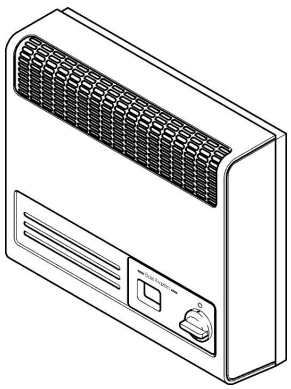
Please leave these instructions with the user

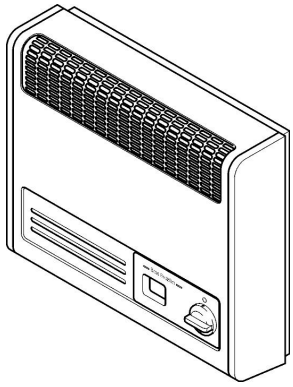
Baxi Brazilia F 5, F 5S, F 8S & Comfort Stat F 8ST Oak

Balanced Flue Gas Wall Heaters

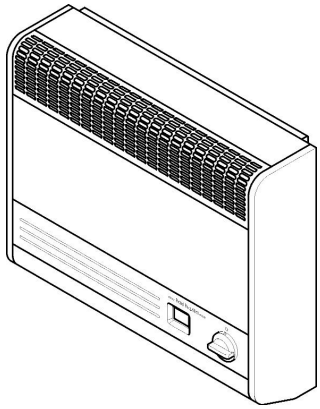
Installation and Servicing Instructions



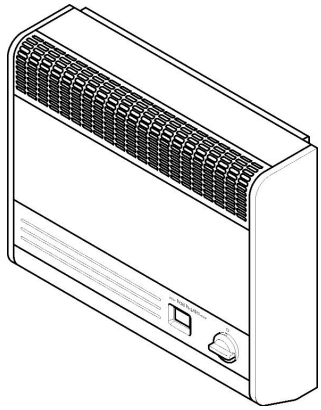
Baxi Brazilia F 5



Baxi Brazilia F 5S



Baxi Brazilia F 8S



Baxi Brazilia F 8ST Comfort Stat

BAXI

3003035 / 03

Natural Gas

Baxi Brazilia F 5
G.C.No. 35 075 01A

Baxi Brazilia F 5S Grey
G.C.No. 35 075 02A
Baxi Brazilia F 5S Mahogany
G.C.No. 35 075 02A
Baxi Brazilia F 5S Oak
G.C.No. 35 075 02A

Baxi Brazilia F 8S Grey
G.C.No. 35 075 03A
Baxi Brazilia F 8S Mahogany
G.C.No. 35 075 03A
Baxi Brazilia F 8S Oak
G.C.No. 35 075 03A
Baxi Brazilia Comfortstat F8ST Oak
G.C.No. 35 075 09

Propane

Baxi Brazilia F 5 Propane
G.C.No. 35 075 04A

Baxi Brazilia F 5S Grey Propane
G.C.No. 35 075 05A

Baxi Brazilia F 8S Grey Propane
G.C.No. 35 075 06A

Baxi Heating Ltd is one of the leading manufacturers of domestic heating products in the UK.

Our first priority is to give a high quality service to our customers. Quality is built into every Baxi product - products which fulfil the demands and needs of customers, offering choice, efficiency and reliability.

To keep ahead of changing trends, we have made a commitment to develop new ideas using the latest technology - with the aim of continuing to make the products that customers want to buy.

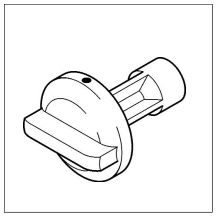
Baxi is also the largest manufacturing partnership in the country. Everyone who works at the company has a commitment to quality because, as shareholders, we know that satisfied customers mean continued success.

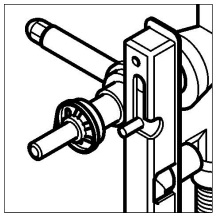
We hope you get a satisfactory service from Baxi. If not, please let us know.

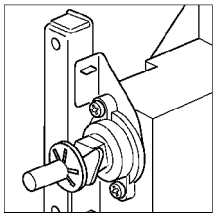
For GB/IE only.

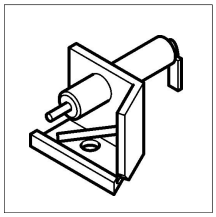
CE

Baxi is a BS-EN ISO 9001
Accredited Company









Contents

Installer

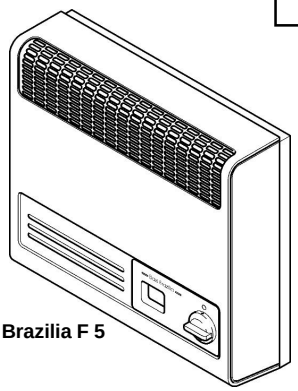
Before continuing any further with the installation of this appliance please read the following guide to manual handling:

- The lifting weight of this appliance is as below:

Model	Gross weight (kg)
F 5	18.0.
F 5S	19.1.
F 8S & F 8ST	24.4.

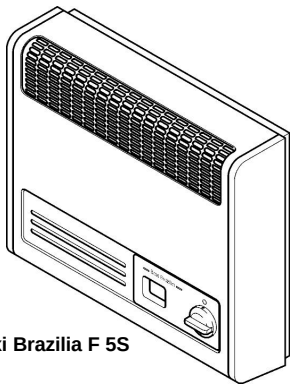
- One person should be sufficient to lift the fire. If for any reason this weight is considered too heavy then obtain assistance.
- When lifting always keep your back straight. Bend your legs and not your back.
- Avoid twisting at the waist. It is better to reposition your feet.
- Avoid upper body/top heavy bending. Do not lean forward or sideways whilst handling the fire.
- Always grip with the palm of the hand. Do not use the tips of fingers for support.
- Always keep the fire as close to the body as possible. This will minimise the cantilever action.
- Use gloves to provide additional grip.
- Always use assistance if required.

IMPORTANT: The appliance must only be used on its designated gas type. This is indicated on the data label.



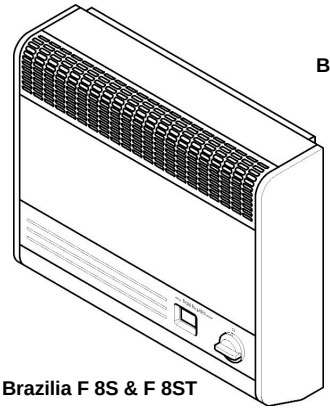
Baxi Brazilia F 5

Fig. 1



Baxi Brazilia F 5S

Fig. 2



Baxi Brazilia F 8S & F 8ST

Fig. 3

Notice

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 soft furnishings (such as blown vinyl wallpapers) may not be suitable for use where they are subject to temperatures above normal room levels and the manufacturer's 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 tobacco smoke or other contaminants exist.

1.0 Introduction

1.1 Description

1. The Baxi Brazilia F is a range of room sealed gas convector appliances designed to be used with gas type G20 (Natural Gas) at supply pressure 20 mbar. When converted using the below kits the non thermostatic range is also suitable for use with gas type G31 (Propane) at supply pressure 37 mbar.

LPG Kits

F 5 & F 5S	5110284
F8S	5110285

The procedure for installation, servicing etc. is the same for both Natural Gas and Propane models.

2. The appliance provides warm air by natural convection and flueing is by means of a concentric balanced flue arrangement.

3. Except for Comfort Stat, the appliance is controlled by a control knob which operates the ignition and alters the heat output. The control knob has five positions giving a choice of three output rates:

Position ●	OFF
Position I	LOW
Position ★	IGNITION
Position II	MEDIUM
Position III	HIGH

4. (Comfort Stat only)
The appliance is controlled by a control knob which operates the ignition and alters the temperature setting, the knob has four positions.

Position ●	OFF
Position ✳	IGNITION PRESET
	HIGH
	LOW

1.2 Installation

1. The appliance is suitable for installation only in G.B. and I.E. and should be installed in accordance with the rules in force. For Ireland install in accordance with I.S.813 "Domestic gas installations". The installation must be carried out by a CORGI Registered Installer or other competent person and be in accordance with the relevant requirements of **GAS SAFETY** (Installation and Use) **REGULATIONS** latest edition, the **BUILDING REGULATIONS** issued by the Department of the Environment, **BUILDING STANDARDS** (Scotland) (Consolidation) **REGULATIONS** issued by the Scottish Development Department and the **LOCAL BUILDING REGULATIONS.** Where no specific instructions are given, reference should be made to the relevant **BRITISH STANDARD CODES OF PRACTICE.**

2. **This appliance must be installed in accordance with the manufacturers instructions and the rules in force.**

3. **Read the instructions before installing or using this appliance.**

NOTE: All illustrations show F 5S, unless otherwise indicated. The procedure for installation, commissioning, servicing etc. is the same for all Brazilia F models.

1.3 Important Information

This product contains Refractory Ceramic Fibres (RCF), which are man-made vitreous silicate fibres. Excessive exposure to these materials may cause irritation to eyes, skin and respiratory tract. Consequently, it is important not to touch or disturb the burner surface 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 it is recommended 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 the the burner surface we recommend that the replaced items are not broken up, but are sealed within a heavy duty polythene bag, clearly labelled as RCF waste. RCF waste is classed as a stable, non-reactive hazardous waste and may be disposed at a landfill licenced to accept such waste.
Protective clothing is not required when handling these articles, but we recommend the use of suitable gloves to prevent irritation. We also recommend you follow the normal hygiene rules of not smoking, eating or drinking in the work area and always wash your hands before eating or drinking.
This appliance does not contain any component manufactured from asbestos or asbestos related products.

2.0 Technical Data

F 5 & F 5S Natural Gas

Category of Appliance II_{2H3P}
The appliance is set for Gas Type G20 at 20mbar.

Heat Input (gross)	High	Med	Low
kW	2.05	1.41	0.86
Btu/h	7,000	4,800	3,000
Heat Output (gross)	High	Med	Low
kW	1.5	0.98	0.57
Btu/h	5,100	3,350	1,950
Setting Pressure	Cold		
	mbar	19.7 ± 0.75	
	in wg	7.9 ± 0.3	
Injector Size	CO_2		
Nox Class	3		
Gas Rate on HIGH	0.195 m^3/h (6.89 ft^3/h)		
Gas Connection	R ¼ (¼ BSP external)		
Ignition	Piezo Spark		
Packed Weight	**F 5**	**F 5S**	
	18 kg	18.4 kg	
	(39.7 lbs)	(40.6 lbs)	
Dimensions	**F 5**	**F 5S**	
Height	394mm	394mm	
Width	426mm	450mm	
Depth (from the wall)	126mm	128mm	
Controls	Rotary gas tap allowing manual adjustment between low, medium and high output. Flame failure device.		
Thermocouple Output	8-13mv		
Heat Exchanger	Cast Iron		

B.S. Codes of Practice

STANDARD	SCOPE
B.S. 6891	Gas Installation.
B.S. 5440: Pt. 1	Flues.
B.S. 5871 Pt.1	Installation of fires, convector heaters

F 8S & F 8ST Natural Gas
Category of Appliance **F 8S** II_{2H3P}
Category of Appliance **F 8ST** I_{2H}
The appliance is set for Gas Type G20 at 20mbar.

		Except Comfort Stat	Comfort Stat	
Heat Input (gross)	High	Med	Preset	Low
kW	3.06	2.21	1.55	1.27
Btu/h	10,440	7,540	5,290	4,333

		Except Comfort Stat	Comfort Stat	
Heat Output (gross)	High	Med	Preset	Low
kW	2.26	1.48	1	0.80
Btu/h	7,700	5,050	3,412	2,730

Setting Pressure F Range	Cold	
	mbar	19.25 ± 0.75
	in wg	7.7 ± 0.3
Setting Pressure Comfort Stat	Cold	
	mbar	17.25 ± 0.75
	in wg	6.9 ± 0.3
Injector Size	CO_1	
Nox Class	2	
Gas Rate on HIGH	0.29 m^3/h (10.28 ft^3/h)	
Gas Connection	R ¼ (¼ BSP external)	
Ignition	Piezo Spark	
Packed Weight	**F 8S & F 8ST**	
	24.4 kg	
	(54 lbs)	
Dimensions	**F 8S & F 8ST**	
Height	430mm	
Width	516mm	
Depth (from the wall)	152mm	
Controls Non Thermostat	Rotary gas tap allowing manual adjustment between low, medium and high output. Flame failure device.	
Controls Comfort Stat	Rotary thermostat allowing a preset position and adjustment between low and high temperature settings. Flame failure device.	
Thermocouple Output	8-13mv	
Heat Exchanger	Cast Iron	

2.0 Technical Data

F 5 & F 5S Propane
(When converted using kit No. 5110284)
Category of Appliance II_{2H3P}
The appliance is set for Gas Type G31 at 37mbar.

Heat Input (gross)	High	Med	Low
kW	2.05	1.41	0.86
Btu/h	7,000	4,800	3,000
Heat Output (gross)	High	Med	Low
kW	1.5	0.98	0.57
Btu/h	5,100	3,350	1,950
Setting Pressure	Cold		
	mbar	36.5 ± 1	
	in wg	14.6 ± 0.4	
Injector Size	74		
Nox Class	3		
Gas Rate on HIGH	0.077 m^3/h (0.146 kg/h)		
Gas Connection	R ¼ (¼ BSP external)		
Ignition	Piezo Spark		
Packed Weight	**F 5**	**F 5S**	
	18 kg	18.4 kg	
	(39.7 lbs)	(40.6 lbs)	
Dimensions	**F 5**	**F 5S**	
Height	394mm	394mm	
Width	426mm	450mm	
Depth (from the wall)	126mm	128mm	
Controls	Rotary gas tap allowing manual adjustment between low, medium and high output. Flame failure device.		
Thermocouple Output	8-13mv		
Heat Exchanger	Cast Iron		

F 8S Propane
(When converted using kit No. 5110285)
Category of Appliance II_{2H3P}
The appliance is set for Gas Type G31 at 37mbar.

Heat Input (gross)	High	Med	Low
kW	3.06	2.21	1.27
Btu/h	10,440	7,540	4,333
Heat Output (gross)	High	Med	Low
kW	2.26	1.48	0.80
Btu/h	7,700	5,050	2,730
Setting Pressure	Cold		
	mbar	36.5 ± 1	
	in wg	14.6 ± 0.4	
Injector Size	90		
Nox Class	2		
Gas Rate on HIGH	0.115 m^3/h (0.218 kg/h)		
Gas Connection	R ¼ (¼ BSP external)		
Ignition	Piezo Spark		
Packed Weight	**F 8S**		
	24.4 kg		
	(54 lbs)		
Dimensions	**F 8S**		
Height	430mm		
Width	516mm		
Depth (from the wall)	152mm		
Controls	Rotary gas tap allowing manual adjustment between low, medium and high output. Flame failure device.		
Thermocouple Output	8-13mv		
Heat Exchanger	Cast Iron		

B.S. Codes of Practice

STANDARD	SCOPE
B.S. 6891	Gas Installation.
B.S. 5440: Pt. 1	Flues.
B.S. 5871 Pt.1	Installation of fires, convector heaters

3.0 Site Requirements

3.1 Location

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

2. 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.

3. Building Regulations will require the flue duct to be separated from any combustible material within the wall by a non-combustible sleeve enclosing an annular air space of at least 25mm (1 in) around the flue duct.

4. 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 (2 in) around the terminal.

5. Further guidance on timber frame construction is given in the Institute of Gas Engineers UP7. “Guide for Gas Installations in Timber Framed Dwellings”.

IMPORTANT: LPG Models.
This appliance must not be installed below ground in basements, cellars, etc. unless these are open to ground level on one side. For further guidance see BS 5871 Pt.1.

3.2 Clearances

1. The appliance 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.

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

3. Curtains or a shelf must not be closer than 140mm ($5\frac{1}{2}$ in) (F 5 & F 5S), 89mm ($3\frac{1}{2}$ in) (F 8S & F 8ST) from top of outer case.

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

5. Minimum side clearance form any wall or fixed furniture to the outer case is:

Left hand side:	45mm ($1\frac{3}{4}$ in)
Right hand side:	57mm ($2\frac{1}{4}$ in)

3.0 Site Requirements

Flue Position

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

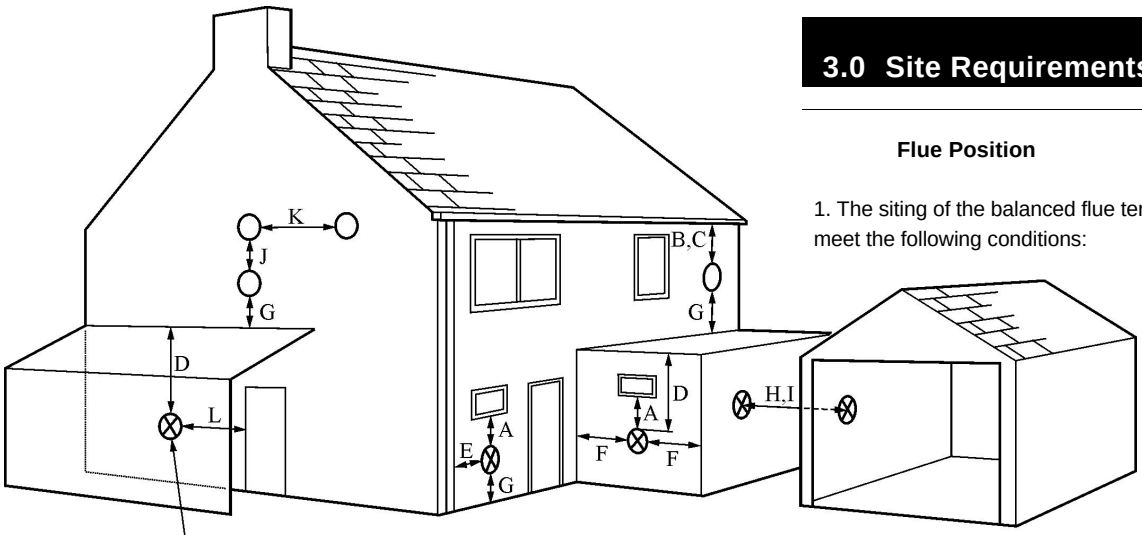
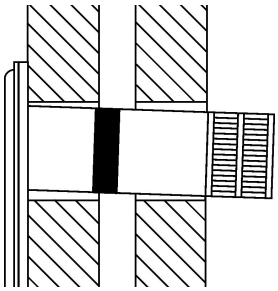


Fig. 4

Likely flue positions requiring a flue terminal guard



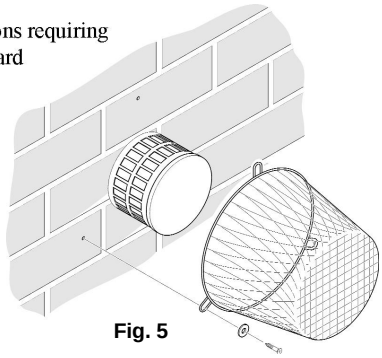


Fig. 5

Fig. 6 (side view). Angle of drop shown exaggerated.

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

*In addition, the terminal should not be nearer than 300mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame or door frame (Fig. 7).

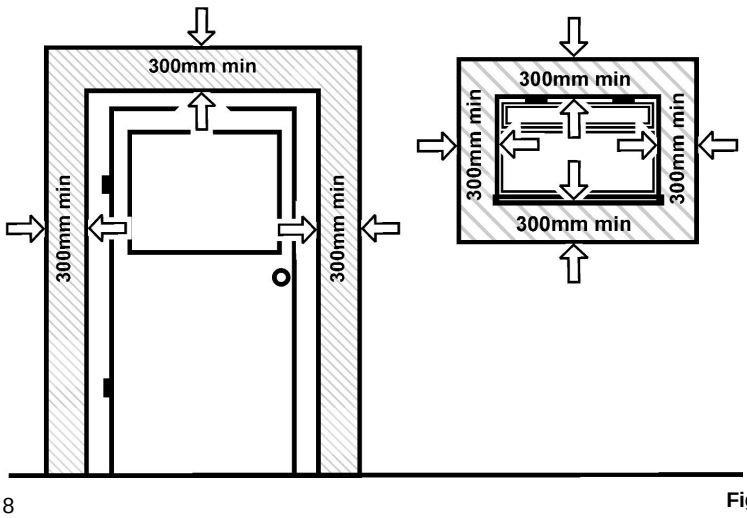


Fig. 7

a. Where the flue terminal 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 terminal shall be within 300mm (1 ft), measured vertically from the bottom of the opening.

b. Where the flue terminal of the appliance is less than 2m (6 ft) 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 terminal is situated, the terminal shall be protected by a guard.

c. The guard must be screwed to the wall over the flue terminal and be at least 50mm (2 in) clear of any part of the terminal. A suitable guard is available direct from Baxi Heating, Part No. 080266 (Fig. 5).

d. Not within 300mm (1 ft) of ground level.

2. Fig. 4 shows the positioning of the flue terminal relative to buildings and other structures.

3. 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 terminal so that it extends not less than 50mm (2 in) around the terminal. A 179mm (7 in) square or a 230mm (9 in) diameter circular plate will meet the requirement.

4. The flue should run horizontally, or with a slight drop to the terminal, in order to prevent rain entry (Fig. 6).

WARNING: 520-610mm Flues are not suitable for Cat I_{3+} (Butane/Propane) appliances

Flue Option	Brazilia F Gas Categories					
	Propane Cat I_{3P}		Natural Cat I_{2H}		Butane/Propane Cat I_{3+}	
Wall Thickness	F5 & F5S	F8S	F5 & F5S	F8S & F8ST	F5 & F5S	F8S
125mm-229mm (5in - 9in)	Part N° 225174	Part N° 243842	Part N° 225174	Part N° 243842	Part N° 225174	Part N° 243842
381mm-483mm (15in - 19in)	Part N° 225175	Part N° 243857	Part N° 225175	Part N° 243857	Part N° 225175	Part N° 243857
520mm-610mm (20½in - 24in)	Part N° 243849	Part N° 243848	Part N° 243849	Part N° 243848	**Not Available**	

3.0 Site Requirements

3.4 Flue Dimensions

1. The standard appliance is supplied with flue ducting which is adjustable to accommodate wall thicknesses from 248mm (9¾ in) to 349mm (13¾ in).

2. Three further flue terminals are available as optional extras to suit the wall thicknesses indicated in the table opposite.

3.5 Ventilation

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

2. It is intended for use in habitable rooms, and must not be fitted in cupboards or confined compartments.

3.6 Gas Supply

1. The inlet connection R¼ (¼ BSP external) is located on the gas tap at the bottom right hand side of the appliance.

2. 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 appliance, at least the first 51mm (2 in) from the inlet connection must run vertically downwards to avoid the outer case fouling the gas supply.

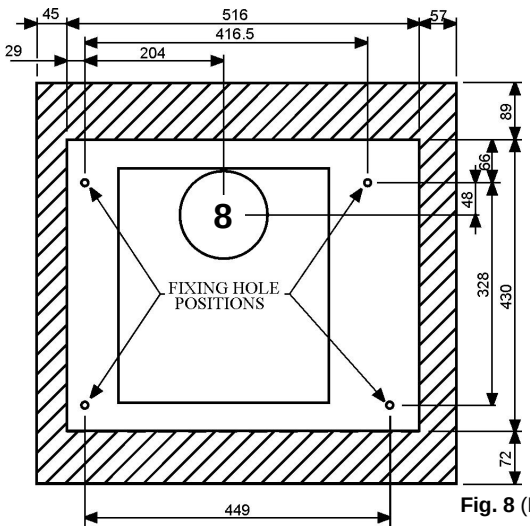


Fig. 8 (F 8S & F 8ST)

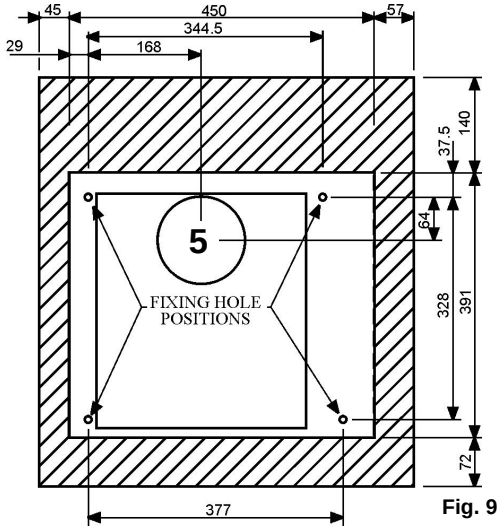


Fig. 9 (F 5 & F 5S)

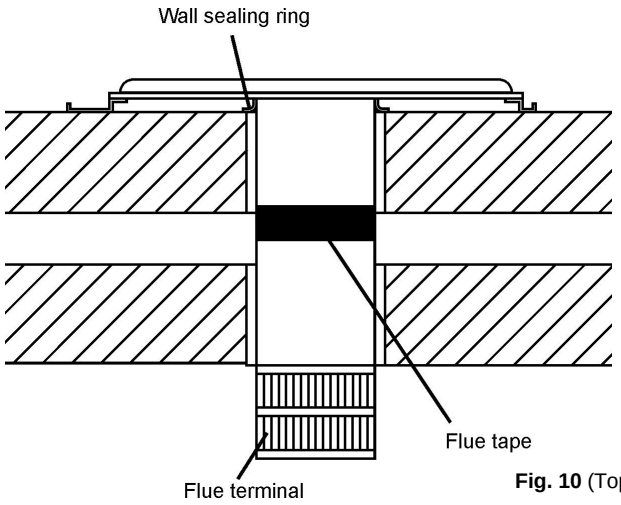


Fig. 10 (Top View)

4.0 Installation

4.1 Preparation

1. Ensure that the length of the flue ducting is suitable for the wall thickness.

2. Select a position for the appliance. Using the template supplied, mark the position of the flue ducting and the four fixing holes. Ensure that the template is vertical (Fig. 8 or 9 depending on model).

3. Cut a neat hole 127 - 140mm (5 - 5$^1/_2$ in) in the wall for the flue.

4. Drill and plug the wall at the four fixing holes using a 6mm ($^1/_4$ in) drill.

4.2 Fitting the Appliance

1. Slide the flue duct and terminal assembly into the flue outlet at the rear of the appliance. Ensure that the flue duct spotwelds are not at the bottom.

2. To determine the flue length, measure the wall thickness and add 20mm ($^3/_4$in). Adjust the distance from the back of the airbox and the joint between the terminal and air duct to this dimension. Using the length of flue tape provided fix this dimension by taping up the joint between the flue duct assembly and the flue outlet.

3. Offer the appliance up to the wall pushing the terminal and flue ducting through the wall.

4. Ensuring that the appliance is level, secure it to the wall using four suitable screws and washers. Check that the wall sealing ring is correctly positioned and seals against the wall (Fig. 10).

5. Ensure that the flue terminal protrudes sufficiently on the outside wall face (Fig. 10). Make good as appropriate.

6. Connect the gas supply incorporating a gas service cock and a disconnecting union between the service cock and the inlet connection.

7. Check for gas soundness (B.S. 6891).

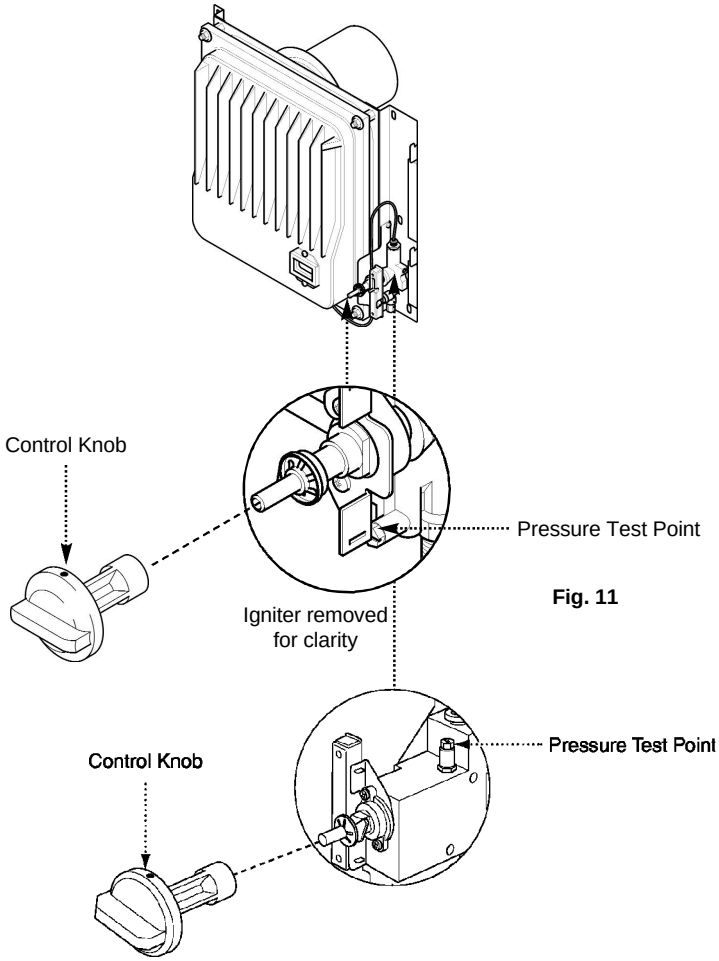


Fig. 11

N.G. Setting Pressure (Cold/High Rate)	
F5 & F5S 19.7 ± 0.75mbar (7.9 ± 0.3in wg)	**F8S** 19.25 ± 0.75mbar (7.7 ± 0.3in wg)
	F8ST Comfort Stat 17.25 ± 0.75mbar (6.9 ± 0.3in wg)

L.P.G. Setting Pressure (Cold/High Rate)	
F5 & F5S 36.5 ± 1mbar (14.6 ± 0.4in wg)	**F8S** 36.5 ± 1mbar (14.6 ± 0.4in wg)

Fig. 12

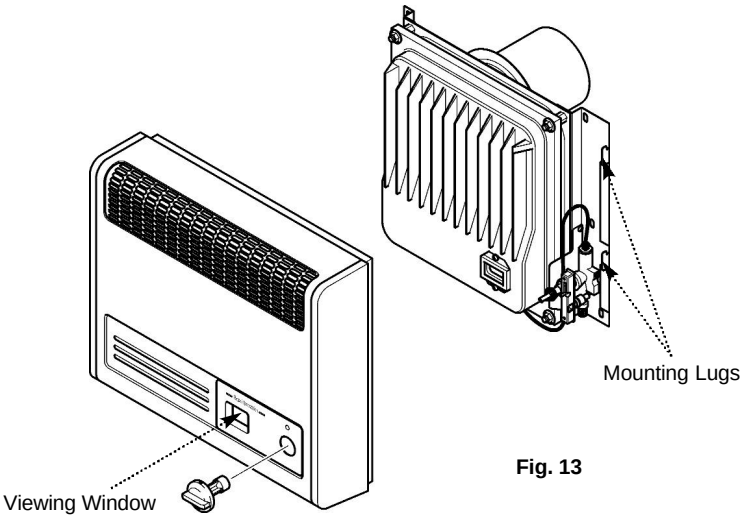


Fig. 13

5.0 Commissioning the Appliance

5.1 Commissioning the Appliance

1. Turn on the gas service cock.

2. Fit the control knob onto the control tap spindle (Fig. 11).

3. Purge any air from the system.

4. Remove the pressure test point screw. Fit a pressure gauge to the pressure test point (Fig. 11).

5. Push the control knob in and turn anticlockwise to the ignition (★) position. The main burner should light. Keep the control knob pushed in for 20 seconds. If the burner fails to remain alight repeat the procedure. Check that the gas supply is correct by measuring the pressure at the test point on the gas control tap.

6. No adjustment is provided on the appliance. If it is found that the test pressure is not within the tolerances given, consult the gas supplier.

7. Push in and turn the control knob back to the OFF position. Remove pressure gauge and replace the pressure test point screw.

8. Relight the appliance and check for gas soundness.

5.2 Fitting the Outer Case

1. Push in and turn the control knob back to the OFF position.

2. Remove the knob from the appliance by gently pulling the knob forward (Fig. 11).

3. Fit the outer case by locating the slots in the outer case rear strip onto the four mounting lugs on the wall brackets (Fig. 13).

4. Replace the control knob (Fig. 13).

5.3 Instructing the User

1. Explain how to ignite the appliance and alter the heat settings.

2. Show the position of the external gas service cock.

3. Instruct the user 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 appliance to dry as this will cause overheating and possible damage.

4. Hand over the User's and Installation and Servicing Instructions and recommend that for reasons of safety and economy the appliance should be serviced annually by a competent person.

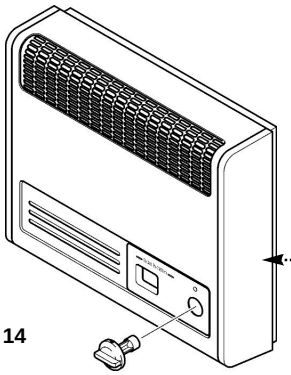


Fig. 14

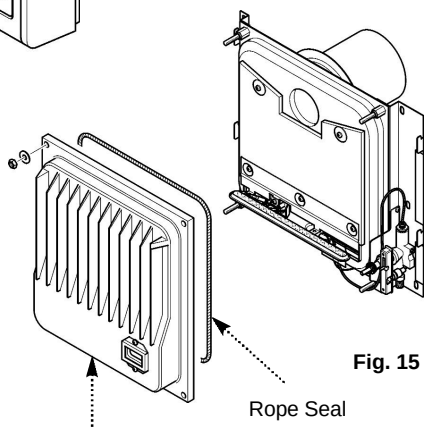


Fig. 15

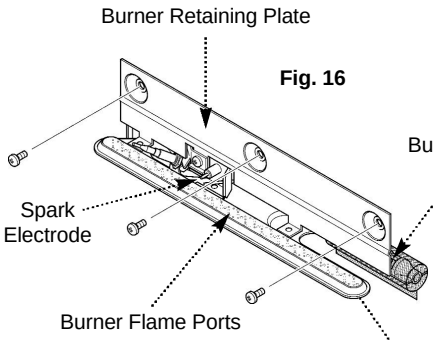


Fig. 16

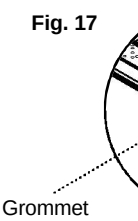


Fig. 17

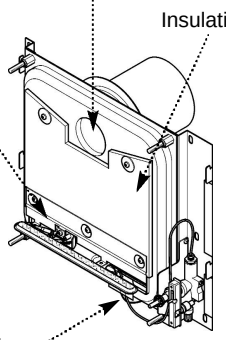


Fig. 18

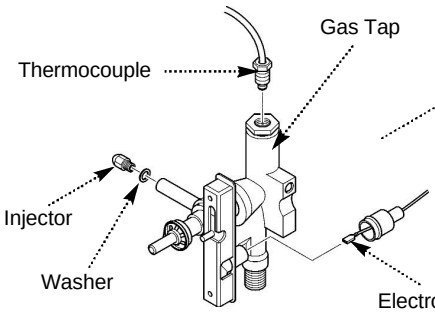


Fig. 19

6.0 Annual Servicing

6.1 Servicing the Appliance

1. For reasons of safety and economy the appliance should be serviced annually

2. Before servicing please read Section 1.3 Important Information.

3. Turn off the gas supply and ensure that the appliance is cold.

4. 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. 14).

5. Undo the heat exchanger retaining nuts and washers (Fig. 15) and draw the casting forwards off the locating studs.

6. Remove the three screws holding the burner retaining plate to the airbox and undo the thermocouple nut from the gas tap (Fig. 16 & 19).

7. Ease the thermocouple and electrode lead from the rubber grommet (Fig. 17).

8. Disengage the burner from the injector and pull the electrode lead off the spark electrode (Fig. 16).

9. Check that the insulation is undamaged. Replace if necessary. **(F 8S & F 8ST only - Check that the aluminium foil is undamaged. Replace if necessary)** (Fig. 18).

10. Remove and clean the injector and sealing washer. The injector must not be cleaned with a needle or wire (Fig. 19). If the sealing washer is damaged it must be replaced.

11. Check that the flue outlet tube is clear (Fig. 18).

12. Brush away any dirt from the heat exchanger casting. If necessary clean the viewing window.

13. With a light brush carefully remove deposits from the spark electrode, burner flame ports and the burner gauze (Fig. 16).

14. Replace the rope seal in the heat exchanger casting if it is damaged in any way (Fig. 15). Also examine the thermocouple and replace if necessary.

15. Re-assemble the injector, washer and burner assembly in reverse order of dismantling. Ensure that the spark gap is correct ie. 3.5mm ± 0.5mm. Check that the burner is horizontal and correctly positioned on the injector with the gauze covering the primary aeration hole.

16. Check the gas pressure at the test point on the gas control tap. If the pressure is not within the tolerance, (see Section 2.0 Technical Data) the gas supply to the unit needs to be investigated.

17. Check that the burner ignition is satisfactory. Ensure that the thermocouple/electrode lead grommet is correctly positioned and re-fit the heat exchanger casting.

18. Check for gas soundness.

19. Fit the case and control knob and re-check that the ignition is satisfactory.

Fig. 20

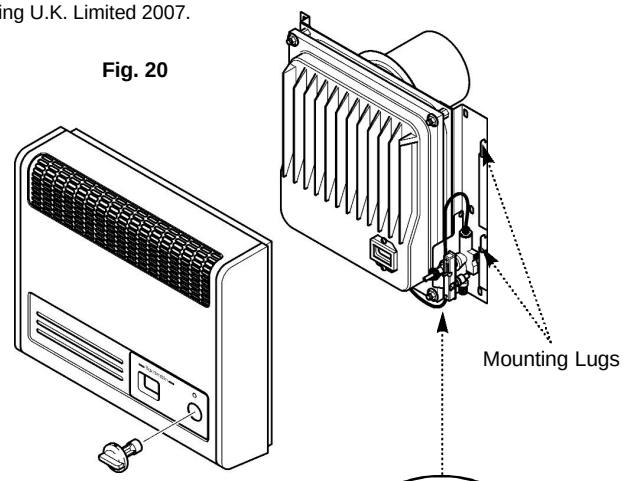


Fig. 21

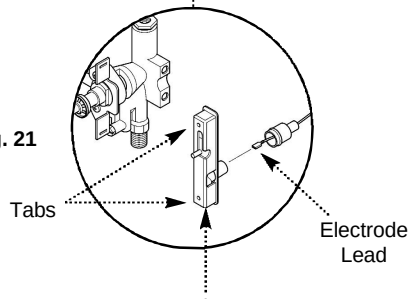


Fig. 22

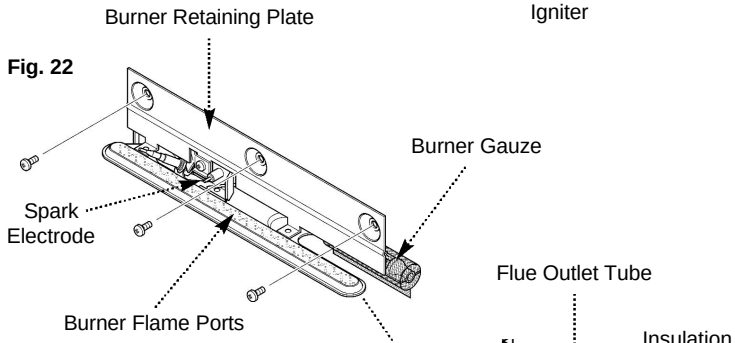


Fig. 23

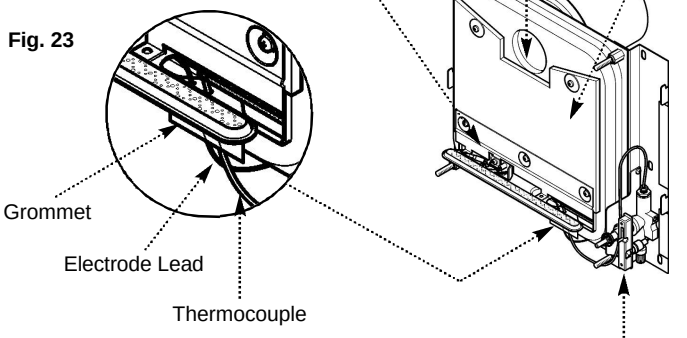
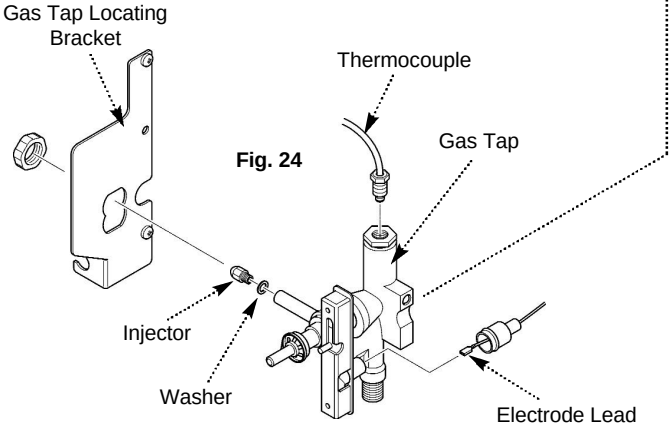


Fig. 24



7.0 Changing Components

7.1 Changing Components

1. Before changing any components please read Section 1.3 Important Information.

2. Turn off the gas supply and ensure that the appliance is cold.

3.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. 20).

4. After changing any components re-commission the appliance

7.2 Piezo Unit (Fig. 21).

1. Pull off the spark lead at the rear of the igniter.

2. Straighten the tabs securing the piezo unit to the tap retaining plate and remove.

3. Fit the new piezo unit and twist the tabs slightly to secure.

4. Replace all components in the reverse order of dismantling.

7.3 Gas Control Tap or Thermostat

1. Undo the heat exchanger retaining nuts and washers and draw the casting forwards off the locating studs.

2. Remove the three screws holding the burner retaining plate to the airbox and undo the thermocouple nut from the gas tap (Fig. 22 & 24).

3. Ease the thermocouple and electrode leads from the rubber grommet (Fig. 23).

4. Disengage the burner from the injector and pull the electrode lead off the spark electrode (Fig. 22).

5. Pull off the spark electrode lead at the rear of the igniter (Fig. 24).

6. Remove the supply pipe from the gas tap.

7. Undo the nut holding the gas tap to its retaining bracket, and disengage the tap from the bracket (Fig. 24).

7a.Undo the screw holding the thermostat locating bracket to the fire body, and disingage the thermostat from the fire.

8. Remove the injector and sealing washer. If the washer is damaged it must be replaced.

9. On re-assembly ensure that the airbox sealing grommet is correctly positioned and check for gas soundness.

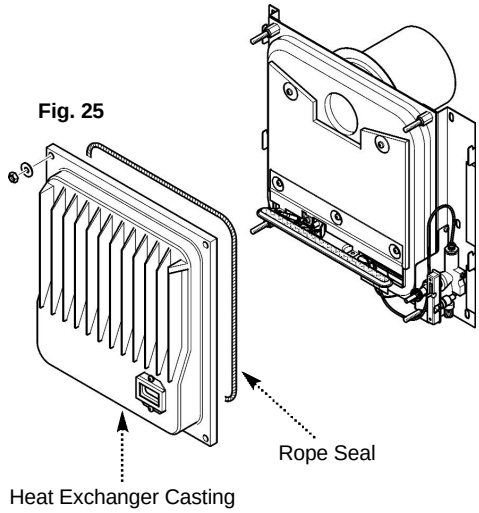


Fig. 25

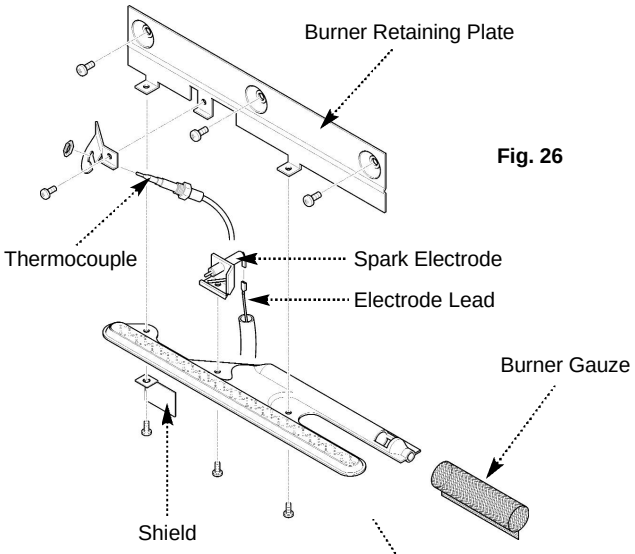


Fig. 26

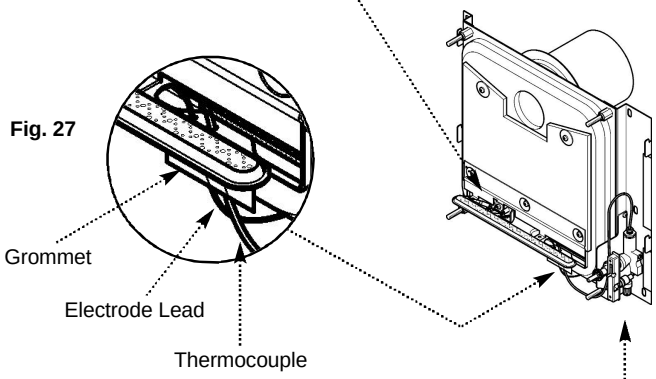


Fig. 27

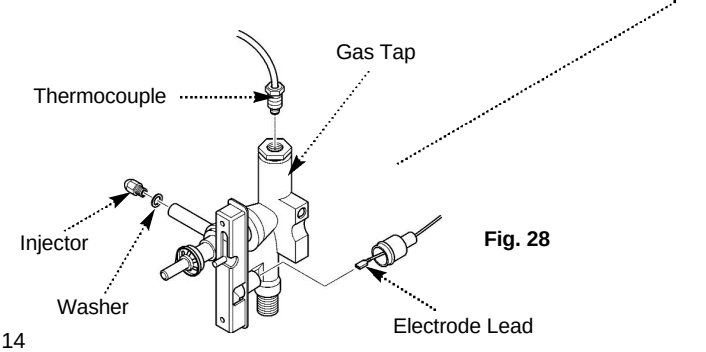


Fig. 28

7.0 Changing Components

7.4 Burner

1. Undo the heat exchanger retaining nuts and washers and draw the casting forwards off the locating studs (Fig. 25).

2. Remove the three screws holding the burner retaining plate to the airbox, also remove the insulation and undo the thermocouple nut from the gas tap (Fig. 26 & 28).

3. Ease the thermocouple and electrode lead from the rubber grommet (Fig. 27).

4. Disengage the burner from the injector and pull the electrode lead off the spark electrode (Fig. 26).

5. Remove the intake gauze from the burner inlet and undo the screws securing the burner to its' retaining plate, noting the position of the shield at the left hand side (Fig. 26).

6. Undo the screw securing the spark electrode to the burner. Fit the electrode to the new burner (Fig. 26).

7. Fit the intake gauze to the burner inlet ensuring that it covers the primary aeration hole (Fig. 26).

8. Reassemble in reverse order of dismantling.

7.5 Injector

1. Remove the burner as described in sections 7.4.1 to 7.4.4 .

2. Undo the injector and sealing washer, retaining the washer for use with the new injector. If the washer is damaged it must be replaced.(Fig. 28).

3. Reassemble in reverse order of dismantling.

7.6 Thermocouple

1. Remove the burner as described in sections 7.4.1 to 7.4.4 .

2. Undo the nut retaining the thermocouple tip to the burner bracket and withdraw the thermocouple (Fig. 26).

3. Bend the new thermocouple in a similar manner to the one removed. Avoid any sharp bends.

4. On reassembly ensure that the airbox sealing grommet is correctly positioned.

Ensure all installation criteria have been satisfied before performing Fault Finding (e.g. flue terminal position).

8.0 Fault Finding

START

Does the appliance ignite ?

YES

Does the appliance remain alight ?

YES

Appliance satisfactory

NO

Is there a spark at electrode ?

YES

Is the spark gap correct ? (3.50.5mm)

NO

Correct spark gap

NO

Is thermocouple in correct position ? (see fig. 28)

NO

Reposition thermocouple

YES

Check supply pressure

YES

Are gas taps or cocks fully open ?

NO

Open taps or cocks fully

NO

Is the piezo igniter firing ?

YES

Replace piezo unit

NO

Is gas supply turned on ?

YES

Turn on gas

NO

Is there adequate gas pressure ?

NO

Consult gas supplier

YES

Are connections and electrode lead sound ?

YES

Ignition system O.K.

NO

Replace electrode lead or remake connections

Is supply pressure correct ?

YES

Ignition system O.K. Check burner etc.

NO

Make good connections

Are thermocouple connections good ?

YES

Is thermocouple output correct ? (8-13mV)

NO

Replace thermocouple

YES

Is thermocouple in good clean condition ?

YES

NO

Clean or replace as necessary

YES

Replace mag valve in tap

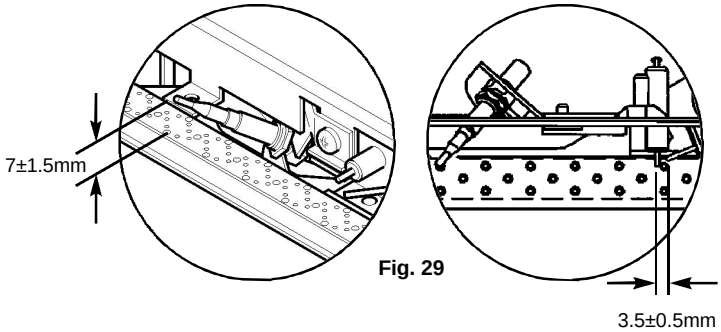
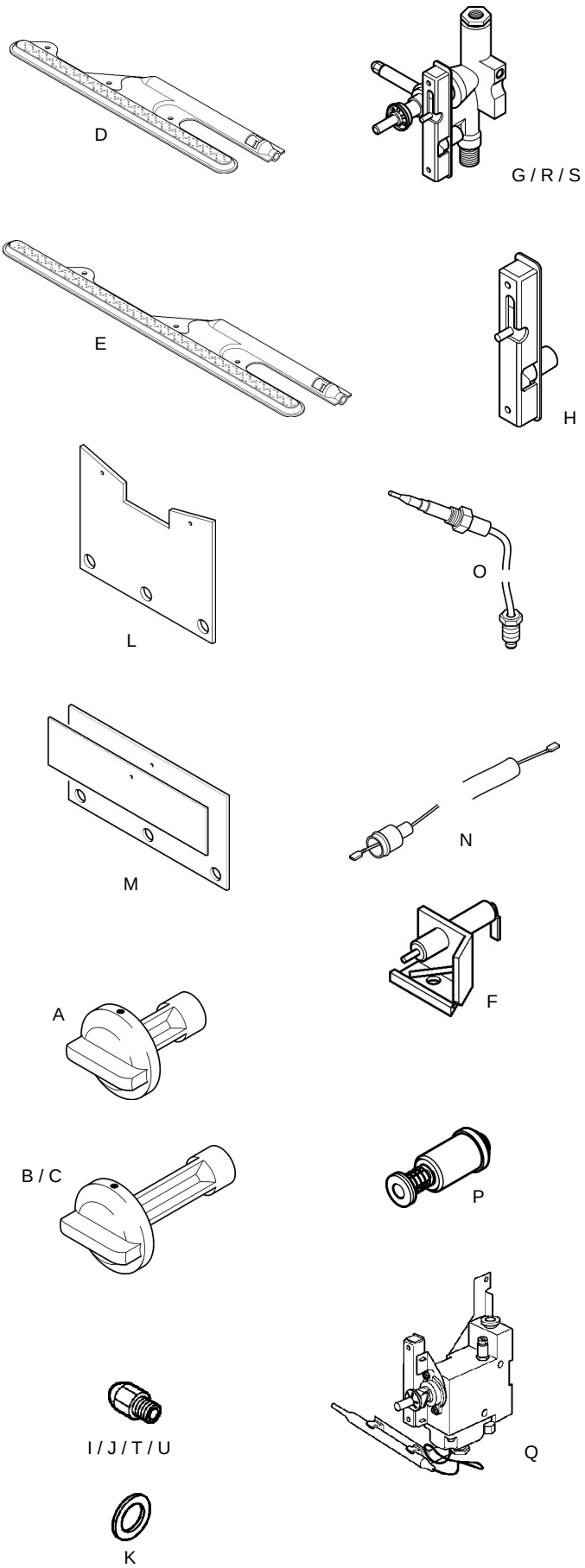


Fig. 29



9.0 Short parts list

Key No.	G.C. No.	Description	Manufacturers Part No.
A		Knob Control (F 5 / F 5S)	
	E26513	Grey	243262
	205887	Beige	234637
B		Knob Control (F 8S)	
	E26568	Grey	243261
	205894	Beige	234643
C		Knob Control (F 8ST)	
	E94629	Beige	3002698
D	205837	Burner (F 5 / F 5S)	224041
E	205864	Burner (F 8S / F 8ST)	223963
F	205873	Electrode Spark	223940
G	E01357	Igniter/Gas Tap (F 5 / F 5S)	243194
	E01358	Igniter/Gas Tap (F 8S)	243202
H	393734	Piezo Igniter/Generator	042941
I	381941	Injector (F 5 / F 5S)	224047
J	381942	Injector (F 8S / F 8ST)	224104
K	205791	Washer (For injector)	082365
L	205844	Insulation (F 5 / F 5S)	224048
M	E01359	Insulation (F 8S / F 8ST)	223971
N	155654	Lead Electrode	043043
O	E01360	Thermocouple	243215
P	384248	Tap Mag Unit (Not F 8ST)	082462
Q		Thermostat / Gas Control	
	E94622	& Bracket Assy	3002927

For LPG models only

R		Igniter / Gas Tap Assy. LPG	
	E26556	(F 5 / F 5S)	243195
S		Igniter / Gas Tap Assy. LPG	
	E26574	(F 8S)	243203
T		Injector LPG	
	E26522	(F 5 / F 5S)	243295
U		Injector LPG	
	E23577	(F 8S)	243296

10.0 Notes

10.0 Notes

Baxi Heating Ltd manufacture a comprehensive range of products for the domestic heating market.

Gas Central Heating Boilers
(Wall, Floor and Fireside models).

Independent Gas Fires.

Renewal Firefronts.

Gas Wall Heaters.

Solid Fuel Fires.

If you require information on any of these products, please write, telephone or fax to the Sales Department.

The Baxi Helplines

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