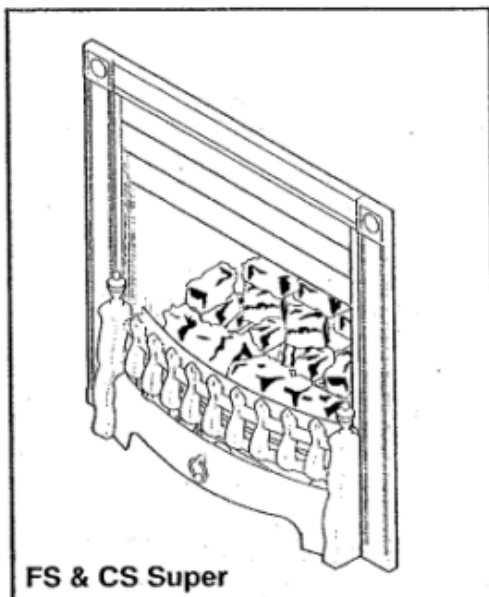
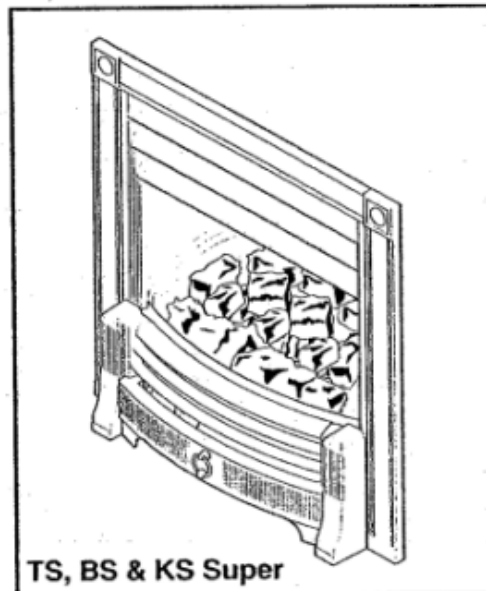


Baxi Bermuda Inset 2 Super

Fireside Gas Central Heating Units

Installation and

Servicing Instructions



BAXI

Please leave these instructions with the user

Page 1

Natural Gas

Baxi Bermuda Inset 2 BS Super G.C.No. 37 075 40

Baxi Bermuda Inset 2 TS Super G.C.No. 37 075 41

Baxi Bermuda Inset 2 KS Super G.C.No. 37 075 42

Baxi Bermuda Inset 2 FS Super G.C.No. 37 075 43

Baxi Bermuda Inset 2 CS Super G.C.No. 37 075 44

For use with the following boiler:

Baxi Bermuda Inset Boiler 50/4 E G.C.No. 44 075 03

Baxi Limited 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

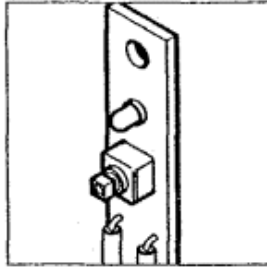
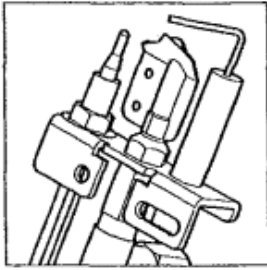
shareholders, we know that satisfied customers mean continued success.

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

Baxi is a BS-EN ISO 9001 Accredited Company

Page 2

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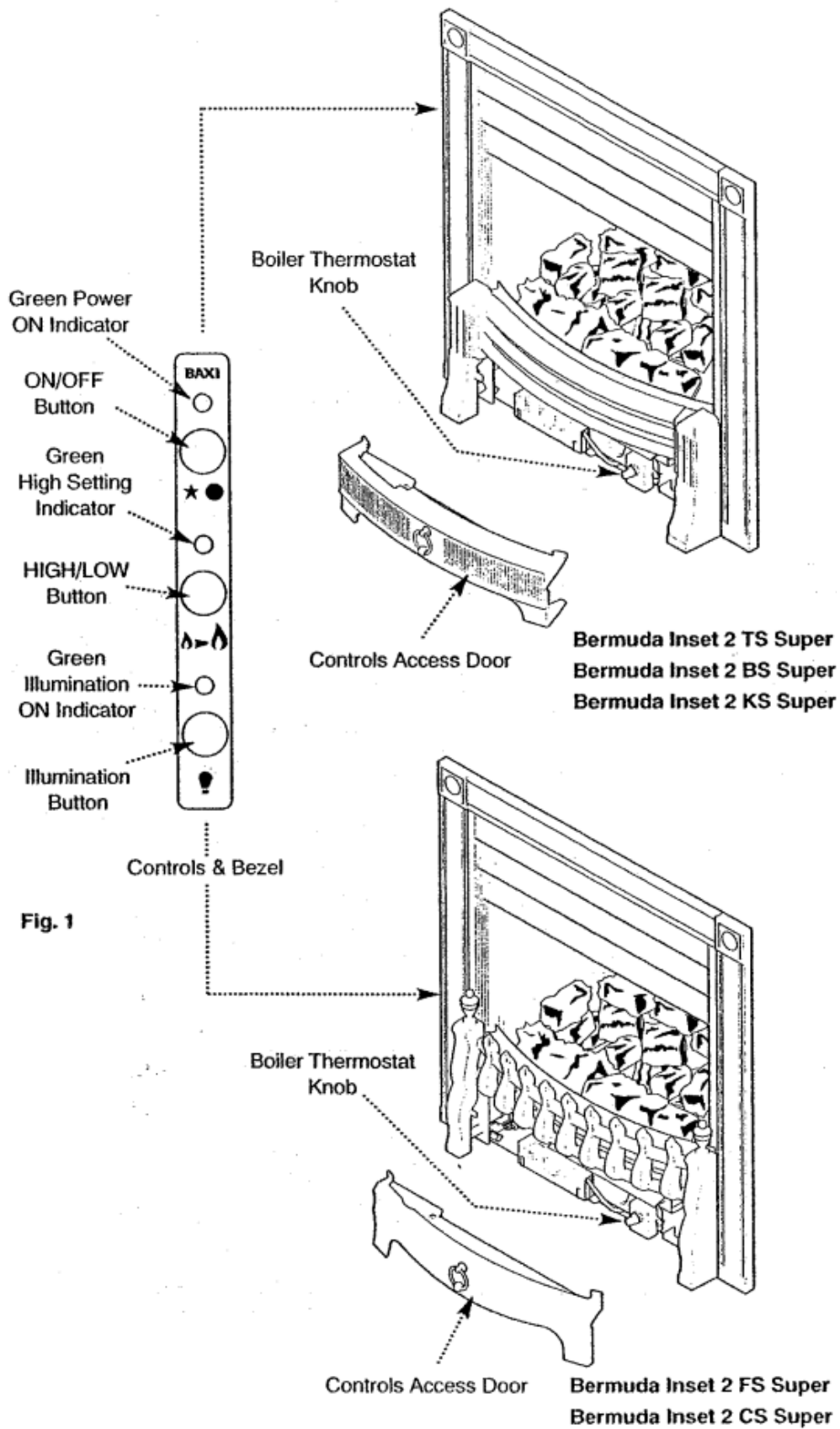


Fig. 1

1.1. Description

1. Your Baxi Bermuda Inset 2 Super is a central heating boiler combined with a gas fire. The firefront is

of the Decorative Fuel Effect type and incorporates an optional illumination effect for use when the fire is off. The boiler will provide heating for the rest of the house and also domestic hot water if required. The boiler and fire are independently controlled.

2. The boiler and fire unit is designed to be used on Natural Gas only.

3. The fire is controlled by three switches situated on the upper left hand side of the fire surround ([Fig. 1](#)). The fire has three settings:

OFF LOW HIGH

4. The boiler controls are located behind the controls access-door.

5. The boiler may be controlled by an external programmer or clock control (see separate instructions with the clock controller used). Manual control is available with the boiler thermostat control.

NOTE: The fire or illumination effect will not function in the event of a power failure.

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 "INSTALLATION OF GAS APPLIANCES". The installation must be carried out by a CORGI Registered Installer or other competent person and be in accordance with the relevant requirements of current GAS SAFETY (Installation and Use) REGULATIONS, the BUILDING REGULATIONS (Scotland) (Consolidation), the LOCAL BUILDING REGULATIONS, the CURRENT I.E.E. WIRING REGULATIONS and the bye laws of the Local Water Undertaking. Where no specific instructions are given, reference should be made to the relevant BRITISH STANDARD CODES OF PRACTICE.

2. These Instructions must be read in conjunction with those for the Boiler Section before installing or using this appliance.

1.3 Important Information

This product uses fuel effect pieces containing Refractory Ceramic Fibres (R.C.F.) which are man-made vitreous silicate fibres. Excessive exposure to these materials may cause temporary irritation to eyes, skin and respiratory tract. Care must be taken when handling these articles to ensure the release of dust or fibres is kept to a minimum.

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 cigarette smoke or other contaminants exist.

Page 4

2.0 Technical Data

Bermuda Inset 2 TS Super

Bermuda Inset 2 BS Super

Bermuda Inset 2 FS Super

Bermuda Inset 2 KS Super

Bermuda Inset 2 CS Super

The fire is set for Gas Type G20 at 20mbar.

Heat Input	High	Low
kW	6.52	4.1
Btu/h	22,259	13,989
Setting Pressure	Cold	
mbar	10.5	
in wg	4.2	
Thermocouple Output	9.5 - 10.5 mv	

Gas Connection The gas supply is provided from the service cock on the boiler unit

Electrical Supply 230V -- 50Hz 65W Supplied from boiler electrical socket. Fused 5A in boiler external supply.

Controls Automatic control system with flame failure and atmospheric sensing device.

Gas Rate 0.62 m³/h (21.95 ft³/h)

(after 10 mins)

Installation

Lifting Weight 8.8 kg (19.4 lbs)

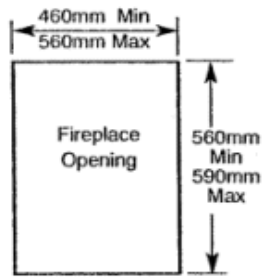
Outercase Dimensions	Height	605mm
	Width	583mm
	Depth (from the wall)	103mm

B.S. Codes of Practice

STANDARD.	SCOPE
B.S. 6891	Gas Installation
B.S. 5546 .	Installation of hot water supplies for domestic purposes.
B.S. 5449	Forced circulation hot water systems.
B.S. 6798	Installation of gas fired hot water boilers.
B.S.5440:-Pt:1	Flues
B.S. 5440:.Pt 2	Air Supply
B:S. 5871: Pt I	Installation of fire/back boilers, gas appliances.
B.S. 6500	Cables.

NOTE: All illustrations show the Inset 2 TS Super. The procedure for Installation, Commissioning, Servicing etc. is the same for all Bermuda Inset 2 Super models.

3.0 Site Requirements



Fireplace Opening

Fig. 2

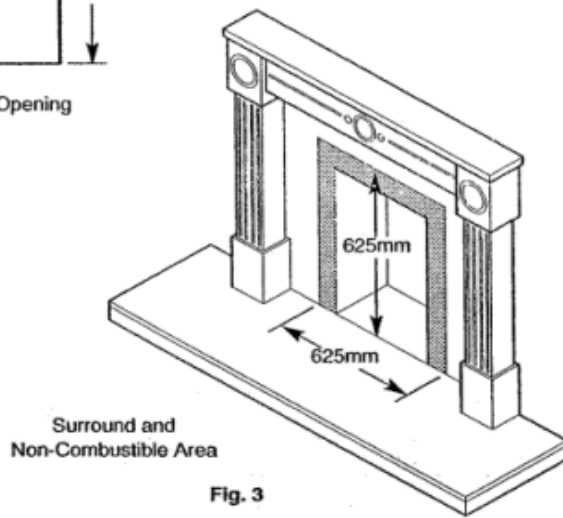


Fig. 3

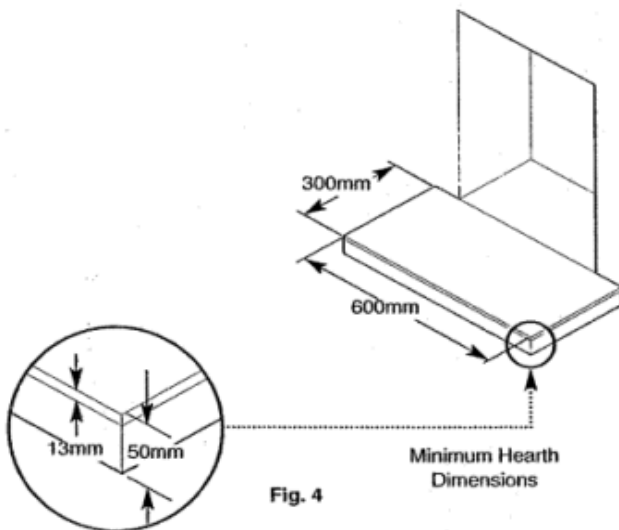


Fig. 4

Minimum Hearth Dimensions

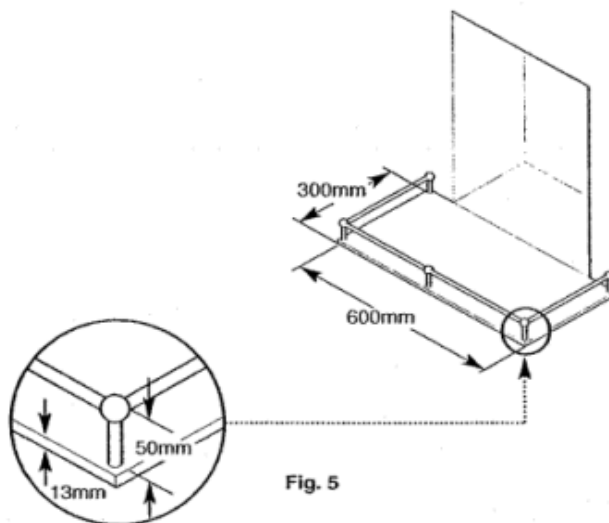


Fig. 5

Fig. 2,3,4,5

3.1 Fireplace Opening

1. The principal site requirements are determined by the boiler unit, but the following details are essential for the correct installation of the fire unit:

Fireplace Opening ([Fig. 2](#)):

Height:	560mm (22in) min
	590mm (23 15/64in) max
Width	460mm (18in) min
	560mm (22in) max

NOTE: The wall or surround behind the fire must be non-combustible.

Non-Combustible area ([Fig. 3](#)):

Height	625mm (24 19/32in)
Width	625mm (24 19/32in)

2. Any gaps between the wall and the surround must be sealed. A shelf, not projecting more than 178mm (7in), may be fitted at least 126mm (5in) above fire or 180mm (7 1/8in) for 229mm (9in) deep shelf.

3.2 Hearth Mounting

1. The fire unit is intended to be hearth mounted. The hearth must be of a non-combustible material at least 13mm (1/2in) thick and measuring at least 300mm (12in) deep by 600mm (23 5/8in) wide and fitted centrally about the fireplace opening. The top surface of the hearth should be a minimum of 50mm (2 in) above floor level and must be level with the base of the builders opening ([Fig. 4](#)).

2. On no account should the fire unit be fitted directly onto a combustible floor or carpet.

3. Alternatively, a fender rail or upstanding edge of 50mm (2in) height can be fitted to the periphery of the 13mm (1/2in) non-combustible hearth ([Fig. 5](#)).

NOTE: If the firefront must be wall mounted, it is still necessary to fit a hearth of the dimensions shown.

Page 6

3.3 Ventilation

1. Ventilation air supply to BS 544.0 Pt 2 is required. The permanent ventilation area size requirements are as shown:

80.1 cm² 12.42 in²

2. The permanent vent may be directly into the room containing the appliance. The vent may also be sited in another (not a bedroom, toilet, bathroom or kitchen) room provided an interconnecting vent is used.

3. The vent must not be installed inside the builders opening. The vent should be sited following good practice for a habitable room.

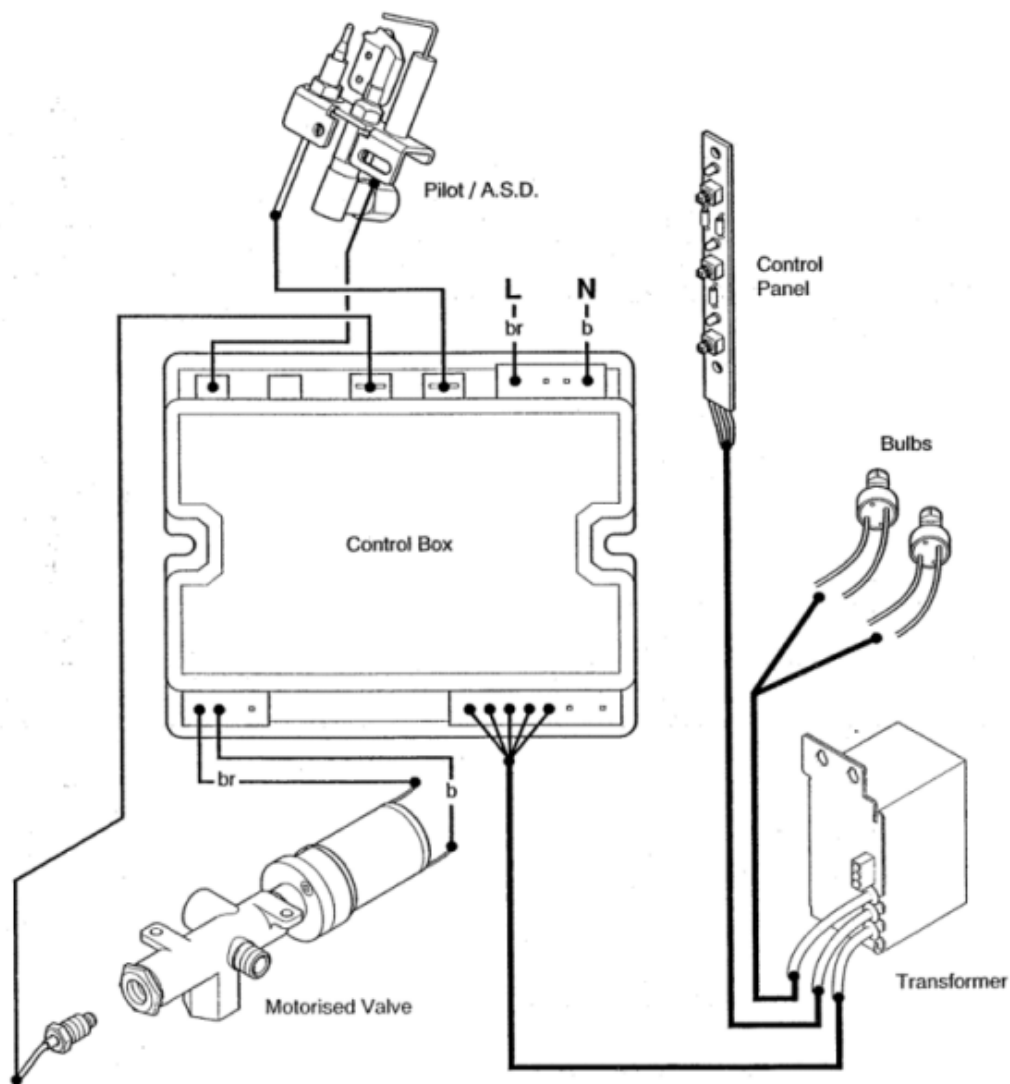
4. We recommend the use of the Stadium BM720 "Black Hole" ventilator which is available from your local merchant.

3.4 Gas Supply

1. The gas installation should be in accordance with BS6891. The gas supply to the fire is provided from the service cock on the boiler using the supply pipe provided in the fire kit. The pipe is the correct length and will not need shortening.

Page 7

4.0 Electrical



Wiring Key

b - Blue

br - Brown

4.1 Electrical Supply

1. Electricity is supplied to the fire unit via the plug and cable assembly provided with the fire.
2. The cable must be connected to the 4 pin plug and socket on the boiler.

NOTE: The method of connection to the electrical supply must facilitate complete electrical isolation of the appliance. Connection may be made via a fused double pole isolator with a contact separation of at least 3mm on all poles and serve the appliance and system controls only.

WARNING: The appliance must be earthed. The input cable for the appliance should be

0 7Smm2 to IEC Code 27 (heat resistant)

Page 8

5.0. Installation

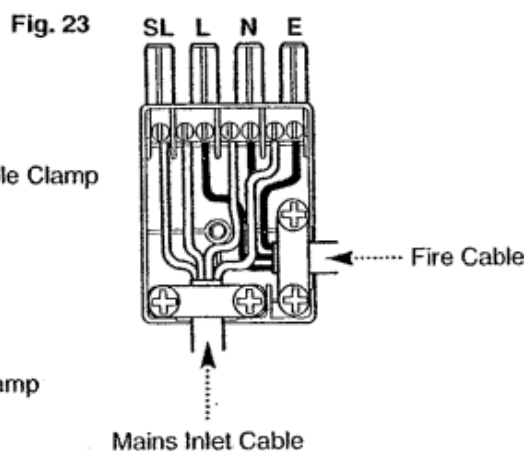
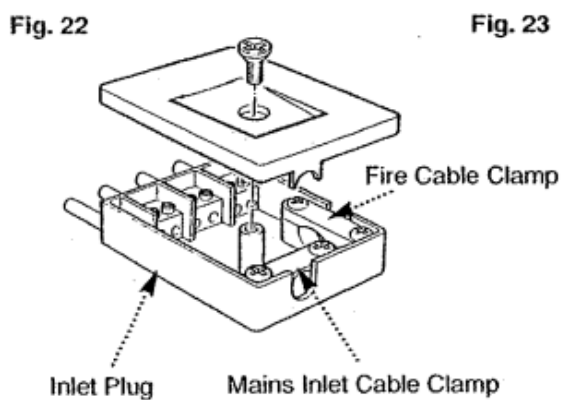
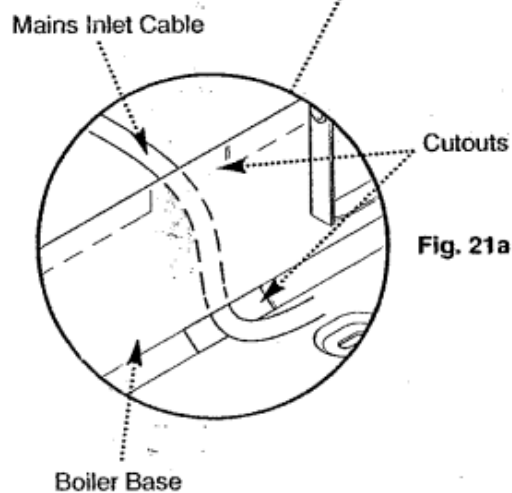
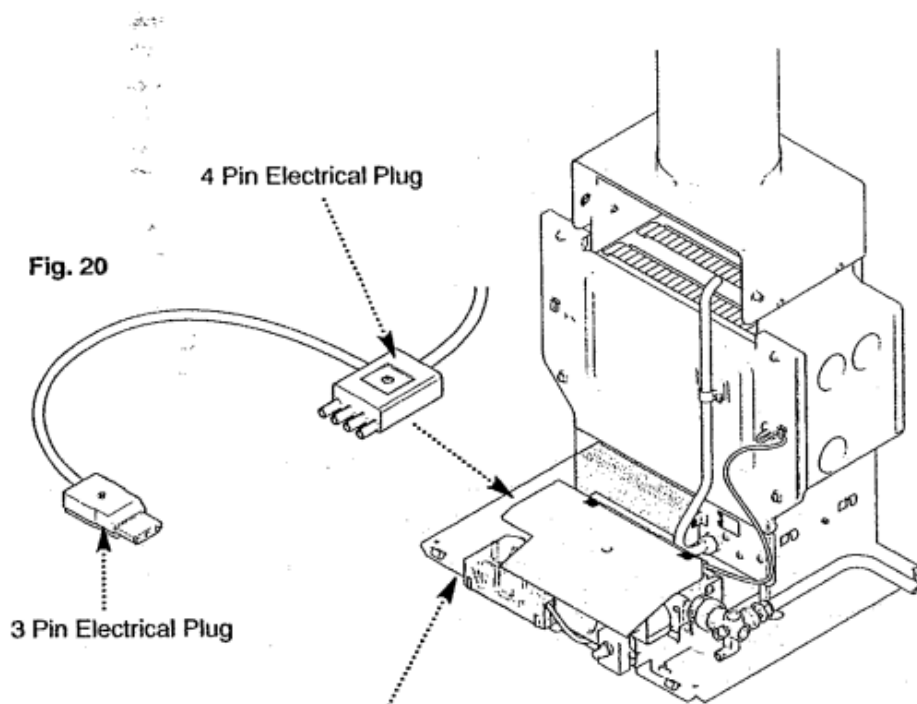


Fig. 20,21,21a,22,23

5.1 Initial Preparation

1. Unpack the fire unit from the carton. The coal bed and fender assemblies are packed in individual

boxes within the main carton and should be left in these until required.

2. Remove the instructions and other literature from the combustion box together with the contents kit and glass pack.

5.2 Electrical Connection

All external wiring must be in accordance with current IEE regulations.

1. The appliance requires an electrical supply from the heating controls system.

2. A permanent live is required to supply the firefront.

WARNING: The appliance must be earthed. The input cable for the appliance should be 0.75mm² to IEC Code 227 (heat resistant). The system external controls and the appliance must be supplied by the same isolator.

5 3 Making the Electrical Connection

1. Take the 3 pin plug and lead assembly and the 4 pin plug from the gas fire contents kit.

2. Remove the cover from the 4 pin plug and undo the cable clamps ([Fig. 22](#)).

3. Route the mains inlet cable under the boiler base through the cutouts ([Fig. 21a](#)).

IMPORTANT: The mains inlet cable **MUST** be routed under the boiler base to ensure that it cannot interfere with the transformer box on the fire front.

4. Connect the cables as indicated ([Fig. 23](#)):

Mains Inlet cable:

Permanent live to L

Controls system switched live to SL Control system neutral to N

Earth to 

Fire cable:

Brown (live) to L

Blue (neutral) to N

Green and Yellow (earth) to 

Re-fit the cable clamps ensuring that the outer insulation is securely held and re-fit the plug cover.

Ensure that all cables are routed away from the boiler casing and hood.

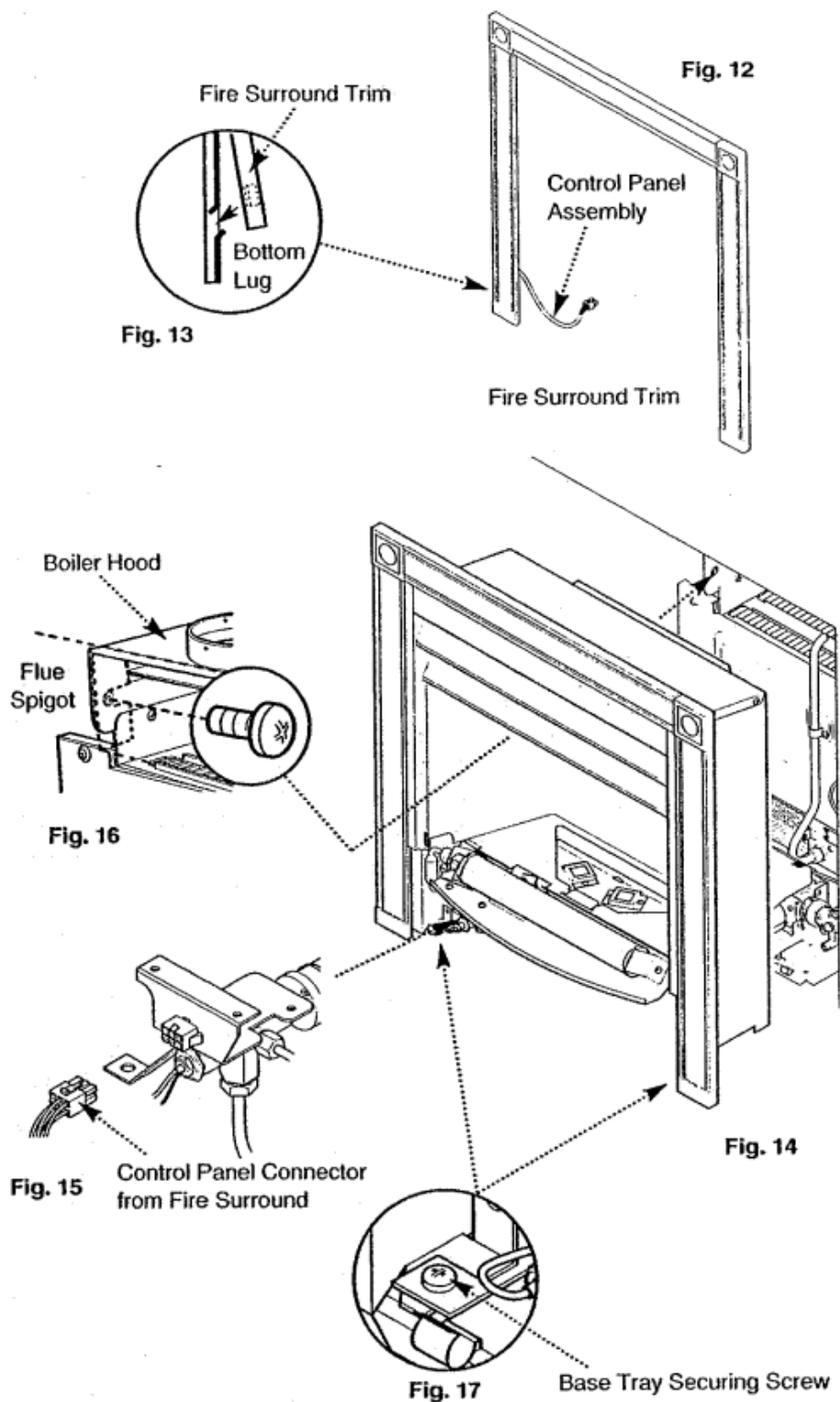


Fig. 12,13,14,15,16,17

5.4 Fitting the Fire

1. Remove the fire surround trim from its poly bag ([Fig. 12](#)). The fire surround should be handled with care.
2. Position the fire surround trim around the fire combustion box and lower it into position, taking care not to trap the cable from the control panel assembly, ensure that the top lugs locate on to the top of the

fire combustion box and the bottom lugs locate into the slots in the sides of the combustion box ([Fig. 13](#)).

3. Insert the plug connector from the control panel assembly into the socket on the front of the valve bracket ([Fig. 15](#)).

4. Position the fire on to the boiler base and slide back, ensuring that the flue spigot locates into the draught diverter on the boiler. Push the fire back into the opening. Look through the fire to align the two slots in the flue spigot with the holes in the boiler hood ([Figs. 14 & 16](#)).

5. Fit and tighten the two screws that secure the fire combustion box to the front corners of the boiler base tray ([Fig. 14 & 17](#)).

6. Fit the two screws inside the fire flue spigot. Push the fire back and tighten the two screws. ([Fig. 16](#)).

7. Fit the fire gas supply pipe at the motorised valve inlet ([Fig. 18](#)).

8. Fit the fire gas supply pipe to the gas service cock on the right hand side of the boiler base ensuring gas soundness is done at both connections on the gas supply pipe [Fig. 20](#).

9. Connect the electrical supply to the fire from the boiler ([Fig. 19](#)).

Page 10

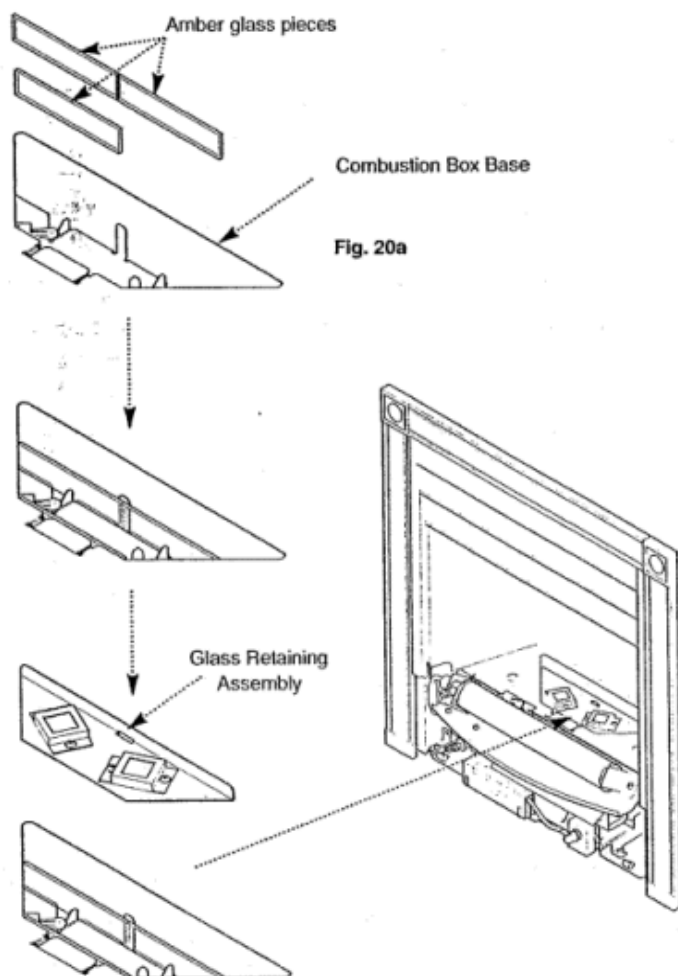
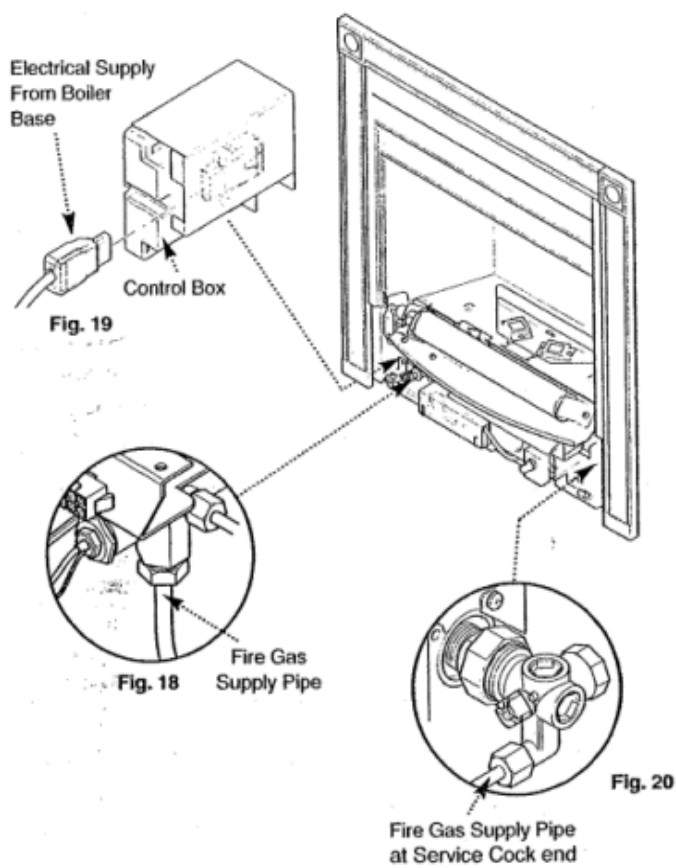


Fig. 18,19,20,20a

5.4 Fitting the Fire (continued)

7. Fit the fire gas supply pipe at the motorised valve inlet ([Fig. 18](#)).
8. Fit the fire gas supply pipe to the gas service cock on the right hand side of the boiler base ensuring gas soundness is done at both connections on the gas supply pipe ([Fig. 20](#)).
9. Connect the electrical supply to the fire from the boiler ([Fig. 19](#)).
10. Unpack the glass and fit two of the amber pieces vertically between the tabs at the rear, and the remaining one between the two bulbs at the front ([Fig. 20a](#)).
11. Lay the glass retaining assembly into the opening in the fire box, locating the slot over the central back tab.

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6.0 Arranging the Coals

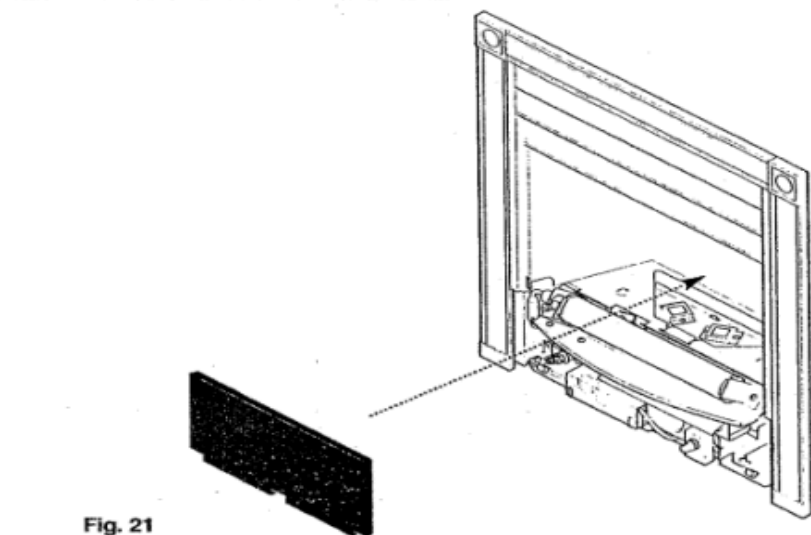


Fig. 21

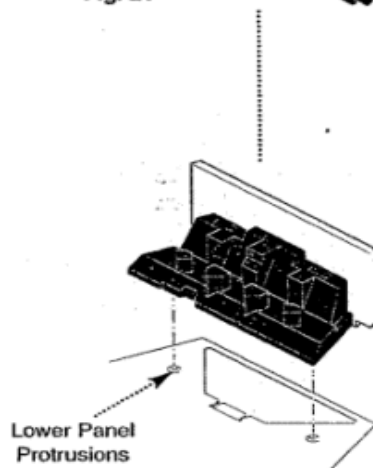


Fig. 22

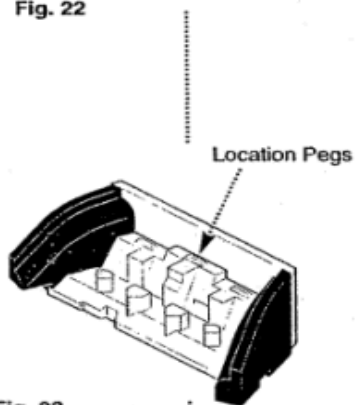


Fig. 23

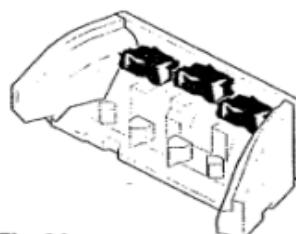


Fig. 24

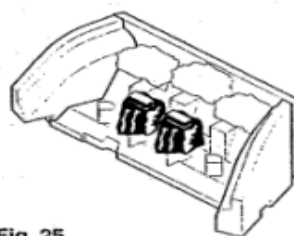


Fig. 25

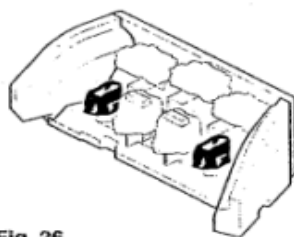


Fig. 26

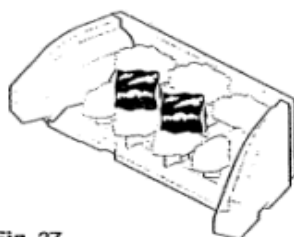


Fig. 27

Fig. 21,22,23,24,25,26,27

6.1 Arranging the Coals

Before arranging the coals ensure that the transit packing is removed from inside the fire. It is important that all the coals are used and arranged as shown in order to achieve the desired flame picture.

1. Turn on the electricity supply and press the  button to check that the illumination effect operates.
2. Remove the coals, side cheeks, back piece and underbed from their protective packaging and place them on a newspaper or similar to prevent soiling furnishings.

CAUTION: The coals are extremely fragile and must be handled accordingly. Gloves should be worn and any inhalation of the dust should be avoided. Keep the coals away from children at all times. Never use coals other than those originally supplied or Genuine Baxi Spare Parts. Never put additional coals on the fire. Please read [section 1.3](#) Important Information.

3. Place the back piece vertically in the combustion box against the rear panel. The edges are chamfered to accommodate the combustion box sides ([Fig. 21](#)).
4. Position the coal underbed centrally in the combustion box locating the bed on to the two protrusions on the lower panel ([Fig. 22](#)).
5. Locate the cut-outs in the side cheeks over the profile of the underbed ([Fig. 23](#)).
6. Take the three coals with the groove in the lower faces and place them on to the location pegs on the back ridge ([Fig. 23](#) & [24](#)).

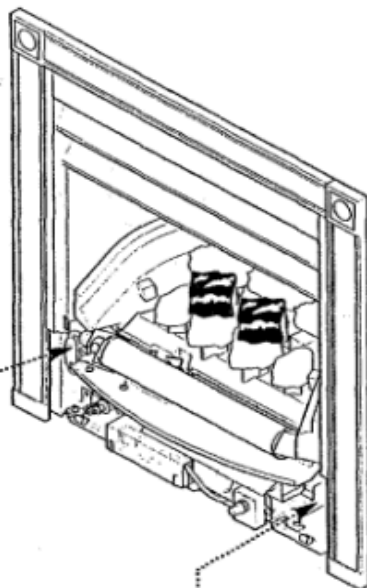
N.B. When located there is a gap between the back face of the three coals and the back piece.

7. The two medium sized coals ([Fig. 25](#)) have location pegs on their upper faces and shaped indentations on their underside. These should be located on the like-shaped inner pegs on the underbed.
8. The two small coals ([Fig. 26](#)) have shaped indentations on their underside. These should be located on the like-shaped outer pegs on the underbed.
9. The two medium sized coals ([Fig. 27](#)) have shaped indentations on their underside. With the indentations towards the centre these should be located on the like-shaped pegs on the coals fitted in paragraph 7 above.
10. At this point before continuing to complete Arranging the Coals it is necessary to check the fire gas pressure.

Pressure Test Point
Sealing Screw



Fig. 29



Green Power
ON Indicator

ON/OFF
Button

Green
High Setting
Indicator

HIGH/LOW
Button

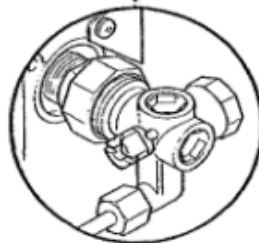
Green
Illumination
ON Indicator

Illumination
Button



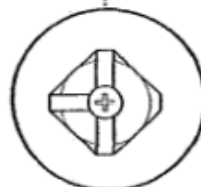
Controls & Bezel

Fig. 30



Gas Service Cock

Fig. 28



Fire and Boiler
ON Position

6.2 Commissioning the Fire

1. Turn on the main gas and electrical supply.
2. Turn the gas service cock to the fire and boiler on position as shown, then purge any air from the fire supply pipe ([Fig. 28](#)).
3. Check for gas soundness from the gas service cock to the fire inlet connection. (BS 6891).
4. Release the pressure test point sealing screw from the injector adaptor and connect a pressure gauge ([Fig. 29](#)).
5. The fire has three settings:-

OFF LOW HIGH

6. The ON button has a safety feature built in. It should be pressed and held for 3-4 seconds. (The green power ON indicator comes on when the ON/OFF button is pressed.)
7. During the ignition sequence you will hear an audible signal. This lasts for up to 20 seconds. The fire will then automatically ignite on the low setting.

NOTE: If the ON/OFF button is pressed and held for less than 3 seconds the fire will not ignite. This is a built in safety feature.

8. If the fire fails to ignite or goes out at any time, switch the fire off by pressing the ON/OFF button once and repeat the procedure.

9. If you require the fire on the high setting, press the High/Low button. The green high setting indicator will come on to confirm this. This operation can be undertaken during the ignition sequence.

NOTE: It is recommended that the fire is operated on HIGH initially.

10. Check the fire gas pressure.

The pressure should be 10.5 mbar (4.2 in wg). If the pressure is not correct, check that all gas cocks are fully open and that the meter pressure is correct. No adjustment to the setting pressure is possible.

11. Pressing the ON/OFF button once will turn the fire off. The green power ON indicator will go out to confirm this ([Fig. 30](#)). Disconnect the pressure gauge and replace the pressure test point sealing screw, ensuring a gas tight seal ([Fig. 29](#)).

12. Press the  button and check that the illumination effect operates.

13. Arranging the Coals can now be completed.

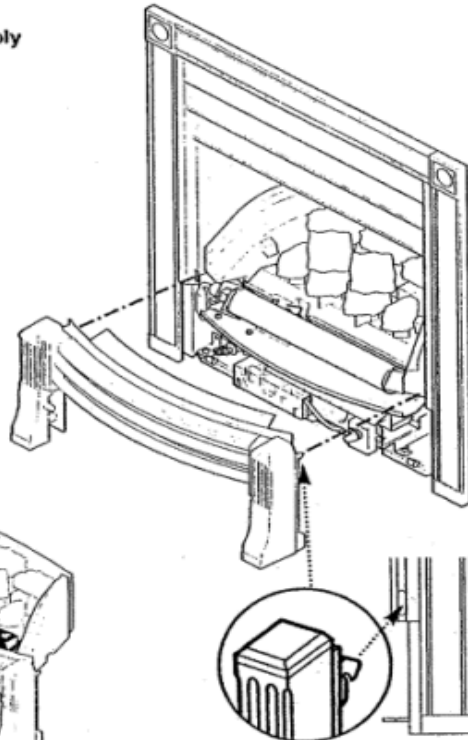
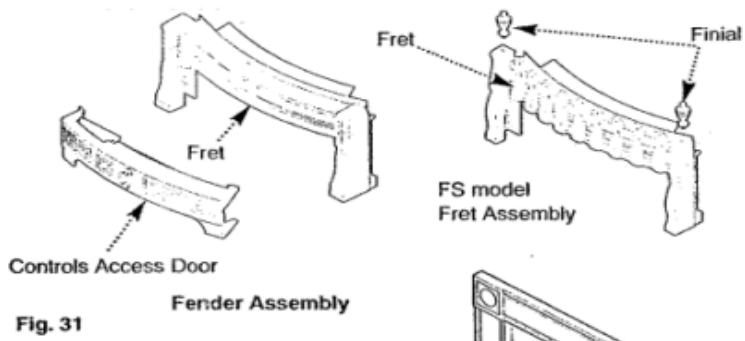


Fig. 32



Fig. 33

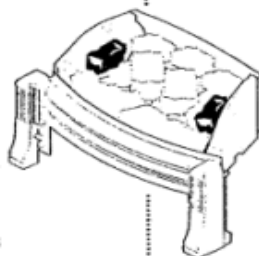


Fig. 34

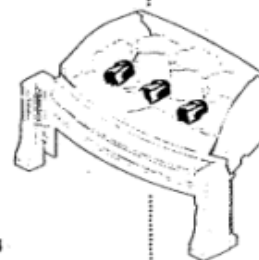


Fig. 35



Fig. 31,31a,32,33,34,35

6.3 Arranging the Coals (cont)

1. At this point it is necessary to fit the fret assembly.
2. Remove the fret from its packaging (On FS & CS models screw the finials to the fret assembly) ([Fig. 31](#)).
3. Remove the controls access door from the fret assembly ([Fig. 31](#)).
4. Hook the fret assembly into the sides of the combustion box ([Fig. 31a](#)).
5. Place the two curved interlocking front coal pieces on the fret rear flange ([Fig. 32](#)).
6. The slots in the two remaining large coals ([Fig. 33](#)) should be located over the like-shaped projections on each side cheek.
7. Finally the three small coals ([Fig. 34](#)) should be located in the indentations on the curved front pieces and the medium sized coals fitted in [section 6.1](#). with their flat faces downwards.
8. The coals should be as [Fig. 35](#).
9. The appliance must now be checked for spillage.

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7.0 Checking for Spillage

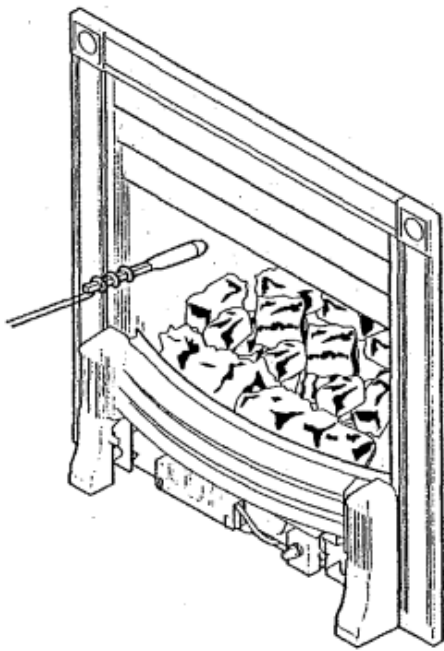


Fig. 36

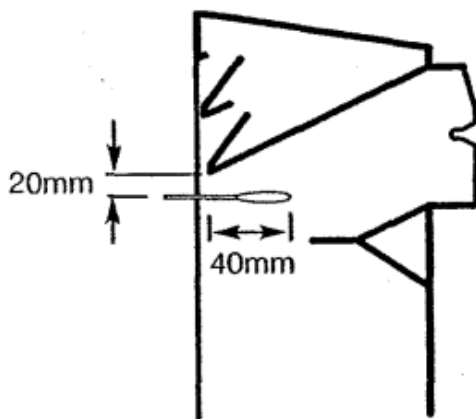


Fig. 37

Fig. 36 & 37

7.1 Checking for Spillage

CAUTION - Whilst checking for spillage care must be taken to avoid touching hot panels.

1. Before checking for spillage the worst likely operating environment for the appliance must be created. To do this, close all doors and windows in the room and operate any ceiling or extractor fans that may be present, on the wall or within other appliances. If any ceiling or extractor fans are present in an adjoining room then these should be operated and the connecting door left open.
2. There are two stages of appliance operation for which spillage must be checked by following "The Spillage Checking Procedure" shown below ([7.2](#)).
3. **STAGE 1** - Commencing with the appliance Cold, operate the fire on maximum for five minutes and check for spillage. If spillage is evident then the fire is operated for a further 10 minutes and re-checked. If spillage is still evident then the cause should be ascertained and rectified before continuing with

commissioning.

4. **STAGE 2** - Following a satisfactory result at stage 1, the fire is left on and the boiler is operated (from Cold) for 5 minutes before checking for spillage again. If spillage is evident then the cause should be ascertained and rectified before continuing with commissioning.

5. If the appliance cannot be commissioned then it should be isolated until the problem is resolved.

7.2 The Spillage Checking Procedure

1. A lighted smoke match should be held in a suitable holder just below the lower louvre of the fire and 50mm from either side of the combustion box inner side panel. The majority of smoke should be drawn into the fire ([Fig. 36](#) & [37](#)).

7.3 Possible Causes of Spillage

1. The smoke match may have been positioned incorrectly, resulting in the smoke being picked up by hot convected air currents.
2. The builders opening or flue installation may be unsound.
3. Inadequate ventilation.
4. Down draughts may be present.
5. Flue blockages.

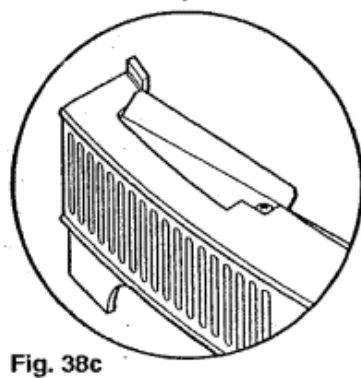
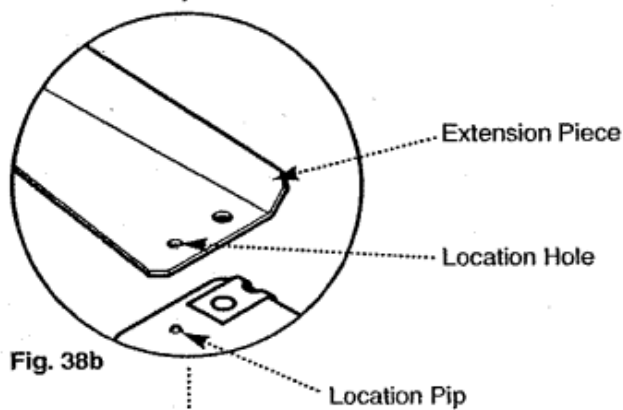
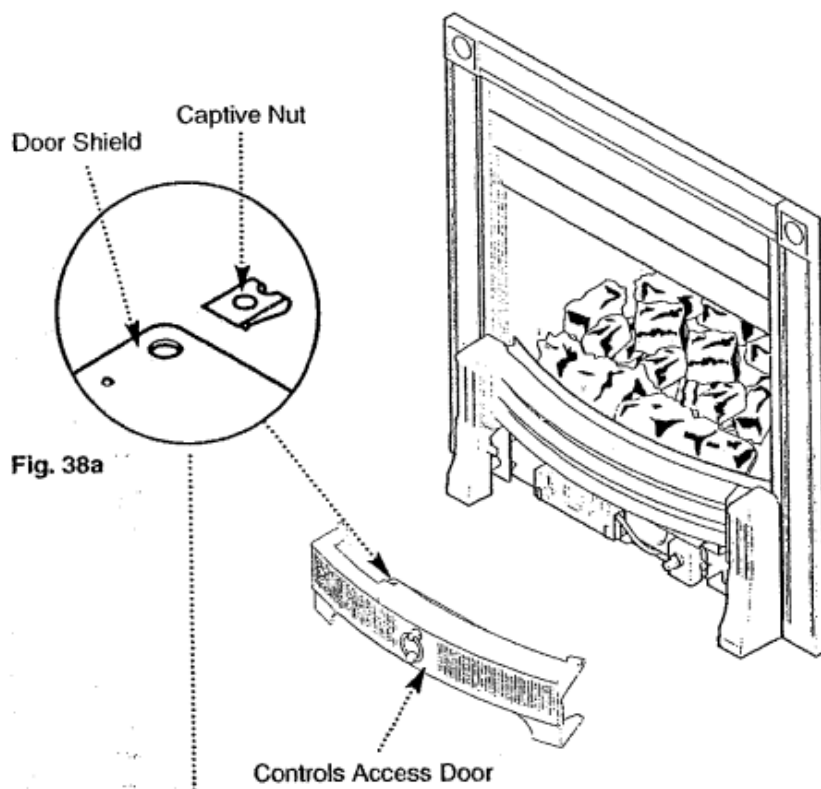


Fig. 38,38a,38b,38c

7.4. Completion

1. Take the black painted extension piece, captive nut and screw from the fire contents kit.
2. Fit the captive nut to the rear edge of the door shield, over the hole ([Fig. 38a](#)).
3. Slide the extension piece between the door shield and the casting, ensuring the location hole locates over the pip on the door shield ([Fig. 38b](#)).
4. Secure the extension piece to the door shield using the black screw ([Fig. 38c](#)).
5. Replace the controls access door ([Fig. 38](#)).
6. These instructions and the users instructions should be handed to the customer. At the same time the customer should be shown how to operate the fire and boiler safely and efficiently.
7. The need for annual servicing should be emphasised and the returning of the guarantee card advised.

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8.0 Annual Servicing

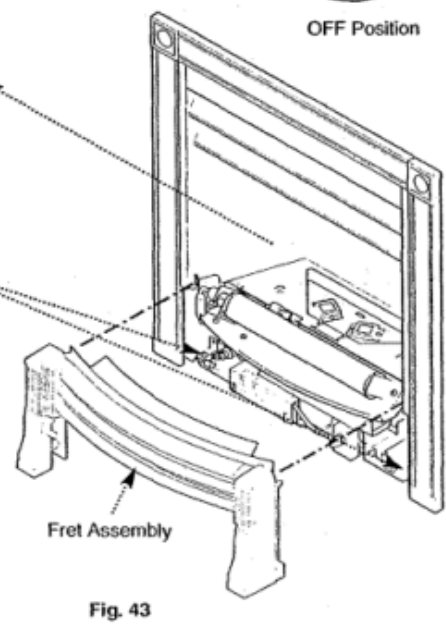
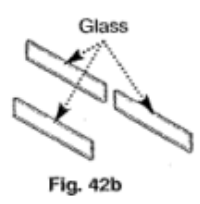
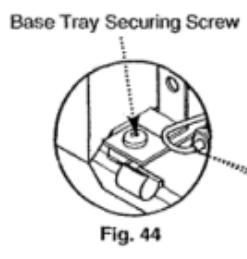
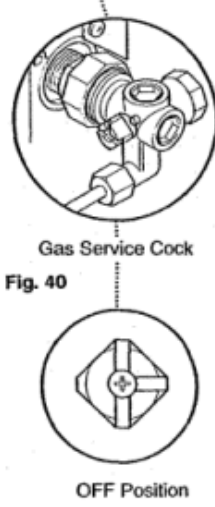
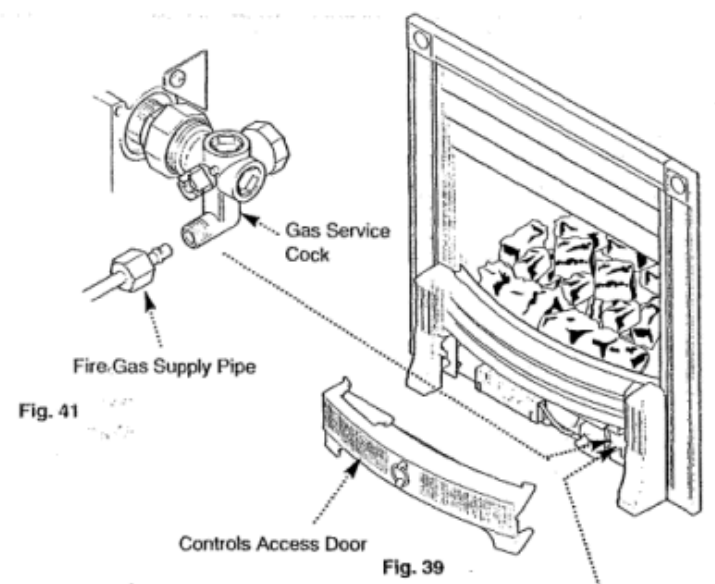


Fig. 39,40,41,42,42a,42b,43,44

8.1 Annual Servicing

IMPORTANT: It is possible that some soot may be deposited on the coals after use. This is acceptable providing it is not allowed to accumulate.

CAUTION: The coals are extremely fragile and must be handled accordingly. Gloves should be worn and any inhalation of the dust should be avoided. Keep the coals away from children at all times. Never use coals other than those originally supplied or Genuine Baxi Spare Parts. Never put additional coals on the fire. Please read [section 1.3](#) Important Information.

1. For reasons of safety and economy it is important to service the fire and boiler annually.

8.2 Preparation

WARNING: Isolate the gas and electricity supplies to the boiler and fire unit before servicing.

1. In order to service the boiler unit, the fire must be disconnected and removed. Remove the fire as follows-
2. Lift the controls access door away from the fender assembly ([Fig. 39](#)).
3. Turn off the gas supply at the service cock ([Fig. 40](#)).
4. Carefully remove all the coals, side cheeks, back piece and underbed ([Fig. 42](#)).
5. Remove the glass retaining assembly ([Fig. 42a](#)).
6. Carefully remove the three amber glass pieces ([Fig. 42b](#)).
7. Lift the fret assembly to disengage it from the hooks and remove it ([Fig. 43](#)).
8. Disconnect the gas supply to the fire at the gas service cock connection ([Fig. 41](#)).
9. Remove the two screws retaining the sides of the fire combustion box to the fire base tray ([Fig. 44](#)).

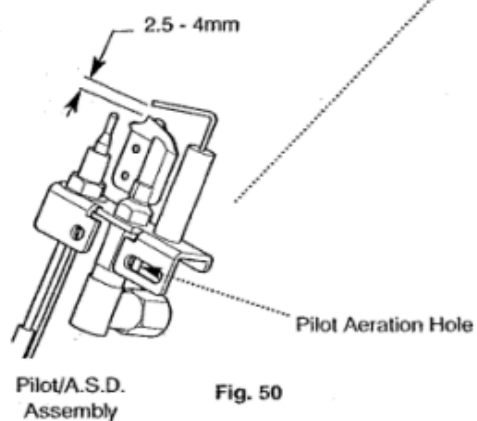
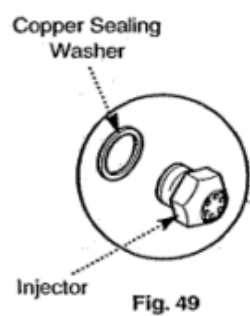
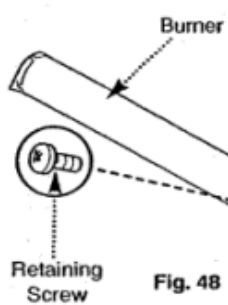
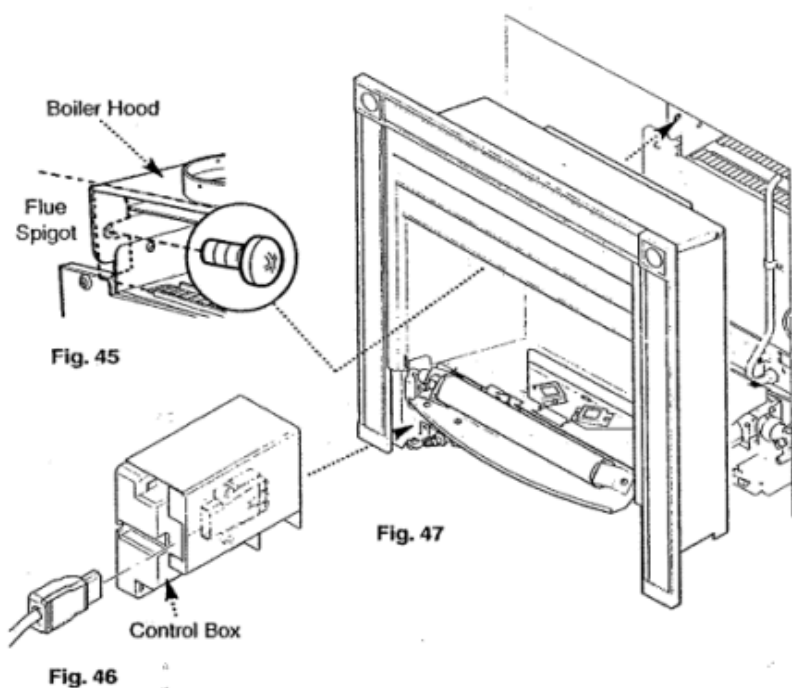


Fig. 45,46,47,48,49,50

8.2 Preparation (Cont)

8. Slacken the two screws inside the flue spigot ([Fig. 45](#)).
9. Disconnect the electrical plug from the socket attached to the control box ([Fig. 46](#)).
10. Slide the fire combustion box forward to disengage it from the flue spigot and lift away ([Fig. 47](#)) taking care not to snag any electrical wiring.

8.3 Cleaning the Burner & Injectors

1. Undo the screw holding the burner to the controls mounting plate, and disengage the burner inlet from the injector ([Fig. 48](#)).
2. Using a soft brush, remove any dirt from the burner and ensure that the ports are free from obstruction ([Fig. 48](#)).
3. Using a spanner, on both the adaptor barrel and fire injector, remove the injector and copper sealing washer from the barrel ([Fig. 49](#)).
4. Examine and clean the injector. Do not use any hard tools such as pins or wire. Refit the injector, ensuring that the copper sealing washer is in place. If the washer is damaged it must be replaced ([Fig. 49](#)).

8.4 Cleaning the Pilot/A.S.D. Assembly ([Fig. 50](#))

NOTE: No attempt should be made to clean the device using any hard tools, including pins or wire.

WARNING: The pilot/A.S.D. assembly must not be adjusted in any way.

1. The A.S.D. must not be altered so that it will not operate or be bypassed in any way.
2. Ensure that the pilot burner aeration hole is free from lint, debris etc.
3. If necessary clean the electrode and target, and check that the spark gap is 2.5 - 4.0mm.
4. The thermocouple cannot be changed as an individual component. The complete assembly must be replaced in the event of one or other component failure(s).
5. Only use a Genuine Baxi Spare Part.

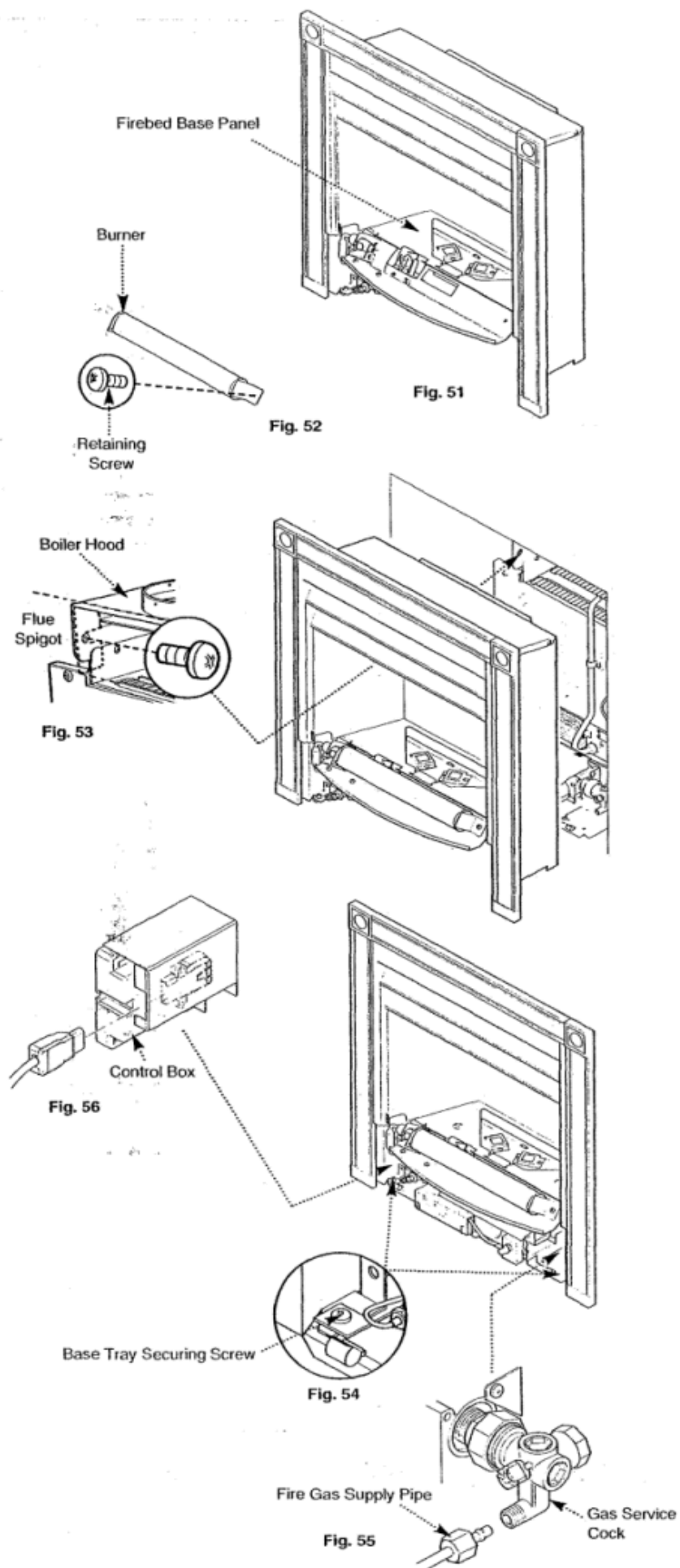


Fig. 51,52,53,54,55,56

8.5 Cleaning the Combustion Box & Coals

1. Remove any deposits from the firebed base panel ([Fig. 51](#)).
2. If necessary the coals can be cleaned with a very soft brush, and can be retouched using the black stain available direct from Baxi Heating or from your local Baxi Spares Stockist. Quote Part N° 043224 when ordering.
3. Refit the burner to the controls mounting plate ([Fig. 52](#)).

8.6 Replacing the Fire

1. Once the boiler has been serviced, the fire can be replaced. Refer to the boiler installation and servicing instructions.
2. Slide the fire combustion box into position ensuring that the flue spigot fits into the boiler downdraught diverter. Fit and tighten the two screws inside the flue spigot ([Fig. 53](#)) and replace the two screws into the boiler base tray ([Fig. 54](#)).
3. Reconnect the gas supply and test for soundness ([Fig. 55](#)).
4. Reconnect electrical supply ([Fig. 56](#)).
5. Replace all the coals, side cheeks, back piece and underbed as described in "[Arranging the Coals](#)". Refit the fender assembly.

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9.0 Changing Components

Fig. 59



Controls Access Door

Fret Assembly

Fig. 57

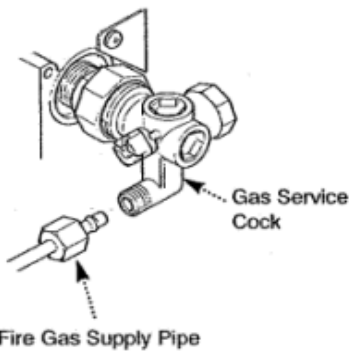
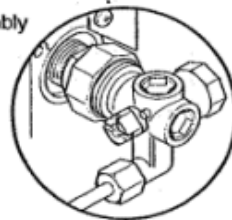
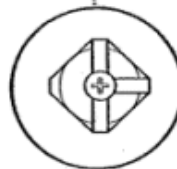


Fig. 60



Gas Service Cock

Fig. 58



OFF Position

Glass Retaining Assembly

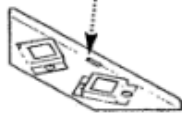


Fig. 60a

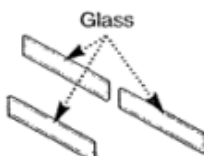


Fig. 60b

Fig. 57,58,59,60,60a,60b

9.1 Changing Components

WARNING: Isolate the gas and electricity supplies to the boiler and fire unit before changing any components.

1. Lift the controls access door away from the fret assembly ([Fig. 57](#)).
2. Turn off the gas supply at the service cock ([Fig. 58](#)).
3. Carefully remove all the coals, side cheeks, back piece and underbed ([Fig. 59](#)).

CAUTION: The coals are extremely fragile and must be handled accordingly. Gloves should be worn and any inhalation of the dust should be avoided. Keep the coals away from children at all times. Never use coals other than those originally supplied or Genuine Baxi Spare Parts. Never put additional coals on the fire. Please read [section 1.3](#) Important Information.

4. Remove the glass retaining assembly ([Fig. 60a](#)). At this point the bulb/s may be changed (see [Section 9.7](#)).
5. Carefully remove the three amber glass pieces ([Fig. 60b](#)).
6. Lift the fret assembly to disengage the hooks and remove it ([Fig. 57](#)).
7. At this point the burner and injector may be changed.
8. Disconnect the gas supply to the fire at the gas service cock connection ([Fig. 60](#)).

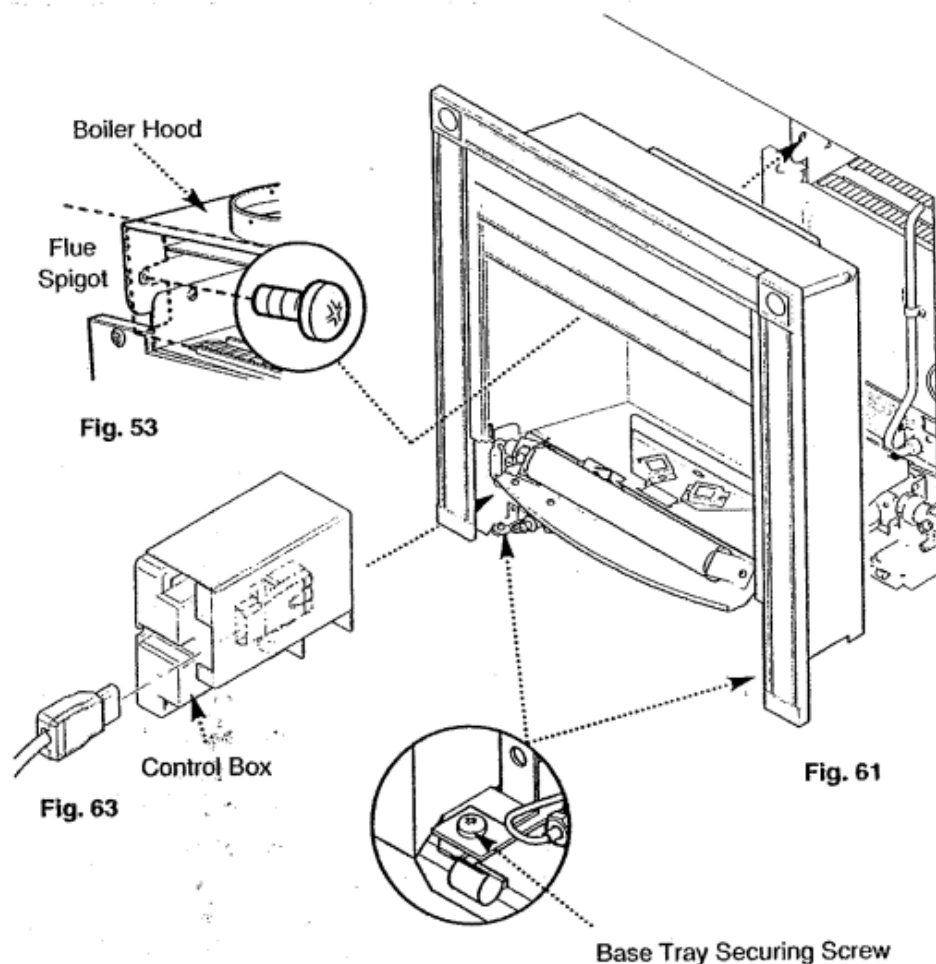


Fig. 61,62,63

9.1 Changing Components (continued)

9. Remove the two screws retaining the sides of the fire combustion box to the fire base tray ([Fig. 61](#)).
10. Remove the two screws inside the flue spigot ([Fig. 62](#)).
11. Disconnect the electrical plug from the socket ([Fig. 63](#)).
12. Slide the fire combustion box forward to disengage it from the flue spigot and lift away ([Fig. 61](#)) taking care not to snag any electrical wiring.

NOTE: After changing any components carry out checks for gas soundness.

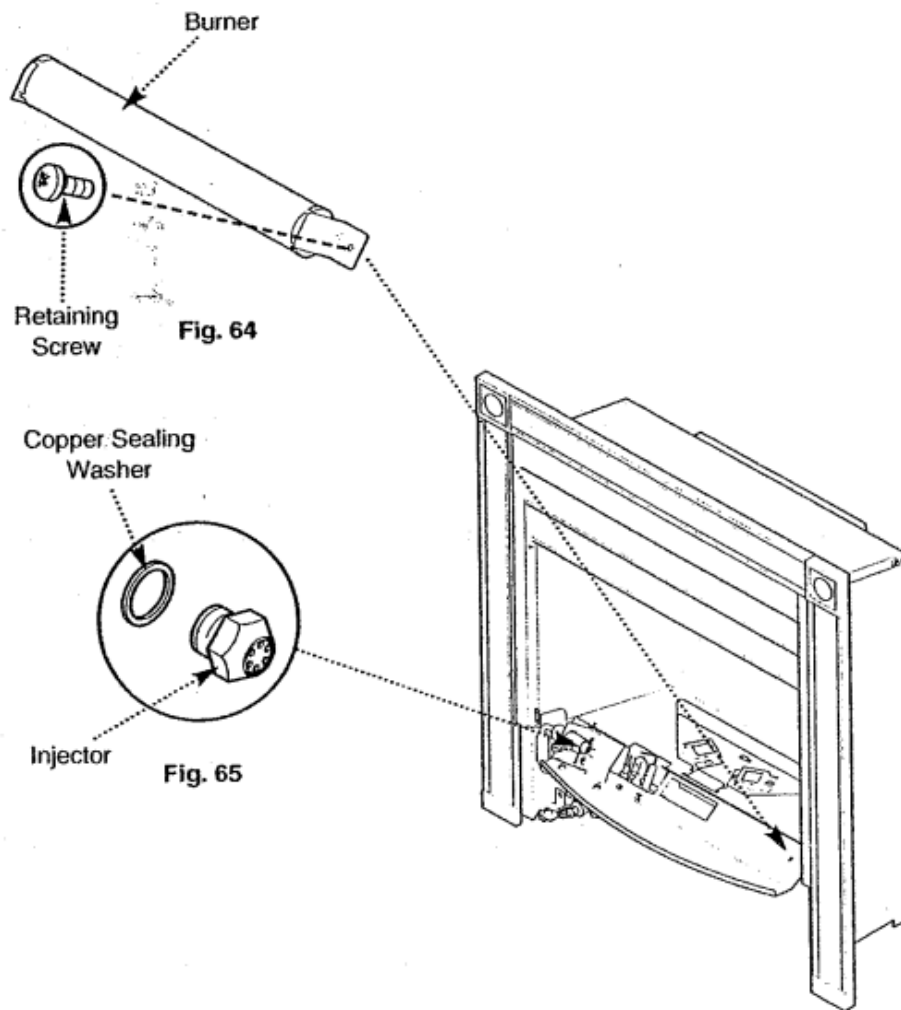


Fig. 64,65

9.2 Burner and Injector

1. Undo the screw holding the burner to the controls mounting plate, and disengage the burner inlet from the injector ([Fig. 64](#)).

2. Fit the new burner in reverse order.

To change the injector remove the burner as described above.

3. Using a spanner on both the adaptor barrel and fire injector, remove the injector and copper sealing washer from the barrel ([Fig. 65](#)).

4. Fit the new injector, ensuring that the copper sealing washer is in place. If the washer is damaged it must be replaced.

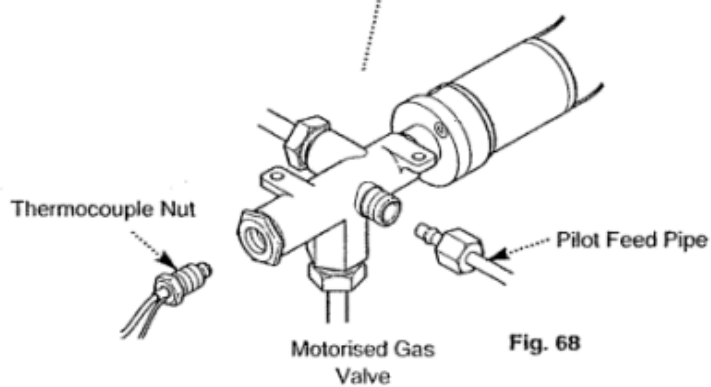
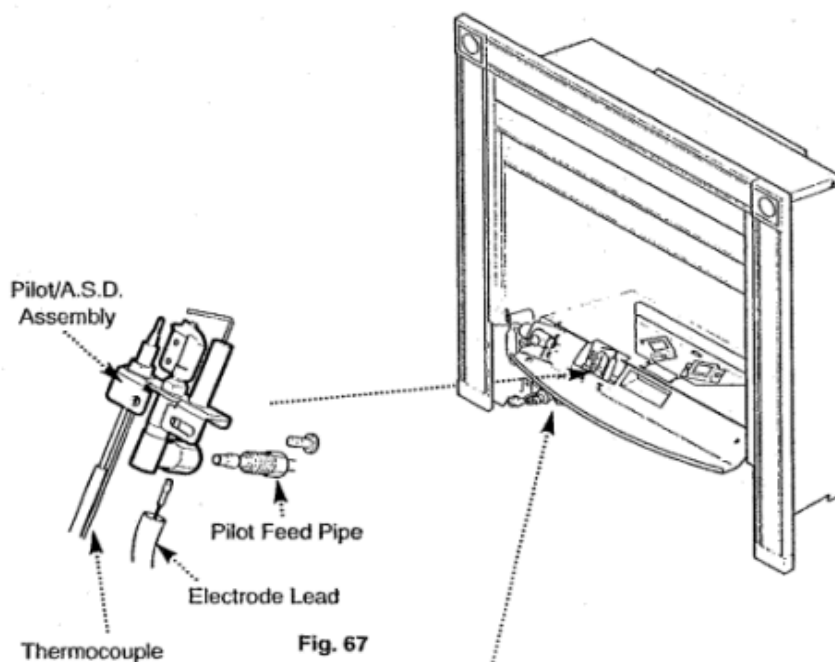
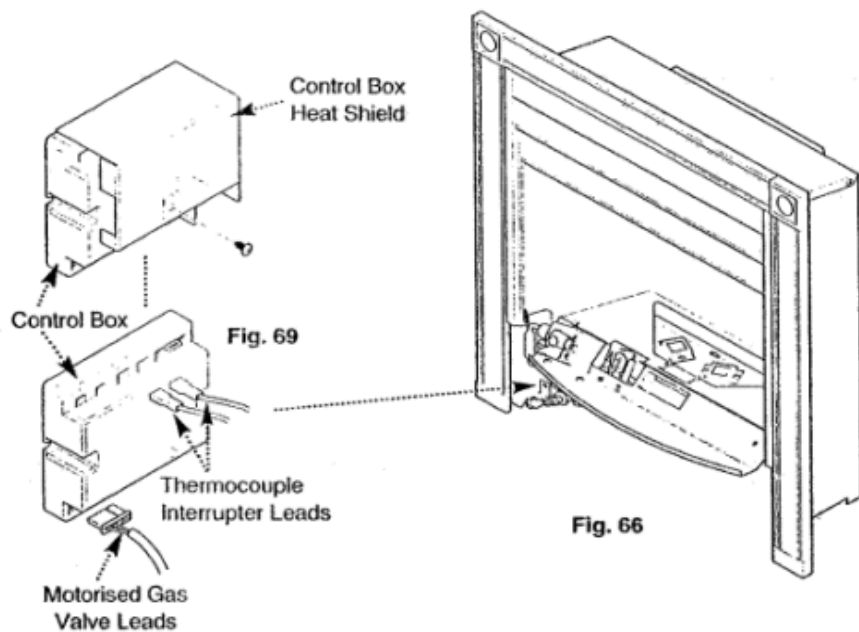


Fig. 66,67,68,69

9.3 Pilot/A.S.D. Assembly

NOTE: The thermocouple cannot be changed as an individual component. The complete assembly must be replaced in the event of one or other component failure(s).

1. Disconnect the electrode lead from the electrode ([Fig. 67](#)) and the motorised gas valve leads from the control box ([Fig. 69](#)).
2. Undo the thermocouple nut from the front of the motorised gas valve and disconnect the pilot feed pipe from the valve and pilot/A.S.D. assembly ([Fig. 67](#) & [68](#)).
3. Undo the screw holding the pilot/A.S.D. assembly to the controls mounting plate and remove ([Fig. 67](#)).
4. Disconnect the earth point.
5. Remove the control box heat shield retaining screw and place the shield to one side ([Fig. 69](#)).
6. Disconnect the two thermocouple interrupter leads at the control box ([Fig. 69](#)).
7. Shape the thermocouple of the replacement pilot/A.S.D. assembly in a similar manner to the original and fit in reverse order.

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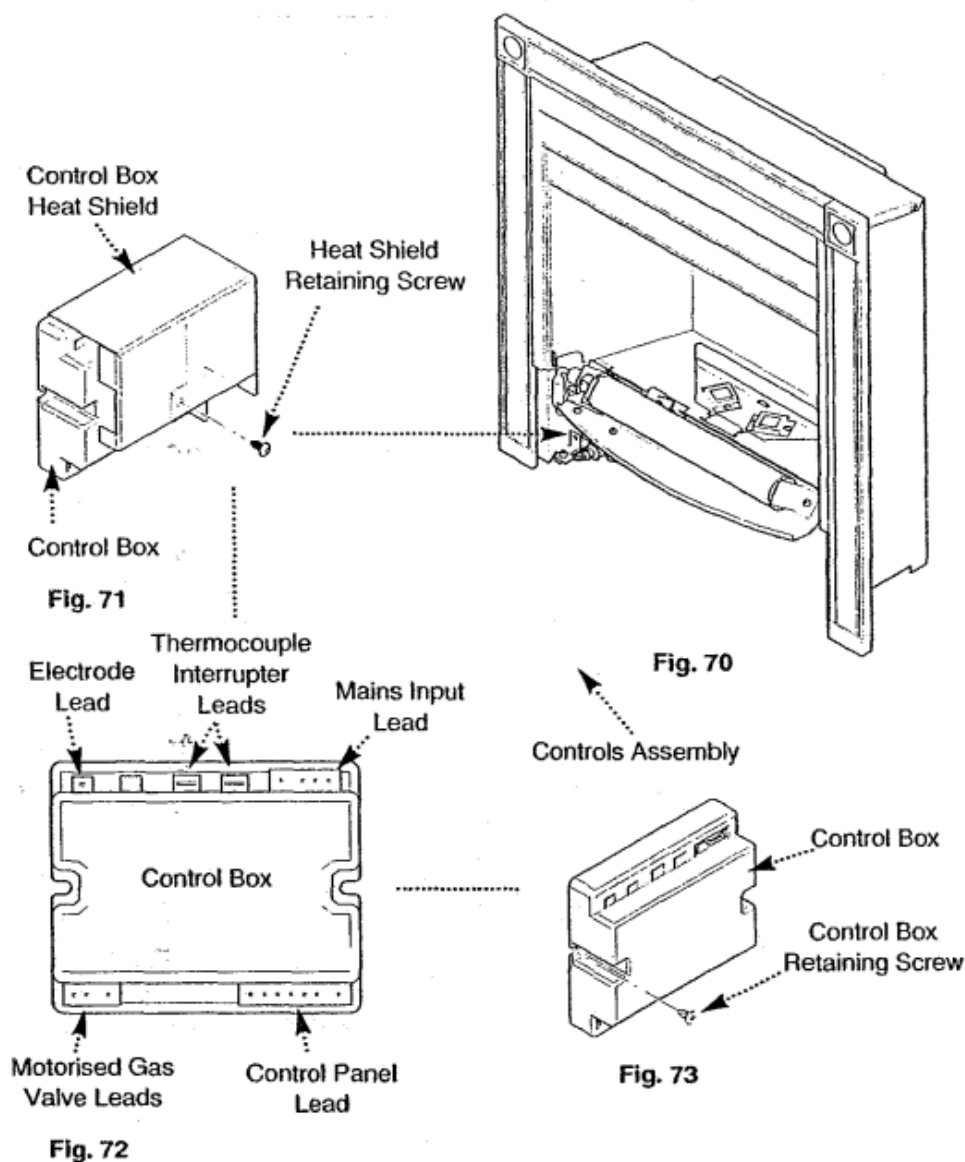


Fig. 70,71,72,73

9.4 Control Box

1. Disconnect the earth point.
2. Remove the control box heat shield retaining screw and place the shield to one side ([Fig. 71](#)).
3. Disconnect all of the wiring connections from the control box taking note of their positions ([Fig. 72](#)).
4. Slacken the rear control box retaining screw.
5. Undo the front retaining screw and remove the control box ([Fig. 73](#)).
6. Fit the new control box and reassemble in reverse order.

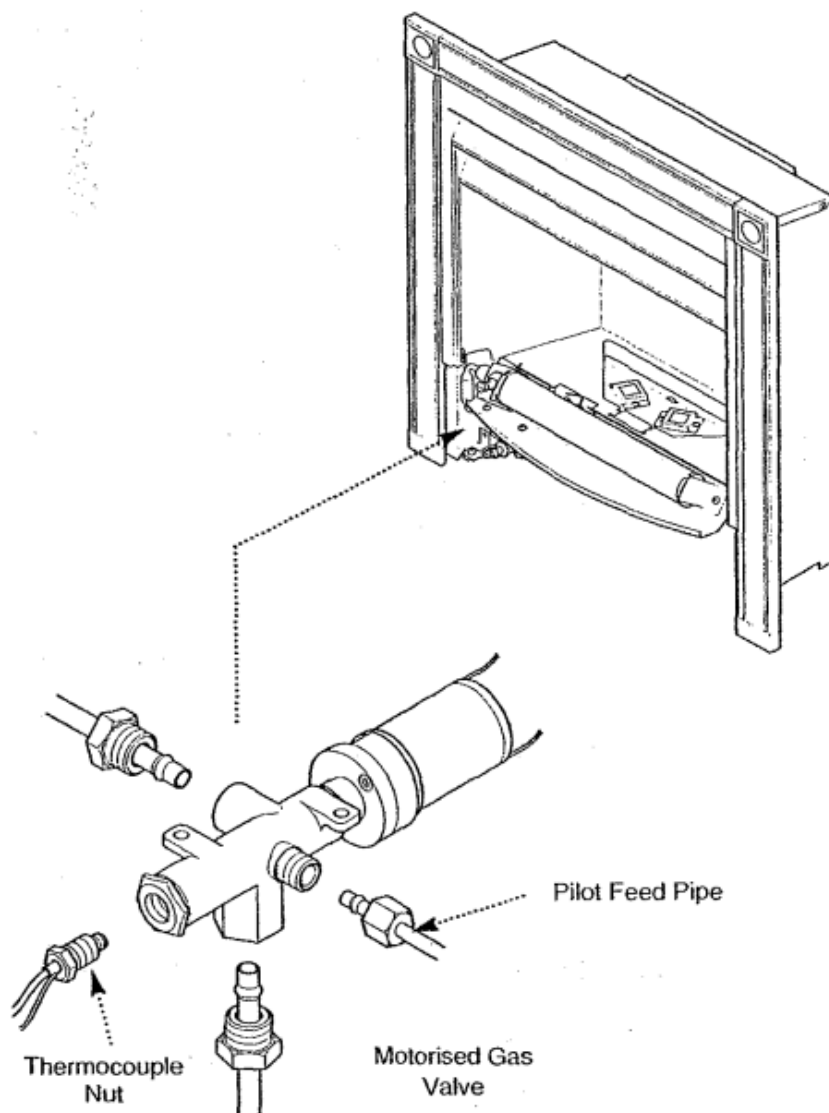


Fig. 74

Fig. 74

9.5 Motorised Gas Valve([Fig. 74](#))

1. Undo the thermocouple nut from the front of the motorised gas valve, and disconnect the three gas pipes from the tap body.
2. Disconnect the motorised gas valve leads from the control box ([Fig. 72](#)).

3. Undo the two screws holding the gas valve to its' bracket. Remove the valve, slackening the gas pipes at their other connections if necessary.

4. Fit the new motorised gas valve in reverse order.

5. Check gas soundness (leak detector).

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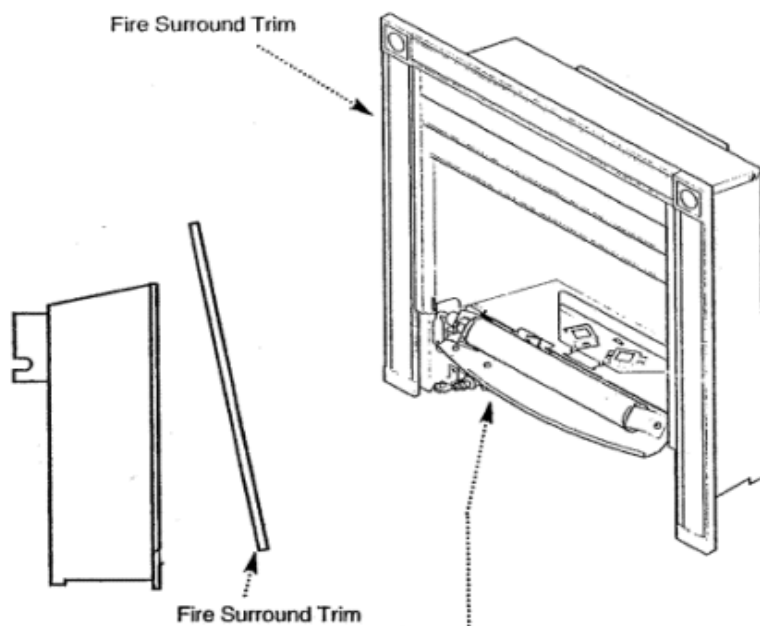


Fig. 76

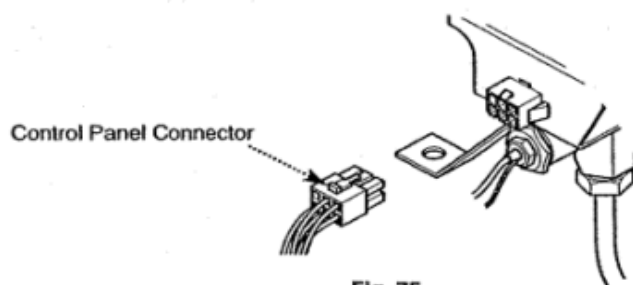


Fig. 75

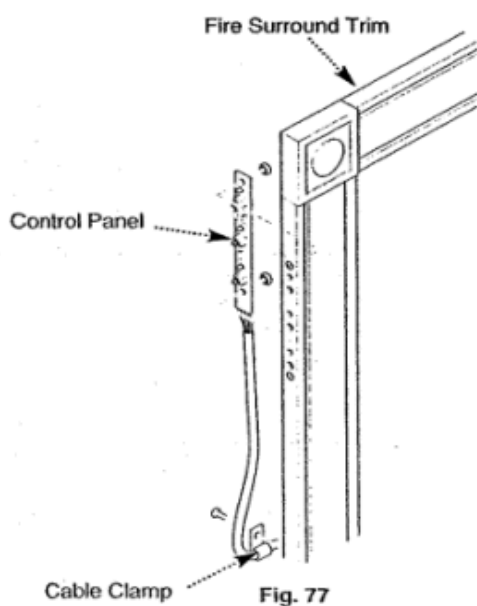


Fig. 77

Fig. 75,76,77

9.6 Control Panel

1. Disconnect the control panel connector from the front of the valve bracket ([Fig. 75](#)).
2. Lift the surround trim away from combustion box ([Fig. 76](#)).
3. Remove the cable clamp which secures the control panel cable ([Fig. 77](#)).
4. Remove the two control panel securing nuts and remove the panel ([Fig. 77](#)).
5. Fit the new control panel taking care not to overtighten the securing nuts and reassemble in reverse order.

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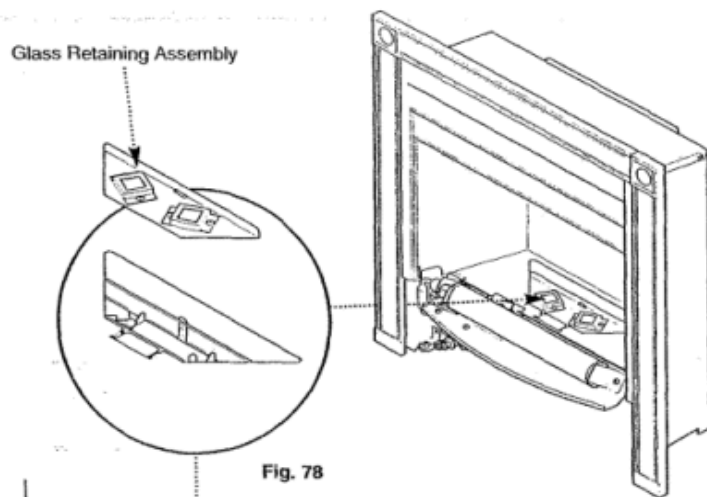


Fig. 78

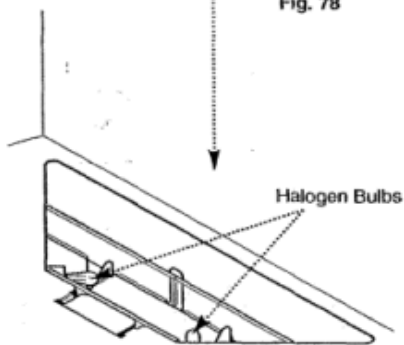


Fig. 79

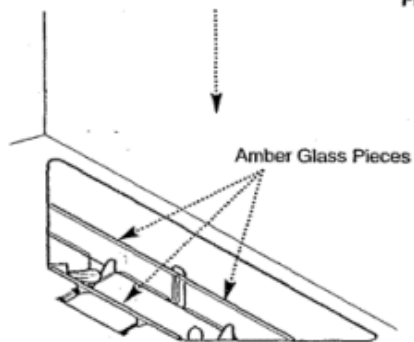


Fig. 80

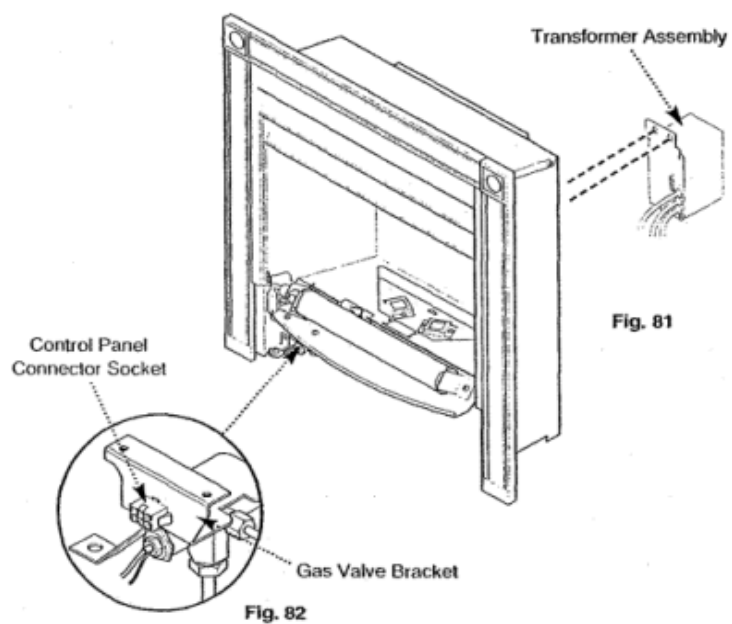


Fig. 81

Fig. 82

Fig. 78,79,80,81,82

9.7 Bulbs

IMPORTANT: Only replace the bulb/s with a 12V 20W halogen capsule bulb available at most DIY outlets, specialist electrical stores or through Baxi Heating Ltd.

1. Remove the coals, placing them on a newspaper or similar to prevent soiling furnishings.
2. Lift out the glass retaining assembly ([Fig. 78](#)).
3. Remove the bulb by pulling out from the ceramic bulb holder to disengage the pins ([Fig. 79](#)).
4. Fit the replacement bulb in reverse order. N.B. Halogen bulbs should not be handled with bare fingers. Always use a cloth to grip the bulb.
5. Replace the glass retaining assembly and reassemble the coal bed.

9.8 Glass

1. Remove the coals, placing them on a newspaper or similar to prevent soiling furnishings.
2. Lift out the glass retaining assembly ([Fig. 78](#)).
3. Carefully remove the three amber glass pieces ([Fig. 80](#)).
4. Fit the new glass and reassemble the coals.

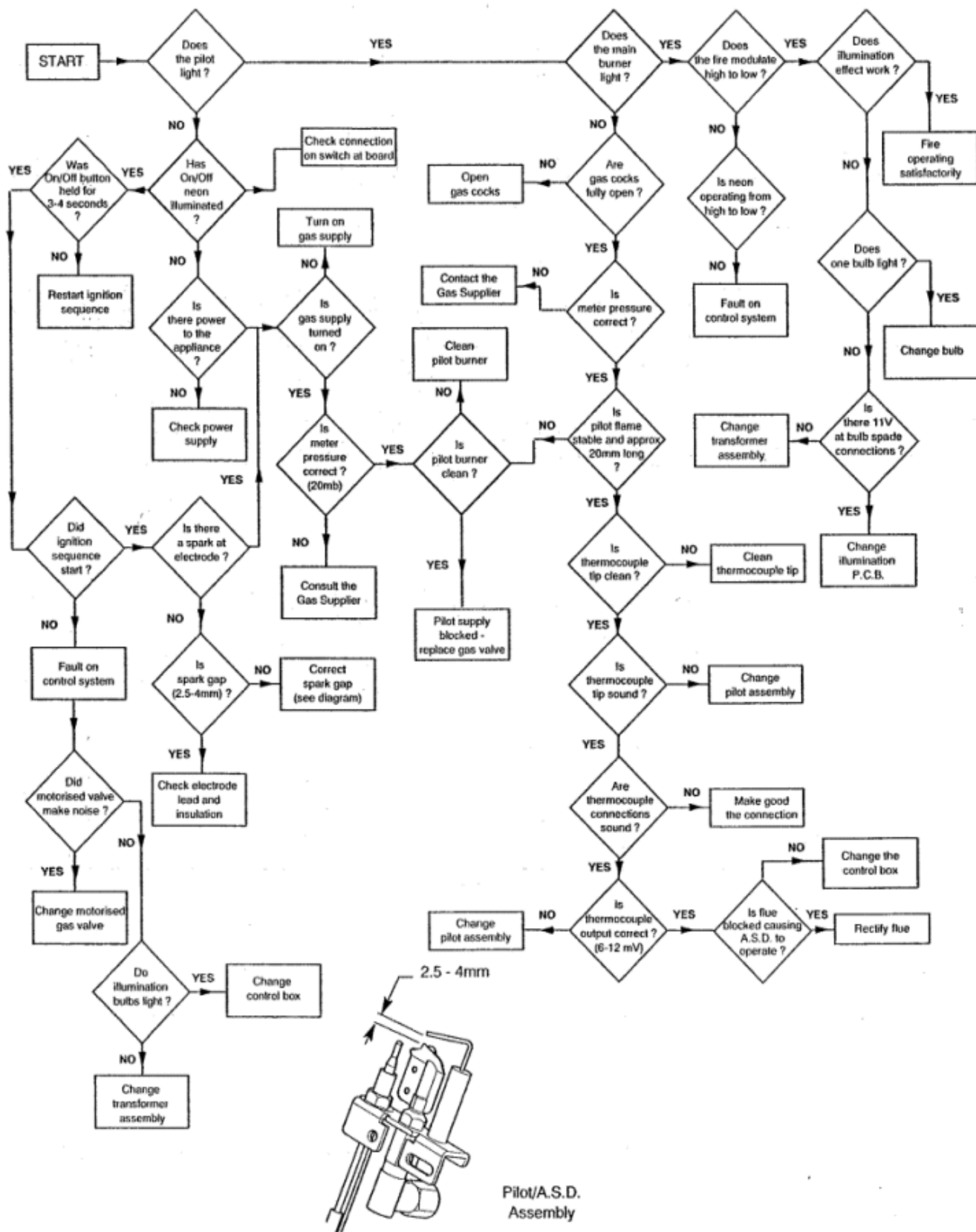
9.9 Transformer Assembly

The transformer assembly is situated at the rear of the fire at the left hand side.

1. Loosen the two screws, securing the assembly to the rear of the fire.
2. Slide the assembly upwards and disengage from the fire back ([Fig. 81](#)).
3. Disconnect the control panel connector socket from the gas valve bracket ([Fig. 82](#)).
4. Disconnect the two bulb connections to the transformer.
5. Disconnect the two control box connections to the transformer.
6. Reassemble in reverse order.

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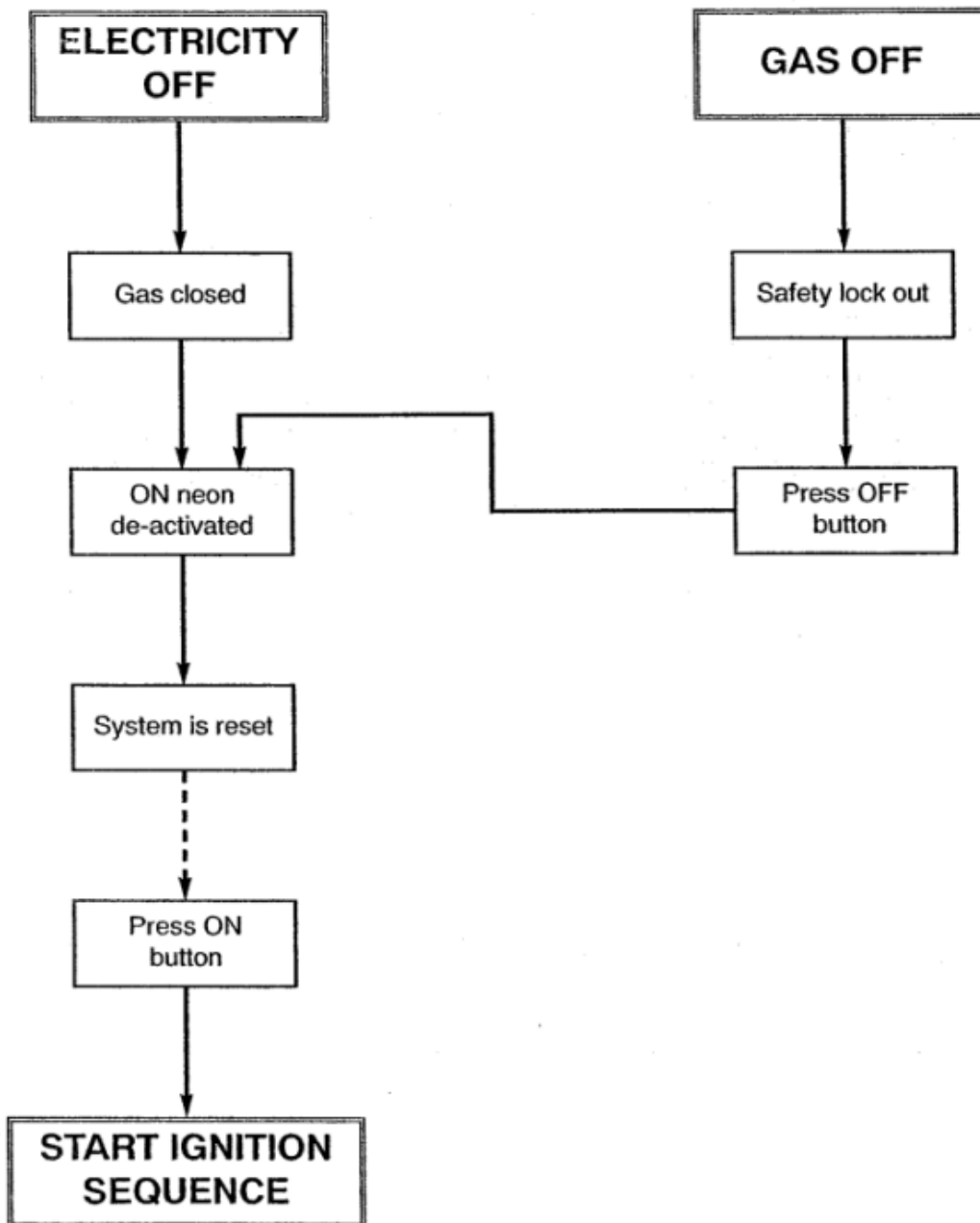
10.0. Fault finding

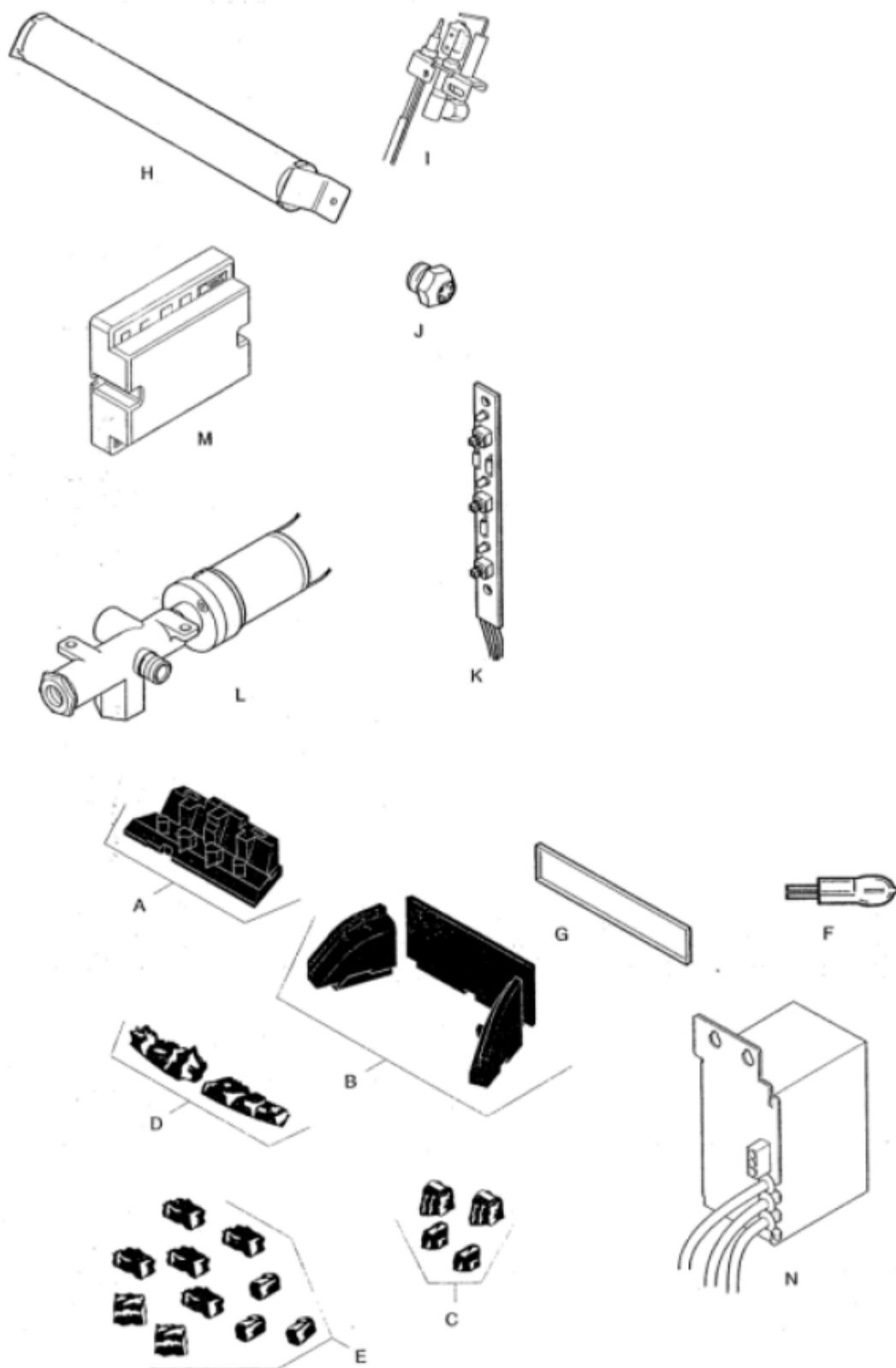


Before starting Fault Finding carry out preliminary electrical system checks i.e. Earth Continuity, Polarity, Short Circuit and Resistance to Earth.

11.0 Flow Charts

Sequence of Automatic Control System





Key No.	G.C. No.	Description	Manufacturers Part No.
H		Burner - Fire	244952
I		Pilot/ASD Assy	240096
J		Fire Injector F15 or 90	243038
A		Coal Bed Base	245640
B	E01-363	Coal Bed Sidecheeks and Back Pack	239278
C	E01-364	Coals Under-bed Pack	239279
D	E01 -365	Front Coals Pack	239280

E	Coals Loose Pack	
K	Control Panel	245207
L	Motorised Valve	244951
M	Control Box	242364
N	Transformer Assy	
F	Bulb	245208
G	Glass - Amber	244712

13.0 Notes

Baxi Limited 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.

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