



Fire Your Imagination

Studio

Balanced Flue with Thermostatic Remote Control



Instructions for Servicing & Maintenance

For use in NZ (New Zealand).

IMPORTANT

THE OUTER CASING, FRONT AND GLASS PANEL BECOME EXTREMELY HOT DURING OPERATION AND WILL RESULT IN SERIOUS INJURY AND BURNS IF TOUCHED. IT IS THEREFORE RECOMMENDED THAT A FIREGUARD IS USED IN THE PRESENCE OF YOUNG CHILDREN, THE ELDERLY OR INFIRM.

This product contains a heat resistant glass panel. This panel should be checked during Installation and at each servicing interval. If any damage is observed on the front face of the glass panel (scratches, scores, cracks or other surface defects), the glass panel must be replaced and the appliance must not be used until a replacement is installed. Under no circumstances should the appliance be used if any damage is observed, the glass panel is removed or broken.

DO NOT DISCARD: These Instructions must be left with the appliance for future reference and for consultation when servicing the appliance. Please make the customer aware of the correct operation of the appliance before leaving these instructions with them.

Contents

Studio 2 Balanced Flue

Covering the following models:

STUDIO 1	STUDIO 2	STUDIO 3
8700BFCHECNZ	8701BFCHECNZ	8702BFCHECNZ
P8700BFCHECNZ	P8701BFCHECNZ	P8702BFCHECNZ
8700BFLECNZ	8701BFLECNZ	8702BFLECNZ
P8700BFLECNZ	P8701BFLECNZ	

Servicing Instructions.....	3
Servicing Requirements	3
Technical Specification	4
Electronic Control Valve Fault Analysis.....	6
Fault Finding Charts	6
 Replacing Parts	 8
General.....	8
Decorative Frame	8
Window Frame Assembly	8
Glass Window	9
Arrangement of the Fuel Bed	10
Log Layout.....	10
Black Enamelled Panels.....	15
Vermiculite/Black Reeded Panels	16
Main Burner	17
Main Control Assembly.....	17
Pilot Unit	19
Ignition Lead.....	20
Gas Valve	20
Magnetic Safety Valve.....	21
Control Box.....	21
Main Injector.....	22
Primary Aeration Plate.....	22
Changing Between Gas Types.....	22
Pressure and Leak Testing the Appliance	23
 Commissioning.....	 24
 Short Spares List.....	 25
 Service Records	 27

Servicing Instructions

1. Servicing Requirements

**THIS APPLIANCE MUST BE SERVICED AT LEAST ONCE A YEAR BY A COMPETENT PERSON.
DO NOT MODIFY THE APPLIANCE.**



IMPORTANT – The glass panel on this appliance should be checked for any signs of damage on the front face of the glass panel (scratches, scores, cracks or other surface defects). If damage is observed, the glass panel must be replaced and the appliance must not be used until a replacement is installed. Under no circumstances should the appliance be used if any damage is observed. Please isolate the appliance until a replacement glass panel has been obtained and installed. Replacement glass panels can be purchased from Gazco via the retailer from which the appliance was purchased or any other Gazco distributor.

All tests must be carried out in accordance with the current Gas Installation regulations AS/NZ 5601.

1.1 Before Testing:

- Conduct a gas soundness test for the property ensuring there are no leaks before servicing.
- Check the operation of the appliance before testing.

1.2 Special checks:

It is advisable to carry out the following checks during servicing:

Component	Maintenance Requirement
Glass Frame	Inspect for cracks, scratches, scores or other surface defects and replace if necessary.
	Ensure clearance to combustible materials is maintained.
Logs	Inspect the log effects for broken, damaged or missing logs. Replace as necessary.
	Check the log effects to ensure correct placement. Ensure placement does not obstruct flames and cause sooting.
Liner Panels	Check the side and back panels for cracks or signs of damage. Replace as necessary.
Firebox	Inspect for paint condition, warpage, corrosion or perforation. Correct poor conditioning or advise customer on the state of the firebox.
Main Burner, Pilot, Ignition and Operation	Clean the burner using a vacuum cleaner with a soft brush attachment. Ensure all debris is removed from the burner ports.
	Clean away any fluff or lint that may have collected around the pilot.
	Clean away any fluff or lint from under the burner.
	Check the spark gap on the pilot is correct.
	Re-commission the appliance in accordance with the Commissioning Procedures.
Flue System	Check Flue System is free of blockages or obstruction.
	Inspect for corrosion or separation.
	Check the clearance to combustibles is maintained from the termination position.
	Verify the weather protection for the termination position is in tact.
Remote Control	Verify the operation of the remote control.
	Replace batteries in remote transmitters and battery powered receivers.

1.3 Correct any faults found during the initial test.

1.4 Re-commission the appliance in accordance with Commissioning Procedures of these instructions.

1.5 Advise the customer of any remedial work undertaken.

REPLACE BATTERIES BEFORE ATTEMPTING TO RECTIFY ANY FAULTS.

Installation Instructions

Technical Specification

Covering the following models:

STUDIO 1	STUDIO 2	STUDIO 3
8700BFCHENZ	8701BFCHENZ	8702BFCHENZ
P8700BFCHENZ	P8701BFCHENZ	P8702BFCHENZ

Model	Gas CAT.	Gas Type	Working Pressure	Aeration	Injector	Gas Rate m ³ /h	Input kW (Gross)		Country
							High	Low	
Studio 1	I ₂ H	Natural (G20)	20mbar	16mm x 23mm	400	0.600	6.3	3.0	NZ
	I ₃ B/P	LPG Butane (G30)	29mbar	16mm x 23mm (x2)	185	0.175	6.1	3.0	NZ
		LPG Propane (G31)							
Studio 2	I ₂ H	Natural (G20)	20mbar	14mm x 16mm	600	0.800	8.4	4.3	NZ
	I ₃ B/P	LPG Butane (G30)	29mbar	16mm x 23mm (x2)	225	0.209	7.3	4.0	NZ
		LPG Propane (G31)							
Studio 3	I ₂ H	Natural (G20)	20mbar	LH 6mm x 6mm	440	0.858	9.0	5.2	NZ
				RH 6mm x 6mm					
	I ₃ B/P	LPG Butane (G30)	37mbar	LH 16mm x 23mm (x2)	150	0.258	9.0	5.2	NZ
		LPG Propane (G31)		RH 16mm x 23mm (x2)					
Efficiency Class 2 - 81% / NO _x Class 4									
Flue Outlet Size Ø 100mm									
Flue Inlet Size Ø 150mm									
Gas Inlet Connection Size Ø 8mm									

RESTRICTOR REQUIREMENT (ALL MODELS)				
VERTICAL & HORIZONTAL FLUE			TOP EXIT - VERTICAL ONLY INCLUDING OFFSET	
STUDIO 1 BF			STUDIO 1 BF	
Vertical Flue Height	Horizontal Length	Restrictor Size	Vertical Flue Height	Restrictor Size
200mm - 499mm	Up to 500mm	No restrictor	3000 - 4990mm	Ø 52mm
500mm - 999mm	Up to 1000mm	No restrictor	5000mm - 10,000mm	Ø 47mm
1000mm - 1499mm	Up to 1000mm	70mm Ø		
1500mm - 1999mm	Up to 5000mm	70mm Ø		
2000mm - 3000mm	Up to 5000mm	60mm Ø		
STUDIO 2 BF			STUDIO 2 BF	
700mm - 1499mm	Up to 1000mm	No restrictor	3000 - 4990mm	Ø 60mm
1500mm - 2499mm	Up to 5000mm	No restrictor	5000mm - 10,000mm	Ø 52mm
2500mm - 3000mm	Up to 5000mm	75mm Ø		
STUDIO 3 BF			STUDIO 3 BF	
1000mm - 1499mm	Up to 500mm	No restrictor	3000 - 4990mm	Ø 70mm
1500mm - 1999mm	Up to 1000mm	No restrictor	5000mm - 10,000mm	Ø 60mm
2500mm - 3000mm	Up to 5000mm	No restrictor		

Installation Instructions

Technical Specification

Covering the following models:

STUDIO 1	STUDIO 2	STUDIO 3
8700BFLECNZ	8701BFLECNZ	8702BFLECNZ
P8700BFLECNZ	P8701BFLECNZ	

Log Versions

Model	Gas CAT.	Gas Type	Working Pressure	Aeration	Injector	Gas Rate m ³ /h	Input kW (Gross)		Country
							High	Low	
Studio 1	I ₂ H	Natural (G20)	20mbar	8mm x 15mm	400	0.610	6.4	4.0	NZ
Studio 1	I ₃ B/P	LPG Butane (G30)	29mbar	16mm x 23mm (x2)	185	0.180	6.3	4.0	NZ
		LPG Propane (G31)							
Studio 2	I ₂ H	Natural (G20)	20mbar	10mm x 16mm	600	0.800	8.6	4.4	NZ
Studio 2	I ₃ B/P	LPG Butane (G30)	29mbar	16mm x 23mm (x2)	150	0.229	8.0	4.4	NZ
		LPG Propane (G31)							
Studio 3	I ₂ H	Natural (G20)	20mbar	LH 8mm x 15mm RH 8mm x 15mm	184	0.962	10.1	5.2	NZ
Efficiency Class 2 - 81% / NO _x Class 4									
Flue Outlet Size Ø 150mm									
Flue Inlet Size Ø 100mm									
Gas Inlet Connection Size Ø 8mm									

SPECIFIC INFORMATION FOR NEW ZEALAND (ALL MODELS)							
STUDIO		1	2	3	1	2	3
Gas Type		Natural Gas			General Product LPG (Propane, Butane or mixture)		
Test Point Pressure		2kPa			2.75kPa		
Gas Input Rate	Stone Chippings	22.7 MJ/h	30.2 MJ/h	32.4 MJ/h	22.0 MJ/h	26.3 MJ/h	32.4 MJ/h
	Log	23.0 MJ/h	31.0 MJ/h	36.4 MJ/h	22.7 MJ/h	28.8 MJ/h	N/A
Max Supply Pressure		6kPa with external regulator			3.5kPa		
Design Standard		EN 613 : 2001					
Installation		This appliance must be installed in accordance with AS/NZS 5601:2013, the National Standard covering the Installation of gas appliances.					

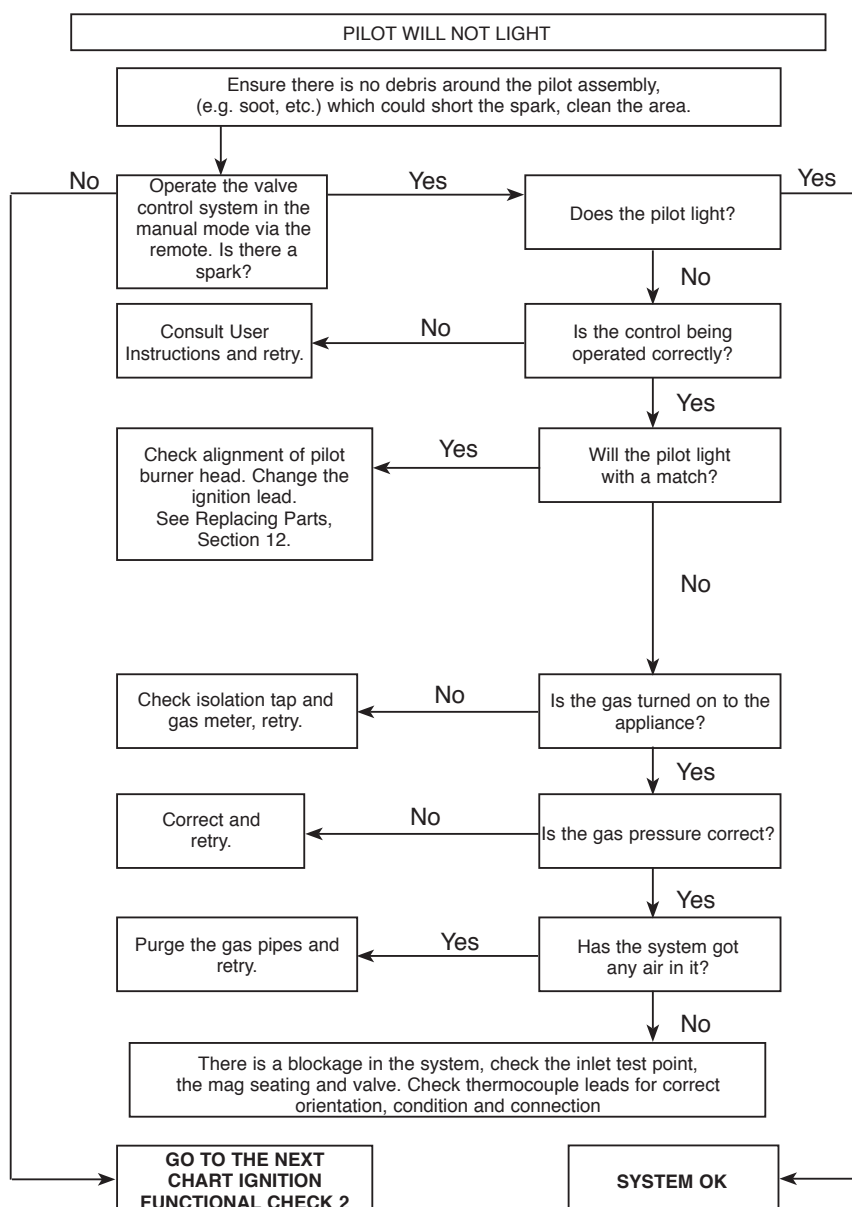
Servicing Instructions

2. Electronic Control Valve Fault Analysis

Symptom	Cause	Remedy
3 Short beeps from control	Batteries low in appliance	Replace appliance batteries
No ignition, 5 second continuous tone (there may be several short beeps before)	1. On/Off switch is in OFF position 2. Loose/damaged wire	1. Move switch to ON position 2 Check interrupter block and wires
No ignition, no tone, motor turns slightly when operated	Receiver board damaged	Replace receiver
No pilot flame and control continues to spark	Thermocouple circuit wired incorrectly	Correct wiring
Pilot lights, control continues to spark, valve shuts down after 10 - 30 seconds	1. No spark at pilot burner 2. Loose/damaged wire	1. Rectify spark at pilot burner 2. Check interrupter and wires

3. Fault Finding Charts

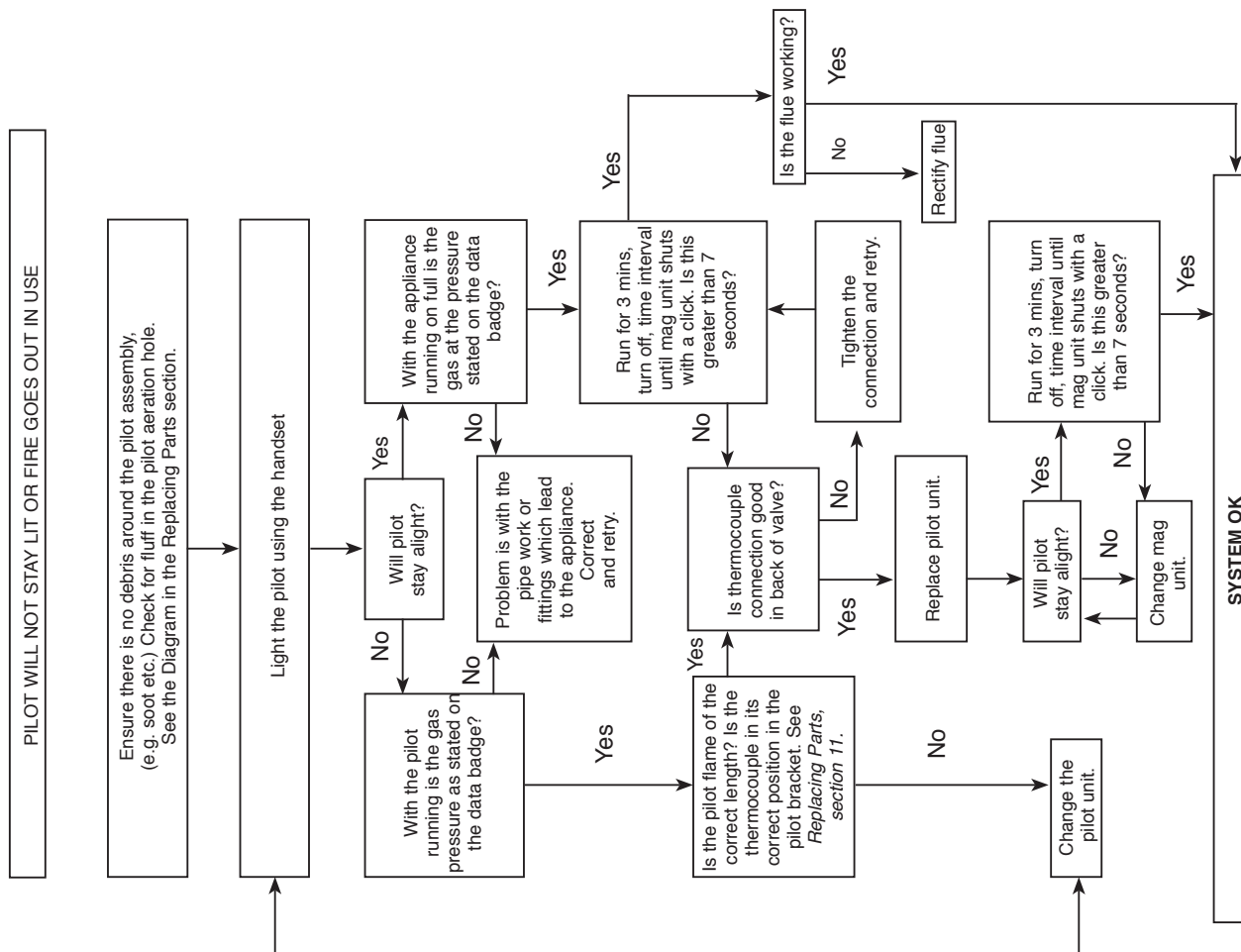
IGNITION FUNCTIONAL CHECK 1



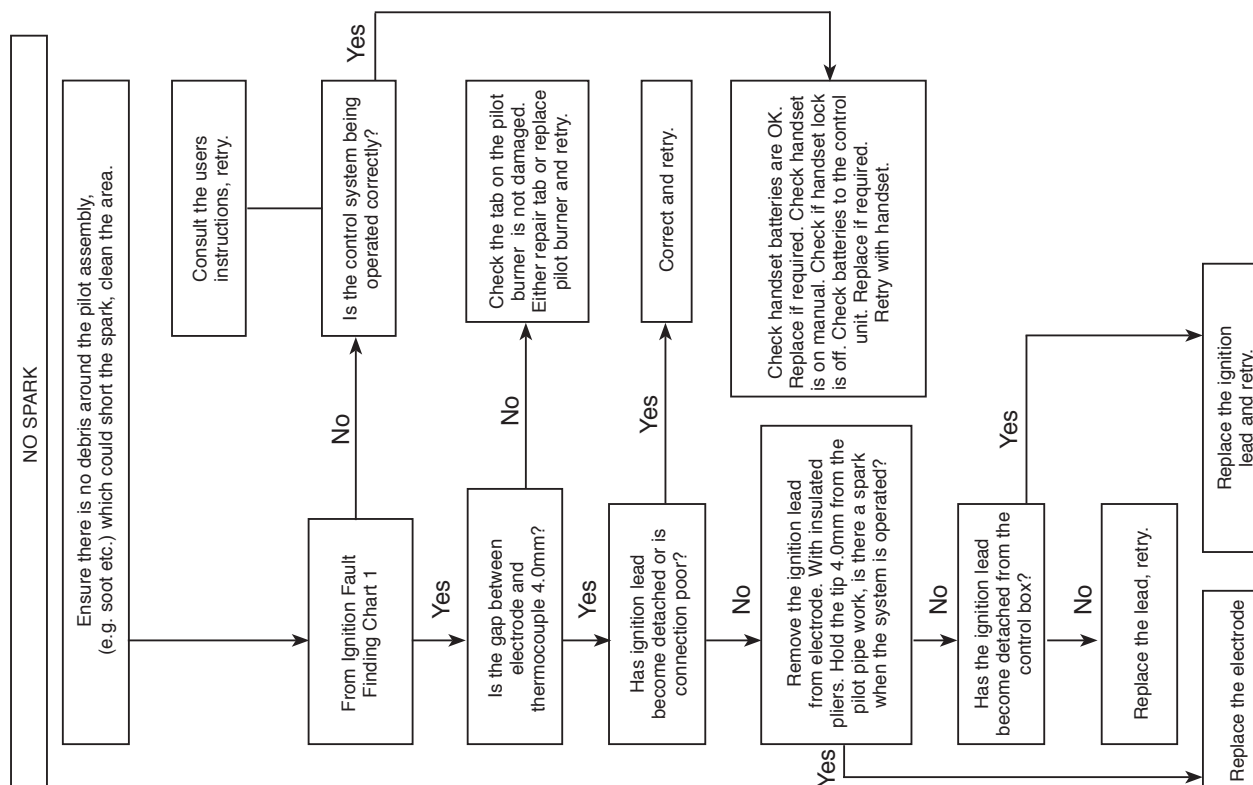
Servicing Instructions

3. Fault Finding Charts continued

FLAME FAILURE FUNCTIONAL CHECK 3



IGNITION FUNCTIONAL CHECK 2



Servicing Instructions - Replacing Parts

1. General

- 1.1 All main components can be replaced without removing the appliance from its installation.

IT IS ESSENTIAL THAT THE GAS SUPPLY TO THE APPLIANCE IS TURNED OFF AT THE ISOLATION DEVICE BEFORE PROCEEDING FURTHER.

- 1.2 **DISCONNECT BATTERIES BEFORE SERVICING THE APPLIANCE.**

Removal of Flue

- 1.3 If, for any reason, the flue has to be removed from the appliance, the seal must be replaced in the inner spigot.

- 1.4 Access to the controls is restricted and the whole control assembly must be removed as one unit, see Section 10.

Troubleshooting



IMPORTANT: In the unlikely event that the handset fails to communicate correctly with the appliance it may be necessary to turn off the gas supply at the isolation valve until any problems can be resolved.

The gas meter and isolation valve can be located outside in a meter box, under the stairs, beneath the kitchen sink or in the garage. Whilst this list is not exhaustive, it is important to be able to identify the location of the valve in case of any gas emergency.

To turn off the gas supply, simply turn the handle so the lever is at 90 degrees to the upright gas pipe.

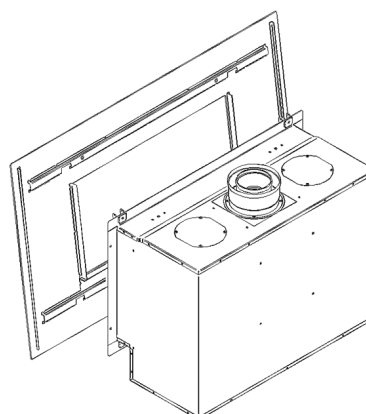
If you smell gas, open doors and windows and never operate any electrical switches.
Immediately call the Gas Emergency Services on 0800 111 999.

2. Decorative Frame

- 2.1 Lift the frame upwards off the 4 support brackets, see Diagram 1.

**NOTE: THE STEEL FRAME IS HEAVY.
TAKE CARE WHEN LIFTING.**

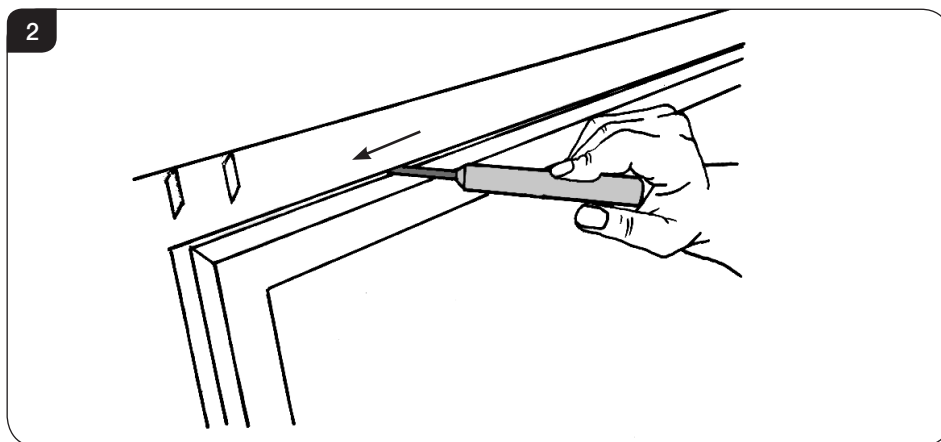
1



Servicing Instructions - Replacing Parts

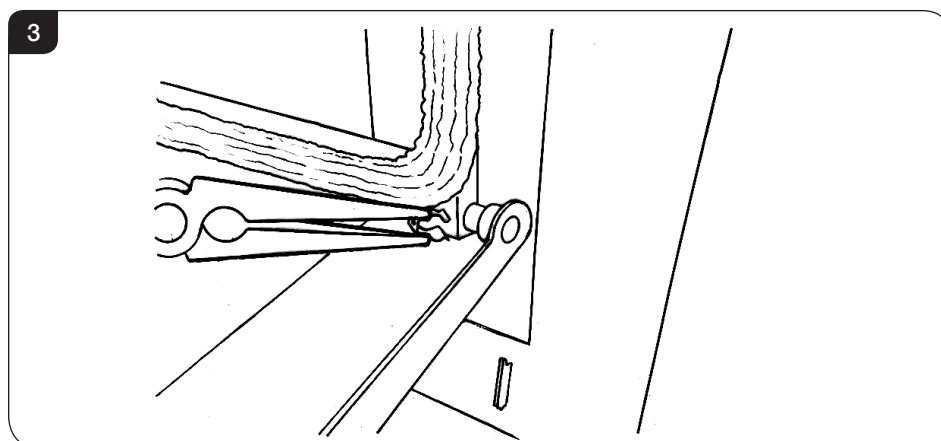
3. Window Frame Assembly

- 3.1 To open the glass door use the hexagon key provided.
- 3.2 Release the window locks by moving them from shut to open towards the outer edges, see Diagram 2.

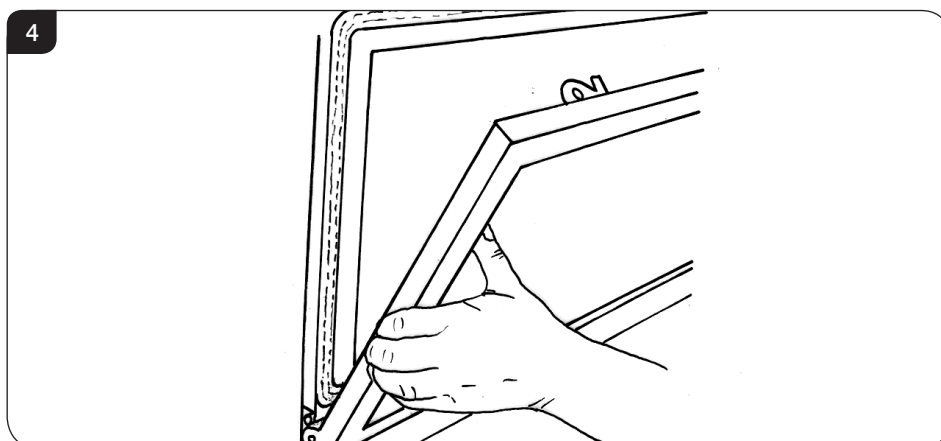


To completely remove the glass front:

- 3.3 Remove the securing spring clip from the bottom-right of the window frame, see Diagram 3.



- 3.4 With the window frame in an upright position slide the frame to the left so that it comes off the left hinge pin.
- 3.5 Still keeping the frame upright drop the left side down and forward slightly, see Diagram 4.
- 3.6 Slide the frame to the right so it comes off the right hinge pin. The window frame should now be free.
- 3.7 Refit in reverse order.
- 3.8 **When closing the door ensure the door catches are fully engaged.**

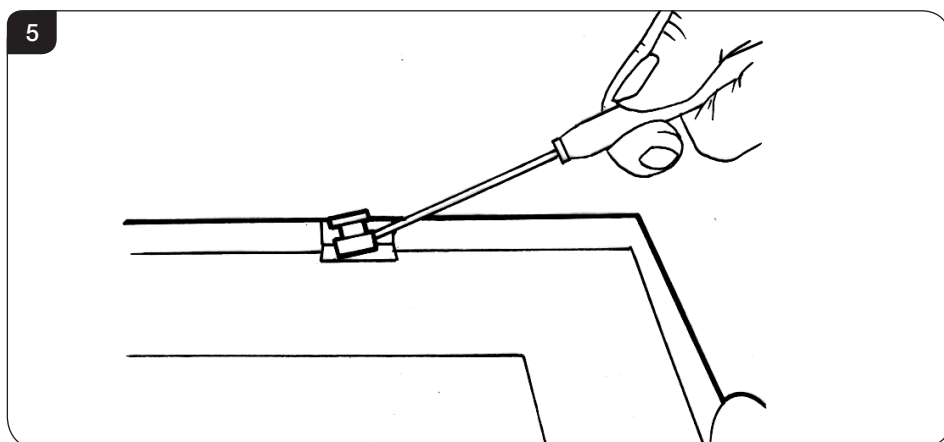


UNDER NO CIRCUMSTANCES SHOULD THE APPLIANCE BE USED WITHOUT THE CATCHES HOLDING THE DOOR IN PLACE.

Servicing Instructions - Replacing Parts

4. Glass Window

- 4.1 Remove the 2 clips and brackets from either side of the frame, see Diagram 5.
- 4.2 Lift the glass clear from the lock bracket at the top of the frame and slide out.



5. Arrangement of the fuel bed

Advice on handling and disposal of fire ceramics



The fuel effect of the log version of this appliance is made from Refractory Ceramic Fibre (RCF), a material which is commonly used for this application.

Protective clothing is not required when handling these articles, but we recommend you follow normal hygiene rules of not smoking, eating or drinking in the work area and always wash your hands before eating or drinking.

To ensure that the release of RCF fibres are kept to a minimum, during installation and servicing a HEPA filtered vacuum is recommended to remove any dust accumulated in and around the appliance before and after working on it. When servicing the appliance it is recommended that the replaced items are not broken up, but are sealed within heavy duty polythene bags and labelled as RCF waste.

RCF waste is classed as stable, non-reactive hazardous waste and may be disposed of at a licensed landfill site.

Excessive exposure to these materials may cause temporary irritation to eyes, skin and respiratory tract; wash hands thoroughly after handling the material.

- 5.1 **White Stone and Glass Fuel Effects:** To replace the white stone effect chippings or glass granules, make sure they are flattened so they are level with the rim of the tray.

It is important to wash the Stone Chippings or Glass Granules to remove any dust particles. Alternatively clean with a low pressure air hose.

- 5.2 **Vermiculite for Log Layout:** Use the entire bag of supplied Vermiculite.

TAKE CARE NOT TO SPILL THE EFFECT INTO THE PILOT AREA.

STACK STONES/GLASS EFFECT IN FRONT OF THE PILOT SHIELD TO OBSCURE THE BLACK METAL SHIELD.

ONLY GENUINE GAZCO PARTS CAN BE USED IN THIS APPLIANCE.

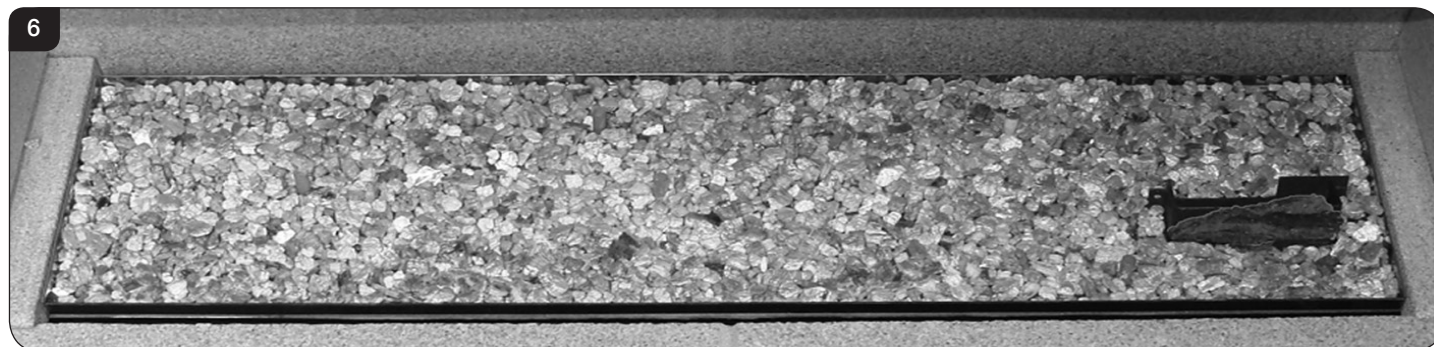
Servicing Instructions - Replacing Parts

6. Log Layout

LOGS MUST BE POSITIONED ACCORDING TO THE FOLLOWING INSTRUCTIONS TO GIVE THE CORRECT FLAME EFFECT

Layout for Studio 1

- 6.1 Use all the vermiculite to fill the burner tray and spread evenly across the whole burner.
- 6.2 Rest the ceramic bark against the front face of the pilot shield, see Diagram 6.



All logs can be identified by a letter (A - H) on their underside. The first three logs, A, B and C, also have holes to locate each onto a burner stud.

- 6.3 Working from left to right place logs A, B and C onto their studs, see Diagram 7.

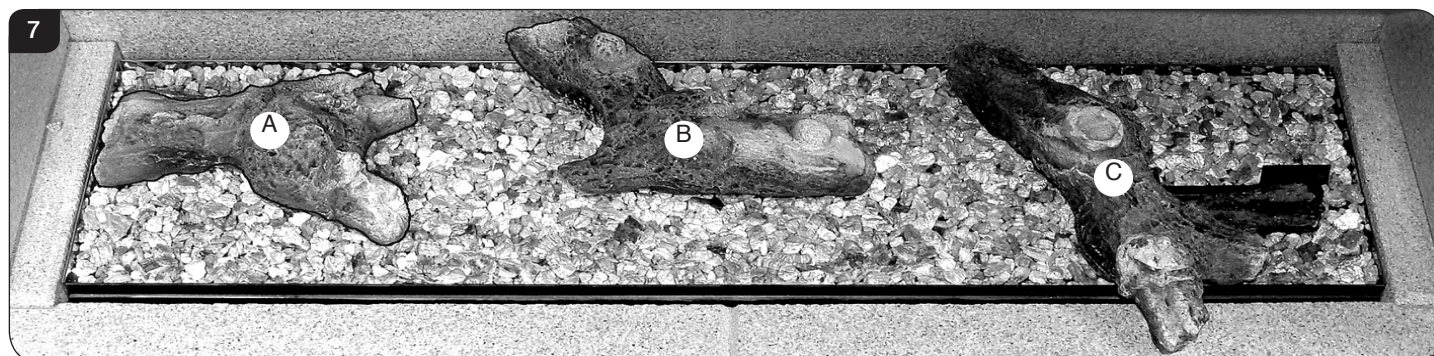
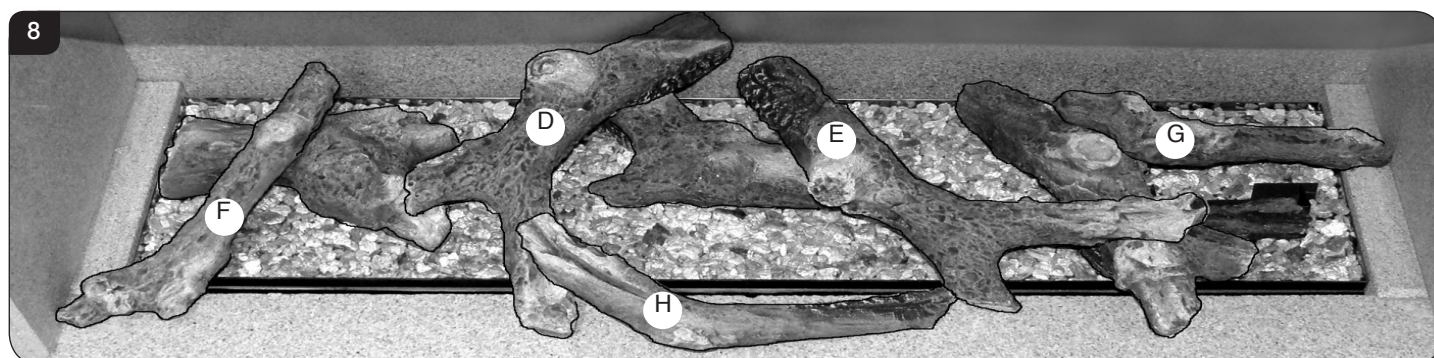


Diagram 8 shows the layout of logs D to H.

- 6.4 Log D has a recess on the underside to fit onto the stud of Log B at the back left. The small branch of the log rests on Log A.
- 6.5 A recess in the back of Log E fits the stud on Log B and its long branch rests snugly behind a wood knot of Log C.



- 6.6 Log F fits centrally onto Log A with its front edge resting on the front panel.

Servicing Instructions - Replacing Parts

- 6.7 Log G is centrally positioned around the moulded wood knot of Log C and rests against the right side panel crossing the pilot shield beneath.
- 6.8 The small branch underneath Log H rests on the front panel and overlaps Log D just touching Log E.
- 6.9 Separate the Embaglow material into smaller pieces and pull into shape to create a fine layer.
- 6.10 Place the pieces of Embaglow between the logs in the highlighted areas shown in Diagram 9. Ensure the material is placed loosely between the logs to create a random glow.



Layout for Studio 2

- 6.11 Preparation of vermiculite and the ceramic bark pilot shield is the same as for Studio 1, see 6.1 and 6.2.

All logs can be identified by the letters (A - J) on their underside. The first four logs, I, A, B and C also have holes to locate each onto a burner stud.

- 6.12 Place logs I, A, B and C onto their studs, see Diagram 10.

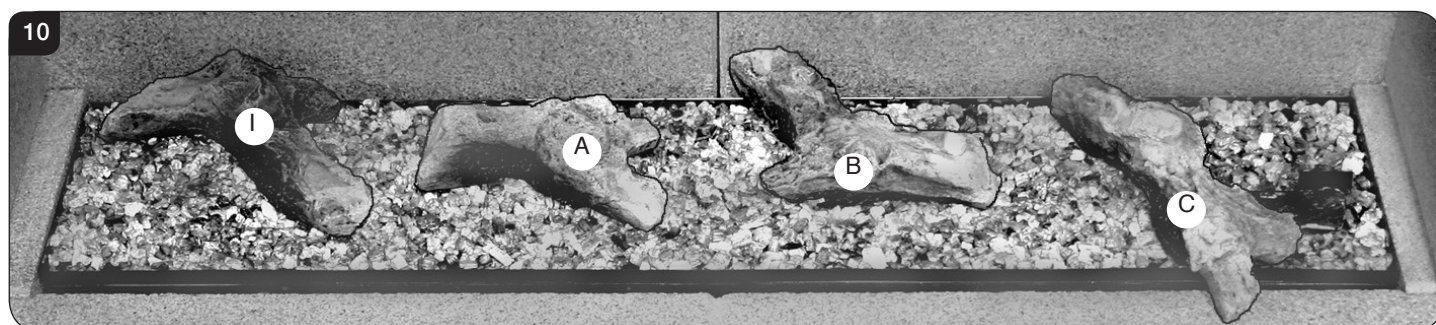
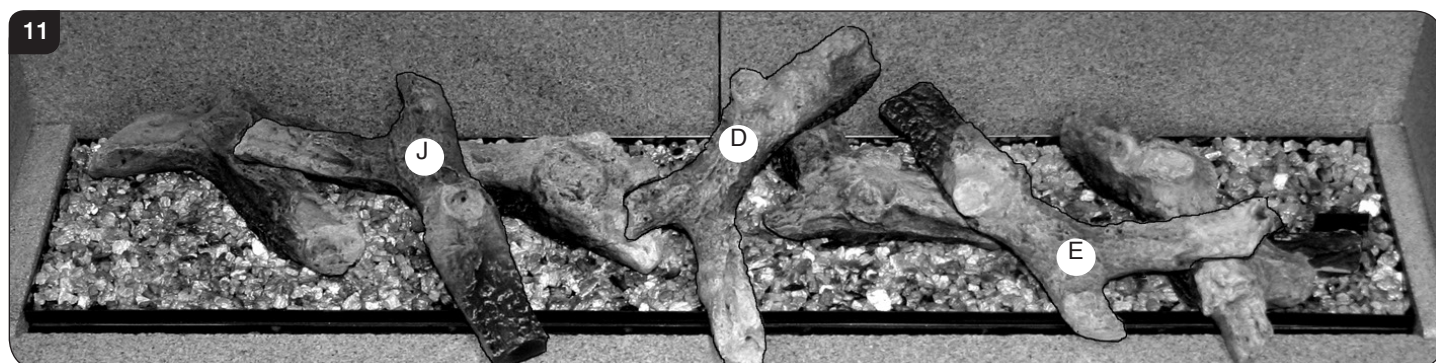


Diagram 11 shows the layout of logs D, E and J.

- 6.13 Log D has a recess on the underside to fit onto the stud of Log B at the back left. The small branch of the log rests on Log A.
- 6.14 A recess in the back of Log E fits the stud on Log B and its long branch rests snugly behind a wood knot of Log C.

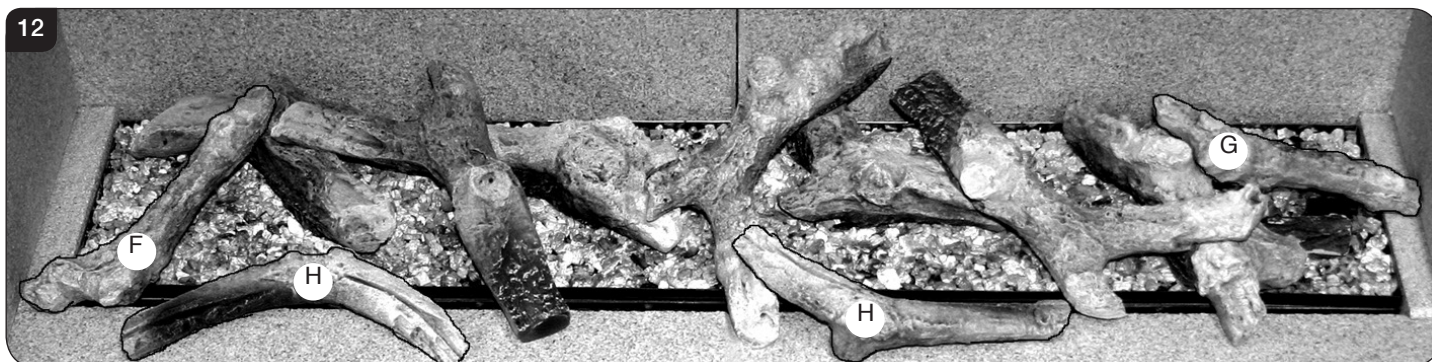


- 6.15 The underside of log J has a moulded 'stop'. This rests about 12mm in from the left edge of Log A. The left branch of Log J also rests in the recess in Log I, see Diagram 11.

Servicing Instructions - Replacing Parts

Diagram 12 shows the layout of the last four logs, F, G and two of log H:

- 6.16 Log F fits centrally onto Log I with its front edge resting on the front panel.
- 6.17 Log G is centrally positioned around the moulded wood knot of Log C and rests against the right side panel crossing the pilot shield beneath.
- 6.18 The first Log H rests on the front panel, overlapping Log D and touching Log E.
- 6.19 The second Log H rests anywhere on the front panel between F and J. **DO NOT LET THIS LOG OVERLAP THE BURNER.**



- 6.20 Separate the Embaglow material into smaller pieces and pull into shape to create a fine layer.
- 6.21 Place the pieces of Embaglow between the logs in the highlighted areas shown in Diagram 13. Ensure the material is placed loosely between the logs to create a random glow.

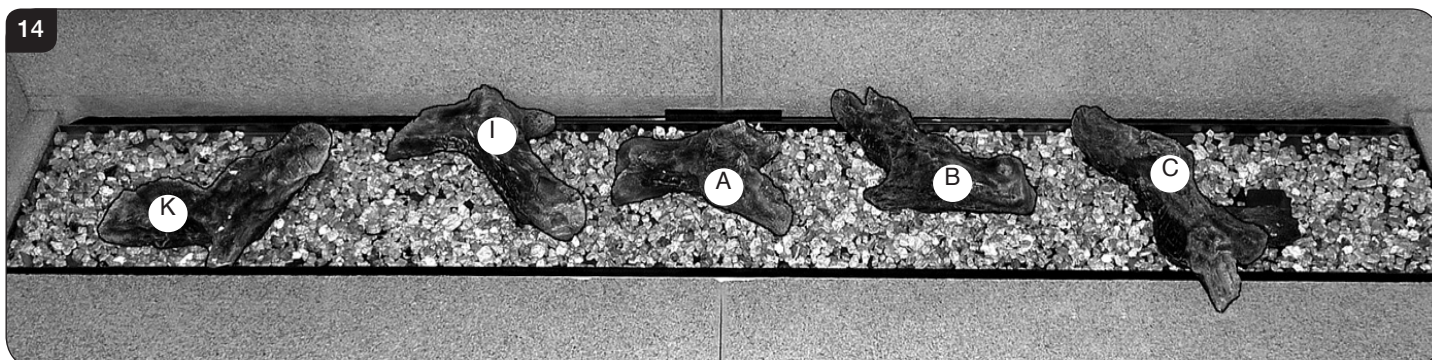


Layout for Studio 3

- 6.22 Use all the vermiculite to fill the burner tray and spread evenly across the whole burner.
- 6.23 Rest the ceramic bark against the front face of the pilot shield, see Diagram 14.

All logs can be identified by the letters (A - K) on their underside. The first five logs, K, I, A, B and C also have holes to locate each onto a burner stud.

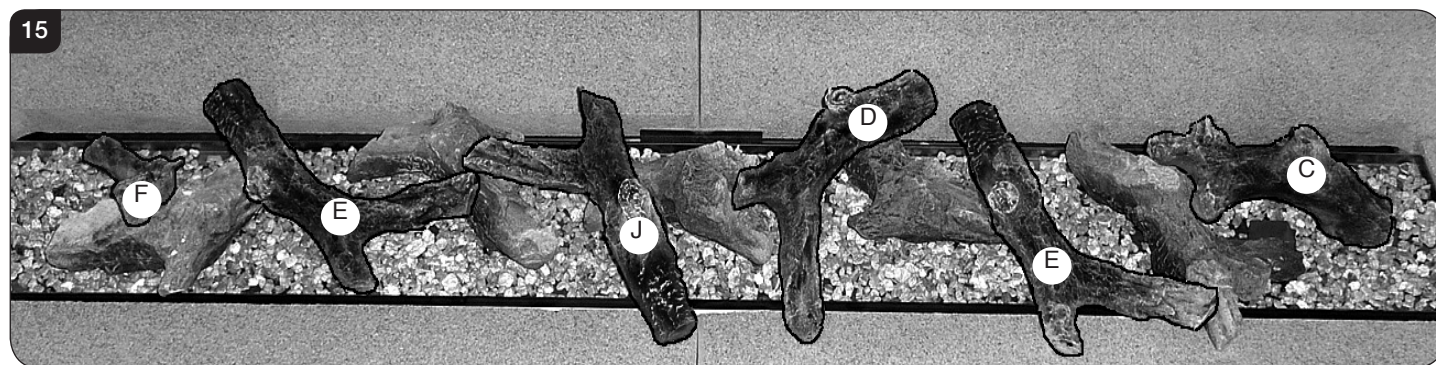
- 6.24 Place logs K, I, A, B and C onto their studs as illustrated in Diagram 14.



Servicing Instructions - Replacing Parts

Diagram 15 shows the layout of logs F, E, J, D, E and C. Working from left to right:

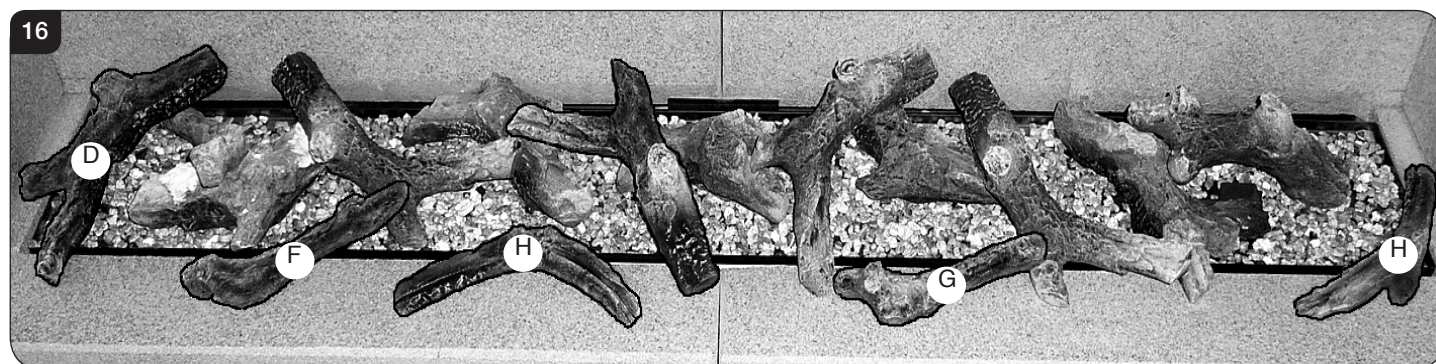
- 6.25 Log F rests in an indent in Log K with the letter on the underside facing down and a top stud lying towards the back left of the burner tray.
- 6.26 Log E fits onto the stud on the back right of Log K. The right-hand branch rests against Log I, see Diagram 15.
- 6.27 The underside of log J has a moulded 'stop'. This rests about 12mm in from the left edge of Log A. The left branch of Log J rests in a recess in Log I, see Diagram 15.



- 6.28 Log D has a recess on the underside to fit onto the stud of Log B at the back left. The small branch of the log rests on Log A.
- 6.29 A recess in the back of Log E fits the stud on Log B and its long branch rests snugly behind a wood knot of Log C.
- 6.30 The fork of the branches of Log C rest around the wood knot of Log C beneath and cross the pilot shield below.

Diagram 16 shows the layout of logs D, E, H, G, H. Working from left to right:

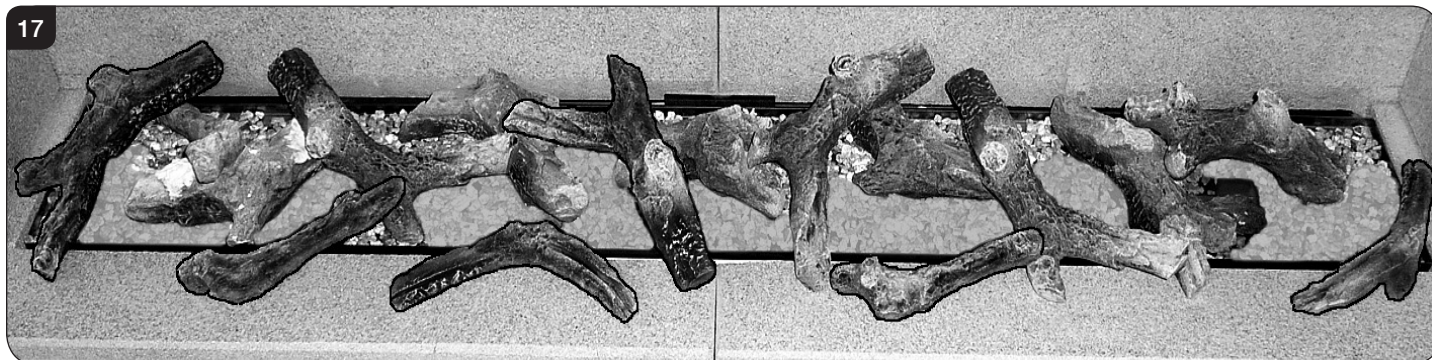
- 6.31 Log D's recess fits the stud at the back left of Log F. The branch must overlap the side and front edge panels, see Diagram 16.
- 6.32 Log F rests on a little notch on the lower branch of Log E and overlaps the front edge panel, see Diagram 16.



- 6.33 Log H rests anywhere on the front panel between F and J.
- 6.34 Log G rests against the lower branch of Log E, see Diagram 16.
- 6.35 The second Log H arches across the side and front panels. DO NOT LET THIS LOG SIT ON THE BURNER TRAY.
- 6.36 Separate the Embaglow material into smaller pieces and pull into shape to create a fine layer.

Servicing Instructions - Replacing Parts

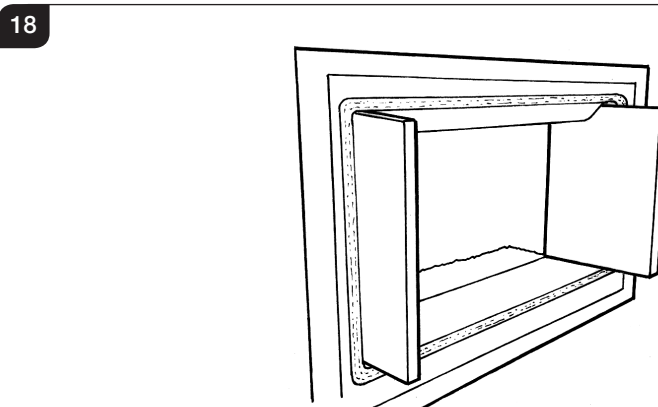
- 6.37 Place the pieces of Embaglow between the logs in the highlighted areas shown in Diagram 17. Ensure the material is placed loosely between the logs to create a random glow.



7. Black Enamelled Panels for Studio with Stone Chippings

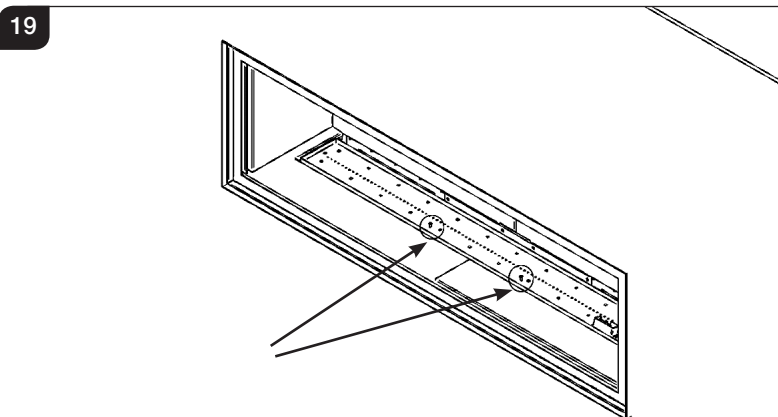
- 7.1 Slide the side panels forward until clear of the appliance, see Diagram 18.

Pull the bottom panel forward and out of the appliance:



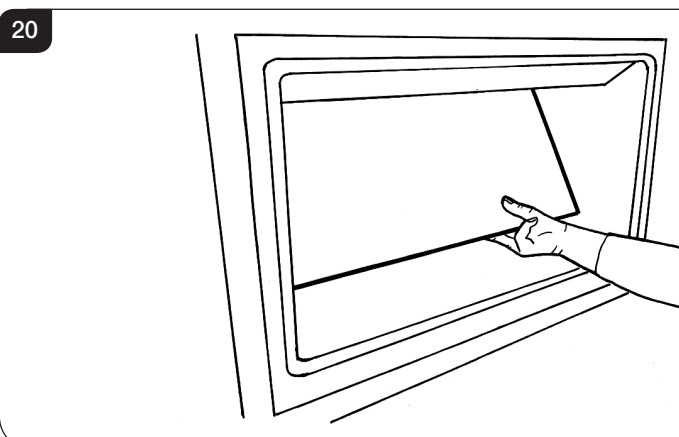
STUDIO 3 BF ONLY

- 7.2 Undo each screw on the left and right front of the burner tray, see Diagram 19.



ALL MODELS

- 7.3 When removing the back panel first remove the main burner, see Section 9.
- 7.4 Slide the lower edge of the back panel forward and lift the panel from the appliance, see Diagram 20.



Servicing Instructions - Replacing Parts

To reassemble the panels in reverse order:

- 7.5 Slide the top of the back panel into place before pushing the lower edge back.
- 7.6 Replace the main burner.
- 7.7 Replace the bottom panel.

8. Vermiculite/ Black Reeded Panels for Studio with Logs

- 8.1 The Studio appliances have the option of two different liner finishes:
Vermiculite
Black Reeded Panels

NOTE: ALL FRONT PANELS AND THE STUDIO 3 REAR PANELS ARE IN TWO PIECES.

STUDIO 1 & 2: HOLD THE REAR PANELS UNTIL ALL THE OTHER PANELS ARE IN PLACE AS THEY CAN FALL FORWARD.

STUDIO 3 HAS A TOP BRACKET TO SECURE THE PANELS THIS MUST BE REMOVED PRIOR TO ATTEMPTING TO FIT THE REAR PANELS.

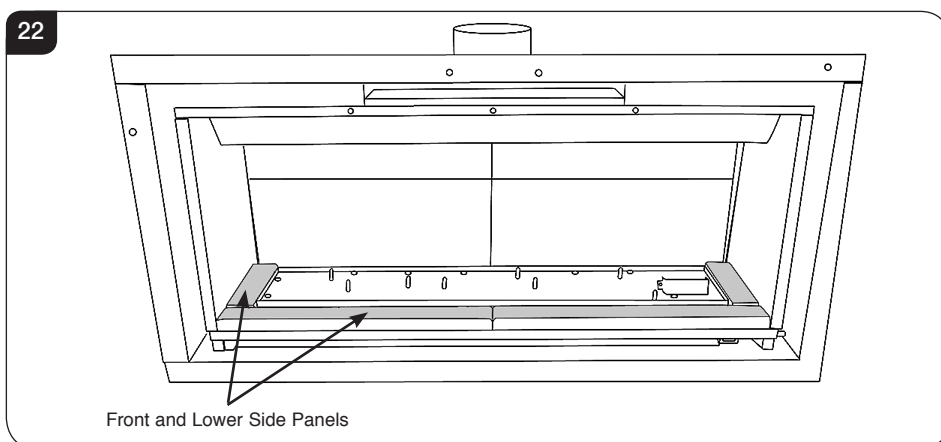
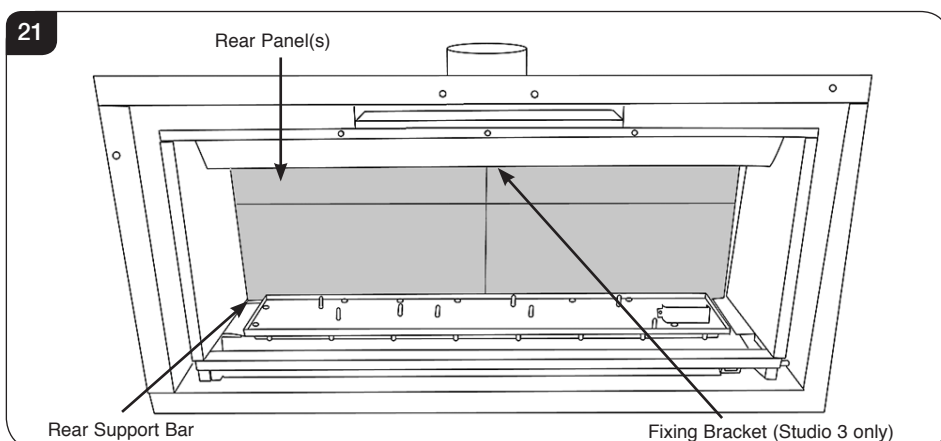
- 8.2 Place the rear panel(s) behind the locating bracket on the rear support bar.

- 8.3 Centralise the rear panel(s) with the chamfers touching and pushed together, see Diagram 21.

If installing the panels on a Studio 3 model replace the L shaped fixing bracket at the top rear of the firebox to hold the 2 rear liners in place.

- 8.4 Place the lower side and front panels in position so the chamfers meet at the front edge of the burner.

- 8.5 Ensure the two-piece front panels are engaged against the centre support tags on the burner and are pushed together in the middle, see Diagram 22.

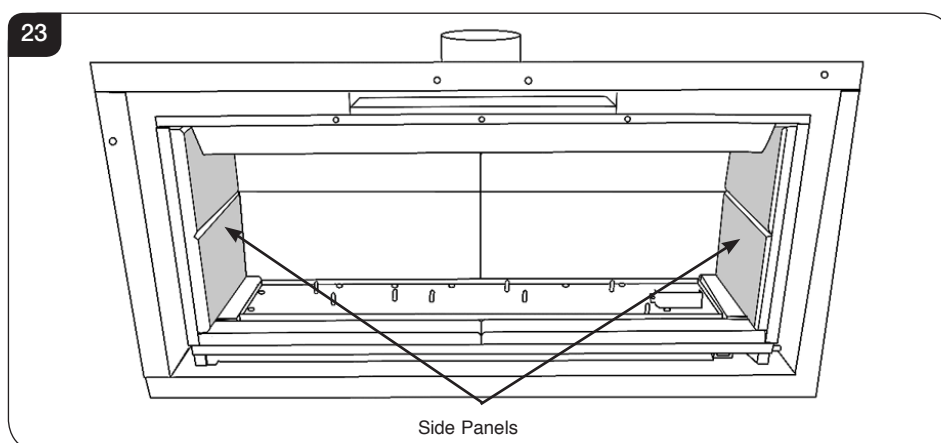


Servicing Instructions - Replacing Parts

- 8.6 Slide the two side panels up to the rear panel, see Diagram 23.

NOTE: THE HORIZONTAL CHAMFERS MUST ALIGN ON THE REAR AND SIDE PIECES.

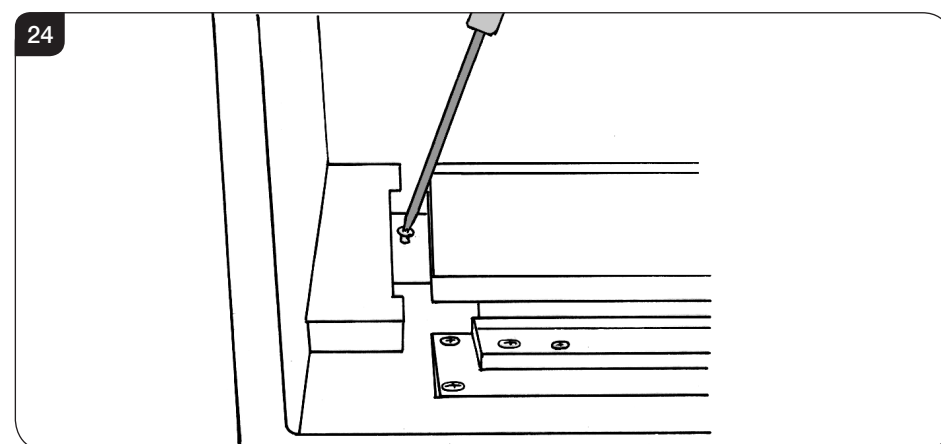
- 8.7 Replace the side panels.



9. Main Burner

To replace the main burner:

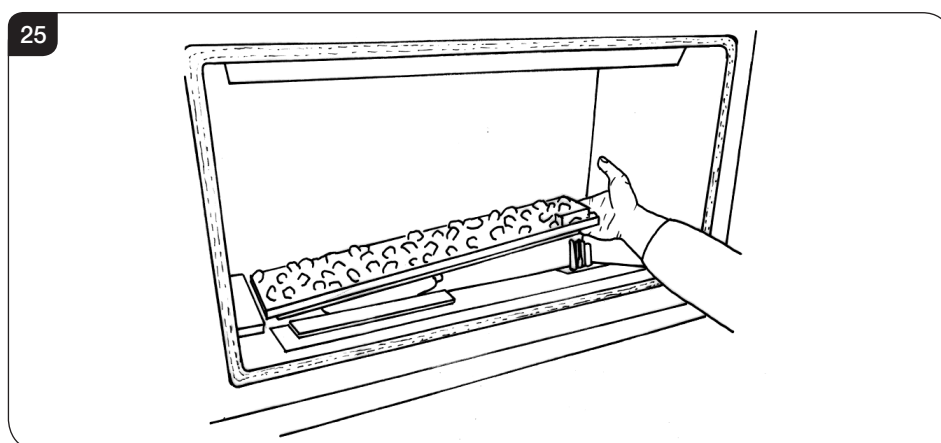
- 9.1 Remove the fuel effect from the burner (Stone/Glass Effect/Vermiculite optional).
- 9.2 Remove the lining panels, see Section 7/8.
- 9.3 Remove the burner securing screw from the left side of the burner, see Diagram 24.



- 9.4 Slide the burner fully to the left and lift the right side clear of the pilot, see Diagram 25.
- 9.5 Slide the burner to the right and out of its location.
- 9.6 Refit in reverse order.
- 9.7 When refilling the fuel effect fill to the level of the rim of the burner tray and flatten level.

TAKE CARE NOT TO SPILL THE EFFECT INTO THE PILOT AREA.

STACK STONES/GLASS EFFECT IN FRONT OF THE PILOT SHIELD TO OBSCURE THE BLACK METAL SHIELD.



Servicing Instructions - Replacing Parts

10. Main Control Assembly

10.1 To access the main control assembly first remove:

- The decorative frame
- Window frame
- Fuel Effect
- Liner panels
- Main burner

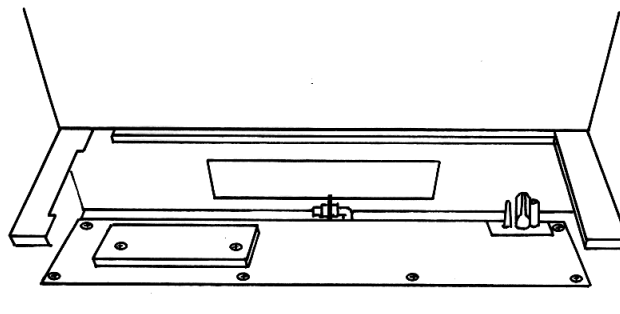
To remove the access panel:

10.2 Undo the 2 screws, see Diagram 26.

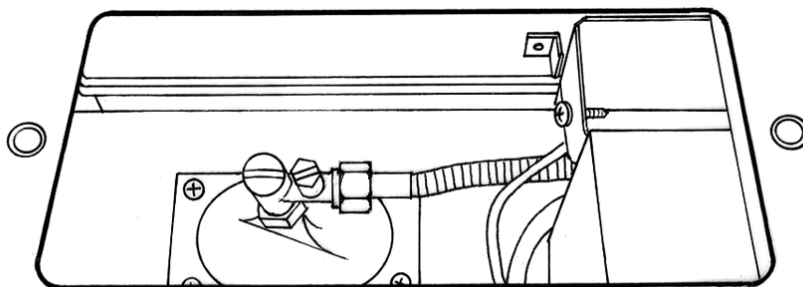
10.3 **Note the orientation of the access panel with the return edges facing forward.**

10.4 Isolate the gas supply at the isolation device and disconnect the gas inlet, see Diagram 27.

26

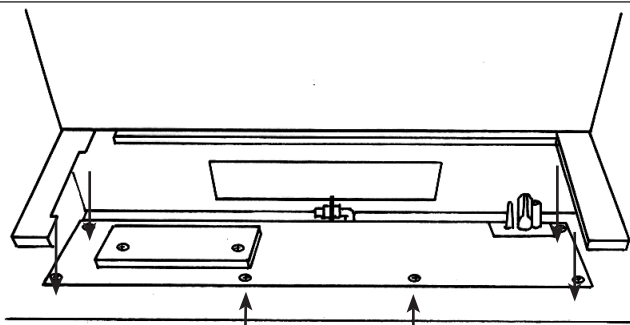


27



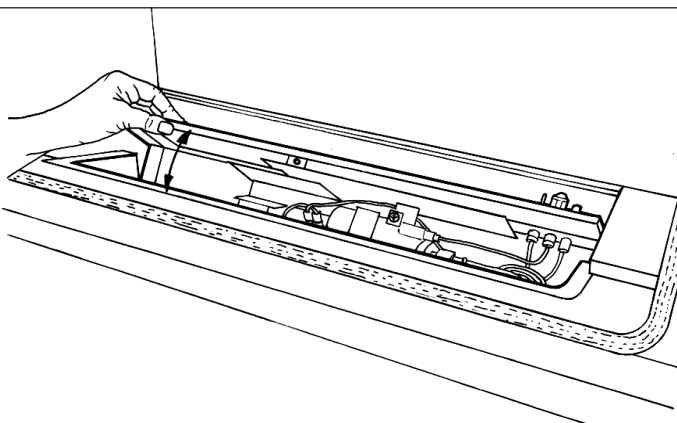
10.5 Remove the 6 screws securing the control assembly, see Diagram 28.

28



10.6 The control panel can now be tilted back to reveal the controls, see Diagram 29.

29



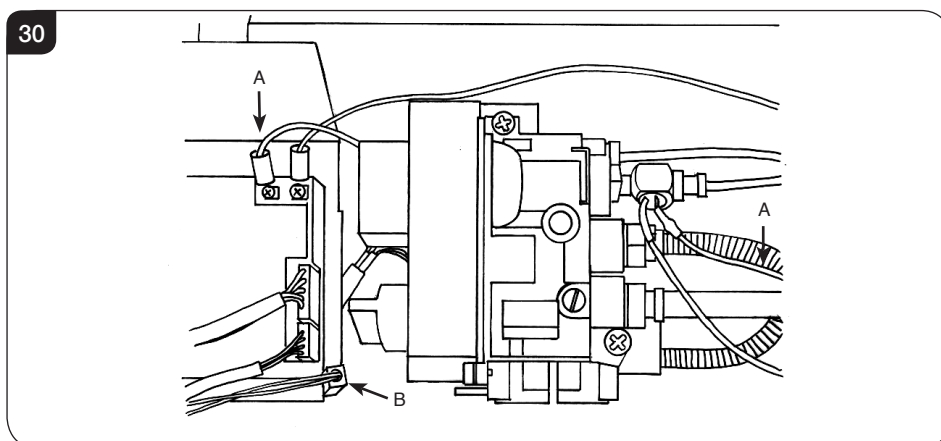
Servicing Instructions - Replacing Parts

10.7 Disconnect the 2 cables marked 'A' in Diagram 30.

10.8 Disconnect the battery extension lead, Diagram 30, B.

The control assembly can now be lifted up and removed.

10.9 Reassemble in reverse order.



11. Pilot Unit

The pilot assembly consists of 4 components, which can be individually changed, these are:

- 11a) Pilot burner bracket.
- 11b) Electrode.
- 11c) Pilot Injector.
- 11d) Thermocouple.

11.1 Before commencing work on the pilot the Main Control Assembly must be removed, see Section 10.

11a. Pilot Burner Bracket

To remove the Pilot Burner Bracket:

11.2 **First remove the electrode, pilot pipe and thermocouple, see 11b, 11c and 11d.**

11.3 Remove the 2 screws securing the bracket. The pilot burner bracket can now be removed.

11.4 Check the pilot gasket and if damaged, replace with a new one.

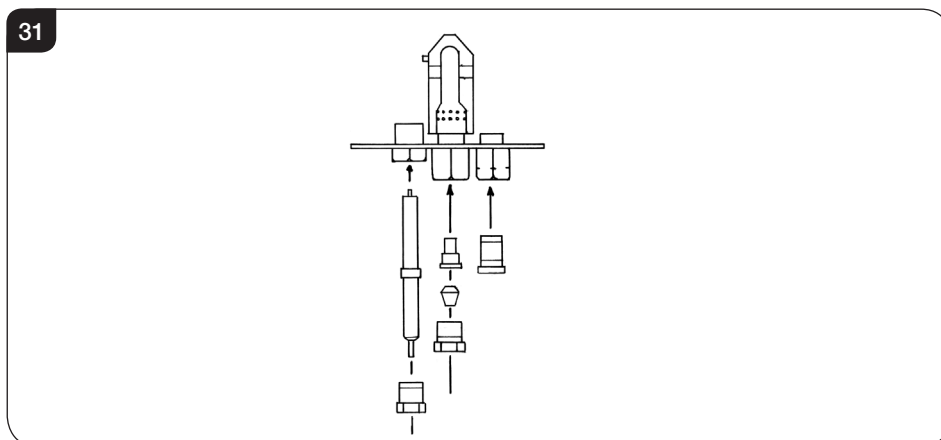
11.5 Replace in reverse order.

11b. Electrode

11.6 Pull the ignition lead off the electrode and undo the retaining nut, see Diagram 31.

11.7 Replace with a new electrode. Do not over-tighten the nut; this could break the component.

11.8 Replace the ignition lead.



Servicing Instructions - Replacing Parts

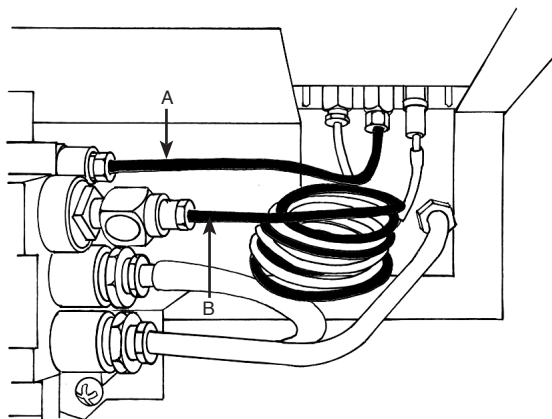
11c. Pilot Injector

- 11.9 Undo the pilot pipe from the gas valve and from the underside of the pilot burner, see Diagram 32 Arrow A, Pilot Connection.
- 11.10 Remove the pipe and the injector drops out from the burner.

11d. Thermocouple

- 11.11 Disconnect the thermocouple from the gas valve/interrupter, see Diagram 32.
- 11.12 Undo the thermocouple nut in the back of the pilot bracket half a turn. This releases the thermocouple.
- 11.13 When replacing with a new thermocouple, take care to bend the new component to the same shape as the thermocouple just removed.
- 11.14 To refit the thermocouple into the pilot bracket, ensure it is pushed fully into the hole. There is a stop on the thermocouple to set the height.
- 11.15 Lock the retaining nut just enough to grip the thermocouple.
- 11.16 Connect the thermocouple to the valve/interrupter **taking care not to over-tighten.**

32

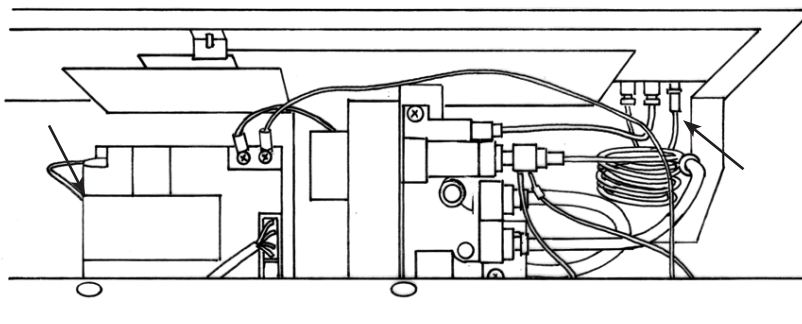


12. Ignition Lead

To replace the ignition lead:

- 12.1 Release the Main Control Assembly and tilt backwards, see Section 10.
- 12.2 Remove the ignition lead from the control box, see Diagram 33.
- 12.3 Remove the ignition lead from the electrode, see Diagram 33 removing cable ties where necessary.
- 12.4 **Note the direction of the lead. The new lead must follow exactly the same route. Replace cable ties where necessary.**

33



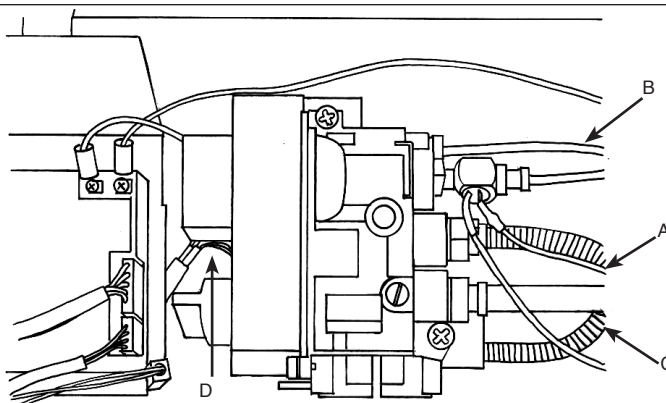
NOTE: THE IGNITION LEAD MUST NOT PASS IN FRONT OF THE CONTROL BOX AS THIS CAN DAMAGE THE SENSITIVE ELECTRONICS.

13. Gas Valve

To change the gas valve:

- 13.1 Remove the Main Control Assembly, see Section 10.
- 13.2 Release the gas inlet pipe, see Diagram 34 Arrow A.
- 13.3 Remove the thermocouple from the interrupter block and release the second thermocurrent cables.

34



Servicing Instructions - Replacing Parts

- 13.4 Release the pilot pipe, see Diagram 34, Arrow B.
- 13.5 Release the gas outlet pipe, see Diagram 34 Arrow C.
- 13.6 Remove the wire cable, see Diagram 34, Arrow D.
- 13.7 Remove the 2 nuts securing the valve to the support bracket and withdraw the valve.
- 13.8 Replace in reverse order.

14. Magnetic Safety Valve

To replace the magnetic safety valve:

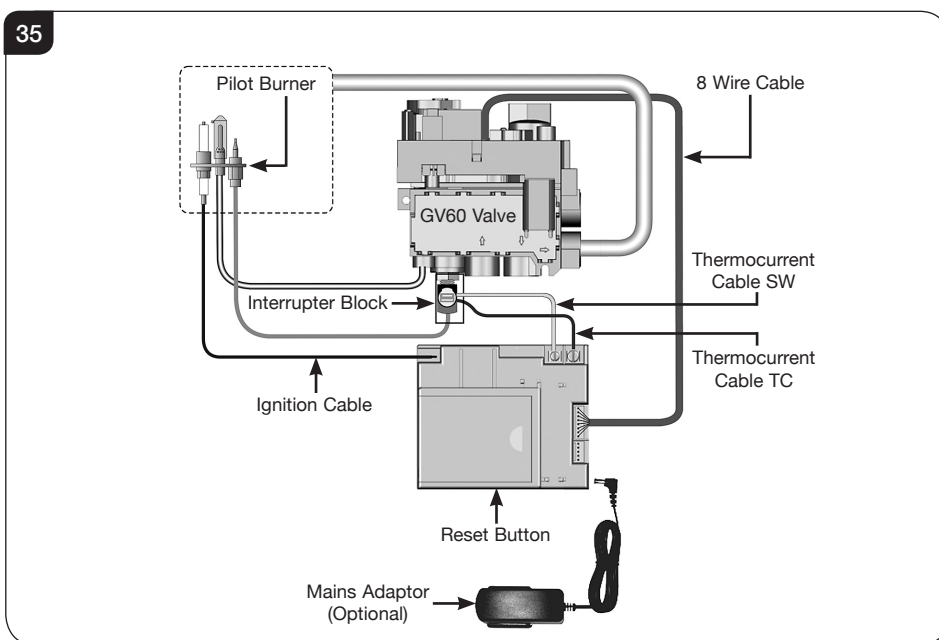
- 14.1 Undo the thermocouple from the interrupter block and remove the 2 interrupter leads.
- 14.2 Unscrew the interrupter block from the back of the valve.
- 14.3 Undo the silver magnetic valve retaining nut on the back of the valve.
- 14.4 Gently tap out the mag valve.
- 14.5 Replace with a new unit.
- 14.6 Reassemble in reverse order ensuring that the interrupter leads are connected correctly with the red tag lead nearest to the gas valve body.

15. Control Box

- 15.1 To replace the control box first remove the main control assembly, See Section 10.
- 15.2 Remove the 2 thermocurrent cables by removing the 2 screws, see Diagram 35.
- 15.3 Remove the ignition lead, Diagram 35.
- 15.4 Remove the eight wire loom from the control box.
- 15.5 Remove the battery extension cable, Diagram 35.

The control box can now be replaced.

When replacing the sealing plate on the rear of the control cover use a suitable silicone sealant.



- 15.6 After replacing the control box you may need to reprogram the handset.
 - Press and hold the reset button on the control box until you hear two signals. After the second longer signal:
 - Release the reset button and within 20 seconds:
 - Press the DOWN button on the handset until you hear two additional short signals confirming the new code is set. If there is a single long signal the code learning sequence has failed or the wiring is incorrect.

Servicing Instructions - Replacing Parts

16. Main Injector

To change the main injector:

- 16.1 Undo the injector feed pipe.
- 16.2 Undo the lock nut from the injector.
- 16.3 Replace with the correct size injector.

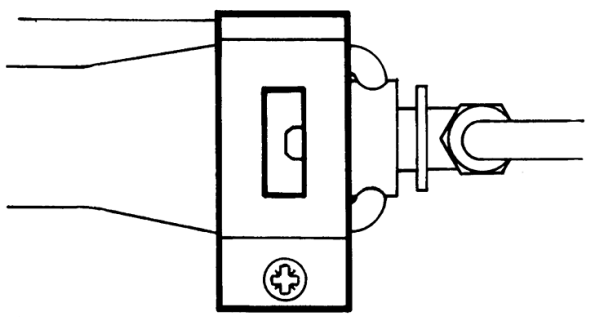
Note: For Studio 3 BF there are 2 main injectors.

17. Primary Aeration Plate

NOT ALL MODELS HAVE AERATION PLATES. REFER TO TECHNICAL SPECIFICATIONS, PAGES 4 & 5.

- 17.1 Remove the burner module as described in Servicing, Section 10.
- 17.2 Remove the fixing screw and slide the plate off the venturi.
- 17.3 Replace with the correct size plate and secure with the screw. Ensure the lower edge of the plate is located over the venturi flange, see Diagram 36.

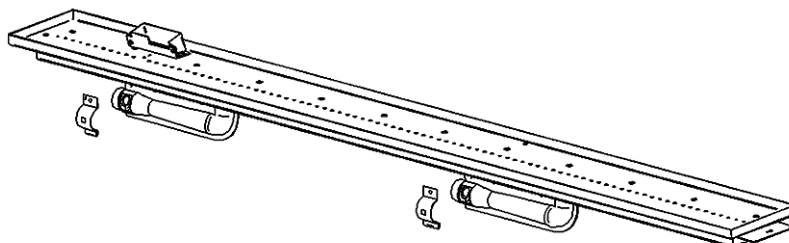
36



Studio 3 BF

The Studio 3 BF has 2 venturi. Ensure the correct aeration plates are fitted. Aeration plates can vary between left and right hand venturi, see Diagram 37.

37



18. Changing Between Gas Types

In order to change between gas types it will be necessary to change both the burner assembly and the complete control assembly.

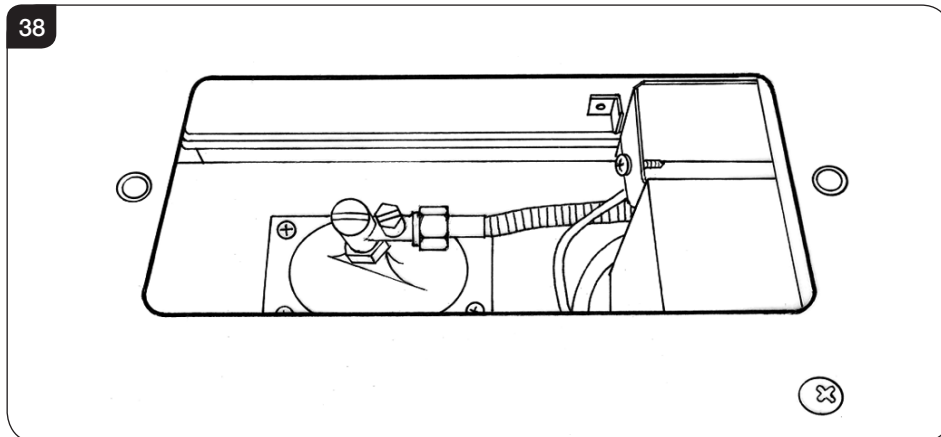
Contact your Gazco retailer for further information.

A kit of parts is available for this. Always quote the Model number and Serial number when ordering any spare parts.

Servicing Instructions - Replacing Parts

19. Pressure and leak testing the appliance

- 19.1 To gain access to the pressure test point, see Diagram 38 and follow Section 10, Main Control Assembly.
- 19.2 To leak test any gas joints on the appliance the control assembly must be undone and tilted backwards, see Section 10.6, Diagram 29.
- 19.3 Because there is now no burner fitted to perform a leak test, place a manometer tube over the injector tip (it is necessary to block both injectors on Studio 3 models).
- 19.4 Light the appliance and spray any



joints with leak detector fluid.

- 19.5 Tighten joints or replace as required.
- 19.6 To check the inlet working pressure, replace the control assembly and connect a manometer to the pressure test point, see Diagram 38.
- 19.7 Replace the burner and relight the appliance.
- 19.8 Operate the appliance at highest flame setting and check that the inlet pressure is in accordance with specifications detailed on pages 4 & 5.

Commissioning

1. Commissioning

1.1 Complete the Commissioning Checklist at the front of this manual covering:

- Flue checks
- Gas checks
- Log layout - flame picture

For working pressure test, use the access panel at the gas connection ensuring the burner is in position. Refer to Installation Instructions, Section 2.

1.2 Ensure all safety checks listed in the Commissioning Section are completed, paying particular attention to the glass panel checks and securing of the glass frame.

1.3 Upon completion of the commissioning and testing of the installation and correct operation of the appliance, the installer must instruct the user how to operate the appliance.

1.4 Guide the user through the User Instructions paying particular attention to:

- a) Regular servicing (Section 9 of the User Instructions).
- b) Ventilation (Section 10 of the User Instructions) - point out the ventilation positions where applicable.
- c) Hot surfaces (Section 12 of the User Instructions).
- d) How the appliance works with the touch pad control (Section 5 of the User Instructions).
- e) How the appliance works with the remote control handset and the modes of operation (Section 2 of the User Instructions).
- f) How to change settings in the auto mode and program modes of operation.
- g) What to do if the appliance fails to operate (Section 13 of the User Instructions).

Reprogramming handset/Control box

To access the control box see Servicing Instructions, Section 10 - Main Control Assembly.

- Press and hold the reset button on the control box until you hear two signals. After the second longer signal:
- Release the reset button and within 20 seconds:
- Press the DOWN button on the handset until you hear two additional short signals confirming the new code is set. If there is a single long signal the code learning sequence has failed or the wiring is incorrect.

Servicing Instructions - Replacing Parts

1. Short Spares List

STONE CHIPPINGS VERSIONS

COMPONENT	STUDIO 1 BF		STUDIO 2 BF		STUDIO 3 BF	
	NG	LPG	NG	LPG	NG	LPG
PILOT INJECTOR	PI0069	PI0086	PI0069	PI0086	PI0069	PI0086
MAIN INJECTOR	IN0007	IN0040	IN0005	IN0041	IN0039	IN0052
BURNER ASSEMBLY	GZ5983	GZ6363	GZ6417	GZ6418	GZ7081	GZ7082
AERATION PLATE	N/A	N/A	GZ2025	N/A	2 x GZ3270	N/A
ELECTRODE	PI0075		PI0075		PI0075	
THERMOCOUPLE	PI0077		PI0077		PI0077	
MAG UNIT	GC0166		GC0166		GC0166	
IGNITION LEAD	GC0125		GC0125		GC0125	
GAS VALVE	GC0123		GC0123		GC0123	
CONTROL BOX	EL0589		EL0589		EL0589	
REMOTE CONTROL	EL0571		EL0571		EL0571	
INTERRUPTER BLOCK	GC0124		GC0124		GC0124	
THERMOCURRENT CABLE	GC0126		GC0136	GC0126	GC0136	
THERMOCURRENT SWITCH CABLE	GC0128		GC0128		GC0145	
TOUCH PAD /WALL PLATE ASSEMBLY	GC0164		GC0164		GC0164	
TOUCH PAD LEAD	GC0144		GC0144		GC0144	
BATTERY HOLDER	EL0410		EL0410		EL0410	
BATTERY CABLE	GC0138		GC0138		GC0138	
CONTROL BOX/ VALVE CABLE	GC0133		GC0133		GC0133	
REAR ENAMELLED PANEL	GZ6491		GZ6622		2 x GZ7290	
SIDE ENAMELLED PANEL	GZ6492		GZ6830		2 x GZ6830	
BASE ENAMELLED PANEL	GZ6493		GZ6623		LH GZ7288 / RH GZ7289	
STONE CHIPPINGS	CE0732		CE0733		CE0734	

Servicing Instructions - Replacing Parts

2. Short Spares List

LOG VERSIONS

COMPONENT	STUDIO 1 BF		STUDIO 2 BF		STUDIO 3 BF
	NG	LPG	NG	LPG	NG
PILOT INJECTOR	PI0069	PI0086	PI0069	PI0086	PI0069
MAIN INJECTOR	IN0007	IN0040	IN0005	IN0058	IN0061
BURNER ASSEMBLY	GZ7456	GZ7457	GZ7460	GZ7461	GZ7521
AERATION PLATE	GZ3966	N/A	GZ3866	N/A	LH-GZ2016 RH-GZ3966
ELECTRODE	PI0075		PI0075		PI0075
THERMOCOUPLE	PI0077		PI0077		PI0077
MAG UNIT	GC0166		GC0166		GC0166
IGNITION LEAD	GC0125		GC0125		GC0125
GAS VALVE	GC0123		GC0123		GC0123
CONTROL BOX	EL0589		EL0589		EL0589
REMOTE CONTROL	EL0571		EL0571		EL0571
INTERRUPTER BLOCK	GC0124		GC0124		GC0124
THERMOCURRENT CABLE TC	GC0136		GC0136		GC0136
THERMOCURRENT CABLE SW	EL0590		EL0590		EL0590
WALL PLATE ASSEMBLY	EL0591		EL0591		EL0591
BATTERY HOLDER	EL0410		EL0410		EL0410
BATTERY CABLE	GC0138		GC0138		GC0138
CONTROL BOX/VALVE CABLE	GC0133		GC0133		GC0133
VERMICULITE (LOOSE)	CE0745		CE0746		CE0747
LOG SET	CE0696		CE0729		CE0739
EMBAGLOW PACK	GZ8471				

LINERS						
	STUDIO 1 BF		STUDIO 2 BF		STUDIO 3 BF	
	Vermiculite	Black Reeded	Vermiculite	Black Reeded	Vermiculite	Black Reeded
LINER BASE SIDE PIECE (2 PER APPLIANCE)	CE0673	CE1243	CE0673	CE1243	CE0673	CE1243
LINER BASE FRONT L/H PIECE	CE0677	CE1224	CE0689	CE1233	CE0736	CE1238
LINER BASE FRONT R/H PIECE	CE0706	CE1227	CE0707	CE1237	CE0737	CE1242
LINER BACK PANEL	CE0678	CE1225	N/A	N/A	N/A	N/A
LINER SIDE PANEL (2 PER APPLIANCE)	CE0679	CE1226	CE0679	CE1226	CE0679	CE1226
LINER BACK PANEL L/H SIDE	N/A	N/A	CE0690	CE1234	CE0738	CE1239
LINER BACK PANEL R/H SIDE	N/A	N/A	CE0727	CE1235	CE0735	CE1240

Service Records

1ST SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

2ND SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

3RD SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

4TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

5TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

6TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

7TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

8TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

9TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

10TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Retailer's Stamp/Installer Registration Number

Distributed by



The Fireplace
Head Office & Showroom
12 Tawari Street Mt Eden,
Auckland ph 09 623 6996
www.thefireplace.co.nz

Manufactured by

Gazco Limited, Osprey Road, Sowton Industrial Estate, Exeter, Devon, England EX2 7JG
Technical Customer Services (01392) 261950 Fax: (01392) 261951
E-mail: technicalservices@gazco.com

A member of the Stovax Group
Adapted from English Issue 16

E & O E



PR2096