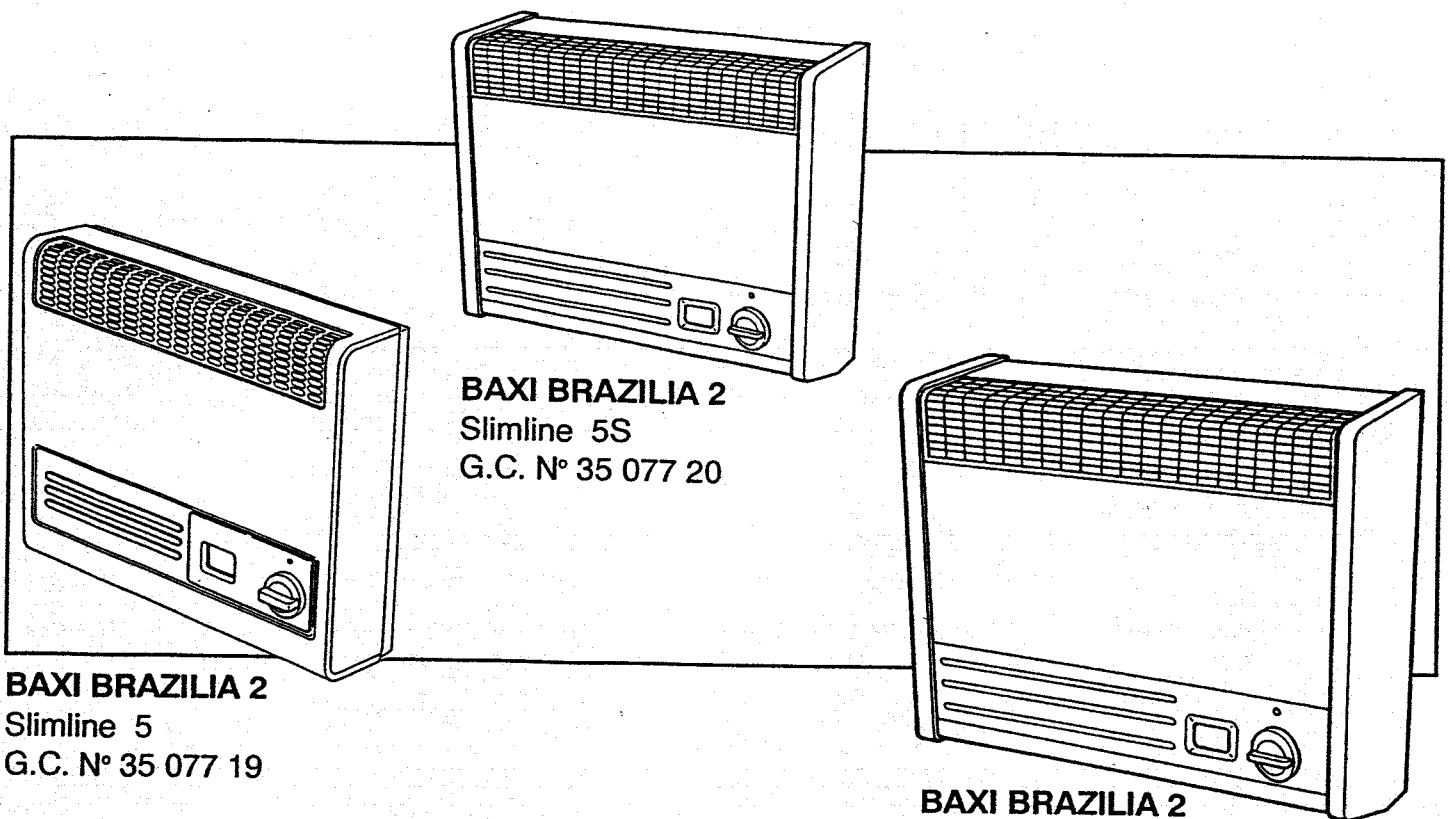


BAXI BRAZILIA 2

ALL SLIMLINE MODELS

BALANCED FLUE
GAS WALL HEATERS

INSTALLATION & SERVICING INSTRUCTIONS



BAXI BRAZILIA 2
Slimline 5
G.C. N° 35 077 19

BAXI BRAZILIA 2
Slimline 5S
G.C. N° 35 077 20

BAXI BRAZILIA 2
Slimline 8S
G.C. N° 35 077 21

Please leave these
Instructions with the User


BAXI
HEATING

IMPORTANT NOTICE

This appliance must only be used with gas type G20 at supply pressure 20mbar. The installation should be carried out by a CORGI registered installer or other competent person in accordance with B.S. code of practice. B.S. 5440 Part 1. B.S. 5871. B.S. 6891. relevant Building Regulations and Gas Safety (Installation and Use) Regulations respectively.

CARTON CONTENTS

- 1 - Heat exchanger/Controls
- 1 - Outer case
- 1 - Flue terminal

A KIT CONTAINING:

- 1 - Fitting & Service Instructions
- 1 - Users Operating Instructions
- 1 - Guarantee Card
- 1 - Safety Guide
- 1 - Control Knob
- 4 - Washers - M5
- 4 - Wall plugs No.8
- 4 - Wood screws No.8 x 1 1/2
- 1 - Wall template

Discolouration of Wall Surfaces:

Most heating appliances generate warm air convection currents and transfer heat to any wall surface against which they are situated. Some modern vinyl wallpapers may not be suitable for use where they are subjected to temperatures above normal room levels, and the manufacturers advice should be sought before using this type of wall covering adjacent to any heating appliance. The likelihood of wall staining from convected air currents will be increased in environments where high levels of cigarette smoke or other contaminants exist.

INTRODUCTION:

The heater provides warm air by natural convection and flueing is by means of a concentric balanced flue arrangement. There is a single control knob which combines ignition and output selection.

Three outputs are indicated, which are given in the table below:-

Heat Output			
MODEL	III (High)	II (Medium)	I (Low)
Slimline 5	1.5kW (5,100 Btu/h)	0.98kW (3,350 Btu/h)	0.57kW (1,950 Btu/h)
Slimline 5S	1.5kW (5,100 Btu/h)	0.98kW (3,350 Btu/h)	0.57kW (1,950 Btu/h)
Slimline 8S	2.26kW (7,700 Btu/h)	1.48kW (5,050 Btu/h)	0.8kW (2,730 Btu/h)

SITING:

The heater must be fitted on a suitable outside wall to meet the requirements of the balanced flue arrangement.

The heater must be fitted on a vertical flat non-combustible wall. Any combustible wall coverings should be removed from within the area of the outer case.

For applications involving walls constructed from or comprising of combustible material, reference should be made to the requirements of B.S. 5871 and Building Regulations.

Building Regulations will require the flue duct to be separated from any combustible material within the wall by a non combustible sleeve enclosing an air

space of at least 25mm (1 in) around the flue duct. If the outer face of the wall is combustible, a plate of metal (or other non-combustible material) should be fitted over the flue duct extending at least 50mm (2in) around the terminal. For further guidance on this type of installation contact BAXI HEATING LTD.

Further guidance on timber frame construction is given in British Gas publication DM3. Guide for Gas Installations in Timber Framed Housing.

In 'Flue Arrangements' below details of the terminal position are given.

Internally a heater must not be fitted under a shelf or sill which has a projection of more than 150mm (6in).

Curtains or a shelf must not be closer than the dimensions shown in the following table:-

MODEL	Minimum distance from top of outer case
Slimline 5 & 5S	140mm (5 1/2in)
Slimline 8S	89mm (3 1/2in)

The bottom of the outer case must be a minimum of 72mm (2 7/8in) from the floor. Subject to this minimum dimension it is recommended that the heater is fitted as close to the floor as possible for optimum distribution of heat.

Minimum clearance from any wall or fixed furniture and the outer case:

Left hand side: 45mm (1 3/4in).

Right hand side: 57mm (2 1/4in).

FLUE ARRANGEMENTS:

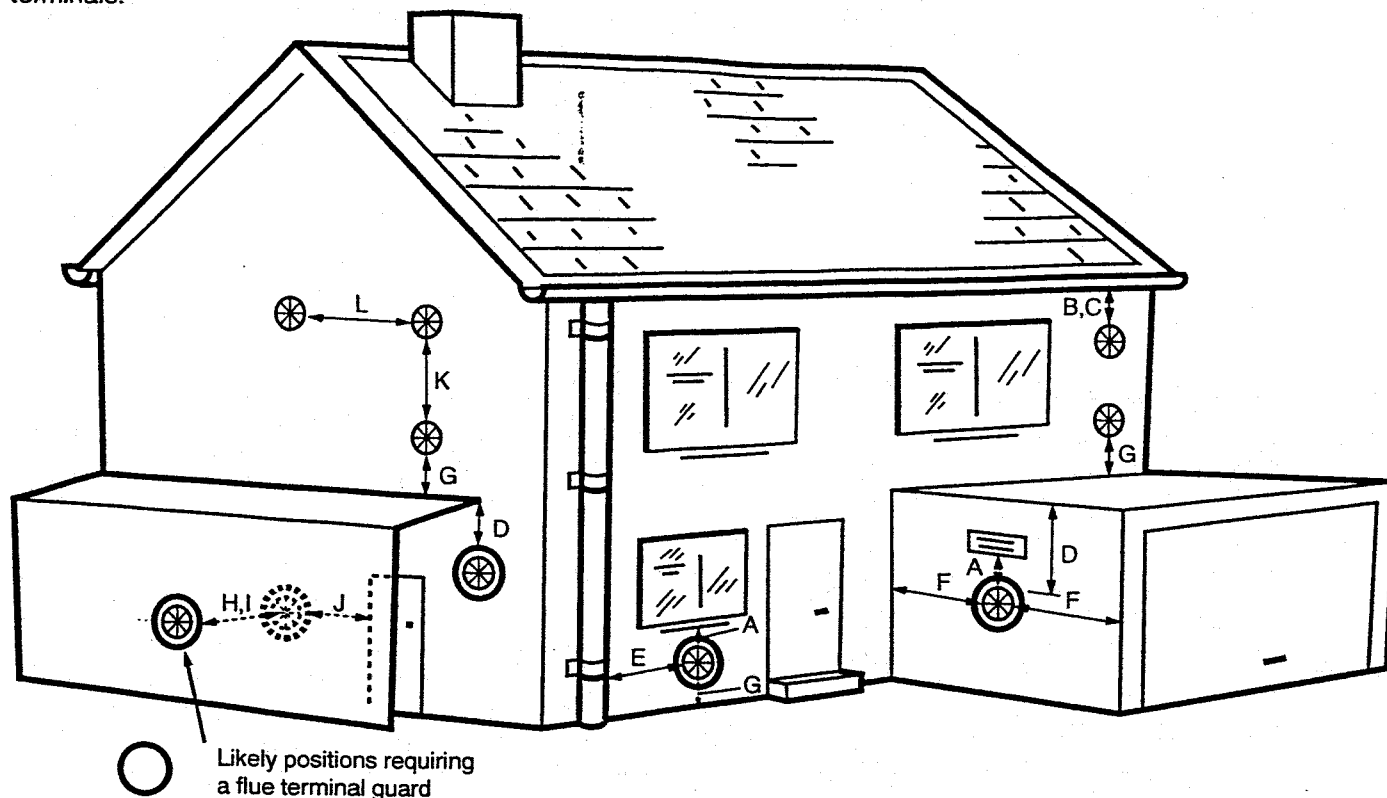
The standard heater is supplied with flue ducting which is adjustable to accommodate wall thicknesses from 248mm to 349mm (9 3/4in to 13 3/4in). Two further flue terminals are available as optional extras to suit the following wall thicknesses:

Wall Thickness	BAXI PART NUMBER	
	Slimline 5 & 5S	Slimline 8S
125mm-229mm (5in - 9in)	225174	080264
381mm-483mm (15in - 19in)	225175	080263

The siting of the balanced flue terminal must meet the following conditions:

1. a) Where the outlet of the appliance is beneath any opening (that is to say, any part of a window capable of being opened, or any ventilation inlet or similar opening) no part of the outlet shall be within 300mm (1 ft), measured vertically from the bottom of the opening.
- b) Where the outlet of the appliance is less than 2m (6ft) above the level of any ground, balcony, flat roof or place to which any person has access and which adjoins the wall in which the flue outlet is situated, the outlet shall be protected by a guard. The guard must be screwed to the wall over the flue terminal and be at least 50mm (2in) clear of any part of the terminal. A suitable guard is available from BAXI HEATING LTD, Brownedge Road, Bamber Bridge Preston PR5 6SN.
- c) Not within 300mm (1ft) of ground level.

2. The following guidelines indicate the requirements for siting of balanced flue terminals:



Position of Terminal	Minimum Distance mm
A. Directly below an opening, air brick, windows, etc.	300mm
B. Below gutters, soil pipes or drain pipes.	300mm
C. Below eaves.	300mm
D. Below balconies or car port roof.	600mm
E. From a vertical drain pipe or soil pipe.	75mm
F. From an internal or external corner.	600mm
G. Above ground, roof or balcony level.	300mm
H. From a surface facing the terminal.	600mm
I. From a terminal facing the terminal.	600mm
J. From an opening in the car port. (e.g. door, window) into a dwelling.	1200mm
K. Vertically from a terminal on the same wall.	1500mm
L. Horizontally from a terminal on the same wall.	300mm

- If the outer face of the outside wall is of combustible material (timber etc) a metal or other non-combustible material plate should be fitted round the flue duct so that it extends not less than 25mm (1 in) around the terminal. A 179mm (7in) square or a 230mm (9in) diameter circular plate will meet the requirement.
- The flue should run horizontally, or with a slight drop to the terminal, in order to prevent rain entry. (see fig. 3a.)

GAS SUPPLY:

The inlet connection R 1/4 (1/4 BSP external) is located on the gas tap at the bottom right hand side of the appliance. A gas service cock must be fitted in the supply to the appliance with a disconnecting union between the service cock and the inlet connection.

NOTE: If the gas supply is run either to the left or right on leaving the heater, at least the first 51 mm (2in) from the inlet connection must run vertically downwards to avoid the outer case fouling the gas supply.

VENTILATION:

The heater is room sealed and therefore requires no purpose built ventilation.

Appliance Details

Input	Slimline 5 & 5S	Slimline 8S
III (High)	2.05 kW (7,000 Btu/h)	3.06kW (10,440 Btu/h)
II (Med)	1.41kW (4,800 Btu/h)	2.21kW (7,540 Btu/h)
I (Low)	0.86kW (3,000 Btu/h)	1.27kW (4,333 Btu/h)
Output		
III (High)	1.5 kW (5,100 Btu/h)	2.26kW (7,700 Btu/h)
II (Med)	0.98kW (3,350 Btu/h)	1.48kW (5,050 Btu/h)
I (Low)	0.57kW (1,950 Btu/h)	0.80kW (2,730 Btu/h)
Setting Pressure		
Hot High Rate	19.7 ± 0.75 mbar (7.9 ± 0.3in wg)	19.25 ± 0.75 mbar (7.7 ± 0.3in wg)
Cold High Rate	19.7 ± 0.75 mbar (7.9 ± 0.3in wg)	19.25 ± 0.75 mbar (7.7 ± 0.3in wg)
Injector Size Number	CO2	CO1

Outer Case Dimensions

	Slimline 5	Slimline 5S	Slimline 8S
Height	394mm	391mm	430mm
Width	426mm	450mm	516mm
Depth	126mm	128mm	152mm
Packed Weight	18kg (39.7lb)	18.4kg (40.6lb)	24.4kg (54lb)

Installation Instructions:

1. Ensure that the length of the flue ducting is suitable for the wall thickness.
2. Select a position for the heater using the template supplied and mark the position of the flue ducting and the four fitting points, ensuring that the template is vertical. (Fig 2a or 2b depending on model).
3. Cut a neat hole 127-140mm diameter (5 - 5½in) in the wall for the flue.
4. Drill and plug the wall at the four fixing points using a 6mm (¼in) drill.
5. Slide the flue duct and terminal assembly into the flue outlet at the rear of the heater. Ensure that the flue duct spotwelds are not at the bottom. Adjust the length between the back of the air box and the inside edge of the terminal equal to the wall thickness plus 20mm (¾in). Using the length of flue tape provided fix this dimension by taping up the joint between the flue duct assembly and the flue outlet. (Fig 3).
6. Offer the heater up to the wall pushing the terminal and flue ducting through the wall.
7. Ensuring that the heater is vertical, secure the heater to the wall using the four screws and washers provided. Ensure the cavity wall seal ring is correctly positioned and seals against the wall. (Fig 3).
8. Ensure that the flue terminal protrudes sufficiently on the outside wall face and make good as appropriate. (Fig 3).
9. Connect the gas supply incorporating a gas service cock and a disconnecting union between the service cock and the inlet connection. Check for gas soundness (B.S. 6891).
10. Complete the installation as outlined in 'Commissioning the Appliance'.

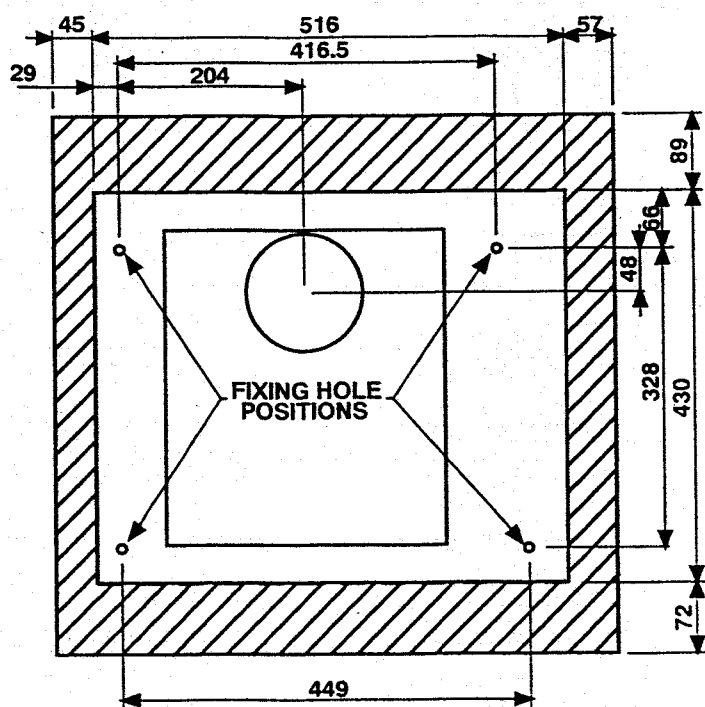


Fig. 2a. Fixing template (Slimline 8S)

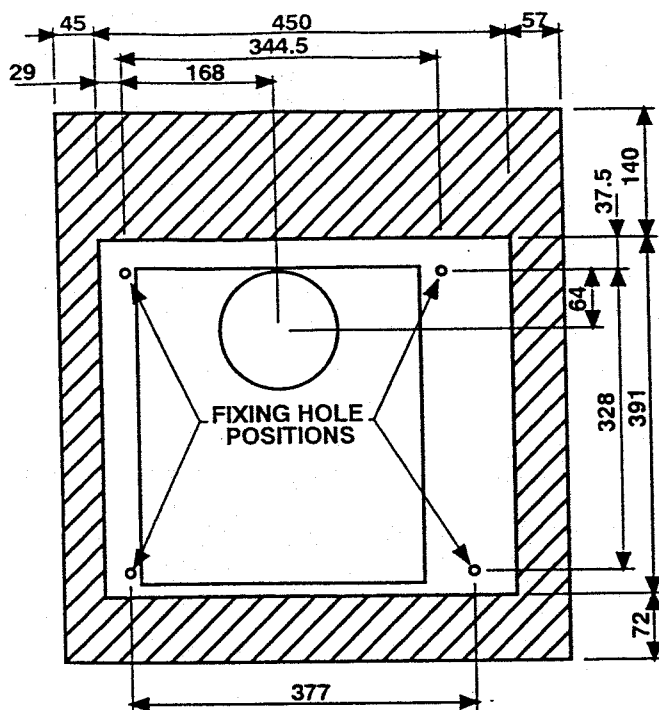


Fig. 2b. Fixing template (Slimline 5 + 5S)

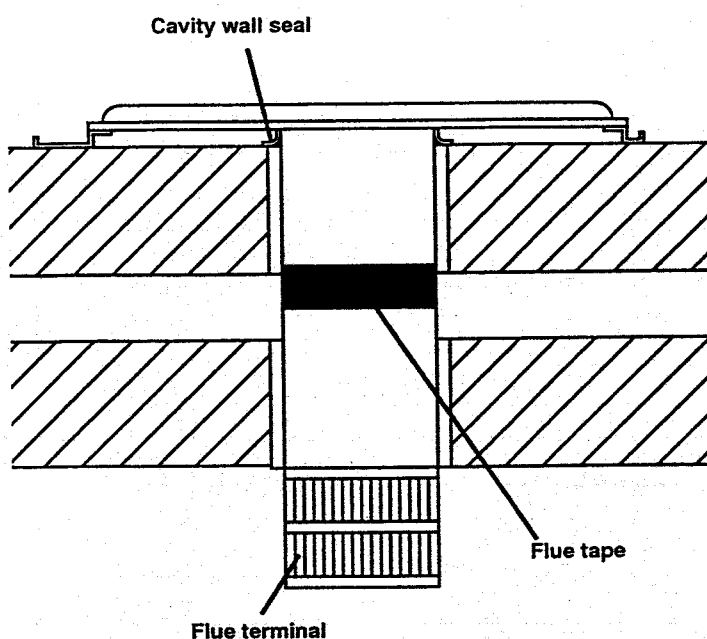


Fig. 3. Flue ducting and terminal. (TOP VIEW)

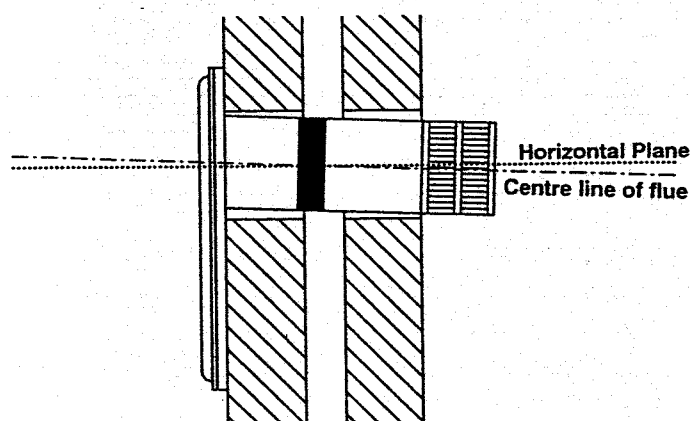


Fig. 3a. Side view showing flue run.

Commissioning the Appliance:

1. Turn on the gas service cock.
2. Fit the control knob on to the control tap spindle.
3. Purge the air out of the system. Remove the pressure test point screw. Fit a pressure gauge to the pressure test point.(Fig 4).
4. Whilst observing the burner through the window in the heat exchanger push in and slowly turn the control knob anti clockwise. Repeat the ignition sequence until the burner is alight.
5. Turn the knob fully round anti-clockwise to obtain HIGH (III) rate and check that the gas supply is correct by measuring the pressure at the test point on the gas control tap.(Fig 4). No adjustment is provided on the appliance. If it is found that the test pressure is not within the tolerances given, consult the local gas region.

Setting Pressure		
	Slimline 5 & 5S	Slimline 8S
Cold/High Rate	19.7 ± 0.75 mbar (7.9 ± 0.3 in wg)	19.25 ± 0.75 mbar (7.7 ± 0.3 in wg)

6. Push in and turn the control knob back to the OFF position and remove the knob from the appliance by gently pulling the knob forward. Remove pressure gauge and replace the pressure test point screw. Relight the appliance and check for gas soundness.
7. Fit the outer case by locating the slots in the outer case rear strip on to the four mounting lugs on the wall brackets. (Fig 5).
8. Replace the control knob.

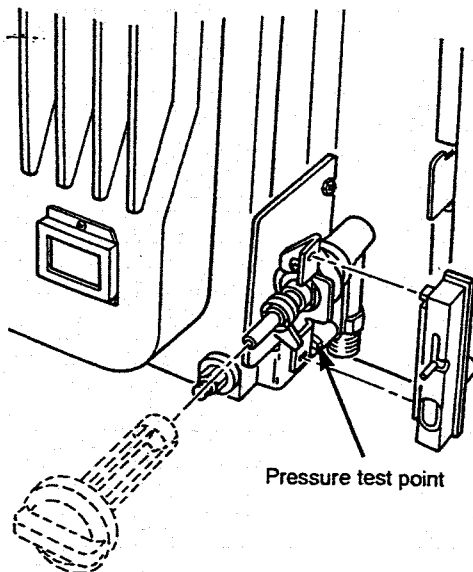


Fig. 4. Pressure test point.

Instruct the User:

1. Explain the operation of the control knob.
2. Point out what is visible through the observation window in the case and demonstrate the variation in flame height between HIGH (III), MEDIUM (II) and LOW (I).
3. Show the position of the external gas service cock.

4. Point out that the appliance must be switched off and re-lit in the event of a gas failure. This is similar to a gas fire and is important especially where the gas supply is through a slot meter.
5. Point out that the bottom and top of the case must never be obstructed in any way and emphasise that clothes etc. must never be hung over the heater to dry as this will cause overheating and possible damage.
6. Recommend that for continued safe operation the appliance is serviced annually by a competent person.
7. Hand over the User's and Installation and Servicing Instructions.

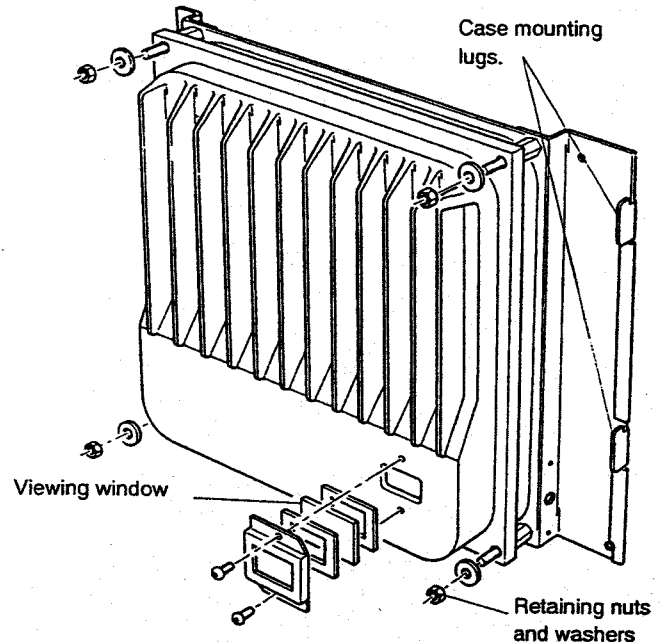


Fig. 5. Mounting lugs and retaining nuts.

Servicing the appliance:

The appliance should be serviced annually in accordance with the following procedure. Ensuring the appliance is cold:

1. Turn off the gas supply
2. Remove the control knob by pulling forward, then remove the case by easing upwards and forwards until it is clear of its retaining lugs. (Fig 5).
3. Remove the heat exchanger front by removing the four retaining nuts and washers. (Fig 5).
4. Remove the burner retaining plate and burner by removing the three screws and pulling off from its location on the injector sufficiently to give access to the spark electrode lead (Fig 8). Disconnect the spark electrode lead.
5. Check that the insulation is undamaged. Replace if necessary.
(8S only) Check that the aluminium foil is undamaged. Replace if necessary.
6. Remove and clean the injector and washer. The injector must NOT be cleaned with a needle or wire. (Fig 7).
7. Check that the flue outlet tube is clear.
8. Brush away any dirt from the front section of the heat exchanger. If necessary clean the viewing window.
9. With a light brush carefully remove deposits from the spark electrode, burner flame ports and the burner gauze.
10. Replace the glass fibre rope seal in the front section of the heat exchanger if it is in any way damaged.

11. Re-assemble the injector, washer and burner assembly in reverse order of dismantling. Ensure that the spark gap is correct ie. $3.5\text{mm} \pm 0.5\text{mm}$ (Fig 9). Check the burner is correctly positioned on the injector with the gauze covering the primary aeration hole and is horizontal.
12. Check the gas pressure at the test point on the gas control tap (Fig 4).

Setting Pressure		
	Slimline 5 & 5S	Slimline 8S
Cold/High Rate	$19.7 \pm 0.75 \text{ mbar}$ ($7.9 \pm 0.3 \text{ in wg}$)	$19.25 \pm 0.75 \text{ mbar}$ ($7.7 \pm 0.3 \text{ in wg}$)

If the pressure is not in the tolerance shown, the gas supply to the unit may be incorrect.

13. Check that the burner ignition is satisfactory and re-assemble the heat exchanger front.
14. Check for gas soundness.
15. Fit the case and control knob and re-check that the ignition is satisfactory.

Exchange and/or Servicing of Individual Components:

Check that the gas supply is turned off externally. Ensuring that the appliance is cold the following components can be removed as described below.

Replace all components in the reverse order of dismantling and check for gas soundness. Remove the front case as described in Note 2 under 'Servicing the appliance'.

1. PIEZO UNIT:

Pull off the spark lead at the rear of the igniter. Straighten the tabs securing the piezo unit to the tap niting plate and remove. Fit the new piezo unit and twist the tabs slightly to secure. (Fig 6a or 6b depending on model).

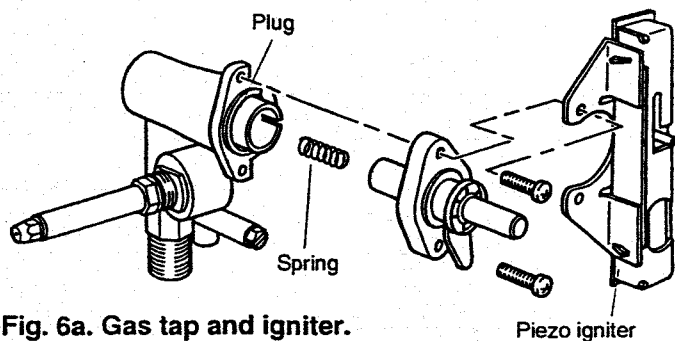


Fig. 6a. Gas tap and igniter.
(Slimline 5 & 5S)

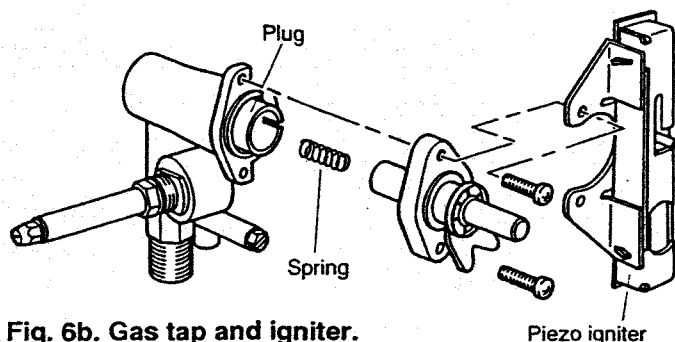


Fig. 6b. Gas tap and igniter.
(Slimline 8S)

2. GAS CONTROL TAP:

Greasing:

Pull off the spark lead at the rear of the igniter. Unscrew the two niting plate retaining screws and washers and remove the niting plate and igniter complete with gas tap spindle and spring. After greasing care must be taken to ensure that both the plug and the spring are correctly replaced on re-assembly. (Fig 6a or 6b depending on model).

Exchange:

Remove the burner and injector as described in section 3 below.

Turn off the gas supply at the service cock. Pull off the spark electrode lead at the rear of the igniter.

Remove the supply pipe from the gas tap. Release the retaining nut on the gas tap outlet. (Fig 7). Pull the gas tap from its location bracket. On re-assembly ensure that the airbox sealing grommet is correctly positioned and check for gas soundness.

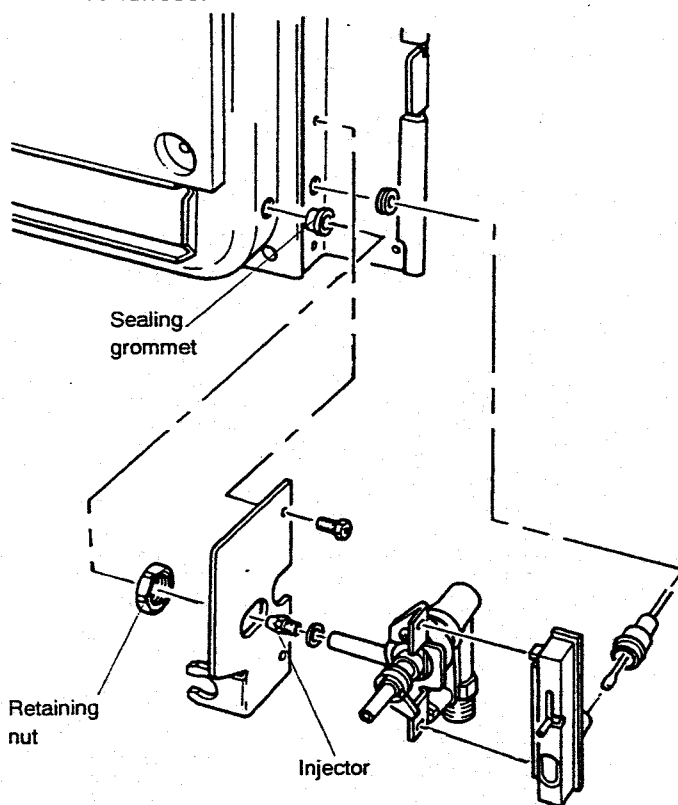


Fig. 7. Injector and gas tap retaining nut.

3. BURNER AND INJECTOR:

Remove the heat exchanger front by removing the four retaining nuts and washers. Remove the burner retaining plate and burner by removing the three screws and pulling from its location on the injector. Disconnect the spark electrode lead from the spark electrode.

Remove the burner from its retaining plate by unscrewing the two screws. Remove the screw securing the spark electrode to the burner.

Remove the gauze from the burner mixing tube. Unscrew the injector and washer from its holder.

On re-assembly check that the burner is correctly positioned on the injector with the gauze covering the primary aeration hole and is horizontal. (Fig 8).

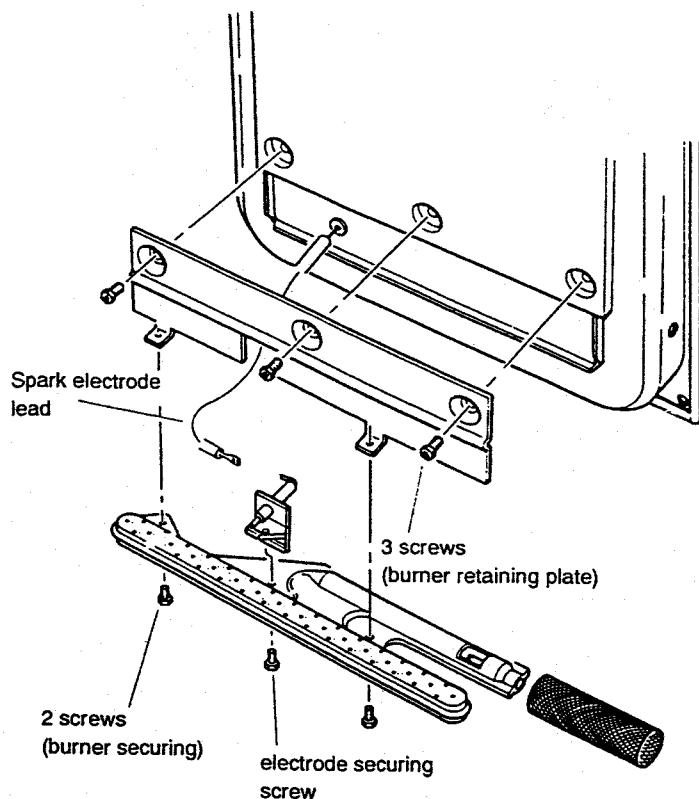


Fig.8. Spark-electrode lead and burner retaining-plate.

4.SPARK ELECTRODE:

(including flying lead).

Carry out procedure as in removal of burner and injector above. Remove the sealing grommet from the rear of the air box. Disconnect the lead at the piezo igniter and remove through the holes in the airbox and wall mounting bracket complete with sleeve. On re-assembly ensure that the spark gap is correct (Fig 9) and the sleeve is fitted correctly over the ceramic insulation on the electrode. Ensure the grommet in the air box seals correctly.

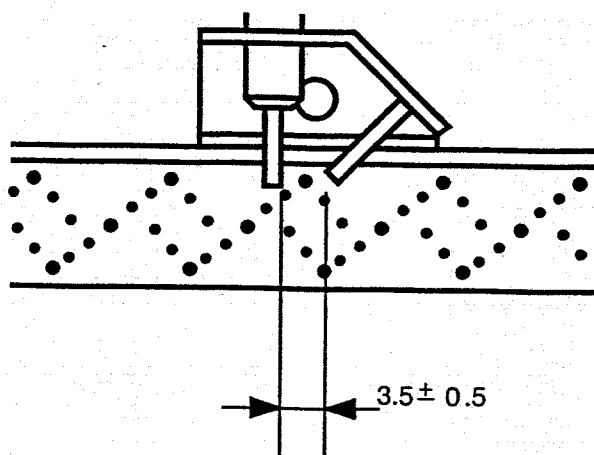


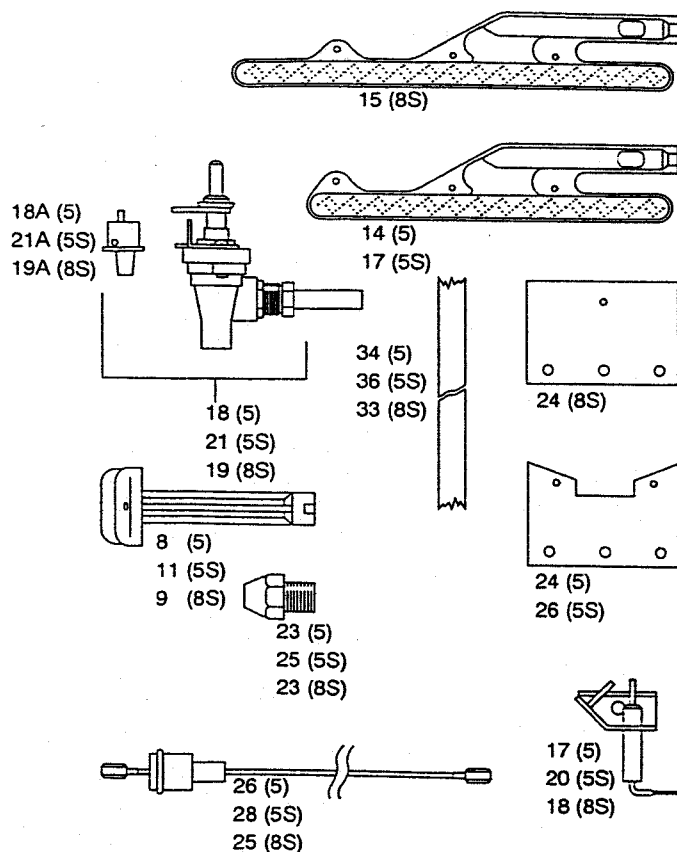
Fig. 9. Spark electrode gap

5.HEAT EXCHANGER:

Remove the four retaining nuts and washers securing the front heat exchanger section. On re-assembly ensure that the sealing rope is renewed if it is in any way damaged. (Fig 5).

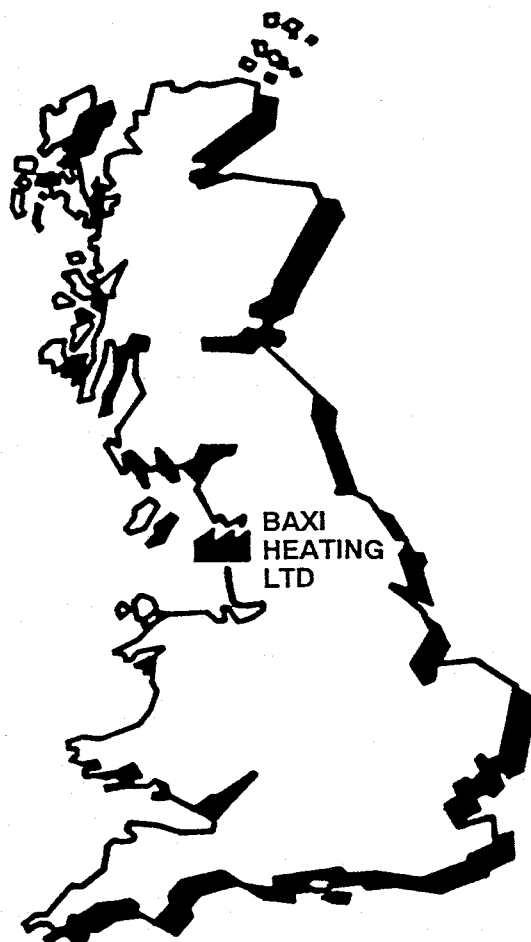
6.VIEWING GLASS:

Remove the two viewing glass retaining screws and remove the glass complete with the clamping plate and sealing gaskets. (Fig 5). On re-assembly ensure that the sealing gaskets are renewed.



Short Parts List

Key N°	Description	Model	B.G. N°	Makers N°
8 11 9	Knob - Control	5 5S 8S	205 890 205 887 205 894	234632 234637 234643
14 17 15	Burner	5 5S 8S	205 837 205 837 205 864	224041 224041 223963
17 20 18	Electrode - spark ignition - Buccleuch	5 5S 8S	205 873	223940
18 21 19	Igniter / Gas Tap	5 5S 8S	381 937 381 937 386 519	224045 224045 223965
18A 21A 19A	Igniter / piezo - Vernitron 66111	5 5S 8S	393 734	042941
23 25 23	Injector	5 5S 8S	381 941 381 941 381 942	224047 224047 224104
24 26 24	Insulation - airbox	5 5S 8S	205 844 205 844 205 867	224048 224048 223971
26 28 25	Lead - electrode	5 5S 8S	155 654	043043
34 36 33	Rope - seal heat exchanger	5 5S 8S	205 832 205 832 205 854	224051 224051 223974



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