

## **WARNING**

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# THE REMBRANDT

## Installation and Servicing Instructions for the Coalbrookdale Gas Rembrandt 16" & 18"

### Consumer Protection Act 1987

As manufacturers and suppliers of cooking and heating products, in compliance with Section 10 of the Consumer Protection Act 1987, we take every care to ensure, as far as is reasonably practicable, that these products are so designed and constructed as to meet the general safety requirement when properly used and installed.

To this end, our products are thoroughly tested and examined before despatch.

### Control of Substances – Health & Safety

**IMPORTANT:** This appliance contains some of the materials that are indicated below. It is the Users/ Installers responsibility to ensure that the necessary personal protective clothing is worn when handling, where applicable, the pertinent parts that contain any of the listed materials that could be interpreted as being injurious to health and safety, see below for information.

### FIREBRICKS, FUELBEDS, ARTIFICIAL FUEL:

When handling use disposable gloves.

**FIRE CEMENT:** When handling use disposable gloves.

**GLUES AND SEALANTS:** Exercise caution – if these are still in liquid form use face mask and disposable gloves.

### GLASS YARN, MINERAL WOOL, INSULATION PADS, CERAMIC FIBRE, KEROSENE OIL:

May be harmful if inhaled, may be irritating to skin, eyes, nose and throat.

When handling avoid inhaling and contact with skin or eyes.

Use disposable gloves, face masks and eye protection.

After handling wash hands and other exposed parts.

When disposing of the product reduce dust with water spray, ensure that parts are securely wrapped.

## Introduction

The Coalbrookdale Gas Rembrandt fire is designed to fit within a standard Building Openings with top flue outlet and freestanding with rear.

## Statutory Requirements

The installation of the fire **MUST** be carried out by a competent person in accordance with the relevant requirements of the current issue of The Gas and Safety (Installation and Use) Regulations, Building Regulations Building Standards (Scotland) Regulations.

It should be in accordance also with any relevant

recommendations of the local gas region and Local Authority, and the detailed recommendations of the following current issue of British Codes of Practice:

**CP331** Part 3 Low Pressure Installation Pipes Natural Gas.

**BS5482** Part 1 Installations in Permanent Dwellings LPG.

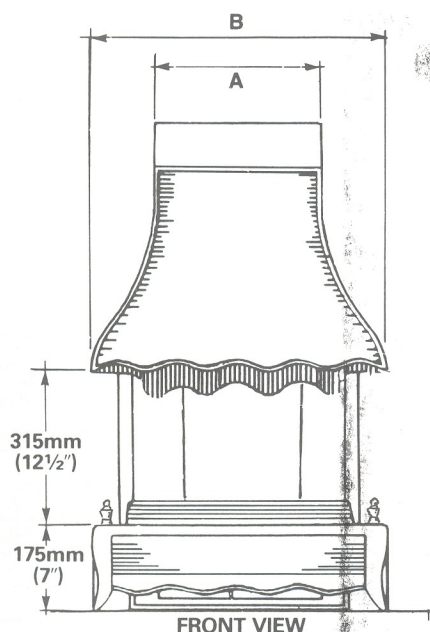
**BS6461** Part 1 Masonry Chimneys and Flue Pipes.

**BS5440** Part 2 Air Supply.

**BS6714** Installation of Decorative Log and other Fuel Effect Appliances NG and LPG.

### Certification

These appliances are tested to the current issue BS5258 Part 12.



| FIRE WIDTH | A                                        | B                                        |
|------------|------------------------------------------|------------------------------------------|
| 16"        | 290mm (11 <sup>3</sup> / <sub>8</sub> ") | 570mm (22 <sup>3</sup> / <sub>8</sub> ") |
| 18"        | 340mm (13 <sup>3</sup> / <sub>8</sub> ") | 620mm (24 <sup>3</sup> / <sub>8</sub> ") |

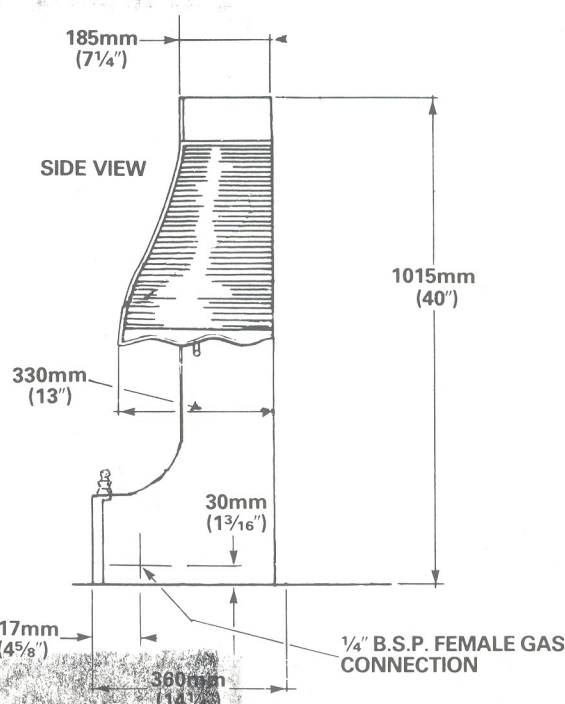


Fig.1

## Installation

### Installation Requirements

#### Builder's Recess Opening

The appliance and recess, hearth and chimney flue installation should be in accordance with the relevant recommendations of the British Codes of Practice BS8303:1986 and BS6461:1984 Parts 1 and 2 and any relevant requirements of the Local Authority.

The appliance must only be installed in a non-combustible recess in which the hearth must be level and together with the adjacent walls, conform to the current Building Regulations. See Fig. 2.

#### Air Supply

Detailed recommendations for air supply are given in BS5440 Part 2. A permanent unobstructed, air vent is required having a minimum effective area of:

16" fire – 100cm<sup>2</sup> (16in<sup>2</sup>)

18" fire – 122cm<sup>2</sup> (19in<sup>2</sup>)

communicating directly to outside air or an adjacent room which itself has a permanent air vent direct to outside air.

#### Effect of an Extractor Fan

Avoid if possible, the installation of an extractor fan in the same room as the appliance or the room where the permanent vent is located. Compensating extra air inlets must be introduced equivalent to the capacity of the fan when fitted.

#### Gas Supply – Natural Gas

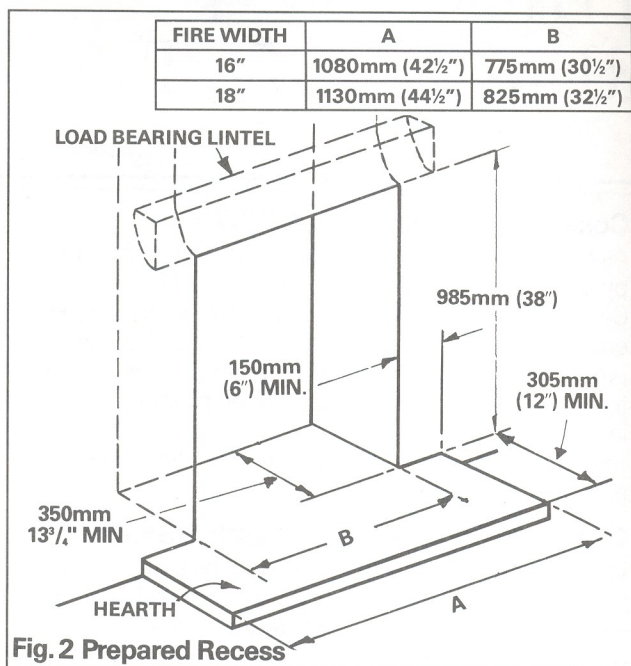
Installation pipes should be fitted in accordance with CP331.3. Pipework from the meter to the appliance **MUST** be of adequate size. **DO NOT** use pipes of a smaller size than the appliance gas connection.

The gas connection on the fire is to suit 8mm OD tubing. The maximum length of 8mm OD tubing is 1350mm (4½ft).

#### Gas Supply – LPG

Installation pipes should be fitted in accordance with BS5482:Part 1. The gas supply should be of steel or copper and should terminate near the fireplace, with an isolation cock fitted.

The gas connection on the fire is to suit 8mm OD tubing. The maximum length of 8mm OD tubing is 13.7m (45ft).



#### Flue Requirements

The appliance is designed to use a solid fuel appliance flue system having a diameter not less than 175mm.

Any purpose designed throat plate in the flue system, must have a free cross-sectional area of at least 240cm<sup>2</sup>, and free opening of 100mm minimum, otherwise it must be removed or permanently fixed in the fully open position.

The minimum flue height is 3m from floor level and open at the terminal.

Ensure that the chimney is swept before installation of the fire.

Check that the chimney serves only one fireplace, and that the flue and fireplace are properly sealed.

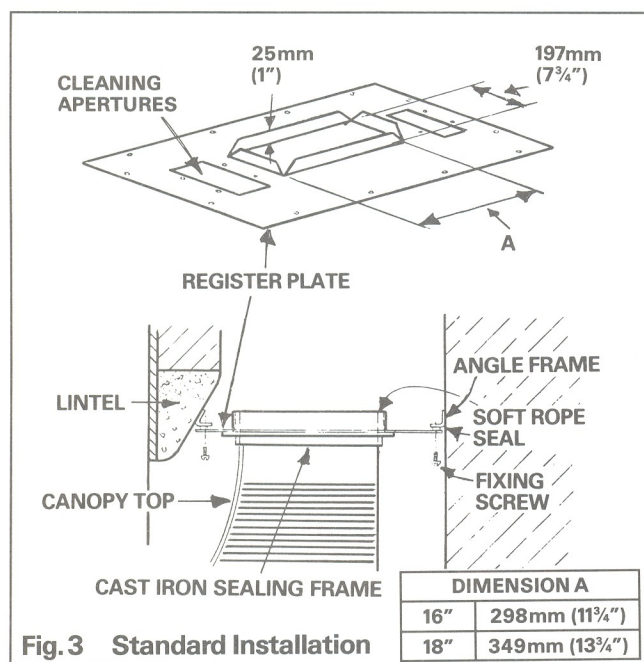
| Technical Specification             | 16" Model            | 18" Model            |
|-------------------------------------|----------------------|----------------------|
| Weight                              | 94Kg (207lb)         | 102Kg (225lb)        |
| High Gas Rate – NG                  | 7.5kW (25,000Btu/h)  | 8.8kW (30,000Btu/h)  |
| Low Gas Rate – NG                   | 3.8kW (13,000Btu/h)  | 4.7kW (16,000Btu/h)  |
| High Gas Rate – LPG                 | 7.5kW (25,000Btu/h)  | 8.8kW (30,000Btu/h)  |
| Low Gas Rate – LPG                  | 3.8kW (13,000Btu/h)  | 4.7kW (16,000Btu/h)  |
| Main Gas Burner                     | 16" Broseley         | 18" Broseley         |
| Main Gas Burner Injector – NG       | 470 CAT 28           | 580 CAT 28           |
| Main Gas Burner Injector – LPG      | 240 CAT 28           | 300 CAT 28           |
| Pilot Injector – NG                 | SIT 0.35             | SIT 0.35             |
| Pilot Injector – LPG                | SIT 0.2              | SIT 0.2              |
| Ignition                            | Manual by hand       | Manual by hand       |
| Gas Control                         | SIT                  | SIT                  |
| Gas Pressure Test Point             | On Gas Control       | On Gas Control       |
| High Gas Rate Burner Pressure – NG  | 19.0mbar (7.6in wg)  | 18.8mbar (7.5in wg)  |
| High Gas Rate Burner Pressure – LPG | 36.0mbar (14.4in wg) | 36.0mbar (14.4in wg) |

**Standard Installation – Fig. 3**

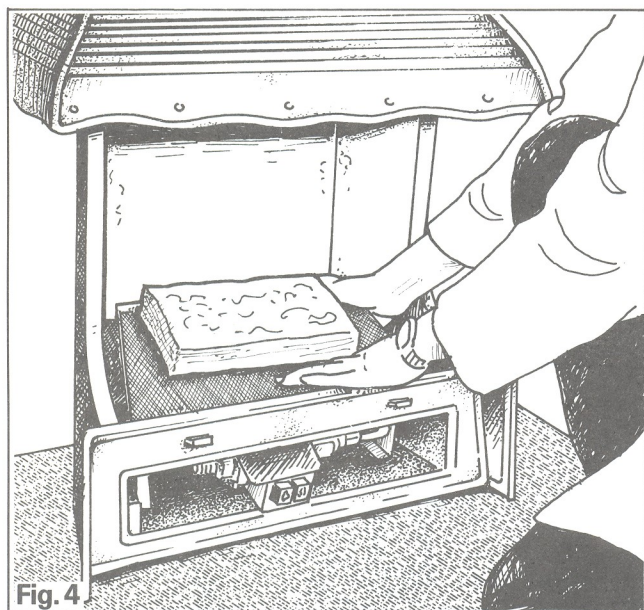
The top of the recess must be sealed, preferably by a sheet metal register plate with a completed rectangular flanged clearance slot 298mm (11 $\frac{3}{4}$ in) wide x 197mm (7 $\frac{3}{4}$ in) deep for the 16" Rembrandt and 349mm (13 $\frac{3}{4}$ in) wide x 197mm (7 $\frac{3}{4}$ in) deep for the 18" Rembrandt. Cut the slot about 50mm (2in) smaller than the completed size and snip the corners to mitre followed by a plunged 25mm (1in) upward bend.

The register plate should incorporate an airtight access door/opening for the removal of any soot which may accumulate on top of the register plate. Avoid large pockets and voids between the register plate and flue by suitable filling where possible. It is essential that no air is allowed to reach the chimney flue except through the canopy throat.

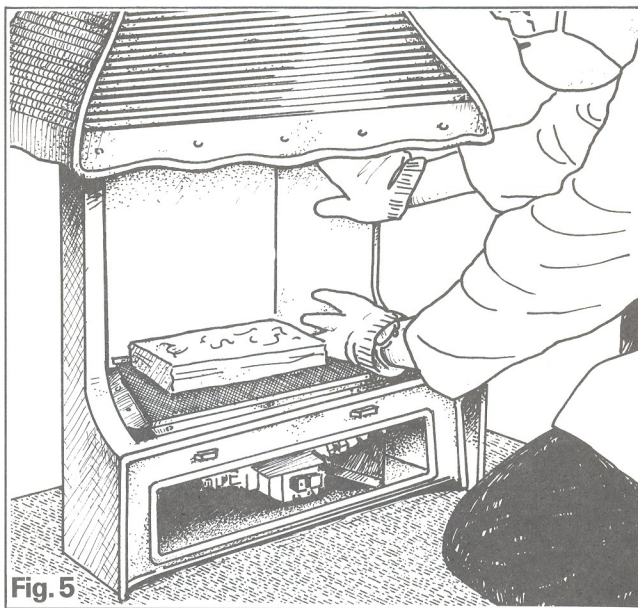
A conventional method of securing and sealing the register plate is to secure an angle frame all round the walls of the recess and attach the register plate to the frame with fixing screws ensuring the joint is sealed with soft rope and fire cement.

**Fig. 3 Standard Installation****Installing the Burner Arrangement**

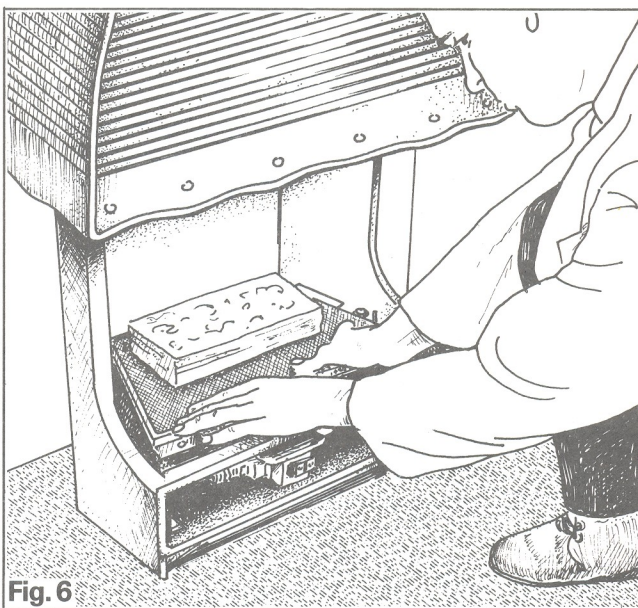
1. Insert the burner assembly into the fire. Fig. 4.

**Fig. 4**

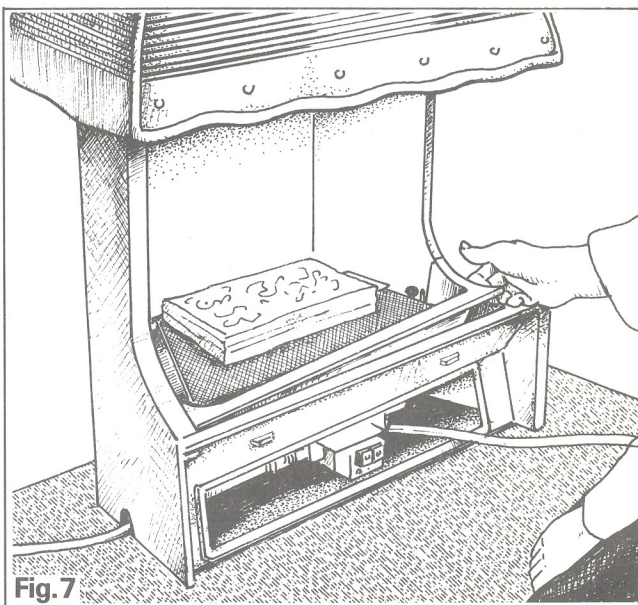
2. Insert the rear insulation panel then the left hand and right hand panels. Fig. 5.

**Fig. 5**

3. Ensure the burner assembly is firmly against the rear insulation panel. Fig. 6.

**Fig. 6**

4. Insert the front fire spacer. Fig. 7.

**Fig. 7**

## Installation

5. Fit decorative front panel. Fig. 8.

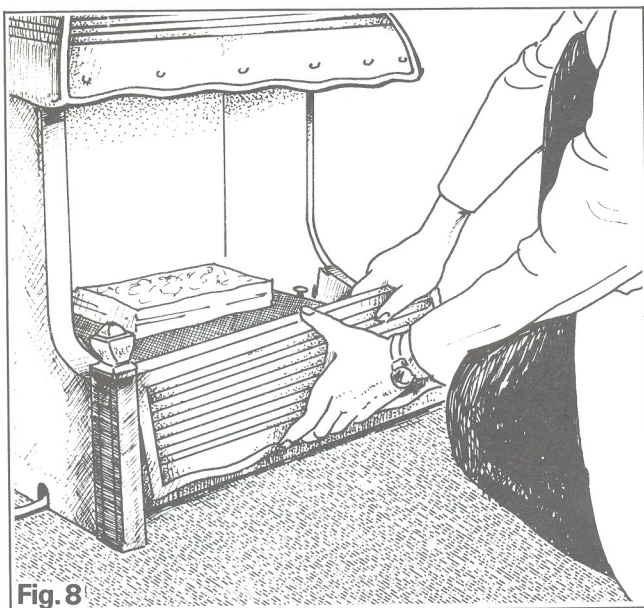


Fig. 8

6. Check for clearance of products of combustion.  
Ensure that all doors and windows of the room are closed.  
Light the fire previously described.  
Leave a maximum rate (High Rate) for 10 minutes.  
Insert a smoke match as illustrated ensuring that the smoke is being drawn into the appliance and hence the flue. If in doubt repeat after 10 minutes.  
If there is a fan in a nearby room then the spillage test **MUST** be repeated with the fan turned on and any interconnecting doors between the fire and the fan location left open. Fig. 9.

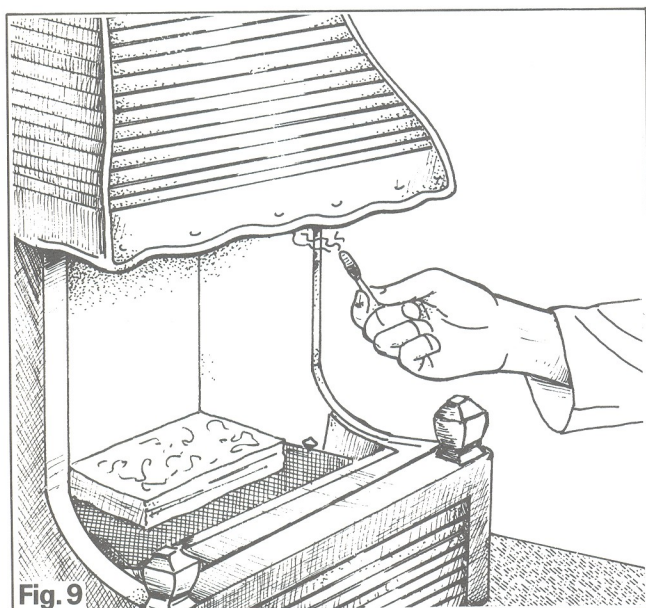


Fig. 9

7. Connect to gas supply. When making the gas connection ensure that when filled it does not interfere with the removal or replacement of the gas control. Fig. 10.  
Check for gas soundness.

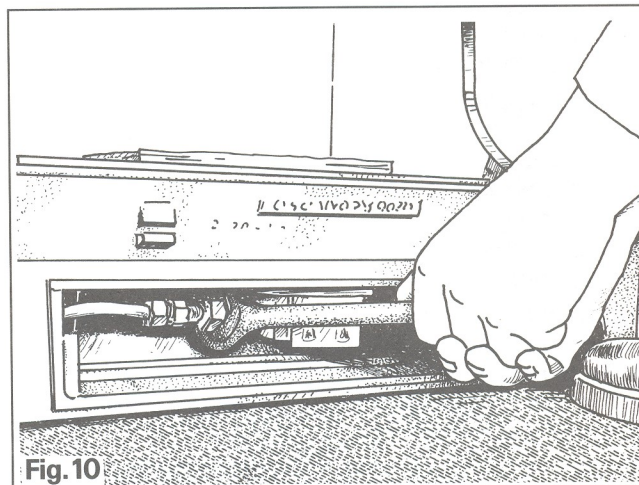
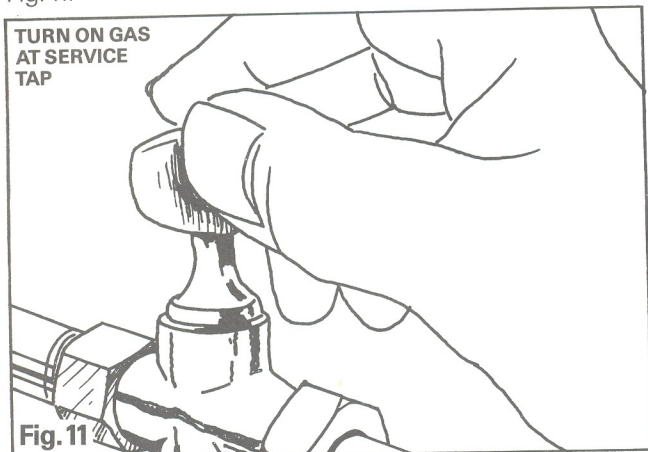


Fig. 10

## Commissioning

Remove the pressure test point sealing screw and connect a suitable pressure gauge. Ensure the gas control is **OFF** – both push-buttons fully extended. Turn on the gas at mains and service cock (if fitted). Fig. 11.



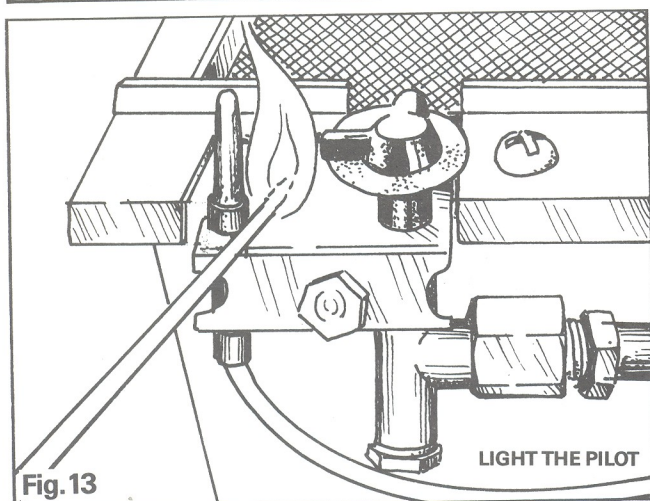
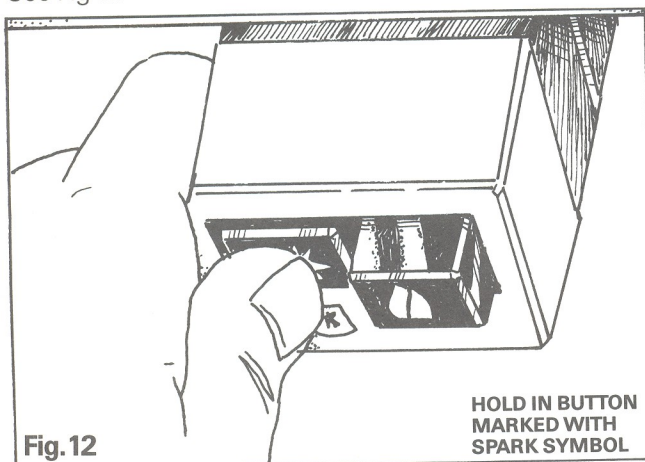
### To Light the Pilot

Press the push-button marked with a spark symbol  firmly in (Fig. 12), while keeping the button held firmly in, light the pilot (Fig. 13), and wait a few seconds. Release the push-button (it will stay half way down and the spark symbol  will appear in the opening). The pilot will stay lit, if it does not, repeat the operation.

**DO NOT ATTEMPT TO RE-LIGHT THE PILOT UNTIL AT LEAST ONE MINUTE HAS ELAPSED.**

### To Shut Off the Pilot

Turn off the gas at mains or service cock (if fitted). See Fig 11.



### High Gas Rate Burner

Press the push-button marked with the spark symbol  and release when the button is fully out and a flame  symbol appears in the indicator opening, the burner will light. See Fig. 14.

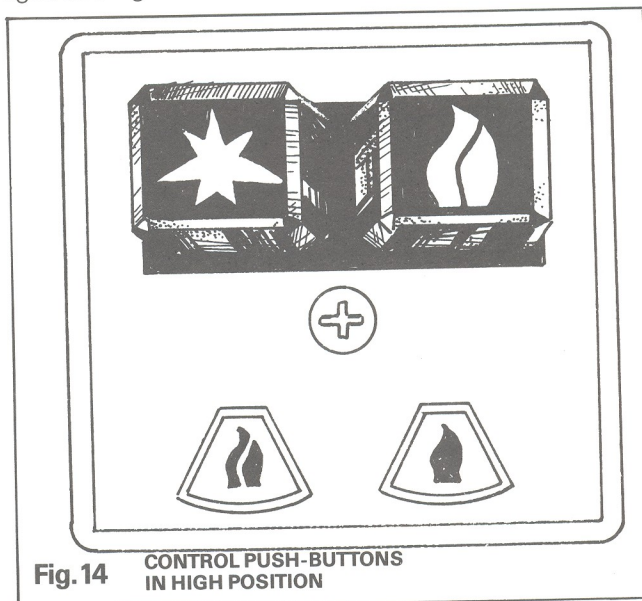


Fig. 14

### Low Gas Rate Burner

Press the button marked with a flame  symbol in and release. The button will stay at half way and a small flame  symbol is indicated the burner is at **LOW RATE**. See Fig. 15.

### To Regain High Gas Rate

Press in button marked with flame  and release. The burner will be on **HIGH RATE**.

Check the gas pressure and gas rate. The pressure at the test point should be for:

16" fire 19.0mbar (7.6in wg) nominal input of 25,000Btu/h (24.6ft<sup>3</sup> of G/hr) at a meter pressure of 20mbar (8.0in wg).  
18" fire 18mbar (7.5in wg) nominal output of 30,000Btu/h (29.3ft<sup>3</sup> of G/hr) at a meter pressure of 20mbar (8.0in wg).

If the gas rate is correct, turn off the burner by pressing the button marked with a spark  symbol, remove the pressure gauge and securely replace the pressure test point screw.

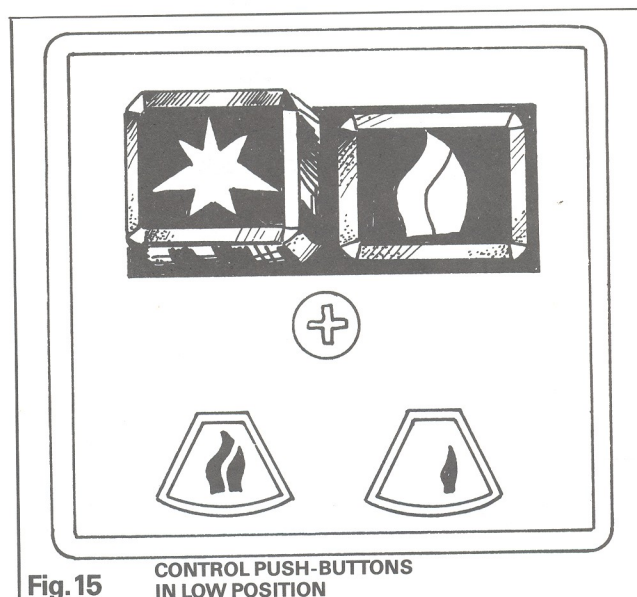
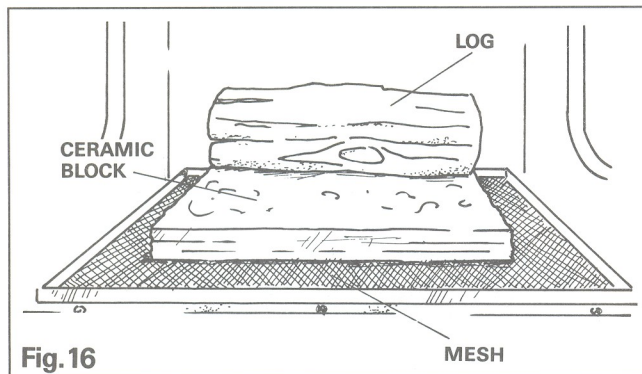


Fig. 15

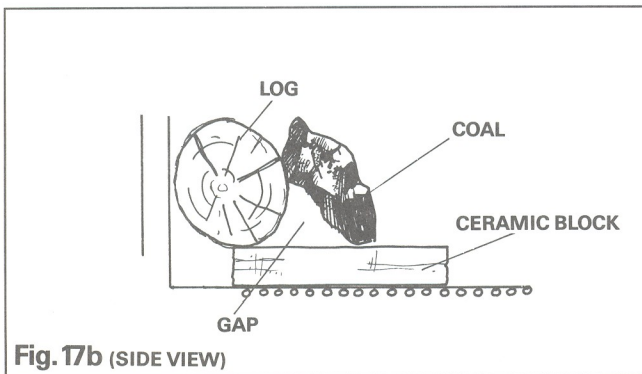
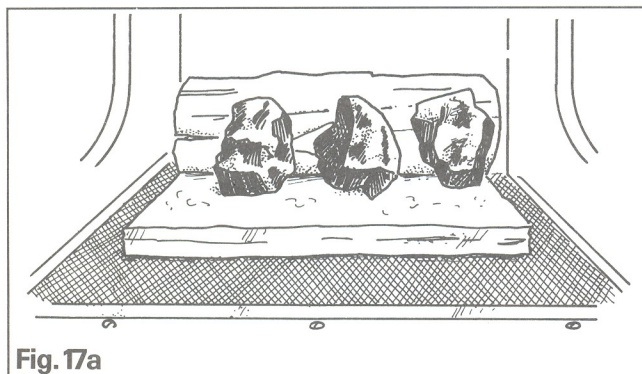
# Commissioning

## Arrangement of Logs and Coals

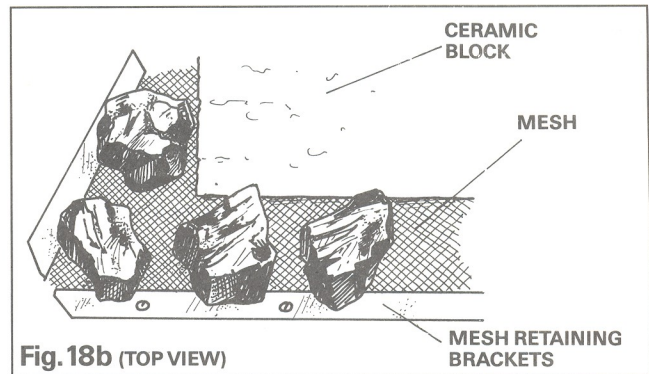
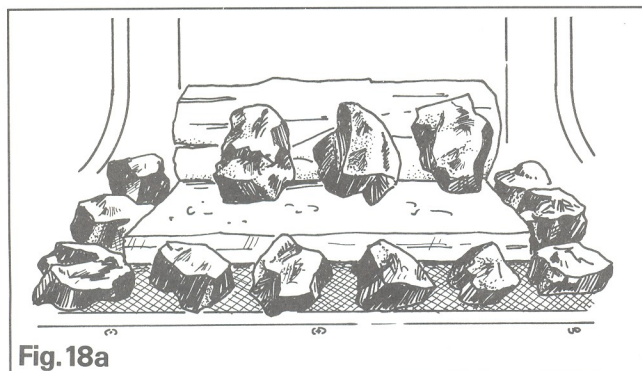
1. Place the log in the back of the grate, on top of the ceramic block as shown in Fig. 16.



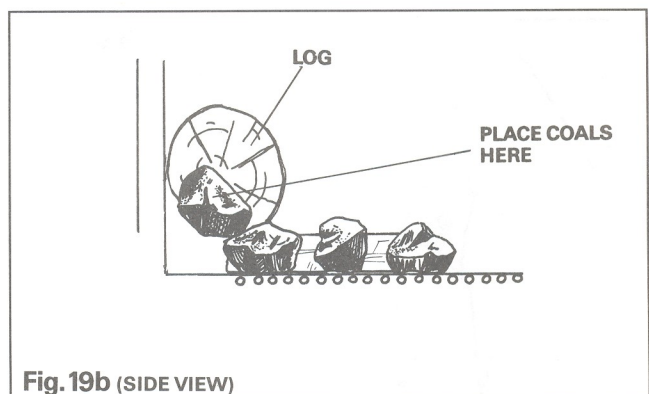
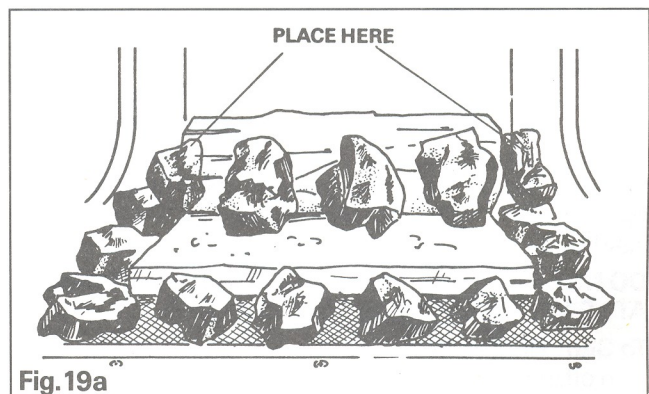
2. Take three of the largest coals and place them carefully on the ceramic block, resting the flattest face of each coal against the log as shown in Figs. 17a and 17b taking care to space them evenly.



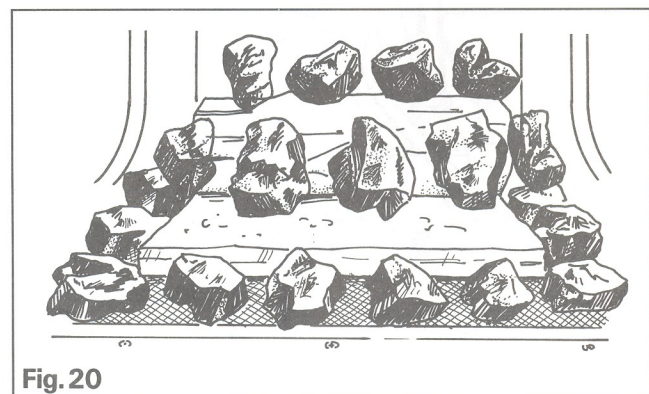
3. Take ten of the coals and place them around the ceramic block in the arrangement shown in Fig. 18a, again leaving a small space between each one. The coals should partly protrude the meshed area and rest on the mesh retaining brackets as shown in Fig. 18b.



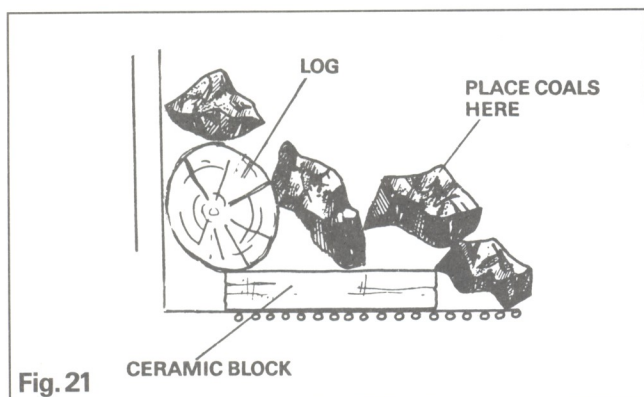
4. Next, place two small coals at the back of the fire, on either side, resting against the ends of the log as shown in Figs. 19a and 19b.



5. Place three or four small coals across the top of the log resting against the back of the fire see Fig. 20.



6. Rest three or four coals between the front row and the middle row, taking care to ensure the provision of maximum gap between them and the ceramic block. See Fig. 21.



7. Finally, cover any large remaining gaps with the remaining coals, taking special care not to disturb the coals that have already been placed.

**NOTE: NOT ALL THE COALS HAVE TO BE USED.**

## User Information

Hand the Operating Instructions to the User for their retention.

Instruct and demonstrate the efficient and safe operation of the fire.

Advise the User, that for continued safe and efficient operation of the fire, servicing should be carried out at intervals recommended by the local gas undertaking, but preferably at least once a year, at the end of the heating season.

It is law that servicing must be carried out by a competent person.

Leave these instructions with the User for use during future service calls.

### Fireguards

Draw the attention of the User, to the tie-on label, referring to the need to provide a fireguard for the protection of young children, the elderly and the infirm.

**LEAVE THESE INSTRUCTIONS WITH THE USER OR ADJACENT TO GAS METER FOR FUTURE USE.**

# Servicing

This boiler **MUST** only be serviced by a competent person.

The chimney should be checked at least annually to ensure continued clearance of combustion products and no build-up of obstructions.

The purpose-provided ventilation should be checked to ensure that it is free from obstructions.

Before commencing a service, isolate the fire from the gas supply at gas mains or gas service cock.

All parts are replaced in reverse order to removal, unless otherwise stated.

After completing any servicing always carry out functional checks of controls.

## Fire (Service only when cold)

Carefully remove all the coals from the fire and inspect for damage/breakage, clean any excessive soot from the coals with a soft brush.

Remove any debris from the top mesh of the burner and ceramic block preferably with a vacuum cleaner.

Remove by lifting coal guard.

Remove by lifting off cast iron decorative front with integral lift up access door.

Remove by lifting inner fire spacer. Break the gas supply feed at gas control.

Remove left hand and right hand side insulation bricks.

Remove the burner arrangement.

## Pilot Injector

If necessary clean the pilot injector as follows:

1. Remove the pipe feed pipe at the pipe burner end.
2. Remove thermocouple at pilot burner.
3. Remove pilot and clean.

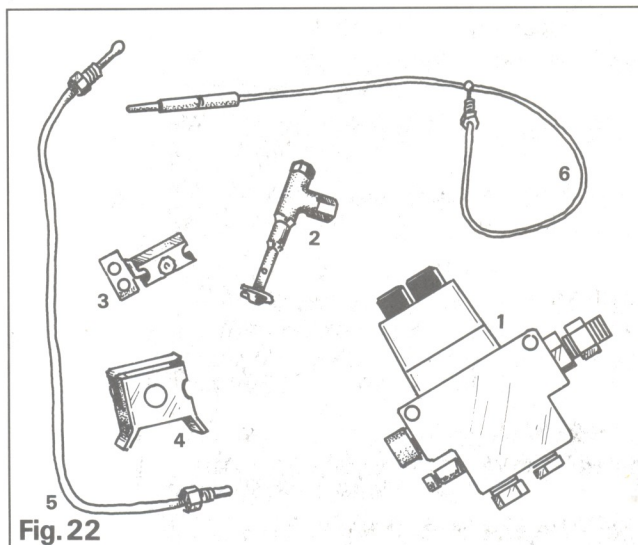
**DO NOT USE WIRE BRUSH.**

# Short List of Spare Parts

The following Spare Parts are available from your Distributor:

| Key | Description                  |
|-----|------------------------------|
| 1.  | Gas Valve                    |
| 2.  | Pilot Assembly               |
| 3.  | Pilot Assembly Locating Clip |
| 4.  | Burner Aeration Assembly     |
| 5.  | Pilot Tubing                 |
| 6.  | Thermocouple                 |
| 7.  | Logs (Not illustrated)       |
| 8.  | Coals (Not illustrated)      |

**THEY SHOULD BE FITTED ONLY BY A COMPETENT ENGINEER.**



**Fig. 22**

With Coalbrookdale's policy of continuous product improvement, the Company reserves the right to change specifications and make modifications to the appliance described and illustrated at any time.

**COALBROOKDALE**



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