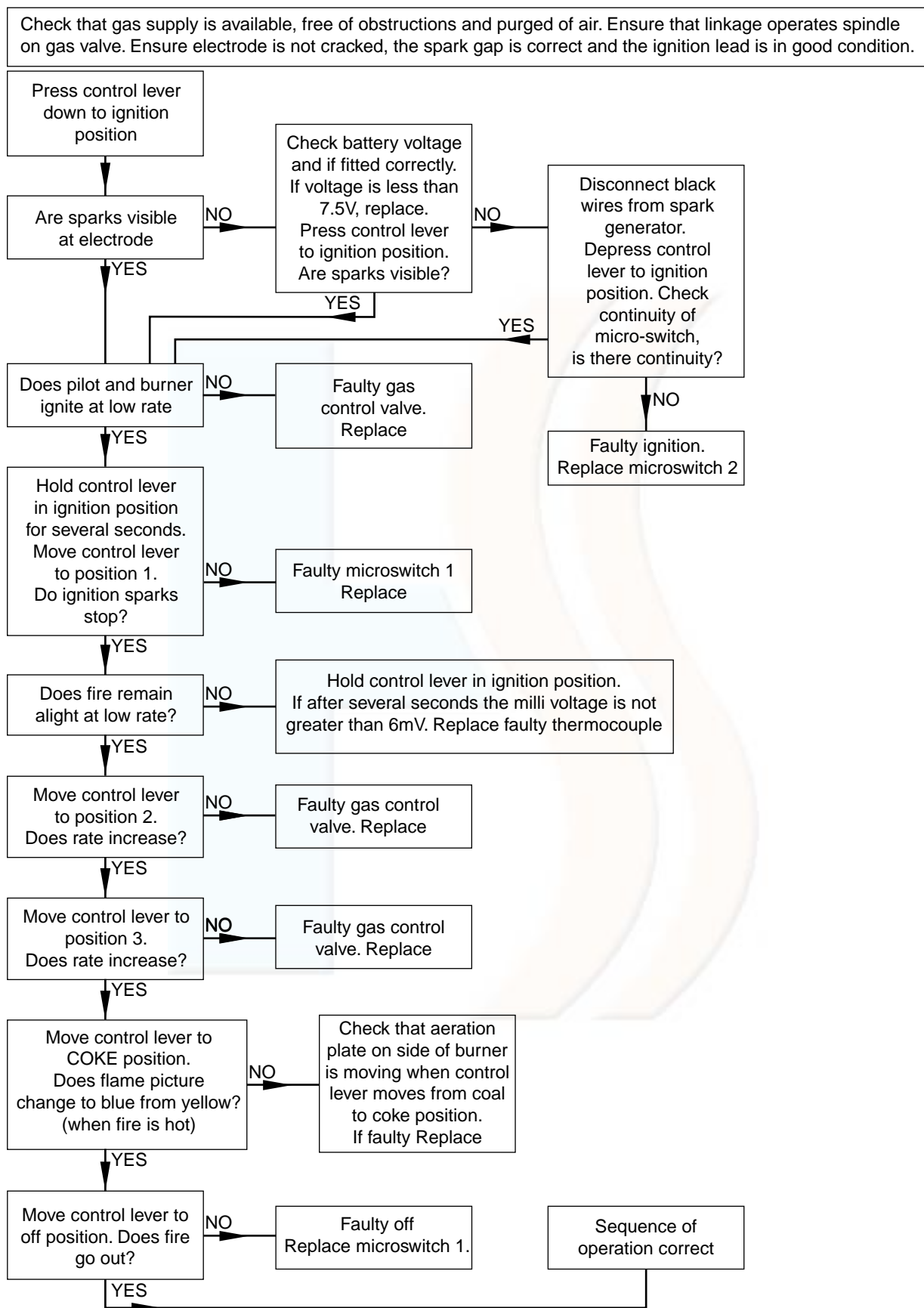


Diagram 7.1

## 8 Replacement of Parts

For the replacement of parts it is advisable in most cases to remove the fire front from the back boiler unit. Refer to relevant parts of Sections 4.3, 4.2, 3.2 and 3.1 for removal.

Notes:

Refer to Section 1.

Make sure that the fire front is cold before replacing any parts.

Replacement of parts must be done by a competent person.

Isolate the gas supply to the fire front.

After replacing or disconnecting any gas carrying part, always test for gas soundness, using a suitable leak detection fluid and carry out functional check of controls.

To test the gas control assembly apply leak detection fluid to all joints, light the burner and check all the joints for leakage at all tap settings.

After removing or disconnecting any pipework always make sure that it is refitted correctly and does not interfere with the fitting of the fire front.

Unless stated otherwise reassembly of all parts is in the reverse order to removal.

### 8.1 Fret and Ashpit Cover

Remove the fret and ashpit cover, see diagram 4.8.

Take care not to damage the frame.

Turn the gas supply off at the fire front gas service cock, see diagram 6.1.

### 8.2 Fuel effect pieces and fuel bed supports

Refer to Section 4.3 and follow steps 8 to 1 to remove the fuel effect pieces and fuel bed supports, see diagram 4.7.

### 8.3 Frame

To remove refer to diagram 4.6.

### 8.4 Burner Assembly

Remove the fire front from the back boiler unit.

Follow the instructions in Section 6.4 to remove the burner assembly.

To remove the burner disconnect the injector in Section 6.4, then remove the burner securing screws, this will release the burner.

### 8.5 Injector

Follow the relevant instructions in Section 6.4 to remove the injector.

### 8.6 Spark Generator

Remove the fire front from the back boiler unit.

Carefully lay the fire front on its back.

Disconnect the ignition lead and black cables, remove the securing screws, see diagram 8.1.

When reconnecting, the polarity of the connection from the generator to the microswitch is not important.

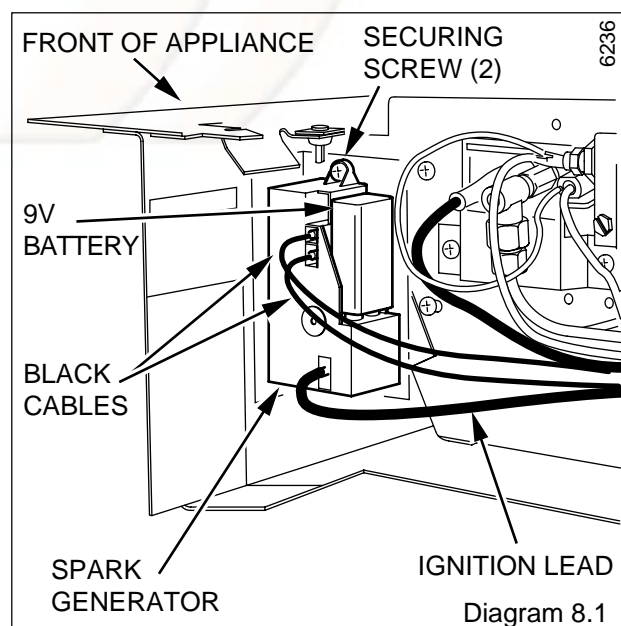
### 8.7 Battery

Remove the fret see diagram 4.7.

Take care not to damage the frame.

The battery is 9V and we recommend that it is of the alkaline type, bought locally.

When fitting make sure that it is connected as shown in diagram 4.3.



## 8 Replacement of Parts

### 8.8 Microswitch 1 and 2

Remove the fire front from the back boiler unit.

Follow instructions in Section 6.4 to remove the burner assembly.

To remove Microswitch 1, see diagram 8.2.

Remove the securing screws, nuts and electrical leads.

To remove Microswitch 2, see diagrams 8.1 and 8.2.

Remove the spark generator, diagram 8.1.

Remove the gas tap fitting block, diagram 8.2.

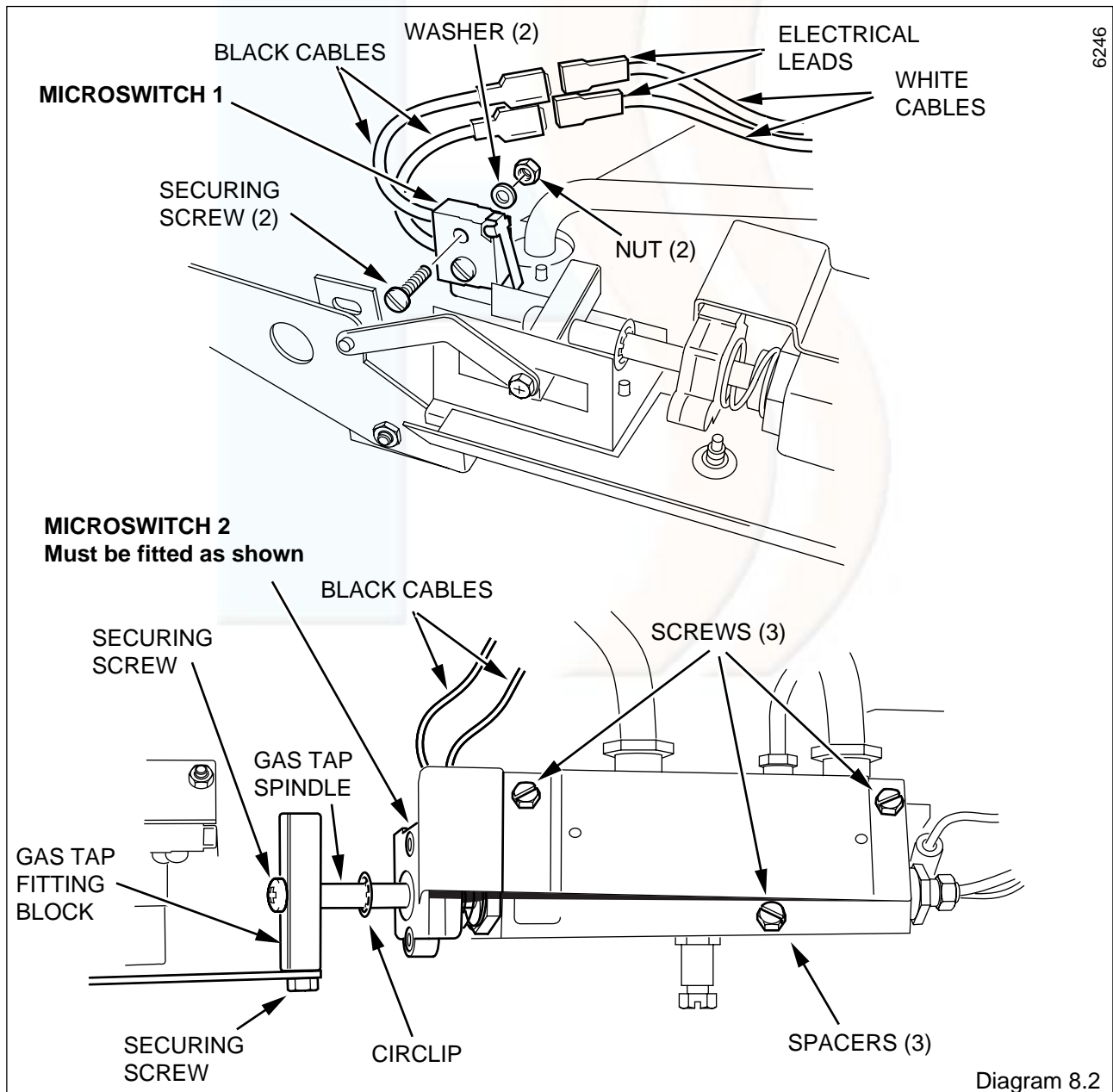
Remove the three securing screws to release the gas control valve, diagram 8.2.

Remove the circlip, diagram 8.2.

Disconnect the black cables from the microswitch, diagram 8.2.

Remove the microswitch, diagram 8.2.

When re-assembling make sure to refit the spacers between the gas control and burner assembly.



## 8 Replacement of Parts

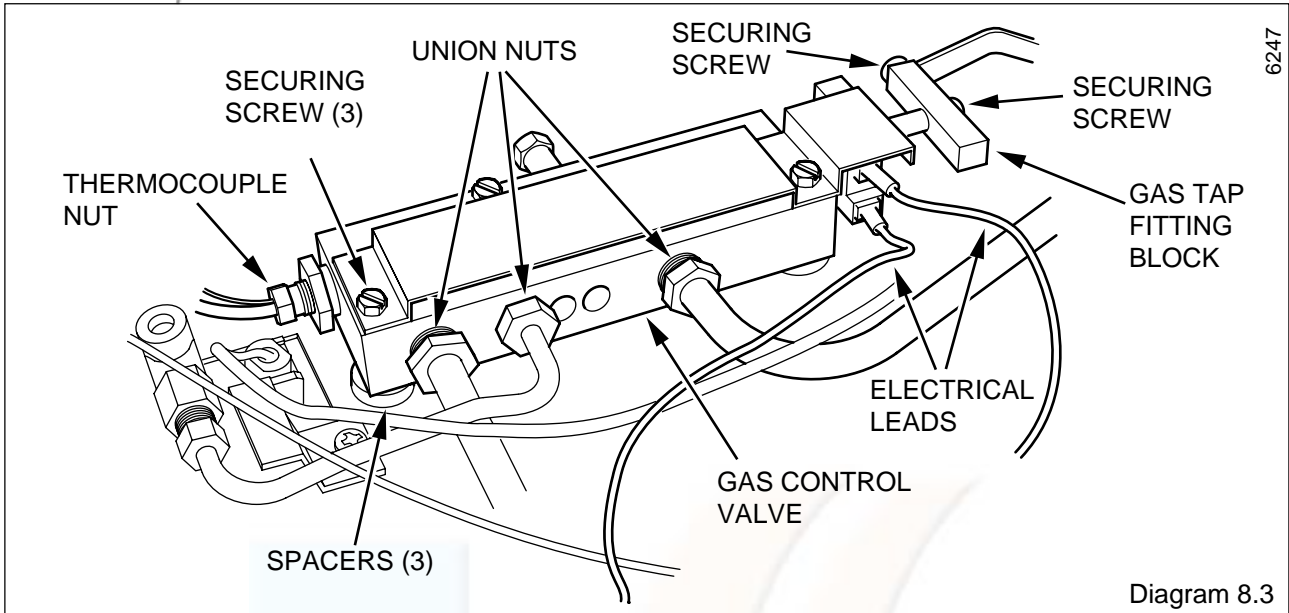


Diagram 8.3

### 8.9 Gas Control Valve

Remove the fire front from the back boiler unit.

Follow instructions in Section 6.4 to remove the burner assembly

Remove the gas control valve, disconnecting the union nuts, thermocouple nut, gas tap fitting block, electrical leads and gas control valve securing screws, this will release the gas control valve, see diagram 8.3.

Remove the microswitch 2, see relevant parts of Section 8.8.

When re-assembling make sure to refit the spacers between the gas control valve and burner assembly.

### 8.10 Safety Device

Refer to Section 1.

Remove the fire front from the back boiler unit.

Follow instructions in Section 6.4 to remove the burner assembly

Refer to diagram 8.4, disconnect:

- the ignition lead
- the pilot pipe union at the safety device
- the thermocouple nut at the gas control valve
- the electrical connections
- the safety device bracket
- the safety device

### 8.11 Ignition Lead

Follow relevant parts of section 8.6.

Disconnect the ignition lead at the electrode and spark generator, refer to diagrams 8.1 and 8.4.

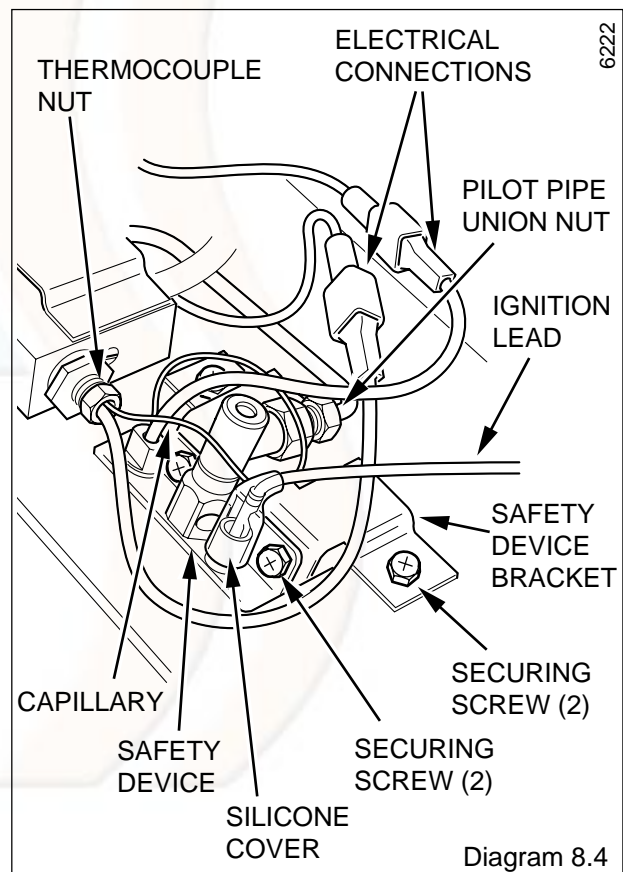


Diagram 8.4

## 9 Spare Parts

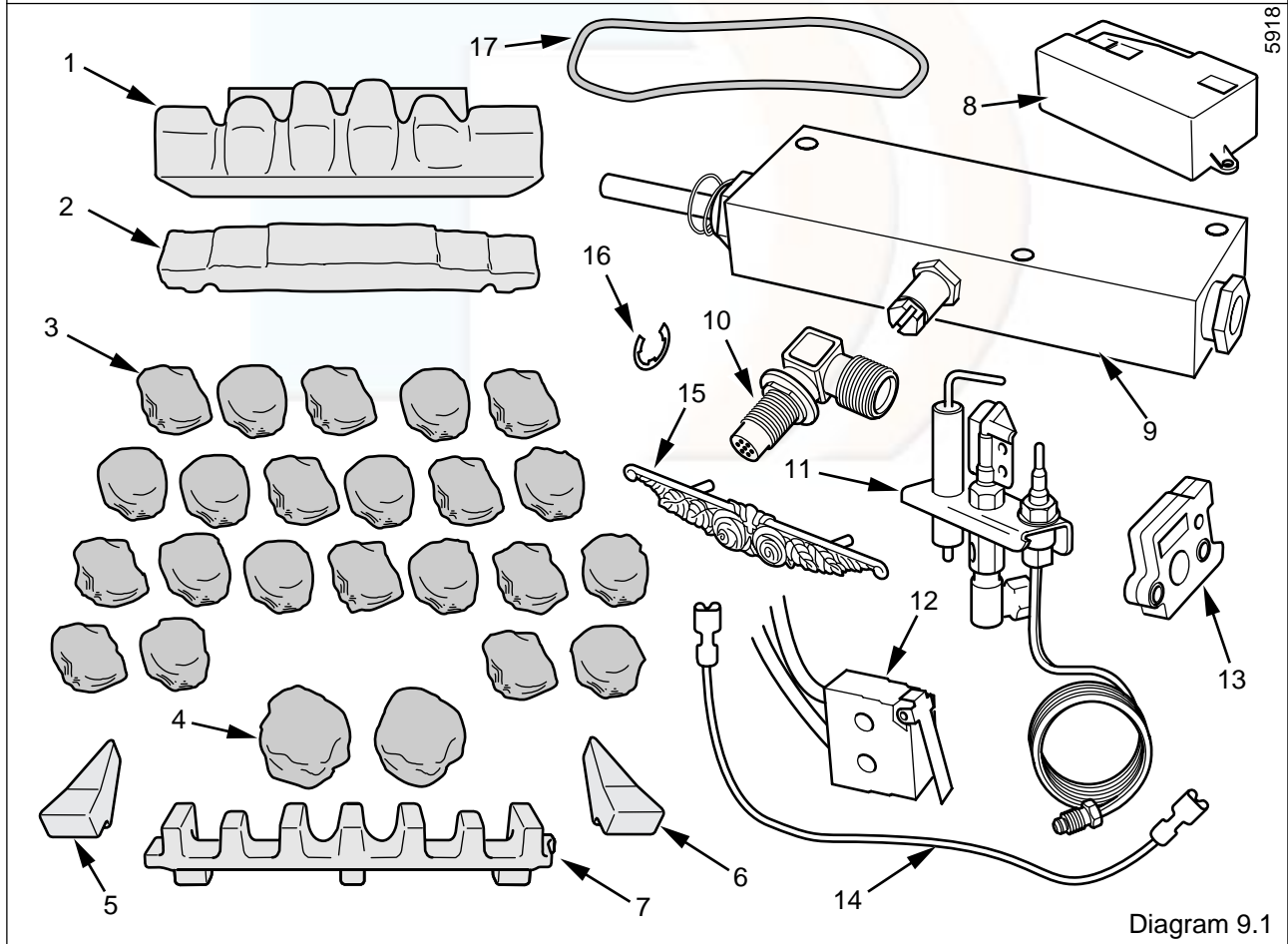
When spare parts are required use only genuine Glow-worm parts and buy them from a recognised supplier.

Use only the fuel effect approved for this fire front.

Do not use more fuel effect pieces than shown.

Please quote the name of the fire front "Dovedale" or "Chatsworth".

Key No	Part No	Description
1	210269	Rear support
2	210268	Middle support
3	210272	Fuel effect pieces (small)
4	210273	Fuel effect pieces (large)
5	210270	Side support L/H
6	210271	Side support R/H
7	210267	Front support
8	202179	Spark Generator
9	230502	Gas control valve assy
10	205739	Injector - Bray Cat 82-500
11	203443	Combustion products discharge safety device - SIT Ref: 9409
12	202275	Microswitch 1
13	800886	Microswitch 2
14	WX5500	Ignition lead
15	209310P	Silver Badge (Black Chatsworth)
15	209311P	Brass Badge (Black Chatsworth)
16	800895	Gas tap spindle Circlip
17	212308	Fire Front Flue Seal



## Control of Substances Hazardous to Health

### **Information for the Installer and Service Engineer.**

Under Section 6 of The Health and Safety at Work Act 1974, we are required to provide information on substances hazardous to health.

The adhesives and sealants used in this appliance are cured and give no known hazard in this state.

### **FUELBEDS, ARTIFICIAL FUEL**

This product uses fuel effect Pieces containing Refractory Ceramic Fibre (RCF), 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 RCF articles is kept to a minimum, during installation and 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 heavy duty polythene bags, 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 articles, but we recommend you follow the normal hygiene rules of not smoking, eating or drinking in the work area and always wash your hands before eating or drinking.

### **INSULATION PADS/CERAMIC FIBRE, GLASSYARN, MINERAL WOOL**

These can cause irritation to skin, eyes and the respiratory tract.

If you have a history of skin complaint you may be susceptible to irritation. High dust levels are usual only if the material is broken.

Normal handling should not cause discomfort, but follow normal good hygiene and wash your hands before eating, drinking or going to the lavatory.

If you do suffer irritation to the eyes or severe irritation to the skin seek medical attention.

### **THERMOSTATS**

These contain very small amounts of trichlorofluoromethane in the sealed phial and capillary.

If broken, under normal circumstances the fluid does not cause a problem, but it can, in exceptional cases cause freeze burns.

If there is skin burn or irritation to the eyes or skin seek medical attention.

### **THERMOSTATS**

These contain very small amounts of xylene in the sealed phial and capillary. If broken, under normal circumstances the fluid does not cause a problem, but in cases of skin contact, wash with cold water.

If swallowed drink plenty of water and seek medical attention.

### **CUT-OFF DEVICES**

These contain a very small amount of ethylene glycol and methanol in the capillary.

If broken, under normal circumstances the fluid does not cause a problem, but in cases of skin or eye contact, wash with cold water.

If swallowed drink plenty of water and seek medical attention.



*Because of our constant endeavour for improvement details may vary slightly from those in the instructions.*