



Avanti Range

Inset Convector Fire - Balanced Flue
with Thermostatic Remote Control



Instructions for Use, Installation & Servicing

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 COMPLYING WITH BS 8423 (LATEST EDITION) 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 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.

It is essential that ALL of the screws that retain the glass frame are replaced and tightened correctly. Under no circumstances should the appliance be operated if any of these screws are loose or missing.

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.

The commissioning sheet found on Page 3 of this Instruction manual must be completed by the Installer prior to leaving the premises.



It is a requirement of the Building Regulations 2010 that the installation of this appliance is notified to the Local Authority. It is the responsibility of the GasSafe registered installer to carry out this notification to the Local Authority via the GasSafe register Competent Persons Scheme in England and Wales (different rules apply in Scotland and Northern Ireland).

When the installation has been notified, GasSafe will send a Building Regulations Compliance Certificate to you containing details of the work completed. Please ensure that the person responsible for the installation of this appliance completes this notification and records it in the Appliance Commissioning Checklist on page 3.

IT IS YOUR RESPONSIBILITY TO COMPLY WITH THE BUILDING REGULATIONS AND BE ABLE TO PRODUCE THIS CERTIFICATE SHOULD IT BE REQUIRED IN THE FUTURE.



In the event of a gas escape or if you can smell gas, please take the following steps:

- Immediately turn off the gas supply at the meter/emergency control valve

Extinguish all sources of ignition

- Do not smoke
- Do not operate any electrical light or power switches (On or Off)
- Ventilate the building(s) by opening doors and windows
- Ensure access to the premises can be made

Please report the incident immediately to the National Gas Emergency Service Call Centre on 0800 111 999 (England, Scotland and Wales) , 0800 002 001 (N. Ireland) or in the case of LPG, the gas supplier whose details can be found on the bulk storage vessel or cylinder.

The gas supply must not be used until remedial action has been taken to correct the defect and the installation has been recommissioned by a competent person.



APPLIANCE COMMISSIONING CHECKLIST

To assist us in any guarantee claim please complete the following information:-

IMPORTANT NOTICE

Explain the operation of the appliance to the end user, hand the completed instructions to them for safe keeping, as the information will be required when making any guaranteed claims.

FLUE CHECK	PASS	FAIL
1. Flue Is correct for appliance		
2. Flue flow Test N/A		
3. Spillage Test N/A		
GAS CHECK		
1. Gas soundness & let by test		
2. Standing gas pressure	mb	
3. Appliance working pressure (on High Setting) Minimum Pressure Requirement: NG - 17.5mbar LPG - 34.5mbar NB All other gas appliances must be operating on full	mb	
4. Gas rate	m ³ /h	
5. Does Ventilation meet appliance requirements?		
SAFETY CHECK		
1. Check soundness of the Thermocouple connections - including tightness and lead integrity		
2. Glass checked to ensure no damage, scratches, scores or cracks		
3. Glass frame secured correctly and all screws replaced		
4. CO Alarm Fitted		
BUILDING CONTROL NOTIFICATION	YES	NO
1. Installer notified GasSafe/Local Authority of installation via Competent Persons Scheme?		

RETAILER AND INSTALLER INFORMATION

Retailer

Installation Company

.....

.....

.....

.....

Contact No.....

Engineer.....

Date of Purchase

Contact No.....

Model No.

GasSafe Reg No.

Serial No.....

Date of Installation

Gas Type





AVANTI INSET CONVECTOR - BALANCED FLUE

GAS TYPE	AVANTI 65	AVANTI 85
NAT GAS	128-077	128-092
LPG	-	128-468

CONTENTS

Appliance Commissioning Checklist 3

User Instructions 6

Installation Instructions 14

Technical Specifications 16

Site Requirements 19

Installation 22

Commissioning 52

Servicing Requirements 53

Fault Finding 53

How to replace parts 56

Information Requirement - Gas Heaters 65

Spare parts list 66



CONSUMER SUPPORT VIDEO:
www.onyxfires.com/support/AvantiGas





Service that goes above and beyond

Congratulations on becoming a new owner of an Onyx stove or fire – welcome to the family.

When you own an Onyx product, you can expect the very best in British stove and fire design and engineering, bringing exceptional heating performance to your home along with character and individuality.

We take great care to ensure that our stoves are designed, tested and manufactured to the highest possible quality standards, and pride ourselves on offering the same exemplary after-sales service that goes above and beyond, assuring you years of enjoyment from your Onyx purchase.



USER INSTRUCTIONS

GENERAL

Installation and servicing must only be carried out by a competent person whose name appears on the GasSafe register. To ensure the engineer is registered with GasSafe they should possess an ID Card carrying the following logo:



In all correspondence, please quote the appliance type and serial number, which can be found on the data badge located on a plate under the main burner.

Do not place curtains above the appliance:
You must have 300mm clearance between the appliance and any curtains at either side.

No furnishings or other objects should be placed within 1 metre of the front of the appliance.

If a shelf is fitted, a distance of 200mm above the appliance is required.

If any cracks appear in the glass panel do not use the appliance until the panel has been replaced.

Do not obstruct the flue terminal in any way i.e. by planting flowers, trees shrubs etc. in the near vicinity, or by leaning objects up against the terminal guard.

Do not put any objects on the terminal guard; it will lose its shape.

Do not use a garden sprinkler or hose near the terminal.

This product is guaranteed for 5 years from the date of installation, as set out in the terms and conditions of sale between Onyx and your local Onyx retailer. Please consult with your local Onyx retailer if you have any questions. In all correspondence always quote the Model Number and Serial Number.

CO ALARMS

Building regulations require that whenever a new or replacement fixed gas burning appliance is installed in a dwelling, a carbon monoxide alarm complying with BS EN 50291-1 (latest edition) must be fitted in the same room as the appliance. Further guidance and recommendations on the installation of carbon monoxide alarms is available in BS EN 50292 (latest edition) and from manufacturers' instructions.

Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance.

OPERATING THE APPLIANCE



To activate the Remote Control it will be necessary to cradle the handset to unlock.

The green light will illuminate to show the handset is ready to use.

IMPORTANT: Continue to cradle the handset throughout an operation to keep it unlocked.

If the green light goes off during an operation it will be necessary to reposition the handset so the light comes back on and restart the operation.



HANDSET FEATURES



The Icon at the bottom of the screen displays the battery condition of both the batteries in the handset and in the Control Box alternately.

RC = Remote Control Handset
FC = Fire Control (Control Box)



If the handset has been replaced or the fire has been serviced, see Installation Section to set up the handset.

MANUAL OPERATION (REMOTE CONTROL)



To activate the Remote Control it will be necessary to cradle the handset to unlock. The green light will illuminate to show the handset is ready to use.
IMPORTANT: Continue to cradle the handset throughout an operation to keep it unlocked. If the green light goes off during an operation it will be necessary to reposition the handset so the light comes back on and restart the operation.

TURNING THE APPLIANCE ON

Press the Power Button until Pilot flashes on the display.

Release the Power Button and the Flame symbol will appear on the display.

If the button is held the command will be cancelled for safety reasons.

Holding the handset to unlock, use + and - buttons to adjust the flame height between Minimum and Maximum.

TURNING THE APPLIANCE OFF

Holding the handset to unlock, press the power button to turn the appliance off.



IMPORTANT: YELLOW FLAMES TYPICALLY APPEAR WHEN THE APPLIANCE HAS REACHED NORMAL OPERATING TEMPERATURE. THIS CAN TAKE UP TO 30 MINUTES.



WARNING: IF THE APPLIANCE FAILS TO LIGHT OR BECOMES EXTINGUISHED IN USE, WAIT 3 MINUTES BEFORE ATTEMPTING TO RELIGHT.

THE APPLIANCE WILL TAKE 3 AUTOMATIC ATTEMPTS TO RESTART. DO NOT INTERRUPT THE VALVE DURING THIS PROCESS.

SETTING TIMER MODE (IN MANUAL OPERATION)

Timer Mode will turn the appliance off after a set period of time has elapsed.

Timer Mode can be set before or during manual operation of the fire.



Note: If Timer mode is activated and the fire is manually turned off, the timer will be cancelled. Changes to the Timer will reset to the default time on next use.

If the fire is off when the Timer mode is set then the timer will automatically start when the fire is turned on.

Hold the handset to unlock and press and release the MODE button. The word MAN and the Zzz symbols flash at the top of the display.

Press and release the SET button.
This will activate the Timer mode.

The default time period is 1 hour, unless altered in Advanced Settings.

Pressing the SET button again will show the remaining time. This can be altered by pressing the + or - buttons. The timer can be set between 1 minute and 24 hours.

After adjusting the time press SET again to confirm the time setting desired.

Once the countdown has reached zero the fire will turn off.

THERMOSTATIC MODE

The handset contains a thermostatic sensor to control the operation of the appliance according to the temperature of the room.

There are 3 temperature options that can be set:

Day Mode - indicated by a Sun symbol on the display (default temperature 24°C)

Night Mode - indicated by a Moon symbol on the display (default temperature 18°C)

Frost Protection - indicated by a Snowflake symbol on the display (default temperature 5°C)

PROGRAMMING THE MODES

Holding the handset to unlock, press and hold the SET button until a beep is heard to indicate the command has been received.

Release the SET button. PROG and a flashing thermometer symbol will be displayed at the top of the display.

Press and release the SET button to enter Day Mode. The current temperature setting and mode will be displayed- for example the Sun symbol on the left shows it is in Day Mode and the default temperature is 24°C.

To change the temperature press + or - whilst the set temperature is displayed to alter the setting.

Press and release the SET button to confirm and to scroll to the Night Mode.

To change the temperature press + or - whilst the set temperature is displayed to alter the setting.

Press and release the SET button to confirm and to scroll to Frost Protection mode.

To change the temperature press + or - whilst the set temperature is displayed to alter the setting.

When finished press the SET button again and the new settings will be accepted.

The display will return to the time of day screen.

CHOOSING A MODE

When choosing a mode during operation the temperature can be temporarily changed, however these settings will reset to the previously set programmed settings when the fire is turned off.

Holding the handset to unlock, press and release the MODE button several times until a thermometer symbol flashes at the top of the display.

Press the SET button to enter the Thermostatic mode.

Press the Set button again to see the current temperature setting and mode - for example the a Sun symbol on the left shows it is Day Mode and the default temperature is 24°C.

With the temperature displayed, press + or - to alter the setting.

Press the MODE button repeatedly to scroll through the settings and to select Night mode or Frost Protection.

The handset must be left in the chosen mode for it to operate.

When finished press SET again and the new setting will be accepted.
The display will return to the time of day screen.

If at any time the power button is operated during Thermostatic Mode the control will cancel any thermostat operation and return the handset to Manual Mode.

SETTING TIMER MODE (IN THERMOSTATIC OPERATION)

Timer Mode will turn the appliance off after a set period of time has elapsed.
Timer Mode can be set before or during thermostatic operation of the fire.

Hold the handset to unlock, press and release the MODE button until the word MAN and the Zzz symbols are flashing at the top of the display.

Press and release the SET button.
This will activate the Timer mode.

The default time period is 1 hour, unless altered in Advanced Settings.

Pressing the SET button again will show the remaining Time.
This can be altered by pressing the + or - buttons.
The timer can be set between 1 minute and 24 hours.

After adjusting the time press SET again to confirm the time setting desired.

Once the countdown has reached zero the fire will turn off.



Note: If Timer mode is activated and the fire is manually turned off, the timer will be cancelled. Changes to the Timer will reset to the default time on next use.

If the fire is off when the Timer mode is set then the timer will automatically start when the fire is turned on.

SETTING THE CLOCK

To adjust the time on the handset after initial set up:

Holding the remote to keep the green light on and the handset unlocked:

Press and hold the SET button until a beep is heard to indicate the command has been received.

Release the SET button. PROG will be displayed at the top left of the display.

Press the MODE button twice until SET UP flashes in the top right of the display.

Press and release the SET button. The handset will display an H:24.



24 denotes a 24 hour clock and 12 denotes a 12 hour clock.

Press the + or - button on the handset to toggle between the two settings.
Press the SET button to confirm and progress to setting the day of the week.

SETTING THE DAY OF THE WEEK

Press and release the + and - buttons until the correct day of the week is shown on the display.



Mo = Monday, **Tu** = Tuesday, **We** = Wednesday, **Th** = Thursday, **Fr** = Friday, **Sa** = Saturday and **Su** = Sunday.

Press SET to confirm the day of the week and progress to setting the time.

SETTING THE HOUR

Press and release the + or - button to change the hour to the correct hour. Press SET to confirm and progress to setting the minute.



SETTING THE MINUTES

Repeat the process to change the minutes.

SETTING THE TEMPERATURE DISPLAY (CELSIUS OR FAHRENHEIT)

Press and release the + or - button to toggle between C and F. When the display shows the desired symbol, press and release the SET button to store.



To enter Advanced Settings, see below. To finish, place the handset down and wait until the home screen is displayed and the unlock light goes off.

! ALL THE NECESSARY SETTINGS REQUIRED HAVE NOW BEEN COMPLETED. ANY FURTHER FUNCTIONS ON THIS HANDSET ARE FOR FACTORY SETTING AND NOT TO BE USED.

The Handset is now ready to operate the appliance.

ADVANCED MENU SETTINGS

It is possible to change additional preset settings of the control features.

Access the Advanced Menu Settings. Press and release the SET button to enter the Advanced Settings Menu.

Advanced Settings are:

Back Light (L)

- A = Automatic (default setting).
The backlight comes on in the dark.
- O = Light never comes on.
- 1 = Light comes on when the handset is unlocked.

Display Contrast (C)

- 8 Levels from 0 - 7 (Default level 4).

P = Pairing with devices other than the Control Box.
This feature is not available on this appliance.



IMPORTANT: THE FURTHER FUNCTIONS ON THIS HANDSET ARE FOR FACTORY SETTING ONLY AND ARE NOT TO BE USED. PLACE THE HANDSET ON A FLAT SURFACE AND WAIT UNTIL THE HOME SCREEN IS DISPLAYED AND THE UNLOCK LIGHT TURNS OFF.

CHANGING THE DEFAULT TIMER MODE

It is possible to change the default time period for the Timer mode.

The default time period for Timer mode is factory set to 1 hour.

To change the default time:

Holding the remote to keep the green light on and the handset unlocked:

Press and hold the SET button until a beep is heard to indicate the command has been received.

Release the SET button. PROG will be displayed at the top left of the display.

Repeatedly press the MODE button until the Zzz symbol flashes at the top of the display.

Press and release the SET button.

Press the + or - buttons to alter the default time period. The timer can be set between 1 minute and 24 hours.

After adjusting the time press SET again to confirm.

Note: This does not activate the Timer mode, see Installation Section, Manual Operation or Thermostatic Mode.

REPLACING THE APPLIANCE BATTERIES

Replace batteries at least every 12 months during the annual service of the fire.

i It is essential to use high quality batteries (Duracell or equivalent) when replacing batteries.

The icon at the bottom shows the battery condition of both the batteries in the handset and in the Control Box alternately.



RC = Remote Control Handset
FC = Fire Control (Control Box)

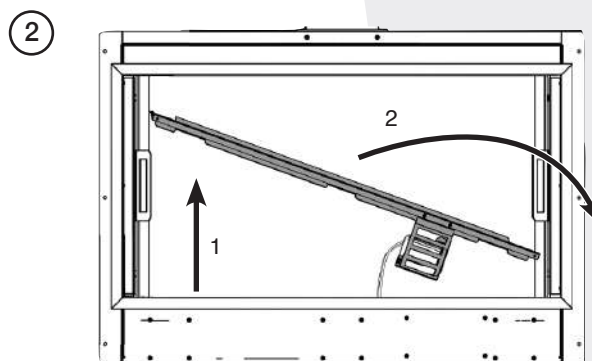
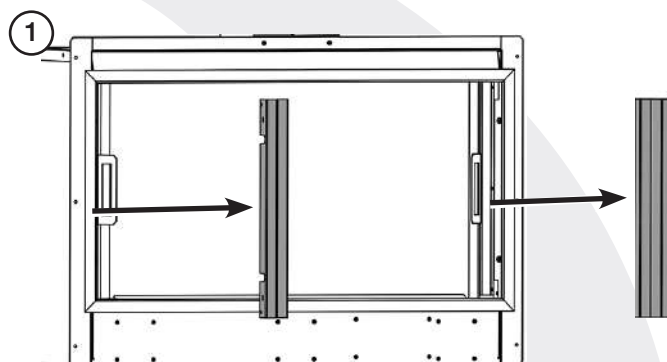
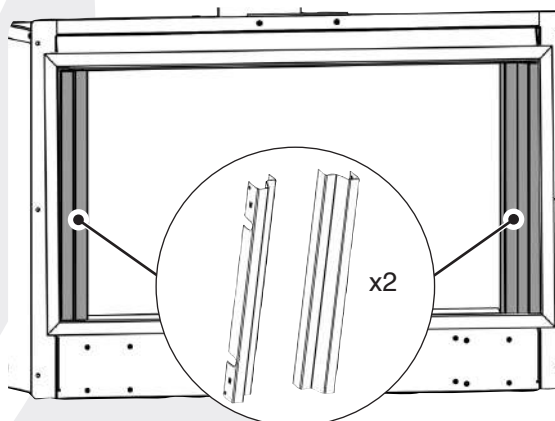
i Note: Change the batteries in the handset before they are flat, to avoid having to reprogram the time of day in again. N.B. Pairing is not lost, even if the batteries are removed or flat.

The appliance Control Box requires 3 AA size alkaline batteries.

The handset requires 2 AA size alkaline batteries.

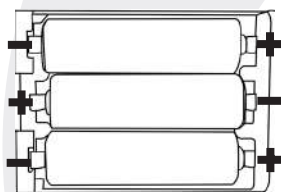
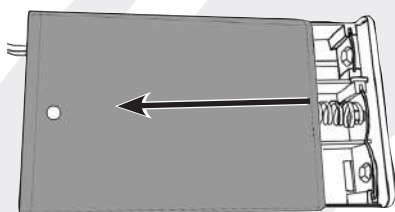
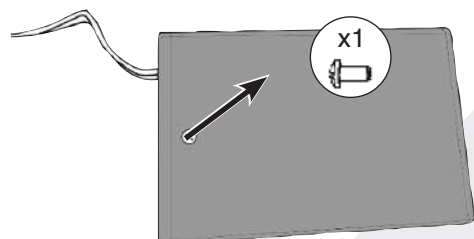
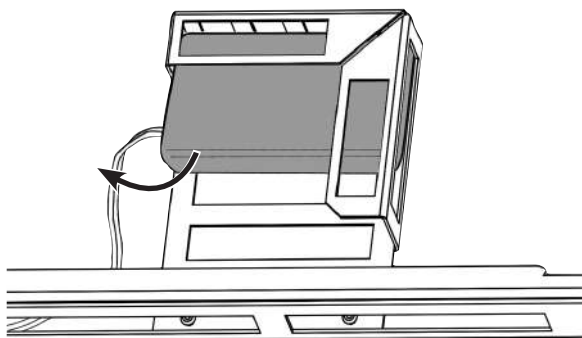
CONTROL BOX

The Control Box Battery Holder is located at the front of the appliance.

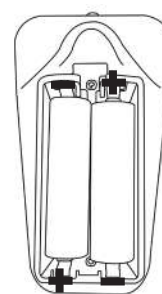


TAKE CARE NOT TO DAMAGE THE FRAME.

3



REMOTE CONTROL



If the appliance is left unattended for long periods of time (e.g. vacation), it is recommended to remove the batteries from the front of the appliance.



PLEASE ENSURE NO WIRES ARE TRAPPED BEFORE REPLACING THE LOWER SLOTTED TRIM. THE LEADS ARE EASILY DAMAGED.

Re-assemble in reverse order

FLAME FAILURE DEVICE

This is a safety feature incorporated on this appliance which automatically switches off the gas supply if the pilot goes out and fails to heat the thermocouple.

IF THIS OCCURS DO NOT ATTEMPT TO RELIGHT THE APPLIANCE FOR 3 MINUTES.



WARNING: IF THE APPLIANCE FAILS TO LIGHT OR BECOMES EXTINGUISHED IN USE, WAIT 3 MINUTES BEFORE ATTEMPTING TO RELIGHT.

THE APPLIANCE WILL TAKE 3 AUTOMATIC ATTEMPTS TO RESTART. DO NOT INTERRUPT THE VALVE DURING THIS PROCESS.

RUNNING IN

During initial use of a new Onyx appliance a strong odour will be encountered as various surface coatings become hot for the first time. Although these odours are harmless it is recommended that the appliance is operated on maximum for 4 to 8 hours in order to fully burn off these coatings. After this period the odours should then disappear.

If the odours persist, please contact your installer for advice.

During the first few hours of burning there may be discolouration of the flames. This will also disappear after a short period of use.

SERVICING AND SUPPORT



Servicing and Support

To keep your appliance looking and performing at its best, it must be serviced annually. This service must be undertaken by a suitably qualified individual and your retailer can organise this for you. Alternatively, Onyx offer a manufacturers premium service with our friendly team of qualified engineers which can be booked at www.onyxfires.com/support

In all correspondence always quote the Model number and the Serial number which may be found on the Commissioning Checklist (Page 3).

VENTILATION

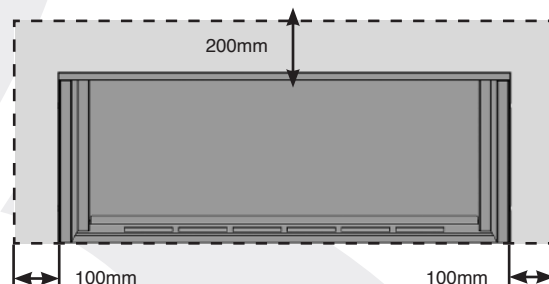
Any purpose provided ventilation should be checked periodically to ensure that it is free from obstruction.

INSTALLATION DETAILS

Your installer should have completed the commissioning sheet at the front of this book. This records the essential installation details of the appliance. In all correspondence always quote the Model number and Serial number.

HOT SURFACES

Parts of this appliance become hot during normal use. The shaded areas in the diagram are considered 'working surfaces'.



Appliance:
extremely hot

Surrounding Wall:
hot to touch

Provide a suitable fire guard to protect young children, the elderly and infirm.

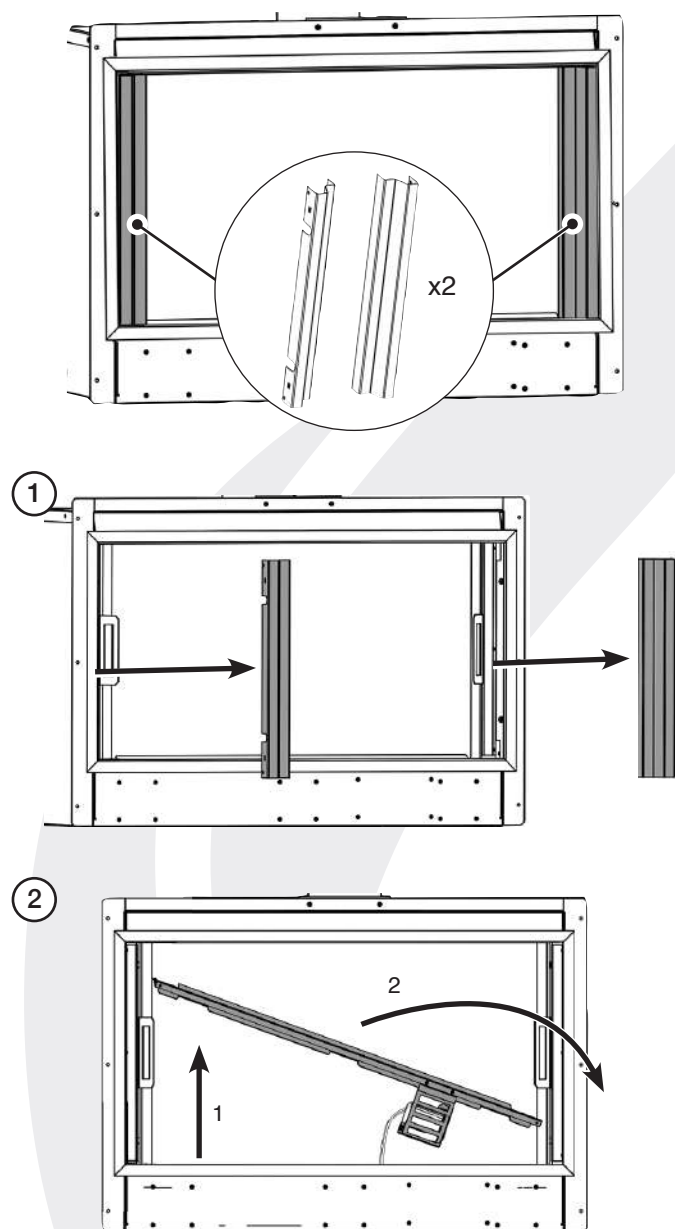
APPLIANCE WILL NOT LIGHT

If you cannot light the appliance:

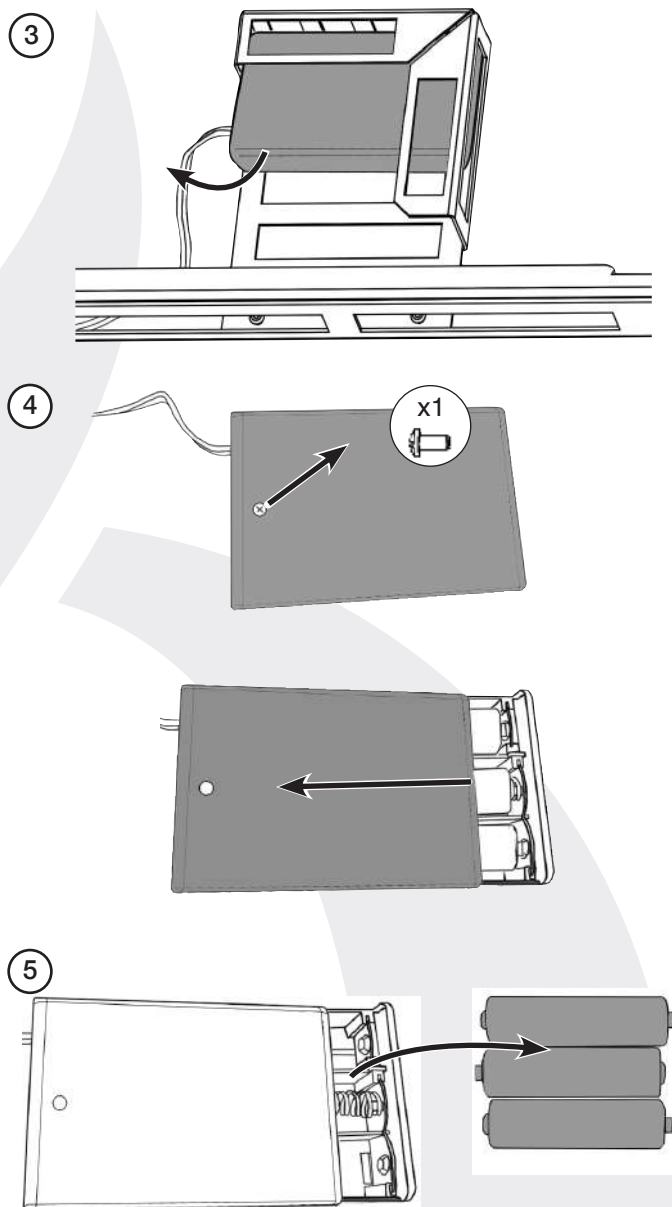
- Check and change the batteries in the remote handset.
- Check and change the appliance batteries
- Consult your Onyx retailer or installer if the appliance still does not light.

SEASONAL USE

If the appliance is left unattended for long periods of time (e.g. vacation), it is recommended to remove the batteries from the appliance



TAKE CARE NOT TO DAMAGE THE FRAME.



INSTALLATION INSTRUCTIONS

APPLIANCE LOCATION

This appliance can be installed in four different ways:

- 1) Builder's opening with a frame
- 2) Builder's opening without a frame
- 3) Stud work with a frame
- 4) Stud work without a frame

Where no frame is used, an edge kit is available to enable the installer to plaster to a finished edge.

Combustible parts of the studwork must not be any closer than the minimum dimensions shown in the diagrams.

NOTE: These dimensions must be maintained even if the combustible materials are protected by non-combustible linings.

Do not pack the void around or above the appliance with insulation materials such as mineral wool.

An access hatch must be left in the side of the chimney breast for future servicing and inspection of the flue and appliance.

Build the studwork chimney breast to the desired size. Ensure that the clearances to combustible materials are maintained.

SAFETY PRECAUTIONS

For your own and other's safety, you must install this appliance according to local and national codes of practice. Failure to install the appliance correctly could lead to prosecution. **Read these instructions before installing and using this appliance.**

These instructions must be left intact with the user.

Do not attempt to burn rubbish on this appliance.

Keep all plastic bags away from young children.

Do not place any object on or near to the appliance and allow adequate clearance above the appliance.

IF THE APPLIANCE IS EXTINGUISHED OR GOES OUT IN USE, WAIT 3 MINUTES BEFORE ATTEMPTING TO RELIGHT THE APPLIANCE.



IMPORTANT: REFER TO DATA BADGE AND TECHNICAL SPECIFICATION AT THE FRONT OF THE MANUAL TO ENSURE THE APPLIANCE IS CORRECTLY ADJUSTED FOR THE GAS TYPE AND CATEGORY APPLICABLE IN THE COUNTRY OF USE.

UNPACKAGING

Remove the appliance from its packaging, and check that it is complete and undamaged.

Put the loose ceramic parts to one side so that they are not damaged during installation.

TIMBER FRAMED BUILDINGS

It will be necessary to provide additional clearance when the flue passes through a wall containing any combustible materials so as to prevent a fire hazard.

The hole through which the flue will pass, must have a steel sleeve which is positioned so that an air gap of at least 25mm is maintained between the outer surface of the flue, and any part of the sleeve.

For further guidance on the installation of gas appliances in timber framed buildings, contact your local buildings control authority.

FLUE & CHIMNEY REQUIREMENTS

Note: This appliance must only be installed with the flue supplied.

The following must be adhered to:
The flue must be sited in accordance with BS5440: Part 1 (latest edition).

Fit a guard to protect people from any terminal less than 2 metres above any access such as level ground, a balcony or above a flat roof.

All vertical and horizontal flues must be securely fixed and fire precautions followed in accordance with local and national codes of practice.

Two types of flue terminals are available, horizontal and vertical.

To measure for a horizontal terminal decide on the terminal position.

Measure the height from the top of the appliance to the centre of the required outlet.

For minimum and maximum flue dimensions see relevant sections.

A restrictor may be required. Refer to Technical Specifications.

Allow enough room either above or to the side of the appliance to assemble the flue on top.

Assemble a horizontal flue in the following order:

- Vertical section
- 90° elbow
- Horizontal plus terminal

Support the opening of a masonry installation with a lintel.

Only the horizontal terminal section can be reduced in size.

GAS SUPPLY

THIS APPLIANCE IS INTENDED FOR USE ON A GAS INSTALLATION WITH A GOVERNED METER.

Make sure local distribution conditions (identification of the type of gas and pressure) and the adjustment of the appliance are compatible before installation.

Ensure the gas supply delivers the required amount of gas and is in accordance with the rules in force.

Soft copper tubing can be used on the installation and soft soldered joints outside the appliance and below the firebed.

A factory fitted isolation device is part of the inlet connection; no further isolation device is required.

All supply gas pipes must be purged of any debris that may have entered prior to connection to the appliance.

The gas supply enters through the silicone panel located on the LEFT and RIGHT-HAND side on the REAR of the outer box. Slit with a sharp knife prior to passing the supply pipe through.

The gas supply must be installed in a way that does not restrict the removal of the appliance for servicing and inspection.

VENTILATION

The installation of this product requires no additional ventilation modifications to the building.

However, it will be necessary to ensure the housing for the appliance has vents provided to allow air to circulate and prevent overheating.

CO ALARMS

Building regulations require that whenever a new or replacement fixed gas burning appliance is installed in a dwelling, a carbon monoxide alarm complying with BS EN 50291-1 (latest edition) must be fitted in the same room as the appliance. Further guidance and recommendations on the installation of carbon monoxide alarms is available in BS EN 50292 (latest edition) and from manufacturers' instructions.

Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance.

TECHNICAL SPECIFICATION

Covering the following models:

GAS TYPE	AVANTI 65	AVANTI 85
NAT GAS	128-077	128-092
LPG	-	128-468

MODEL	APP. CAT.	GAS TYPE	WORKING PRESSURE	AERATION	INJECTOR	GAS RATE M ³ /H	INPUT KW (GROSS)		COUNTRY
							HIGH	LOW	
AVANTI 65	I ₂ H	Natural Gas G20	20mbar	2 x 8mm	400	0.552	5.8	3.9	GB, IE
AVANTI 85	I ₂ H	Natural Gas G20	20mbar	2 x 10mm	560	0.714	7.5	4.2	GB, IE
	I ₃ P	Propane G31	37mbar	2 x 18 mm	200	0.252	6.7	4.0	
Efficiency Class 1 - Avanti 65 NG - 89.1%									
Efficiency Class 1 - Avanti 85 NG - 90.3%									
Efficiency Class 1 - Avanti 85 LPG - 91.9%									
Flue Outlet Size Ø 100mm									
Flue Inlet Size Ø 152mm Ø									
Gas Inlet Connection Size Ø 8mm									

i The net efficiency of this appliance has been measured as specified in EN613:2021 and the result after conversion to gross using the appropriate factor from Table E4 of SAP 2012 is 80.27% for the Avanti 65 NG, 81.36% for the Avanti 85 NG and 84.63% for the Avanti 85 LPG. The test data has been certified by Kiwa Nederland BV. The gross efficiency value may be used in the UK Government's Standard Assessment Procedure (SAP) for energy rating of dwellings.

This appliance has been certified for use in countries other than those stated. To install this appliance in these countries, it is essential to obtain the translated instructions and in some cases the appliance will require modification. Contact Onyx for further information.

PACKING CHECKLIST

QTY DESCRIPTION	FIXING KIT CONTAINING:
1 x Appliance 1 x Log Set	1 x Instruction Manual 6 x Wood Screws 6 x Wall Plugs 1 x Handset 5 x AA cell batteries 1 x Battery holder 1 x Foam seal 1 x Quick Start Guide 1 x Bag Embaglow material

TECHNICAL SPECIFICATION

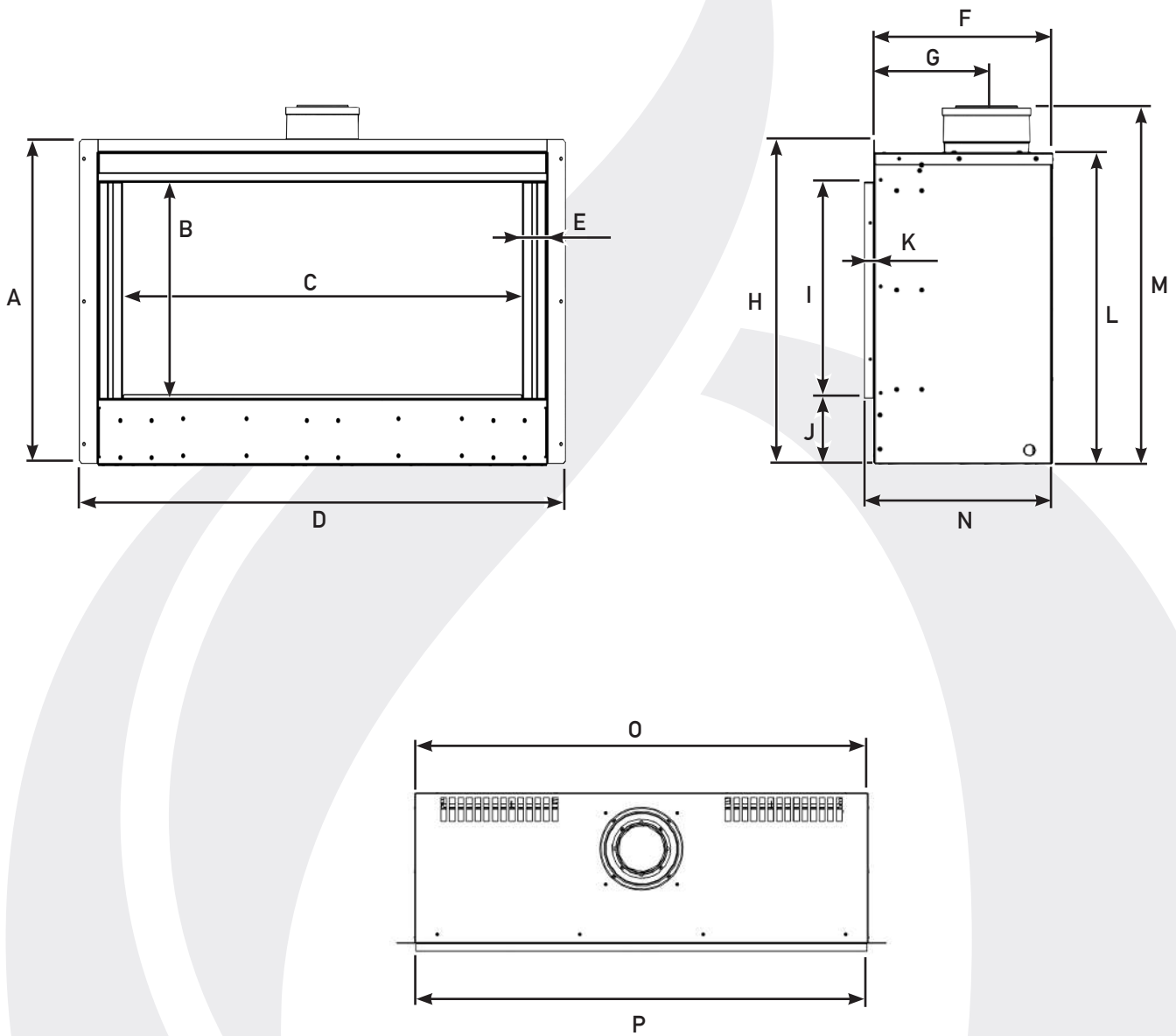
RESTRICTOR REQUIREMENT - VERTICAL & HORIZONTAL FLUE SPECIFICATION

AVANTI 65					
Nat Gas					
Vertical Flue Height	Horizontal Length	Restrictor Size			
500mm - 1499mm	Up to 500mm	None			
1500mm - 3000mm	Up to 6000mm	None			
AVANTI 85					
Nat. Gas			LPG		
Vertical Flue Height	Horizontal Length	Restrictor Size	Vertical Flue Height	Horizontal Length	Restrictor Size
500mm - 999mm	Up to 500mm	None	700mm - 1499mm	Up to 500mm	None
1000mm - 1499mm	Up to 2000mm	None	1500mm - 3000mm	Up to 5000mm	None
1500mm - 3000mm	Up to 5000mm	None	-	-	-

TOP EXIT - VERTICAL ONLY INCLUDING OFFSET	
AVANTI 65 - Nat Gas	
Vertical flue height from top of appliance	Restrictor size
1500mm - 2999mm	60mm
3000mm - 5999mm	52mm
6000mm - 10000mm	47mm
AVANTI 85 - Nat Gas	
Vertical flue height from top of appliance	Restrictor size
1500mm - 2999mm	70mm
3000mm - 5999mm	60mm
6000mm - 10000mm	52mm

TOP EXIT - VERTICAL ONLY INCLUDING OFFSET	
AVANTI 85 - LPG	
Vertical flue height from top of appliance	Restrictor size
2000mm - 2999mm	70mm
3000mm - 5999mm	60mm
6000mm - 10000mm	60mm

DIMENSIONS

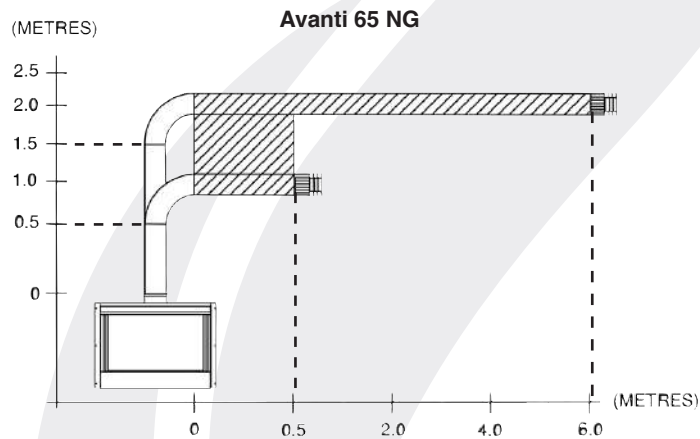


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
AVANTI 65	569	380	646	829	52	316	198	573	382	117	17	551	634	333	755	749
AVANTI 85	569	380	846	1030	52	316	198	573	382	117	17	551	634	333	955	950

All dimensions in mm (25.4 mm = 1")

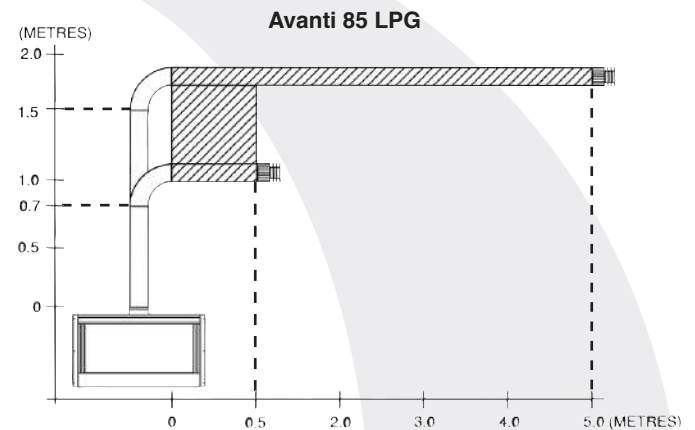
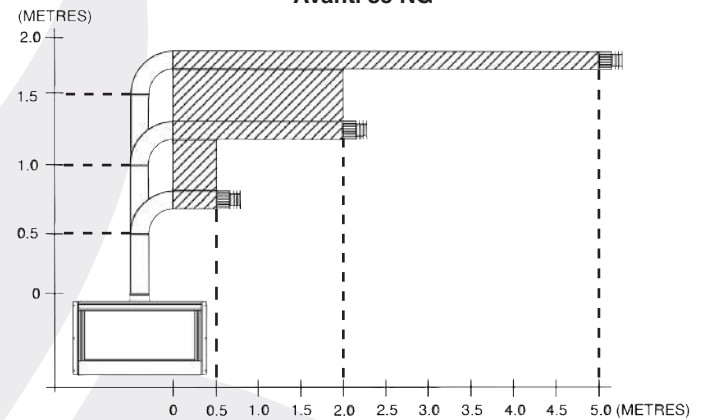
TOP FLUE UP AND OUT KIT

AVANTI 65 (8534/8534AN)



- 1 x 200mm vertical length
- 1 x 500mm terminal length (cut to length on site)
- 1 x 90° elbow
- 1 x wall plate
- 1 x 70mm restrictor
- 1 x 60mm restrictor

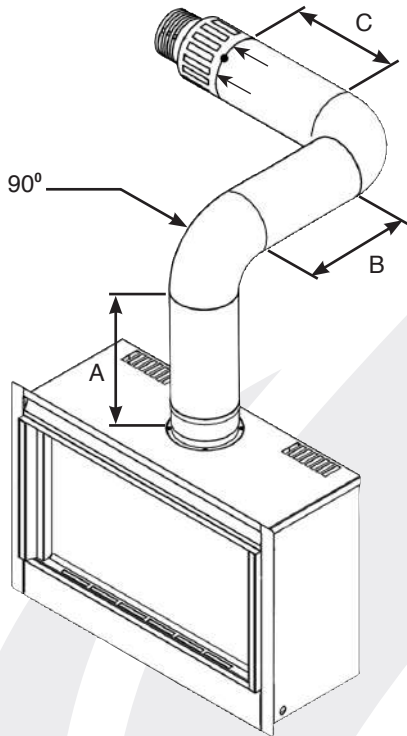
Avanti 85 NG



- 1 x 200mm vertical length
- 1 x 500mm vertical length
- 1 x 500mm terminal length (cut to length on site)
- 1 x 90° elbow
- 1 x wall plate
- 1 x 75mm restrictor

TOP FLUE UP AND OUT WITH ADDITIONAL BEND

An additional bend can be used on the horizontal section (45° or 90°) but the overall horizontal flue is reduced.



Avanti 65 & 85

When A = 1.0 to 1.499 metres B + C = 1.0 metres maximum

When A = 1.499 metres to 3.0 metres B + C = 4.0 metres maximum

OPTIONAL EXTRA FLUE LENGTHS AND BENDS

All flue components are 150mm diameter (6")

NOMINAL LENGTH	ACTUAL LENGTH	STAINLESS FINISH	ANTHRACITE FINISH
200mm	140mm	8527	8527AN
500mm	440mm	8528	8528AN
1000mm	940mm	8529	8529AN
45° Bend	N/A	8507	8507AN
90° Bend	N/A	8508	8508AN

NOTE: The following areas need careful consideration.

- Terminal positions
- Flue supports
- Weatherproofing
- Fire precautions

For all the above options, local and national codes of practice must be adhered to.

TOP FLUE VERTICAL KIT

This flue is vertical from the top of the appliance, see Diagram. A minimum vertical rise of 3m to a maximum of 10m.

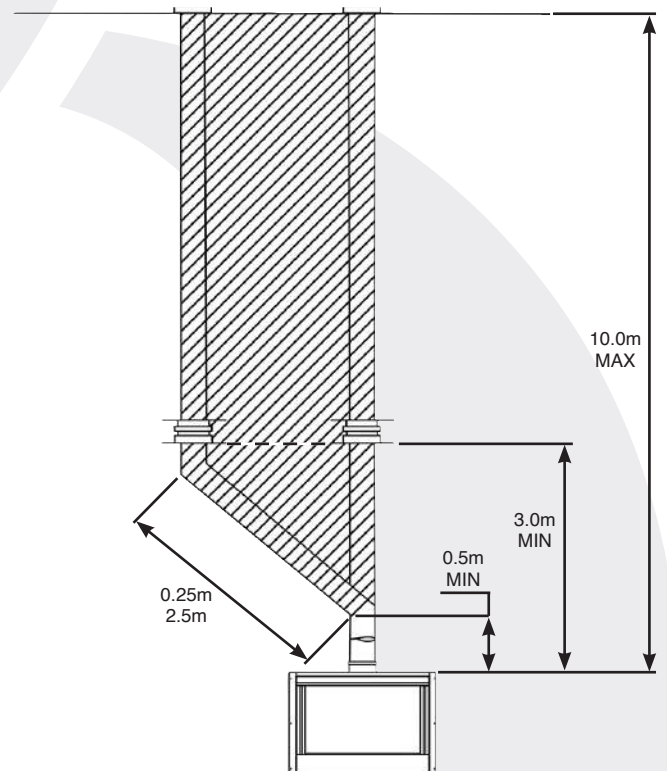
(8524/8524AN)

The basic kit comprises:

- 2 x 1m lengths
- 1 x 1m terminal length
- 1 x 52mm restrictor
- 1 x 47mm restrictor
- 1 x 60mm restrictor
- 1 x 70mm restrictor

Extra lengths can be added.

Refer to Technical Specification to identify when to use a restrictor.



TOP FLUE VERTICAL OFFSET KIT

8530/8530AN

Used with kit 8524. A minimum rise of 500mm (19 1/2") is required to the first bend.



This Onyx balanced flue system is designed to run internally with only the terminal projecting from the building.



IMPORTANT:
1M VERTICAL, TERMINAL AND STRAIGHT FLUE LENGTHS MUST NOT BE CUT!

CHIMNEY RENOVATION KIT

Details of the **Chimney Renovation Kit (928-315)** are available in the separate installation instructions - **PR2073 Chimney Renovation Kit instructions.**

SITE REQUIREMENTS

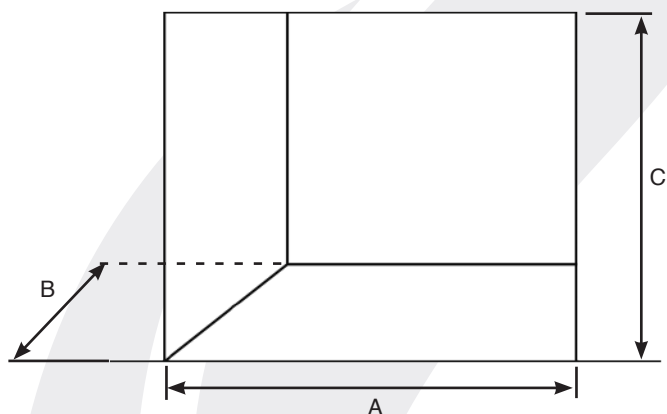
APPLIANCE LOCATION



NOTE: If using natural materials for the back panel of the fireplace, it is recommended that it is constructed from three or more sections to prevent cracking. Resin-based materials may not be suitable. This appliance is an effective heat producer and attention must be paid to the construction and finish of the fireplace.

MINIMUM OPENING DIMENSIONS

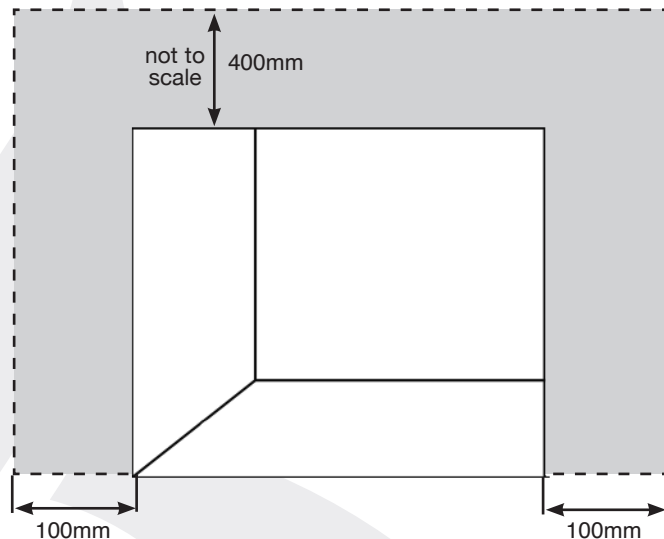
This appliance must stand on a non-combustible base that is at least 12mm thick; the minimum opening dimensions are shown in Diagram:



DIMENSION	AVANTI 65	AVANTI 85
A	777	979
B	336	
C	562	

This appliance must not be installed in a room that contains a bath or shower.

DO NOT install onto a combustible wall; all combustible materials must be removed from the area shown:



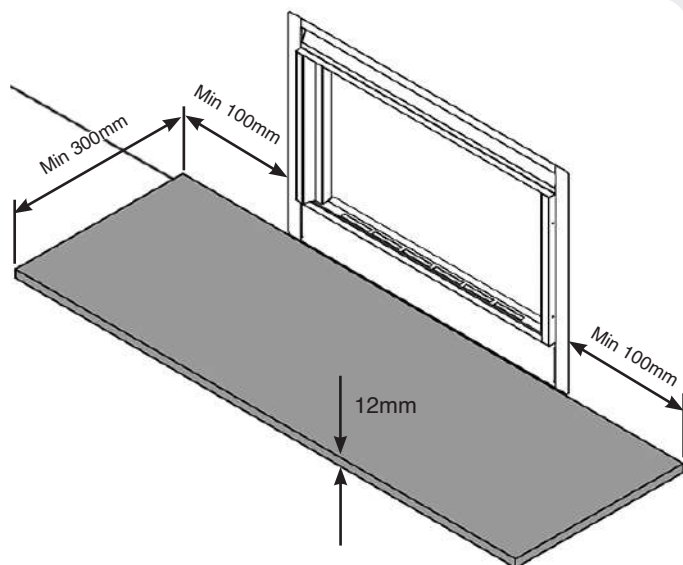
A combustible shelf must be a minimum of 225mm above the top of the appliance. This is based on a 150mm deep shelf. For every extra 13mm of depth add 25mm above the 200mm from the top of the appliance, not the frame.

A side wall must be a minimum of 100mm from the side of the appliance, not the frame.



If fitting this appliance with a decorative frame it cannot be installed with the base of the appliance less than 150mm from the floor level. The frame requires a minimum clearance to allow air to circulate.

If this appliance is fitted less than 150mm from the floor, then it will require a hearth to protect the floor. The hearth should have a minimum dimension of 12mm thick, projecting 300mm in front and 150mm either side of the appliance.



INSTALLATION REQUIREMENT

STUDWORK INSTALLATION

i Onyx recommend building the enclosure from the following materials:
Metal Studwork
Non-combustible board:
Masterboard or Promafour - NOT PINK BOARD
Heat Resistant Plaster: Purimacho (any spider cracks that develop after installation will need to be rubbed down and refilled with Purimacho heat resistant filler to stabilise).

Ensure all distances to combustible materials are maintained.

If a studwork installation is used (eg. wooden framework and plasterboard), combustible parts of the studwork must not be any closer than the minimum dimensions shown in the diagrams. NOTE: These dimensions must be maintained even if the combustible materials are protected by non-combustible linings.

Do not pack the void around or above the appliance with insulation materials such as mineral wool.

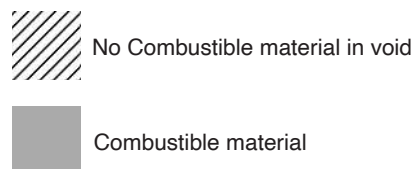
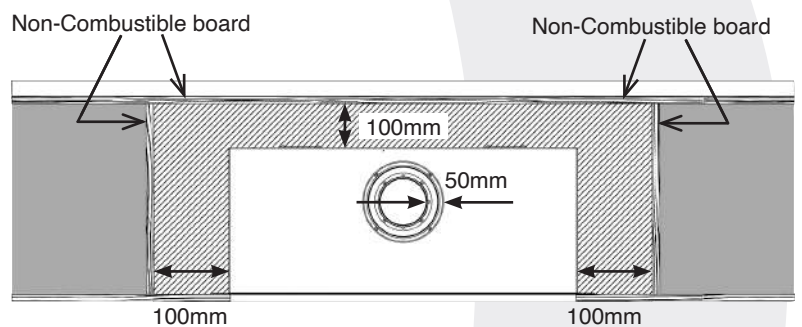
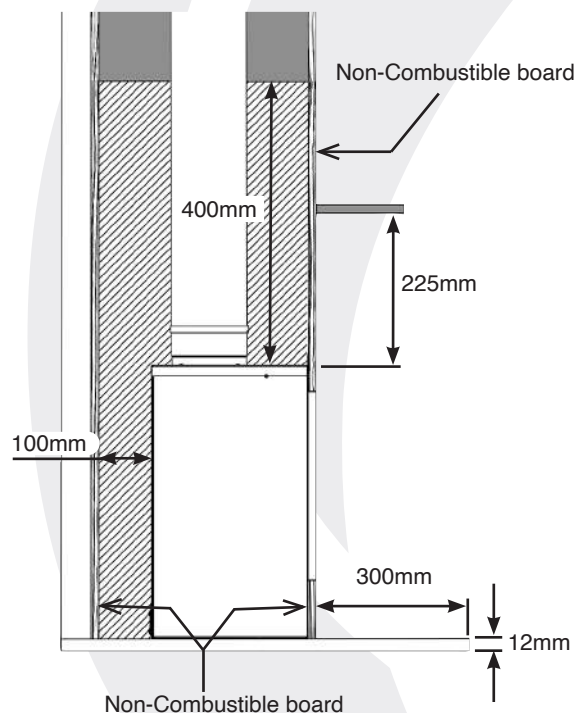
The void built for the cassette must be ventilated to prevent a build-up of heat, and to ensure pressure relief in the event of delayed ignition. If the void is sealed, then it will be necessary to fit high-level vents on both sides of the cavity of approximately 200 cm² each. These vents must take cold air from the room and return warm air back into the room.

An access hatch must be left in the side of the chimney breast for future servicing and inspection of the flue and appliance.

Build the studwork chimney breast to the desired size. Ensure that the clearances to combustible materials are maintained.

MINIMUM COMBUSTIBLE MATERIAL CLEARANCES

PLAN VIEW



*** All combustible materials must be removed from behind the appliance or a minimum distance of 100mm is required where the combustible material is protected by non combustible board.**

It is recommended that a marble slip or similar material is used when fitting cassette fireplaces into a plastered surface, in order to allow for heat dissipation. Also allow adequate time for newly plastered areas to dry out. Rapid drying can create cracks. If in doubt, seek the advice of a professional plasterer

Never use a one-piece slip as expansion (even cracking) can occur.
Note: If a slip is used, longer screws are needed to secure the appliance.

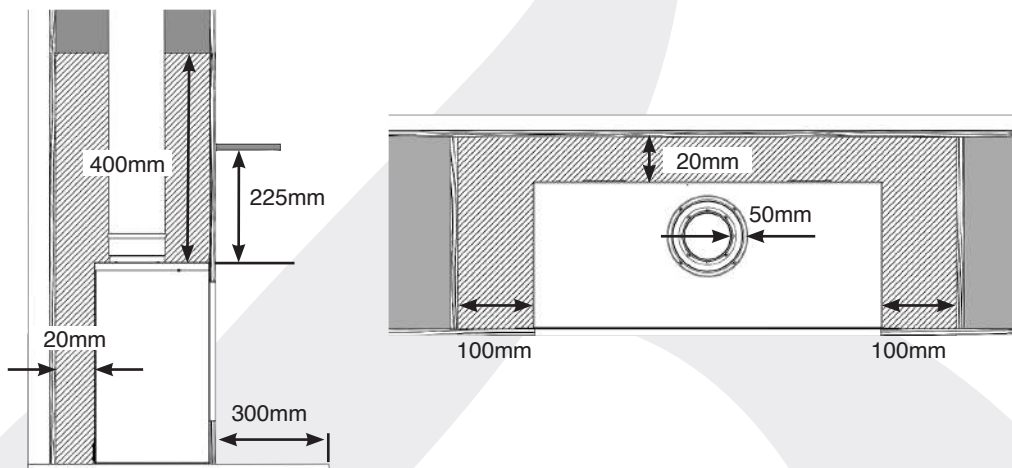
Parts of this appliance become hot during normal use. It is therefore recommended that a suitable fire guard be used for protection of young children and the infirm.

MASONRY INSTALLATION

Please note this appliance has been primarily designed for studwork applications. However, there are circumstances where the appliance could be installed in a block or brickwork fireplace using different methods and materials for the final effect.

THIS VOID MUST BE VENTED TO PREVENT HEAT BUILD UP AROUND THE APPLIANCE, AND TO ENSURE PRESSURE RELIEF IN THE EVENT OF DELAYED IGNITION.

This appliance is not suitable for installation onto a combustible wall. Remove all combustible material from the area shown, see Diagram.

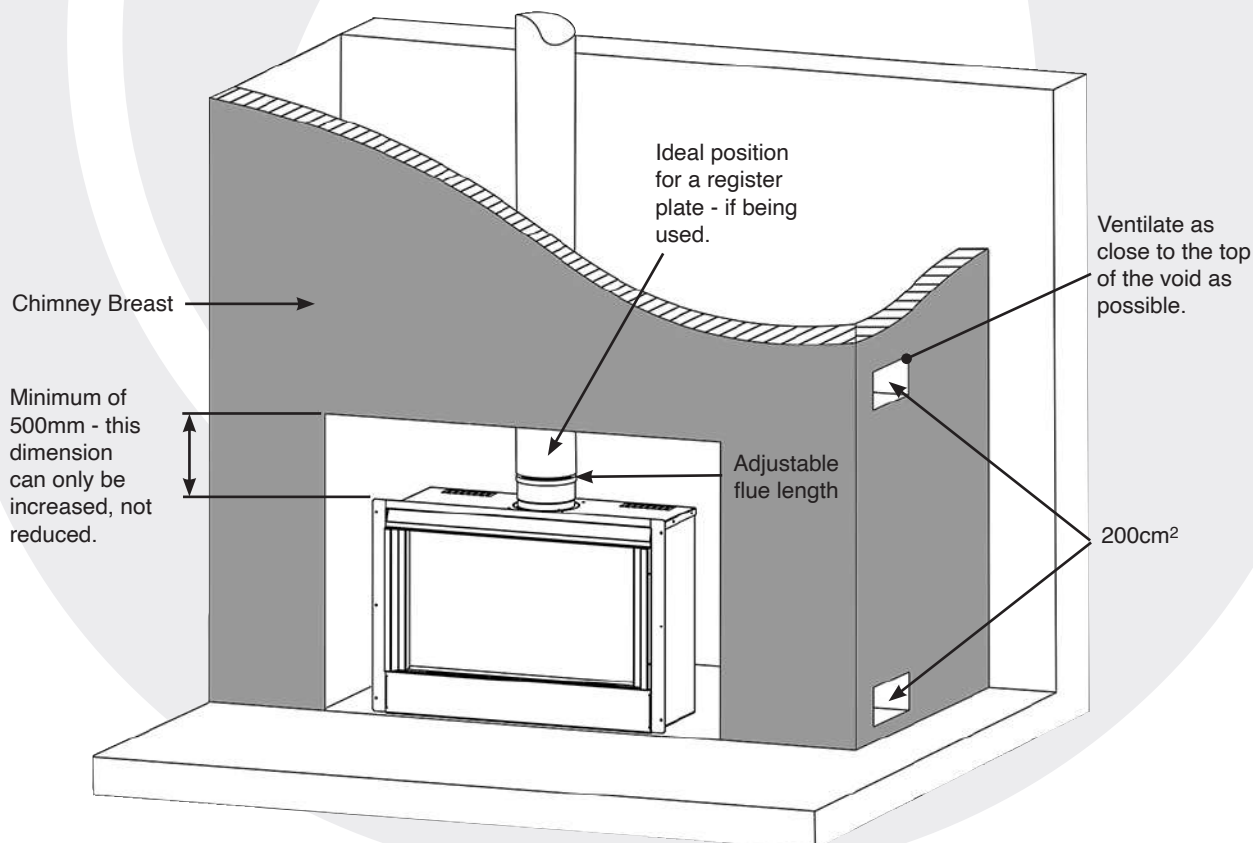


Create a Builders Opening in chimney breast to the required size. Ensure that the clearances to combustible materials is maintained.

In addition to constructing the Builder's Opening to the required size each side must have a high and low vent of 200cm² to allow convection air to travel around the product.

The high vents should be within the 500mm gap above.

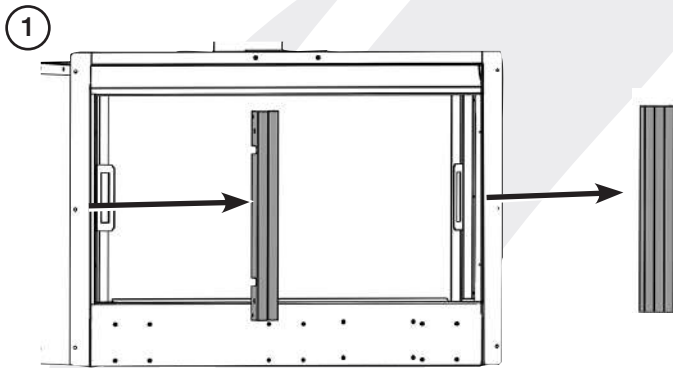
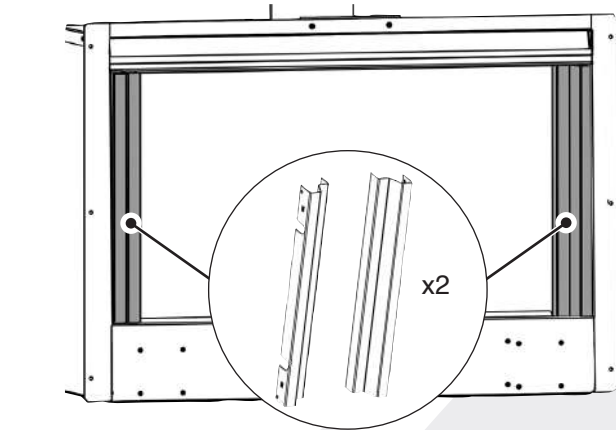
IDEAL MASONRY INSTALLATION



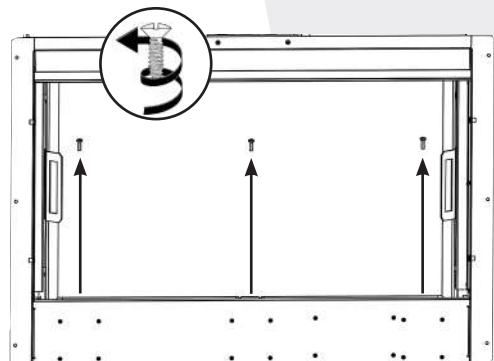
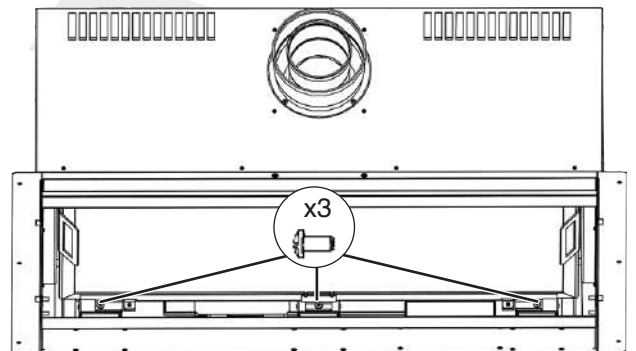
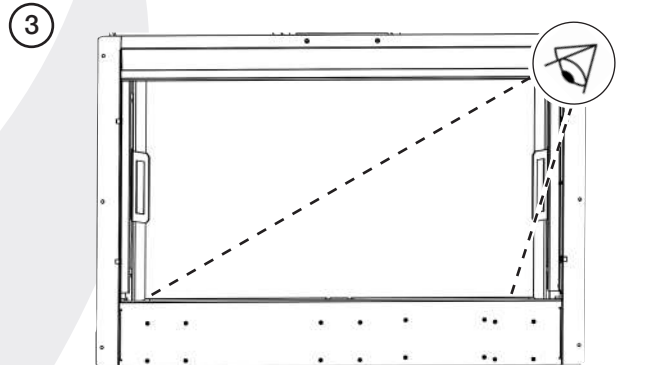
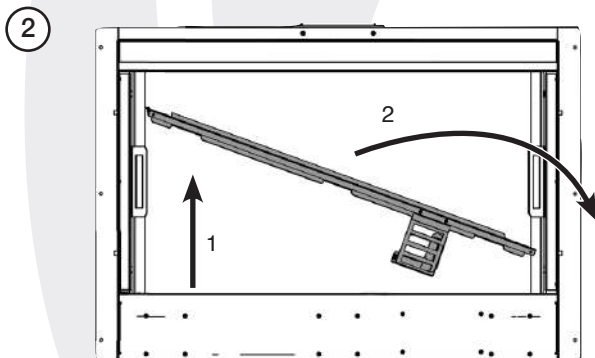
PRE-INSTALLATION

REMOVING THE GLASS DOOR

Note the orientation of the metal shield for reassembly.

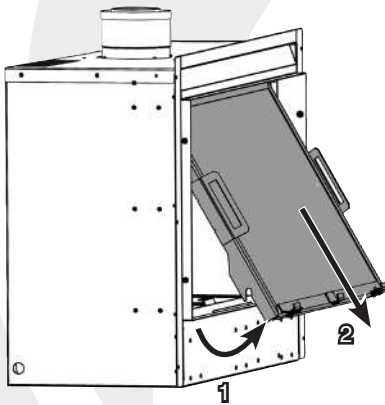
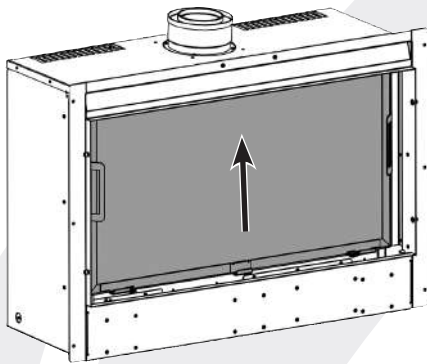
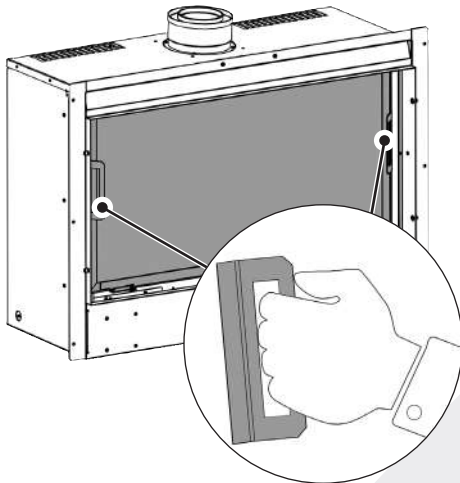


Lift out the bottom slotted trim.



Lift the door using the handles, up and over the lower edge,

4



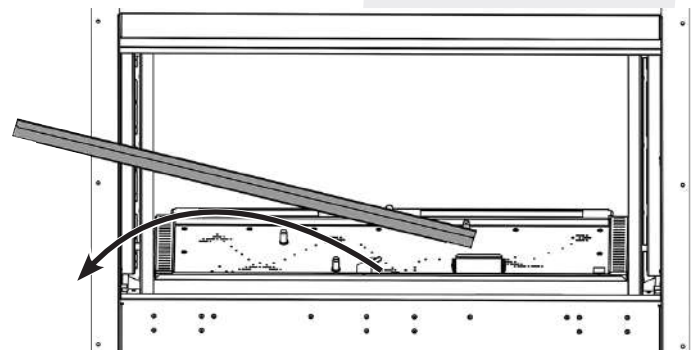
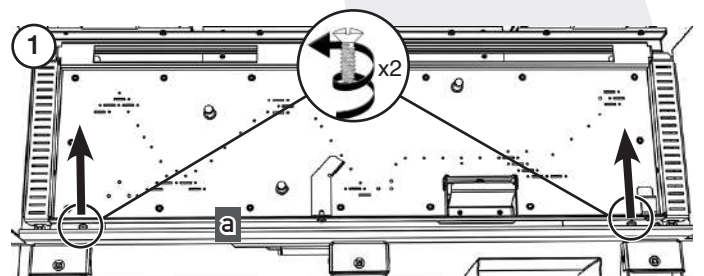
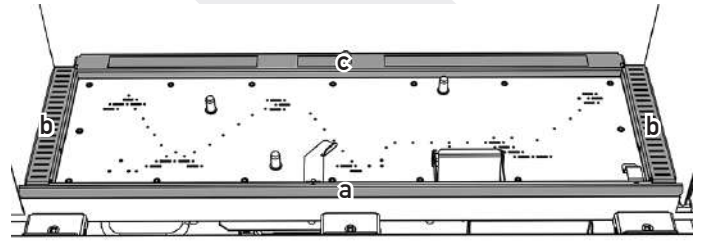
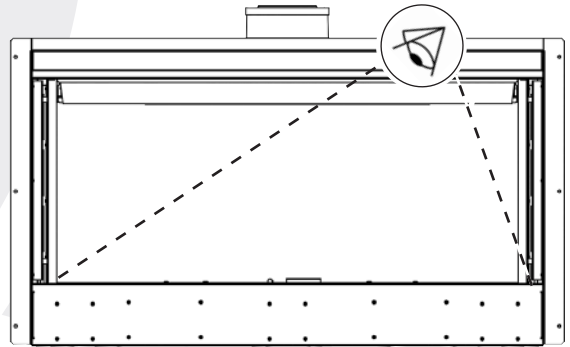
Remove box containing fuel effect and remote.

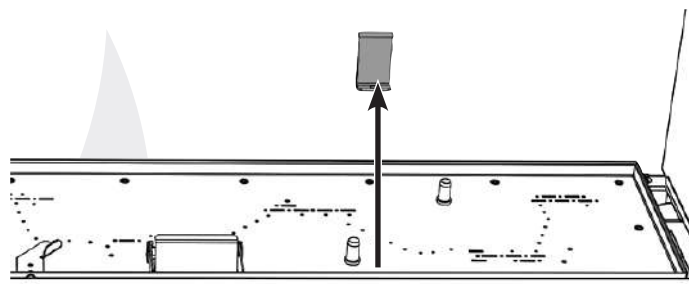
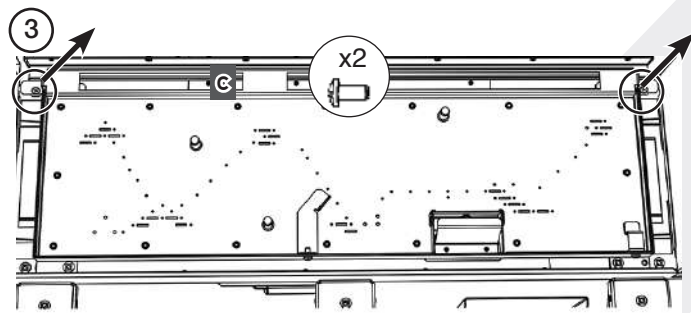
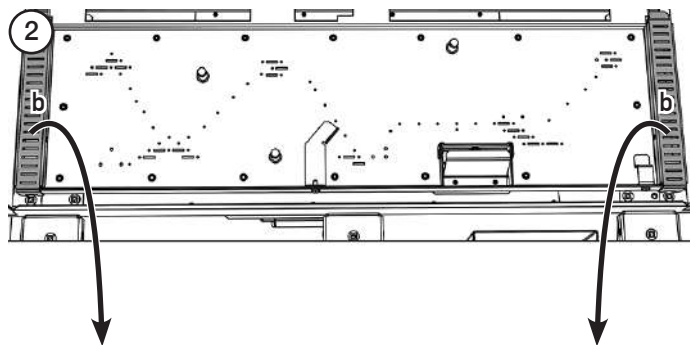
REMOVING THE BURNER ASSEMBLY

The Burner infill trims must be removed before the Burner can be taken out of the appliance.

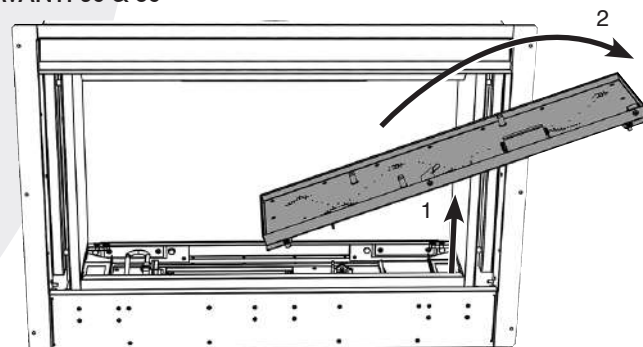
BURNER INFILL TRIMS:

AVANTI 65 SHOWN

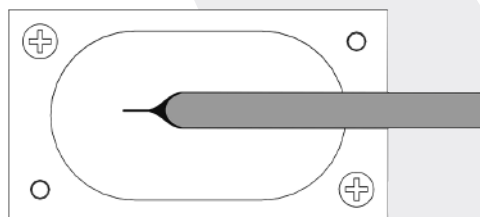




AVANTI 65 & 85



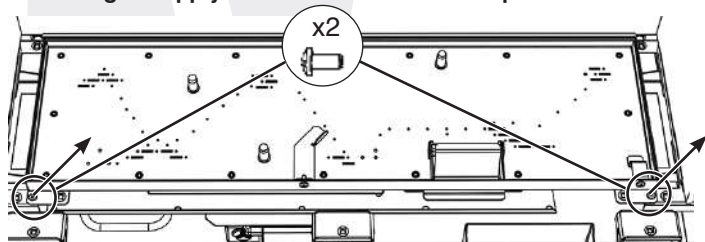
The gas supply enters through the silicone panel located on the LEFT and/OR RIGHT-HAND side on the rear of the outer box; this will need to be slit with a sharp knife prior to passing the supply pipe through.



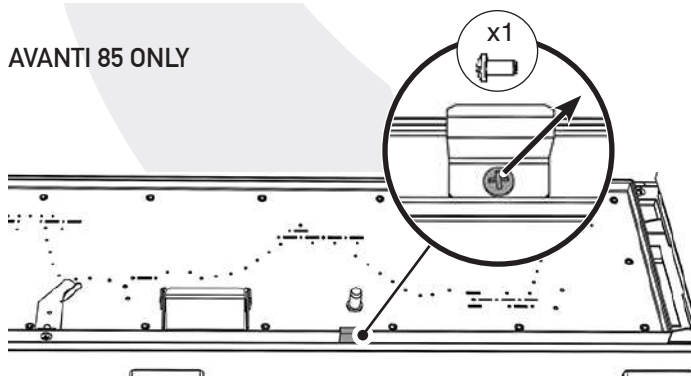
The Burner can now be removed.

MAIN BURNER:

Turn the gas supply off at the mains isolation point.



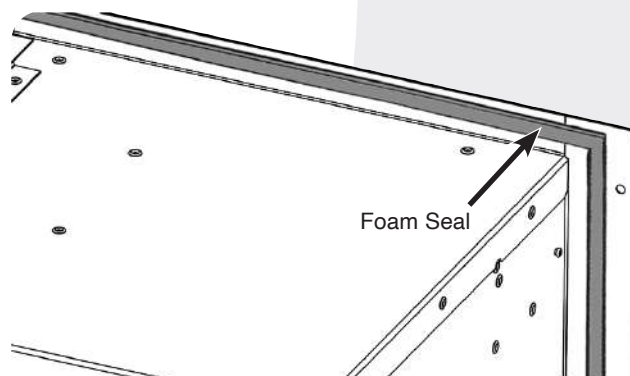
AVANTI 85 ONLY



Remove the Compression Elbow from the appliance.

FOAM SEAL

Fix foam seal to the rear of the outer flange of the appliance.



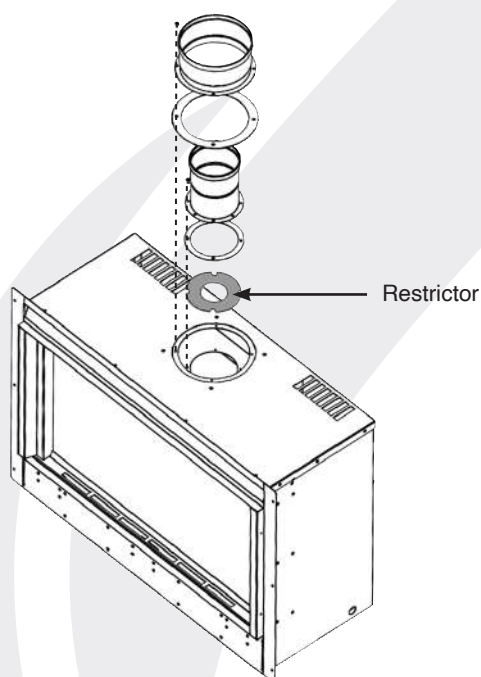
FLUE ASSEMBLY



**All flue installations must be constructed in accordance with the rules in force.
UK - Building Regulations: Approved Document J.**

For additional information please refer to Site Requirements section.

**TAKE CARE WHEN MARKING OUT FOR THE FLUE AS IT IS DIFFICULT TO MOVE AFTER INSTALLATION.
IF A RESTRICTOR IS REQUIRED FIT THIS BETWEEN THE SMALL OUTLET SPIGOT AND THE AIR DUCT.
REFER TO TECHNICAL SPECIFICATIONS FOR RESTRICTOR SIZE.**



A 152mm (6") diameter hole in the wall is required to install the flue. This can be achieved by using either:

- a) Core drill
- b) Hammer and chisel

Drill small holes around the circumference when using method b).
Make good both ends of the hole.

Allow enough room either above or to the side of the appliance to assemble the flue on top.

Assemble a horizontal flue in the following order:

- Vertical section
- 90° elbow
- Horizontal plus terminal

Support the opening of a masonry installation with a lintel.

Only the horizontal terminal section can be reduced in size.

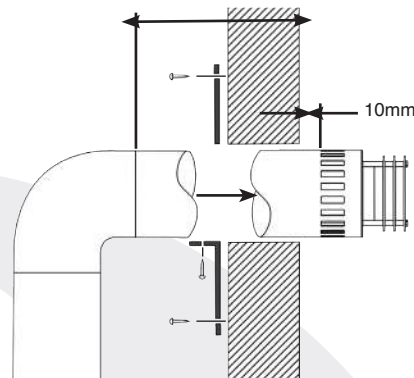
To find the length:

Measure from the outside of the wall to the stop on the 90° elbow.

Add 10mm to the outlet end.

Measure from the edge of the slots closest to the wall.

Mark around the flue.



A wall plate is supplied to fix the flue to the wall:

Bend the tab to 90°.

Assemble the plate onto the flue but do not secure to wall until the flue is fully assembled.

The cardboard fitment in the terminal is used to support the flue whilst it is cut to length. ONCE CUT TO SIZE REMOVE THE CARDBOARD REMNANT.

INSTALLATION

MASONRY CHIMNEY INSTALLATION

There are 3 methods of installation into a masonry chimney:

Edge finish Installation. - Edge & Edge +

Installation with a decorative front. - Expression Frame

Carefully read the relevant section for the installation method required.

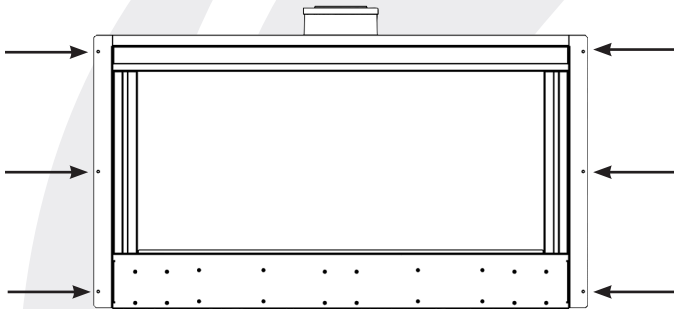
EDGE & EDGE + FINISH INSTALLATION

This method is designed so that non-combustible board can be taken right up to the edge of the flange of the appliance.

Prepare the flue connection using the chosen method described.

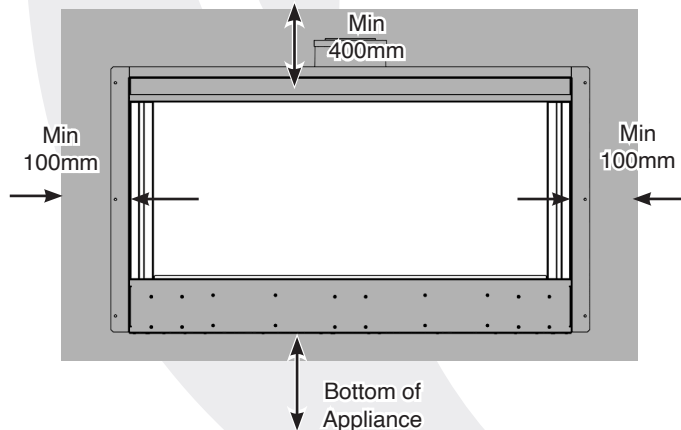
Connect the flue and install the appliance into the aperture. At the same time ensure that the gas pipe passes through the silicon panel at the back of the appliance.

Secure the appliance through the 6 fixing holes using the screws provided.



Attach the Compression Elbow to the inlet pipe.

Fit non-combustible board to the chimney breast around the appliance, using the distance to combustibles detailed.



Fit plasterboard to the remaining of the chimney breast front.

Apply a heat resistant plaster around the appliance using the distance to combustibles detailed.

Apply a plaster finish to remaining chimney breast front.

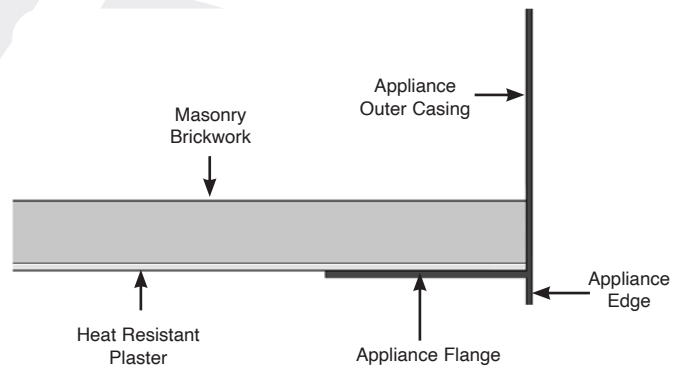
INSTALLATION WITH EXPRESSION FRAME

Fix the self adhesive foam seal around the back of the fixing flange of the appliance.

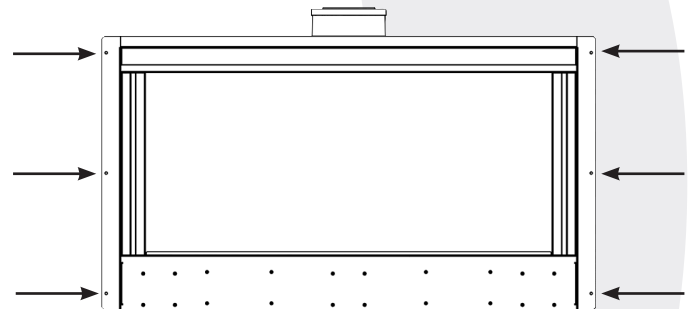
Prepare the flue connection using the chosen method described.

Connect the flue and install the appliance into the aperture. At the same time ensure that the gas pipe passes through the silicon panel at the back of the appliance

The appliance flange should sit flush to the brickwork and the edge should sit proud of the wall.

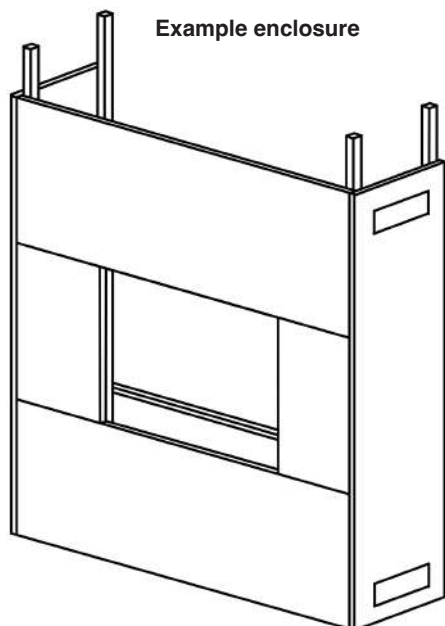


Secure the appliance through the 6 fixing holes using the screws provided.



Attach the Compression Elbow to the inlet pipe.

STUDWORK ENCLOSURE CONSTRUCTION



VENTILATION

The void into which the cassette is fitted must be ventilated to prevent a build up of heat, and to ensure pressure relief in the event of delayed ignition. If the void is sealed, then it will be necessary to fit high and low level vents on both sides of the enclosure with a minimum vent size of 200 cm² open free area each. These vents should take cold air from the room and return warm air back into the room.

Onyx recommend building the enclosure from the following materials:

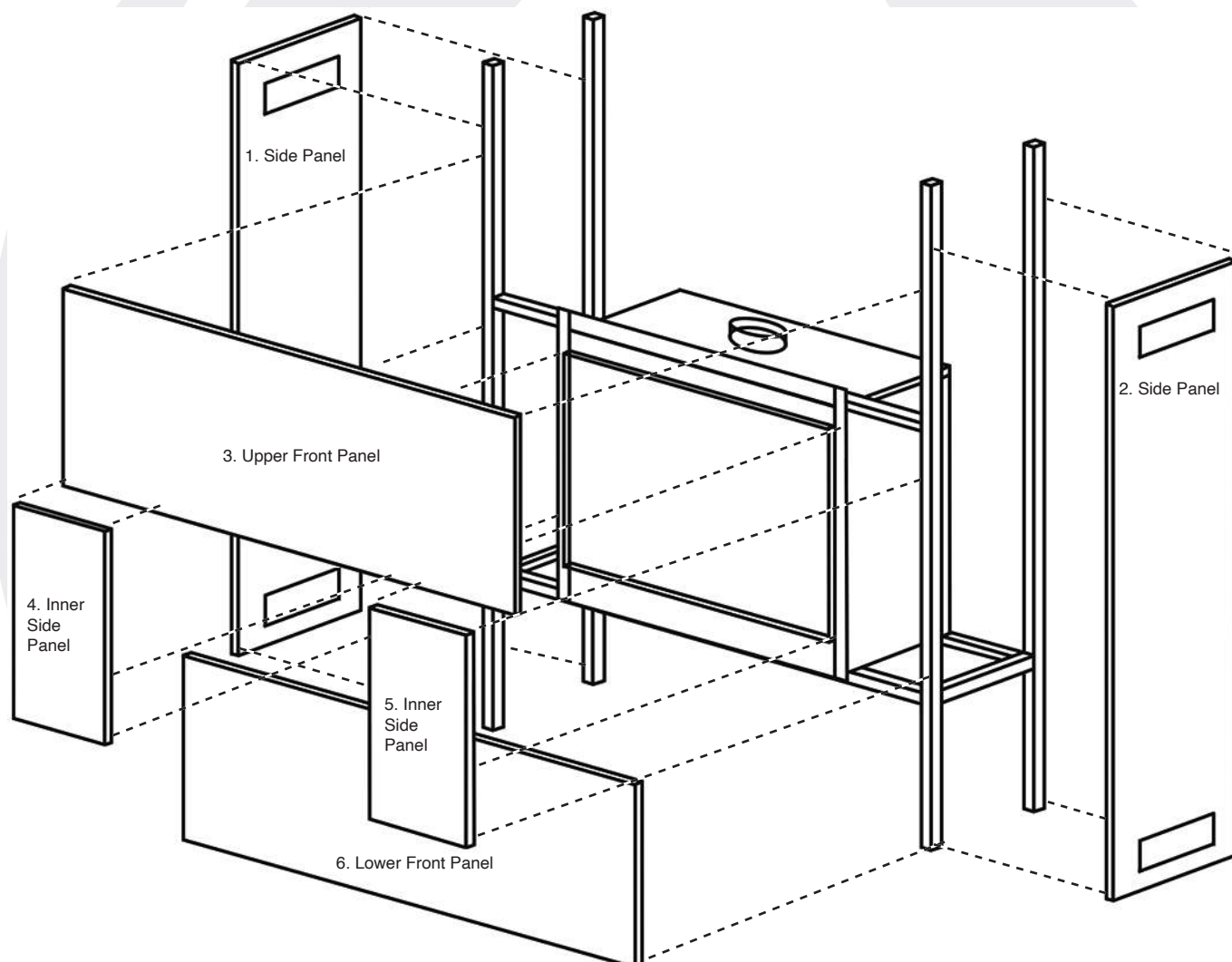
Metal Studwork

Non-combustible board:

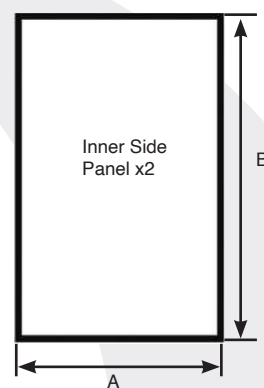
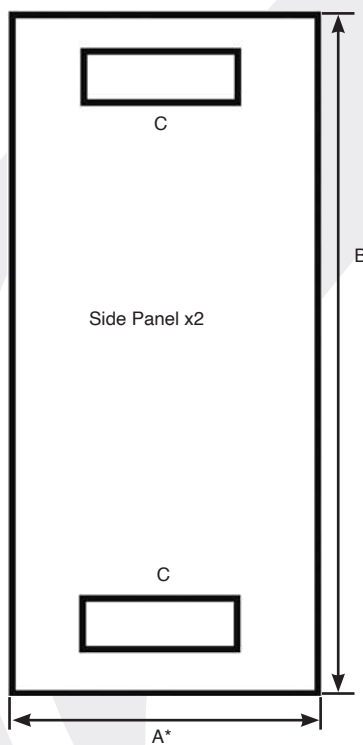
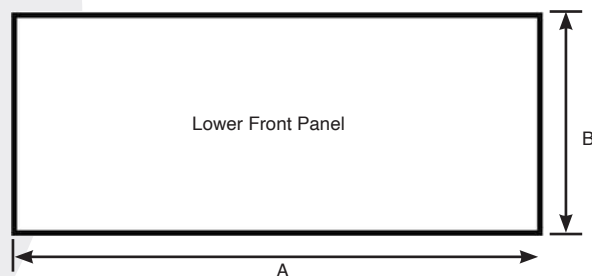
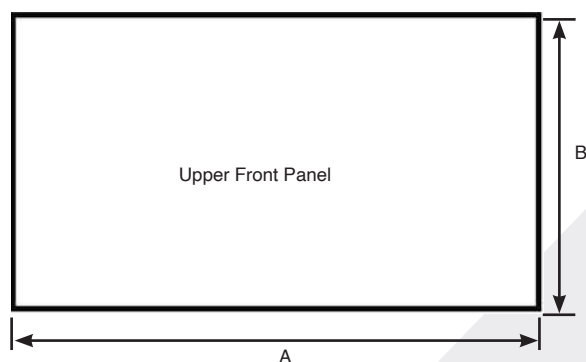
Masterboard or Promafour - NOT PINK BOARD

Heat Resistant Plaster: Purimacho (any spider cracks that develop after installation will need to be rubbed down and refilled with Purimacho heat resistant filler to stabilise).

Ensure all distances to combustible materials are maintained.



CUTTING TEMPLATES



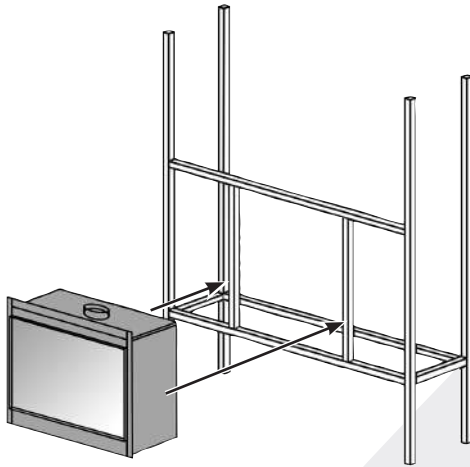
PANEL	A (MIN)		B (MIN)		C	
	Avanti 65	Avanti 85	Avanti 65	Avanti 85	Avanti 65	Avanti 85
Upper Front Panel	1055mm	1255mm	474mm No Frame 400mm with Decorative Frame		-	
Lower Front Panel	1055mm	1255mm	117mm No Frame 267mm with Decorative Frame		-	
Side Panel x 2	433mm		951mm No Frame 1101mm with Decorative Frame		200cm ²	
Inner Side Panel	150mm		569mm		-	



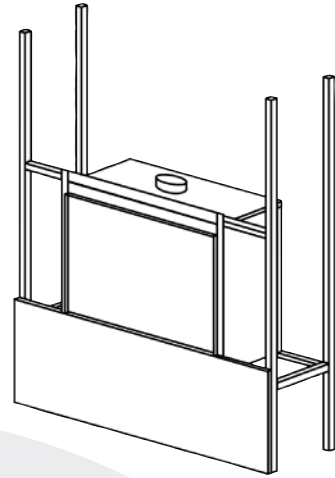
*** All combustible materials must be removed from behind the appliance or a minimum distance of 100mm is required where the combustible material is protected by non combustible board.**

EDGE AND EDGE + FRAME INSTALLATION

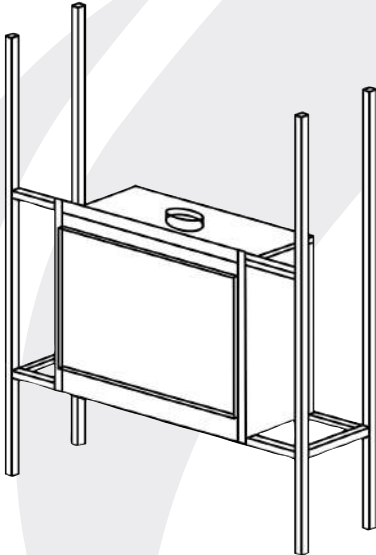
①



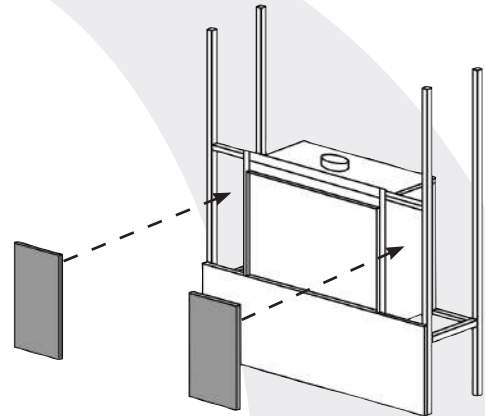
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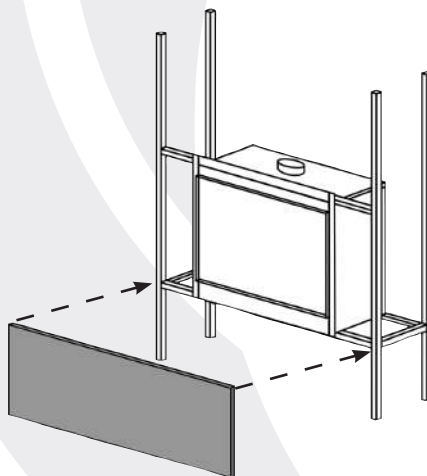
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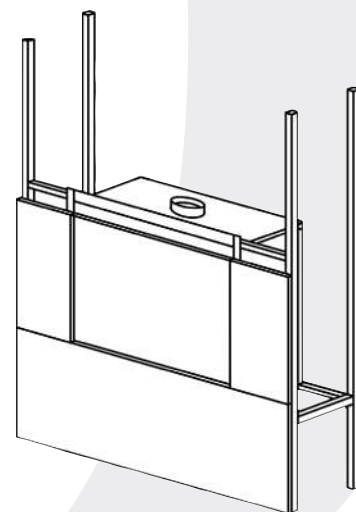
⑤



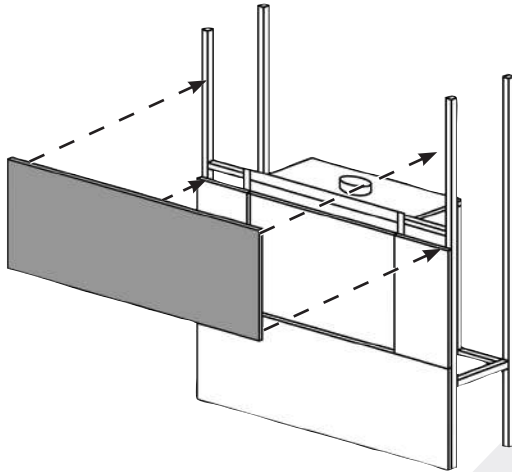
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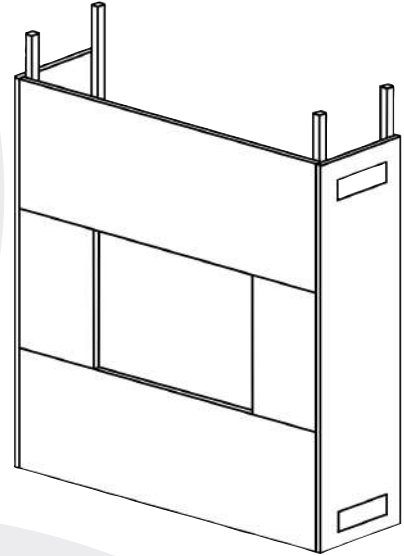
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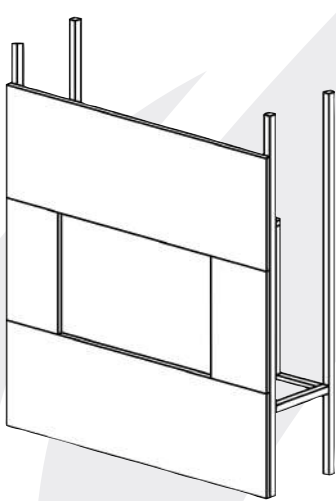
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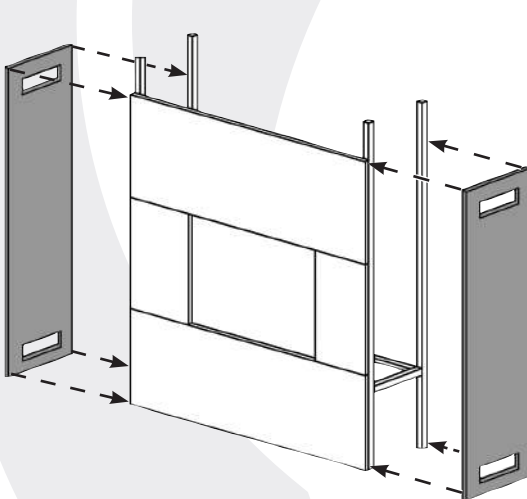
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8

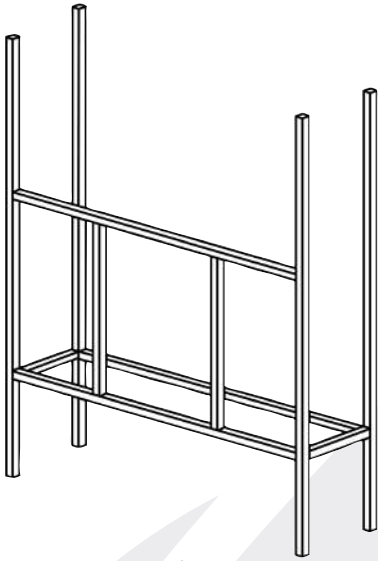


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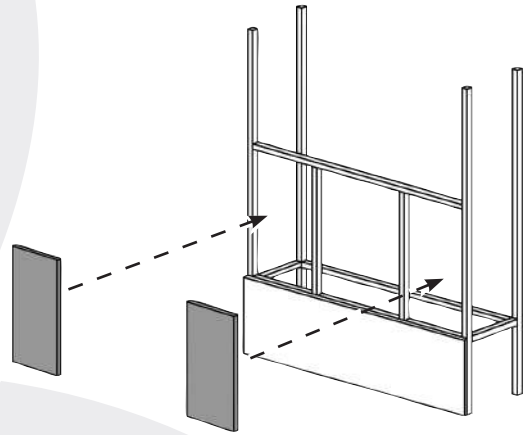


EXPRESSION FRAME INSTALLATION

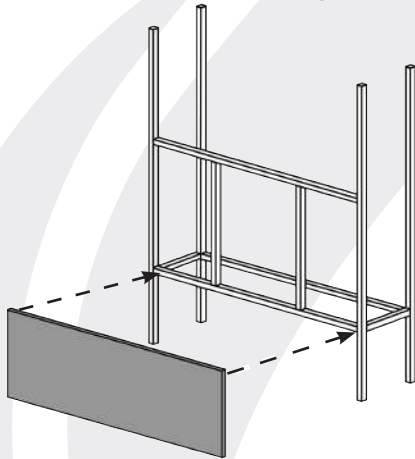
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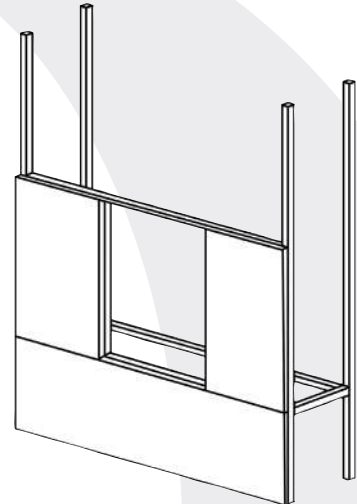
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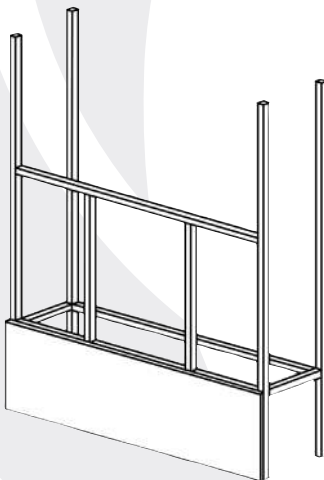
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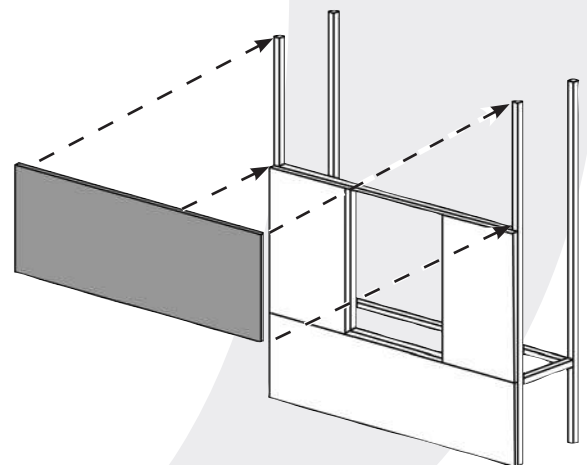
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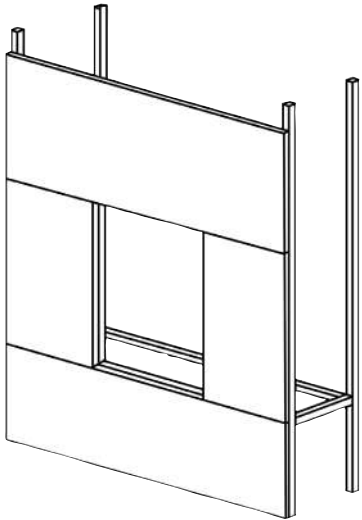
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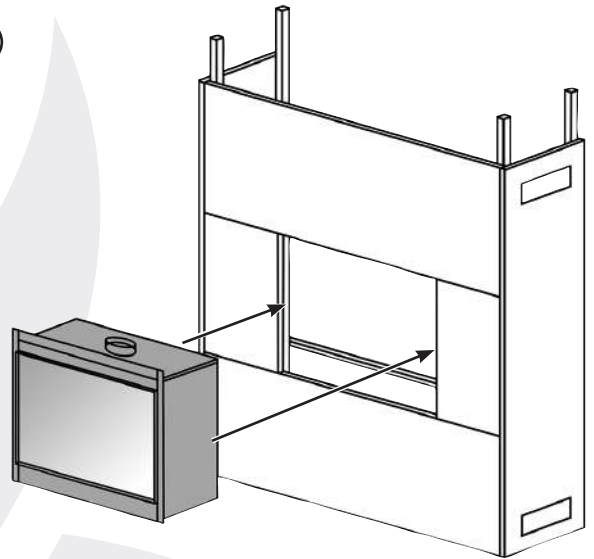
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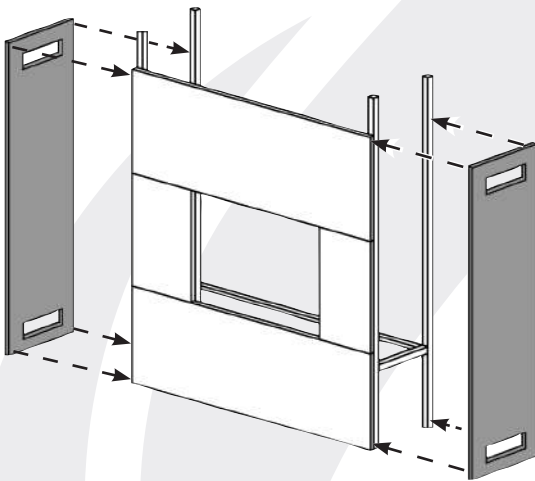
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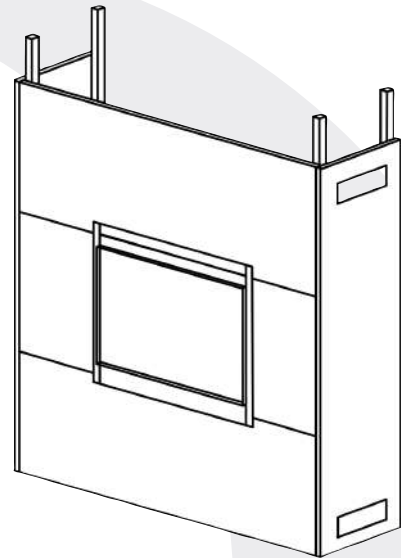
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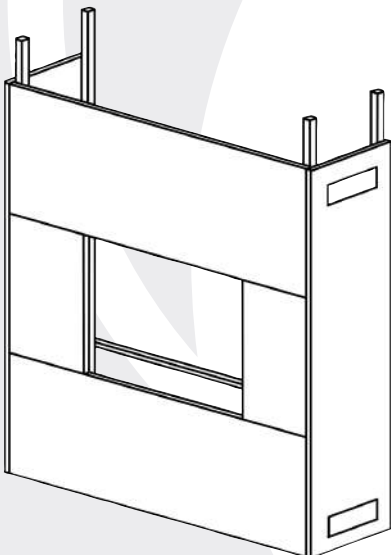
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11



9



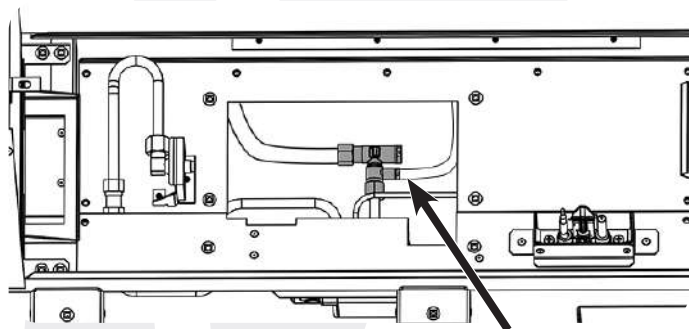
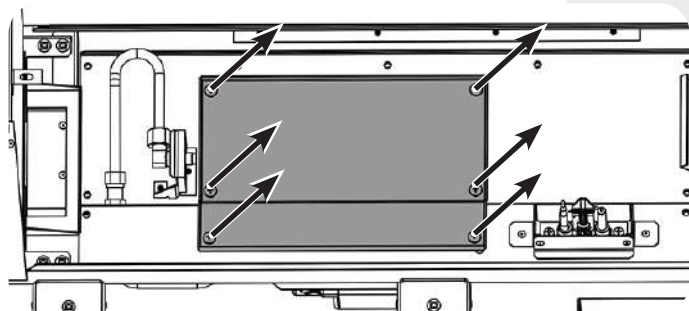
COMPLETION OF ASSEMBLY

GAS SOUNDNESS PRESSURE CHECK

PURGE THE SUPPLY PIPE.

This is essential to expel any debris that may block the gas controls.

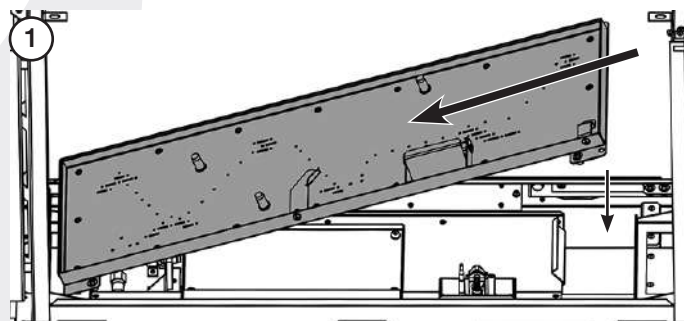
Connect a suitable pressure gauge to the test point located on the inlet fitting and turn the gas supply on. Light the appliance and check all gas joints for possible leaks. Turn the appliance to maximum and check that the supply pressure is as stated on the databadge. Turn the gas off and replace the test point screw, turn the gas on and check the test point for leaks.



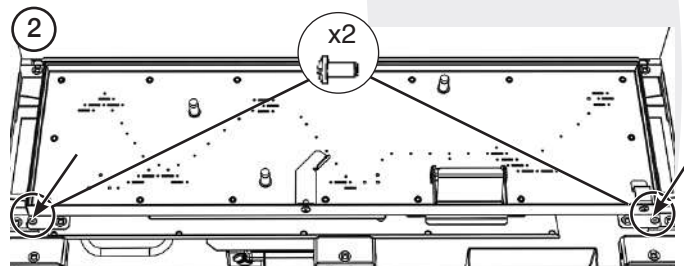
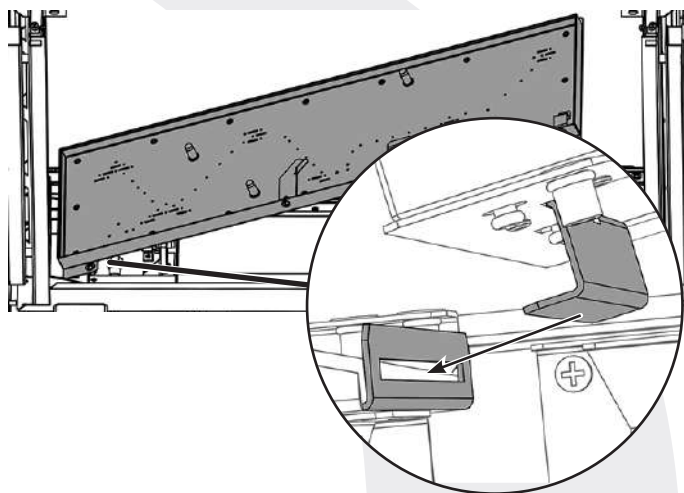
Check the function of the handset, if there is no communication between the remote control and the appliance, see Commissioning Section.

FITTING THE BURNER ASSEMBLY

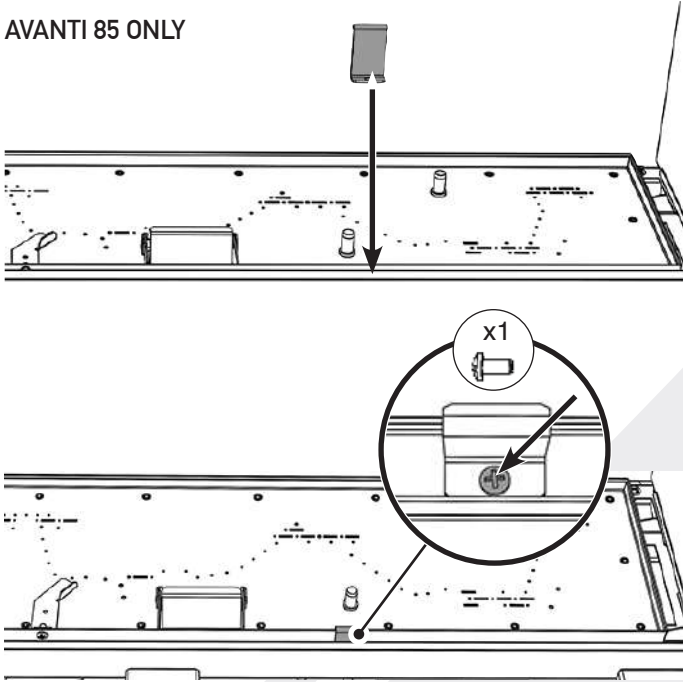
MAIN BURNER



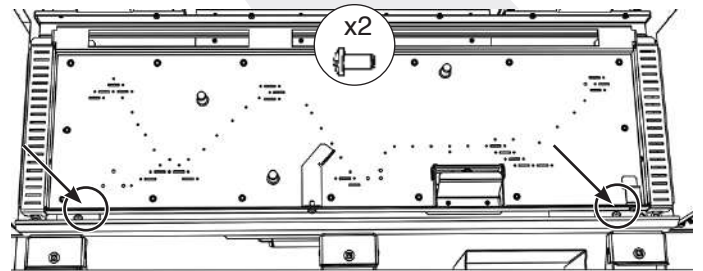
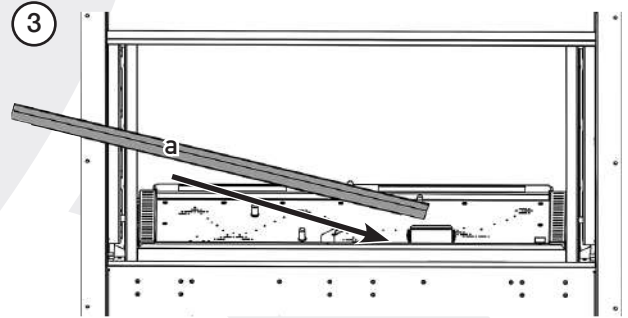
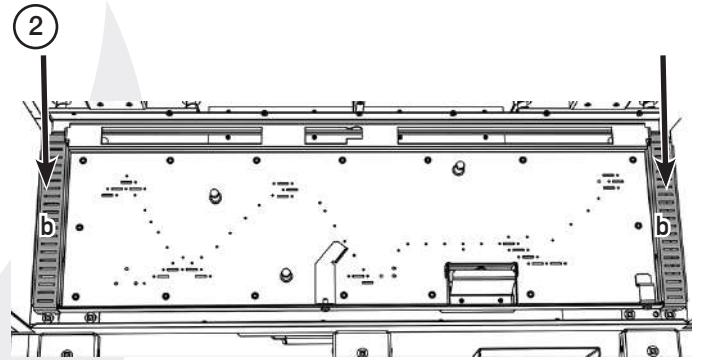
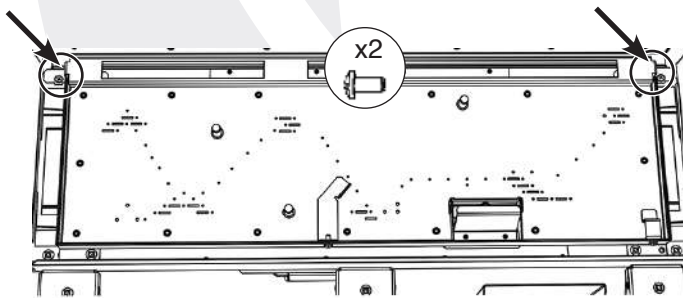
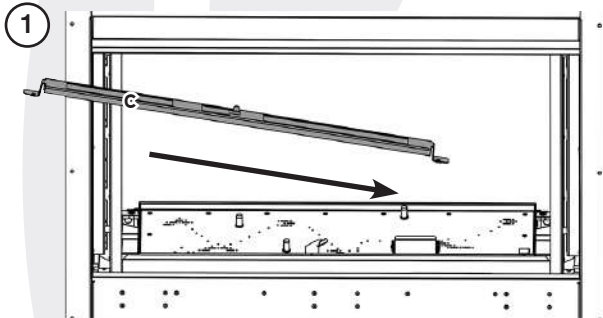
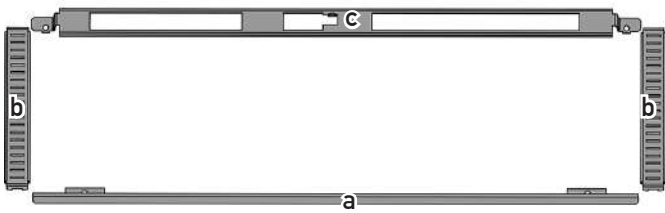
Ensure the tab under the left hand side of the burner fits into the bracket on the firebox.



AVANTI 85 ONLY

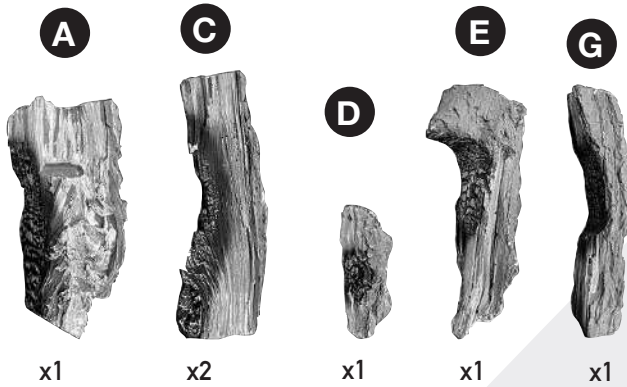


BURNER INFILL TRIMS:

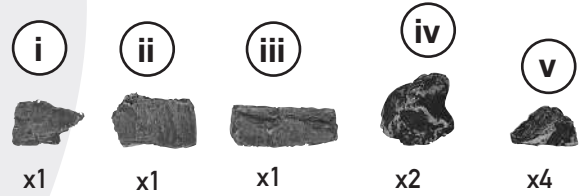


LOG LAYOUT AVANTI 65

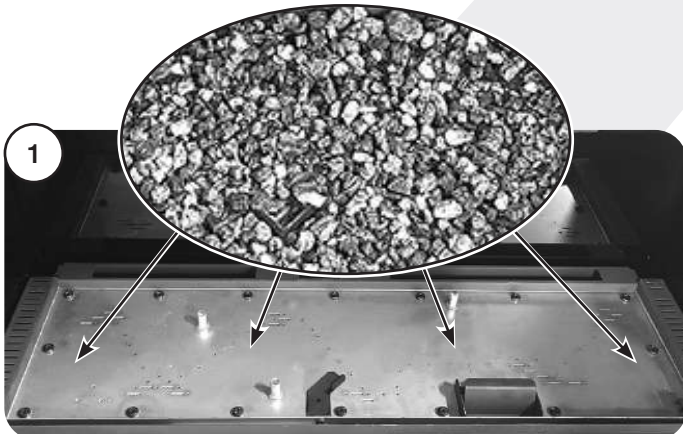
LOGS



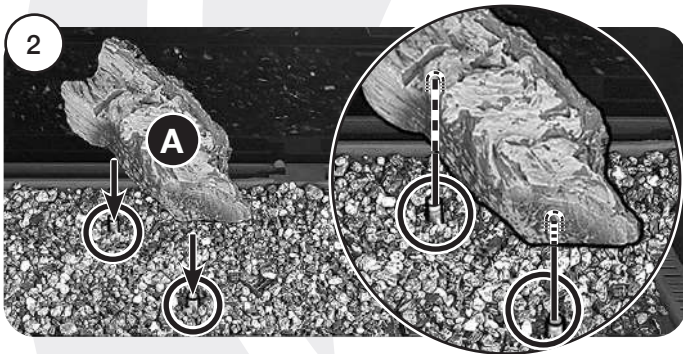
EMBERS



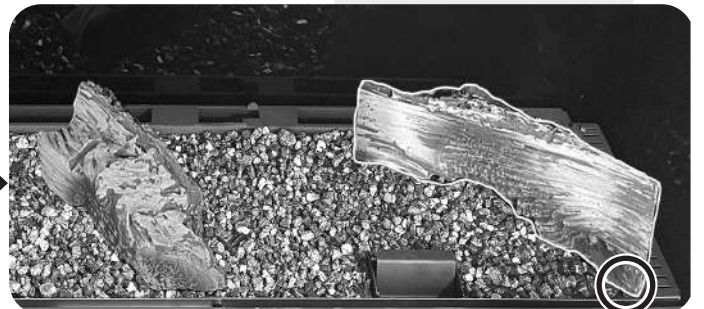
Use all the vermiculite to fill the burner tray and spread evenly across the whole burner.



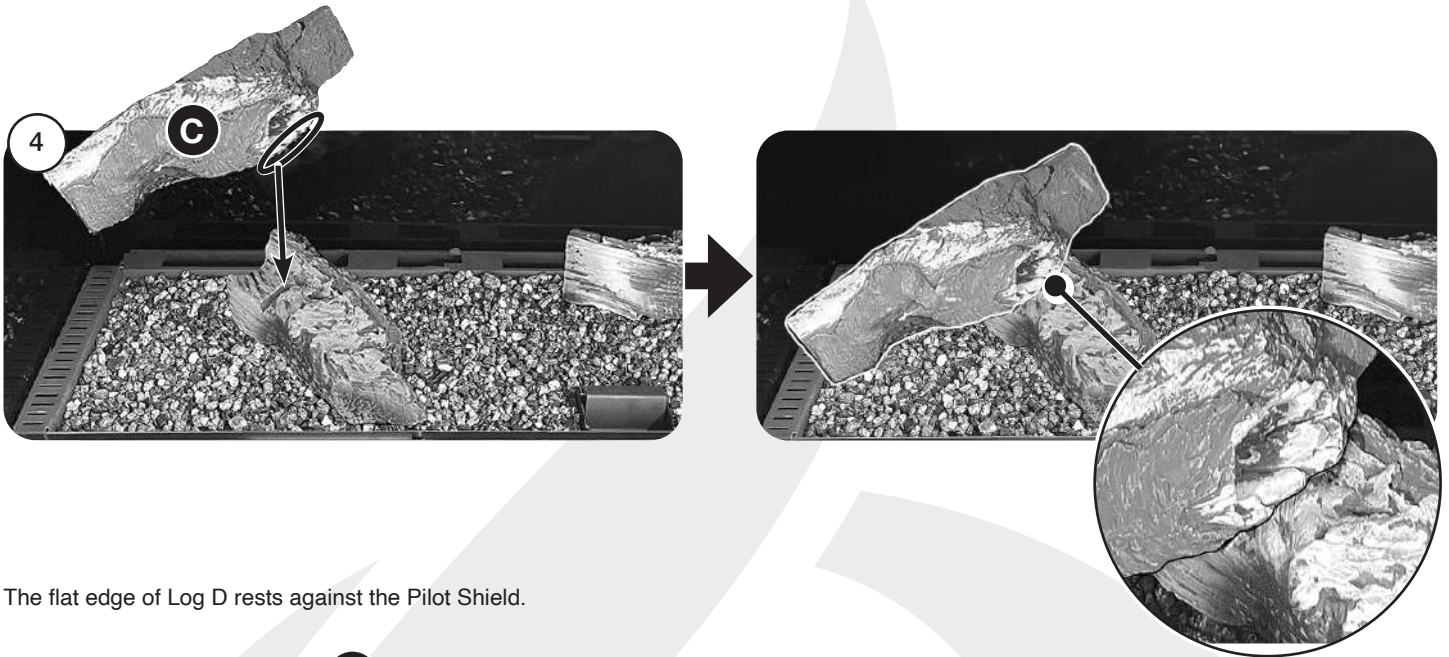
Place Log A in position on the 2 locating pins.



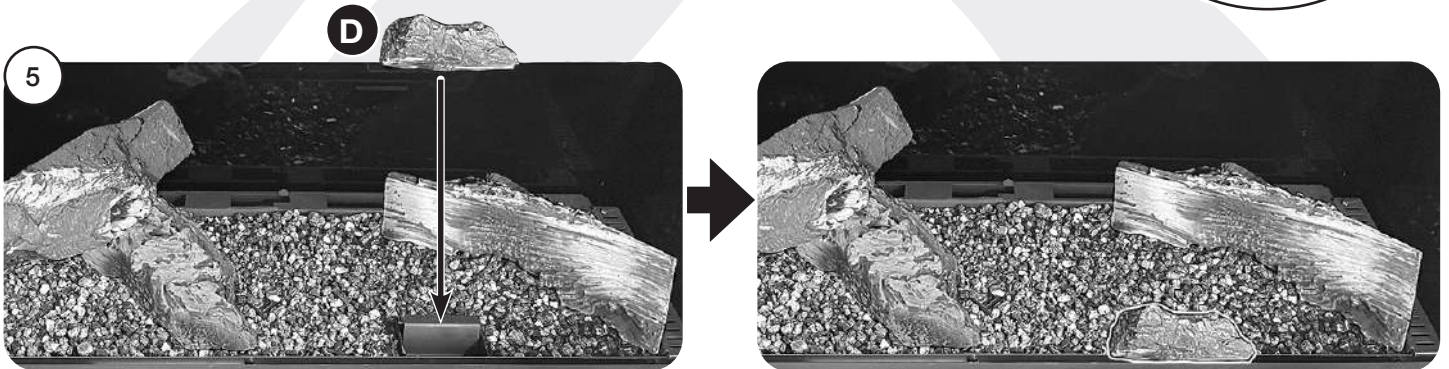
Log C is positioned on the right hand locating pin and rests on the bracket against the edge of the front tray.



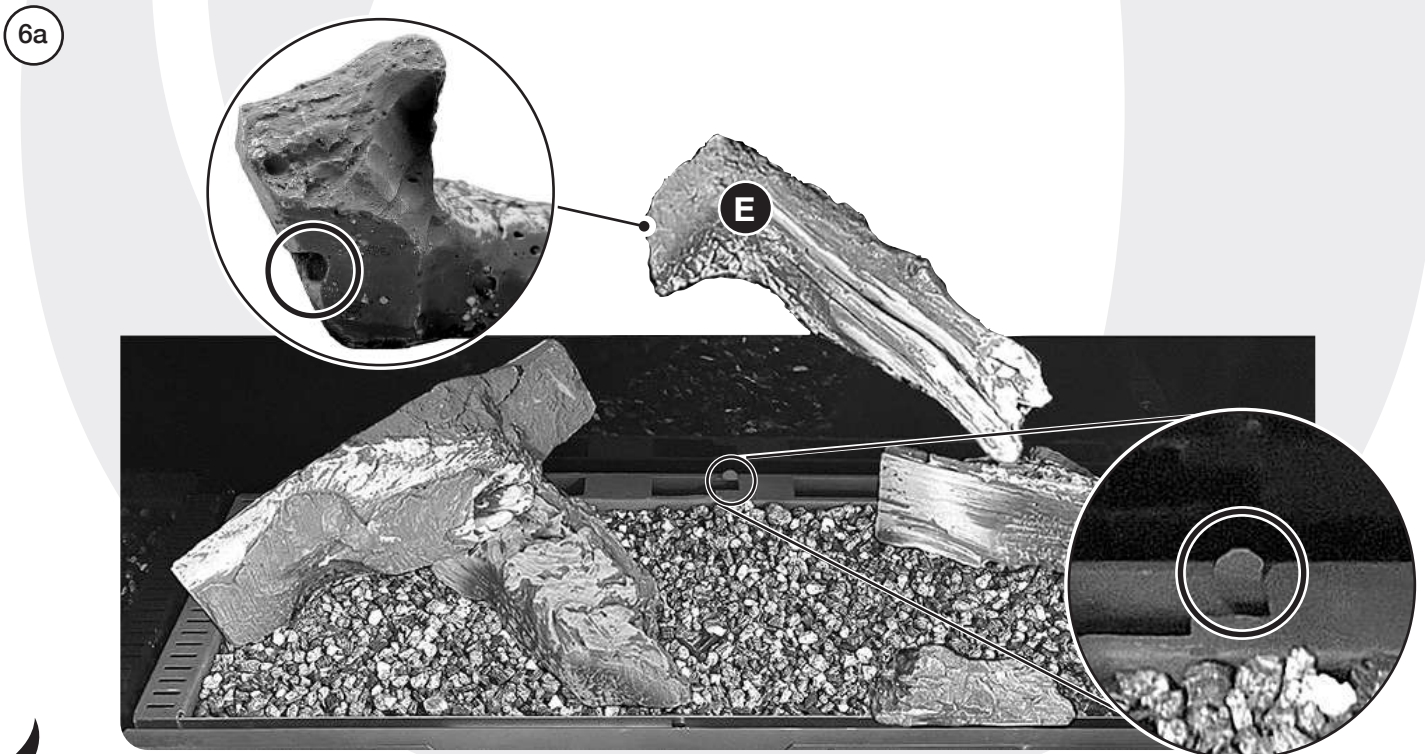
Place the protruding edge on Log C into the groove on Log A, as shown in diagram 4.

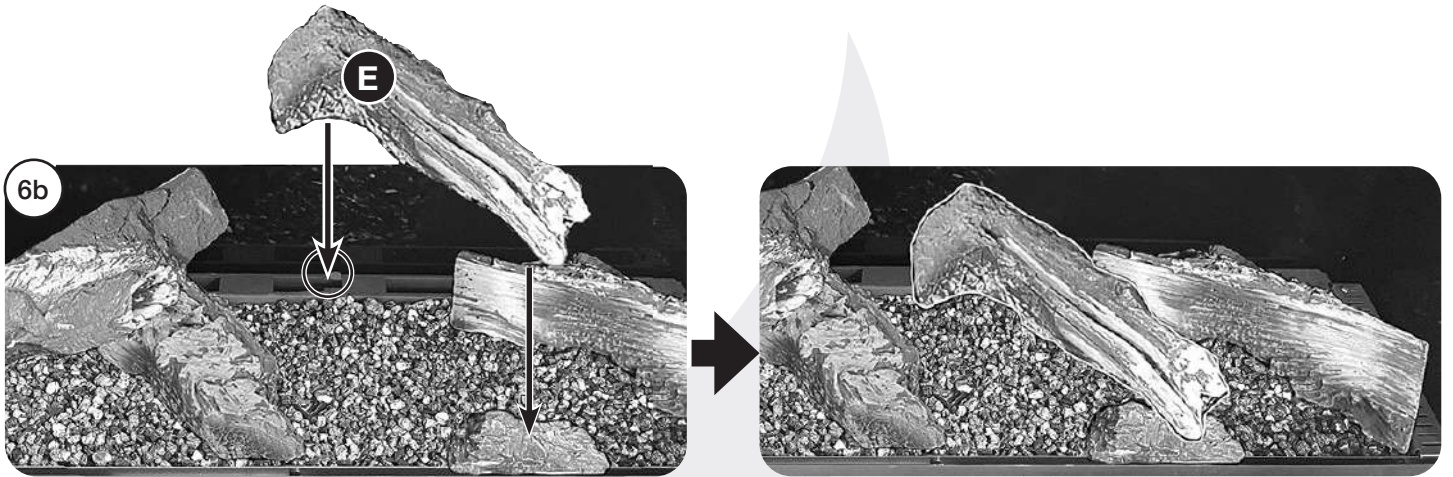


The flat edge of Log D rests against the Pilot Shield.

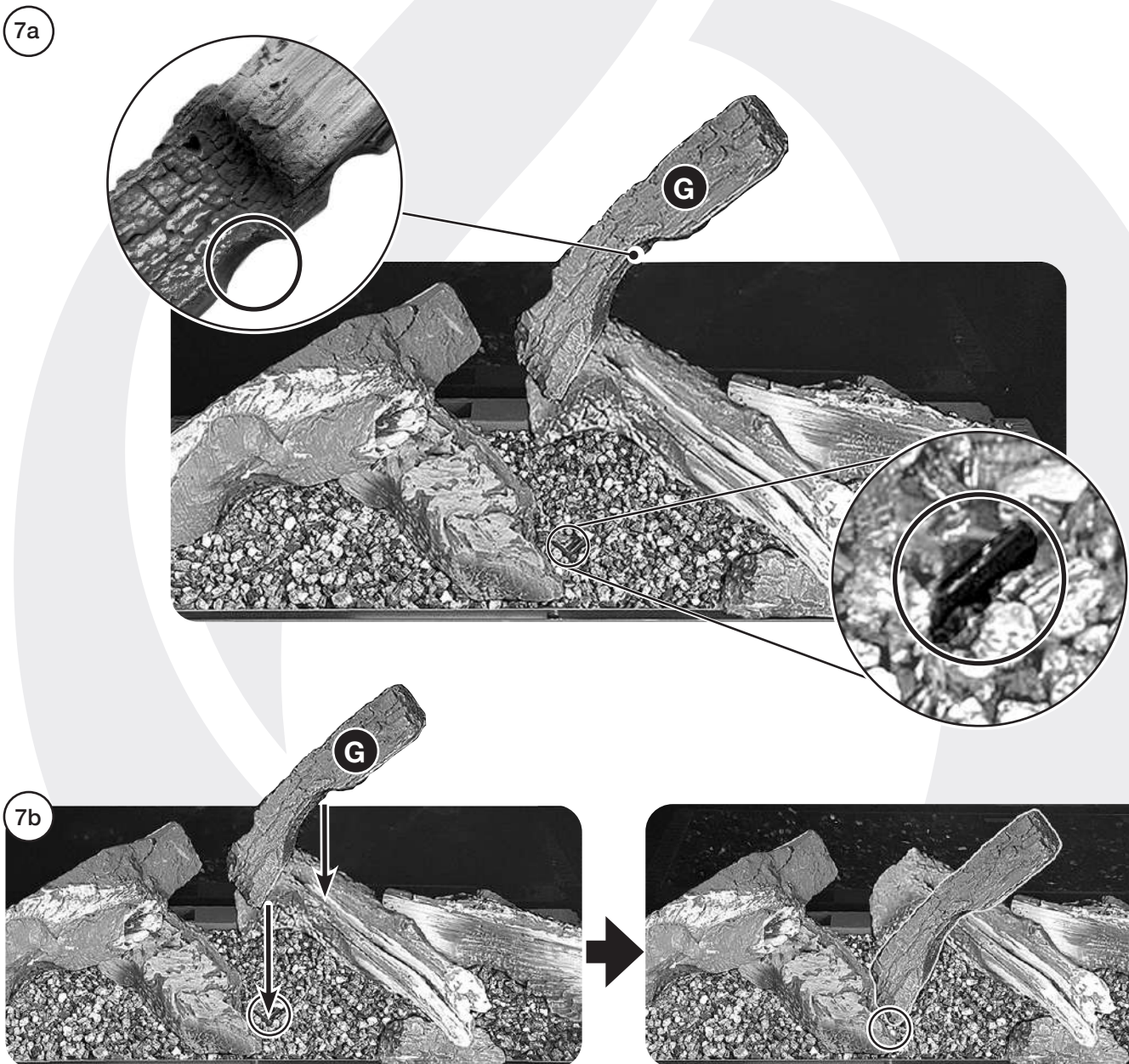


Fit the tab on the rear trim onto the cutout on the left end of the Log E. The right end rests on Log D, see diagrams 6a & 6b.

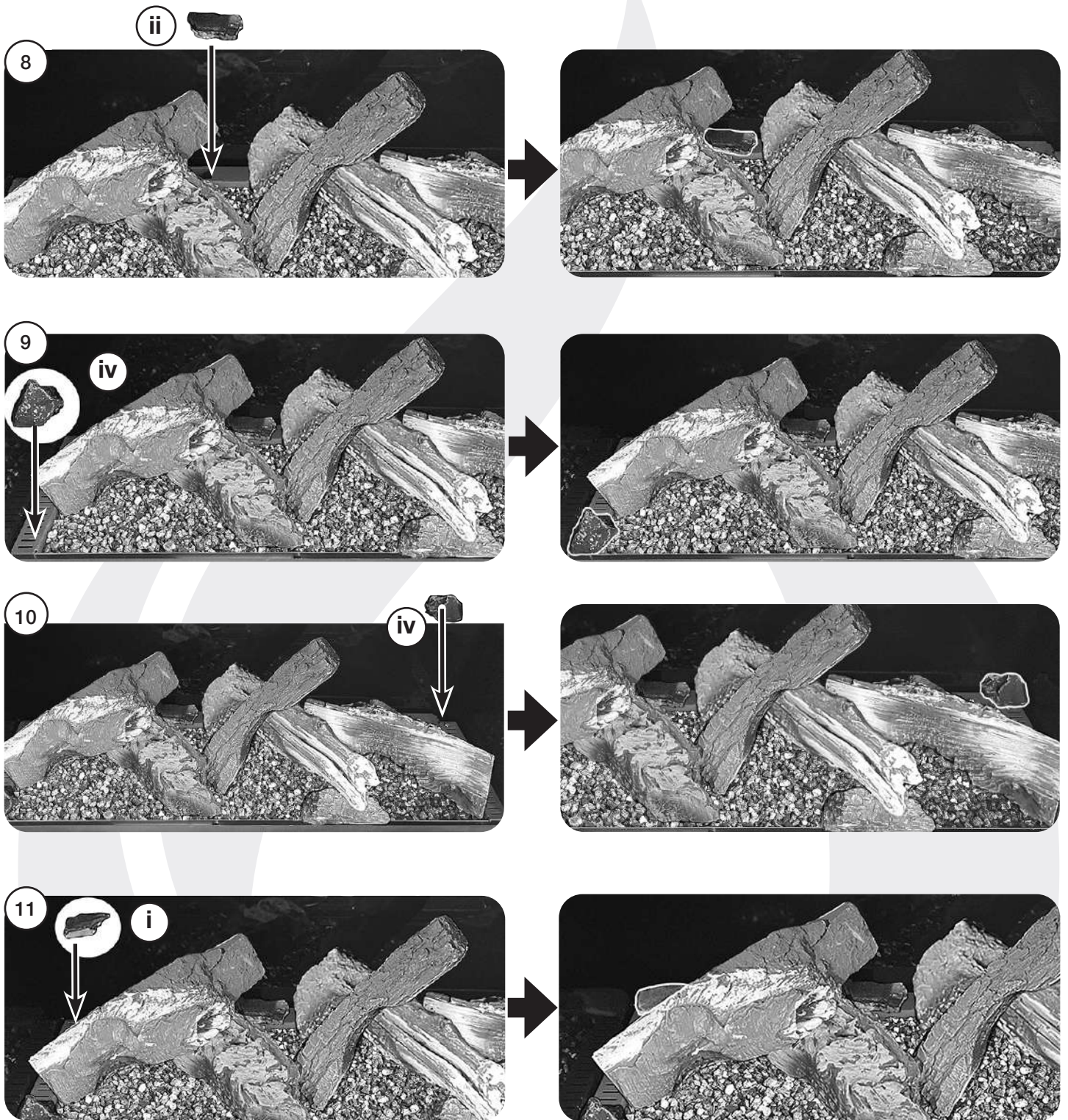




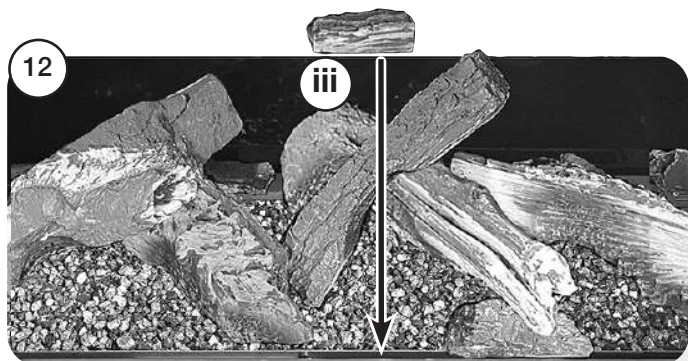
Place the cutout of Log G on top of Log E, with the left end resting on the bracket, in the position shown in diagrams 7a & 7b.



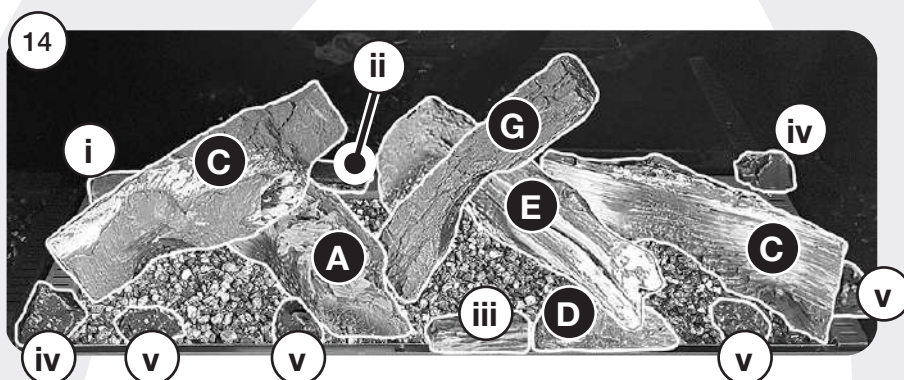
Ember ii is positioned at the rear of the burner tray and rests on the rear trim.



Ember iii sits on the front edge of the Burner Tray.



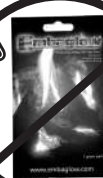
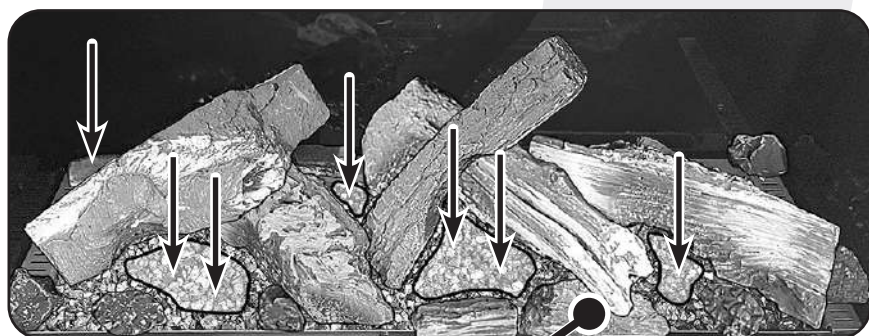
v x 4



IT MAY NOT BE NECESSARY TO USE ALL THE EMBAGLOW IN THIS PACK.
Sparingly spread an amount of the fibres provided on the sections highlighted in the instructions.
Take care not to use more than specified.



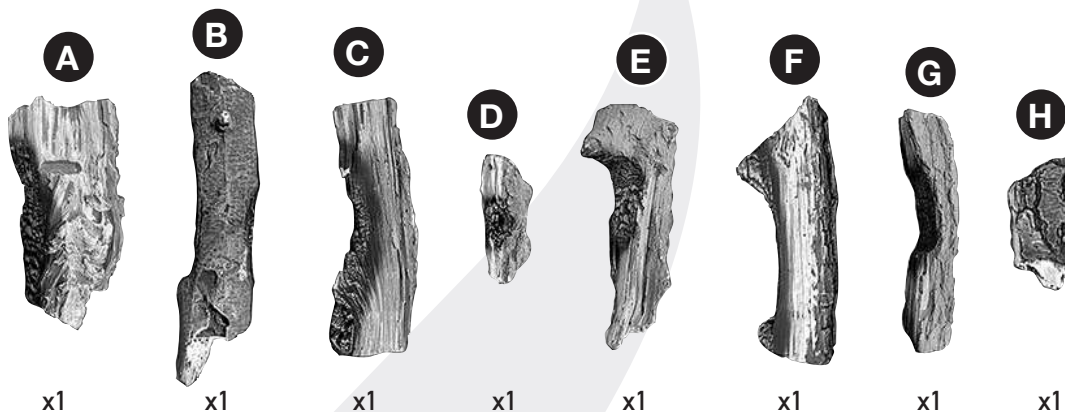
**WARNING -
DO NOT PLACE NEAR
THE PILOT AREA.**



Pilot Area

LOG LAYOUT AVANTI 85

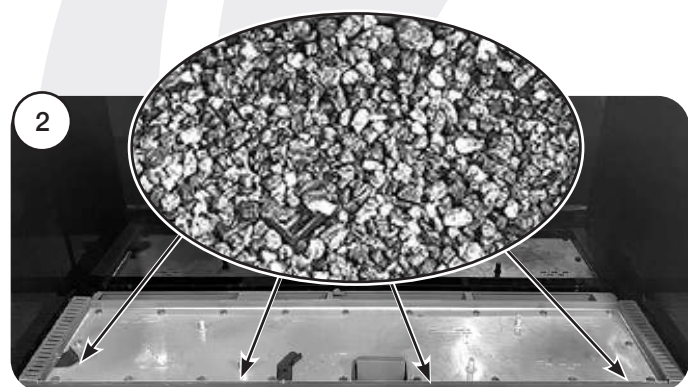
LOGS



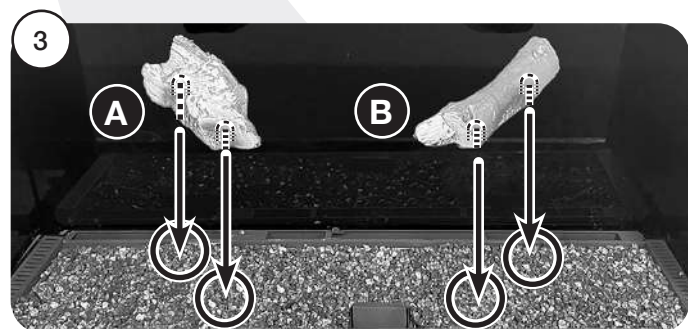
EMBERS



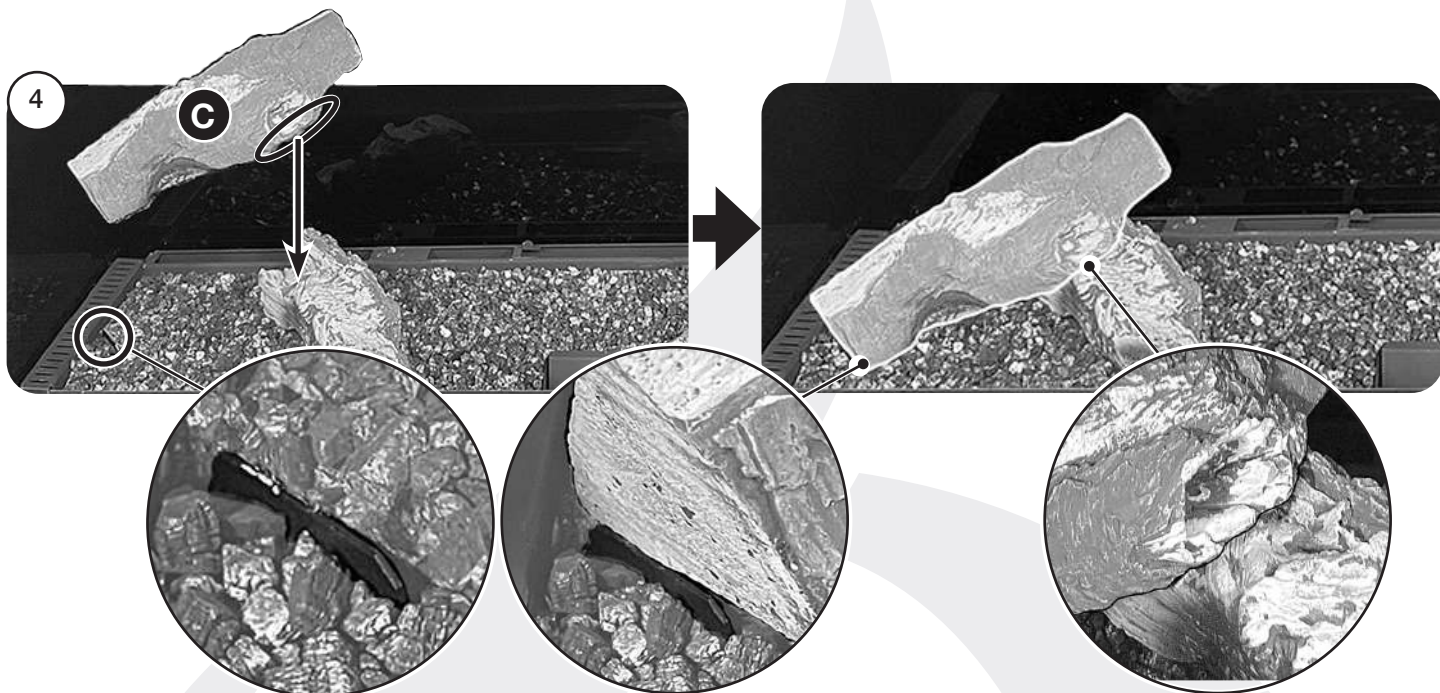
Use all the vermiculite to fill the burner tray and spread evenly across the whole burner.



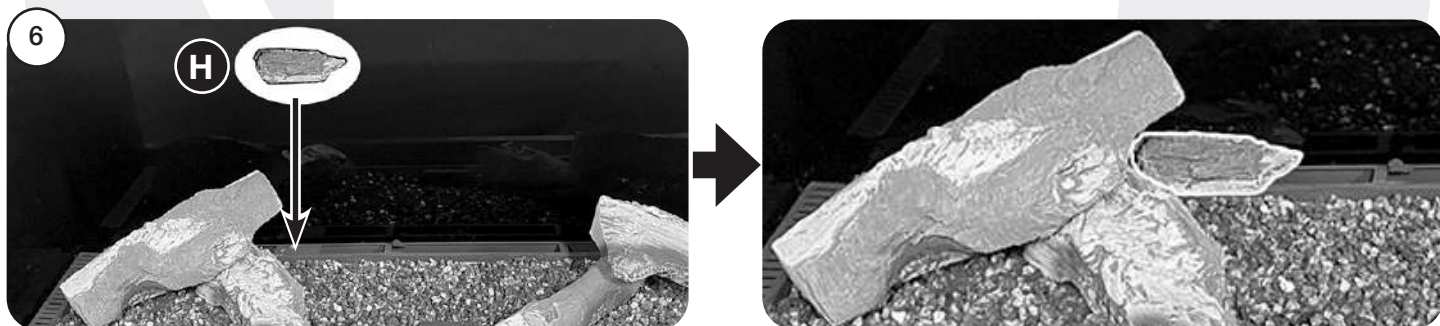
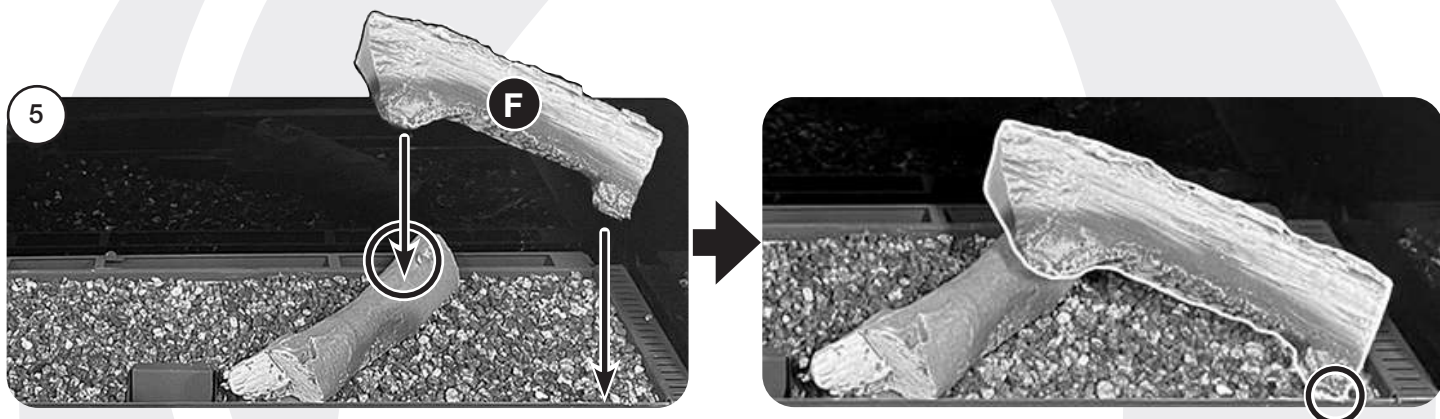
Place Log A and Log B in position on the locating pins, as shown in diagram 3.



Place the protruding edge on Log C in the groove on Log A with the left end resting on the bracket, in the position shown in diagram 4.

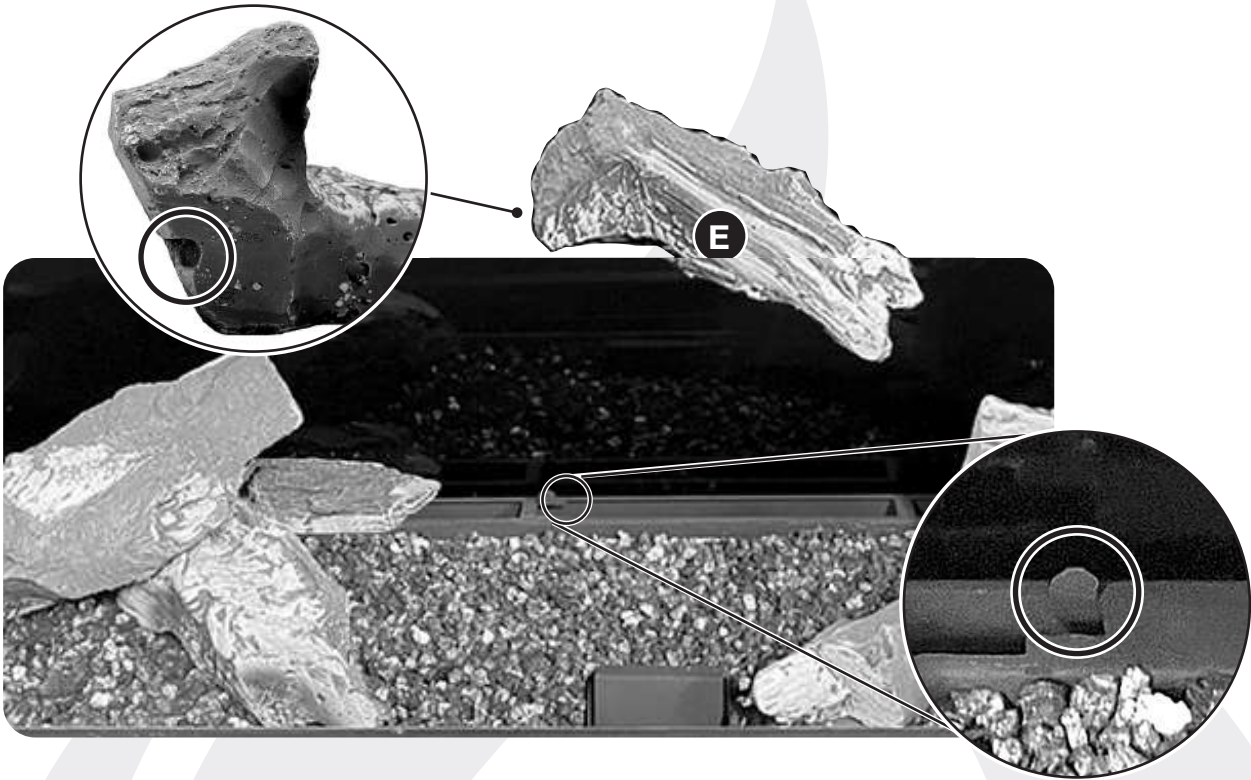


There is a hole on the underside of Log F that fits over the raised stud on Log B to secure in place. The right hand side of the log rests against the front edge of the Burner Tray.



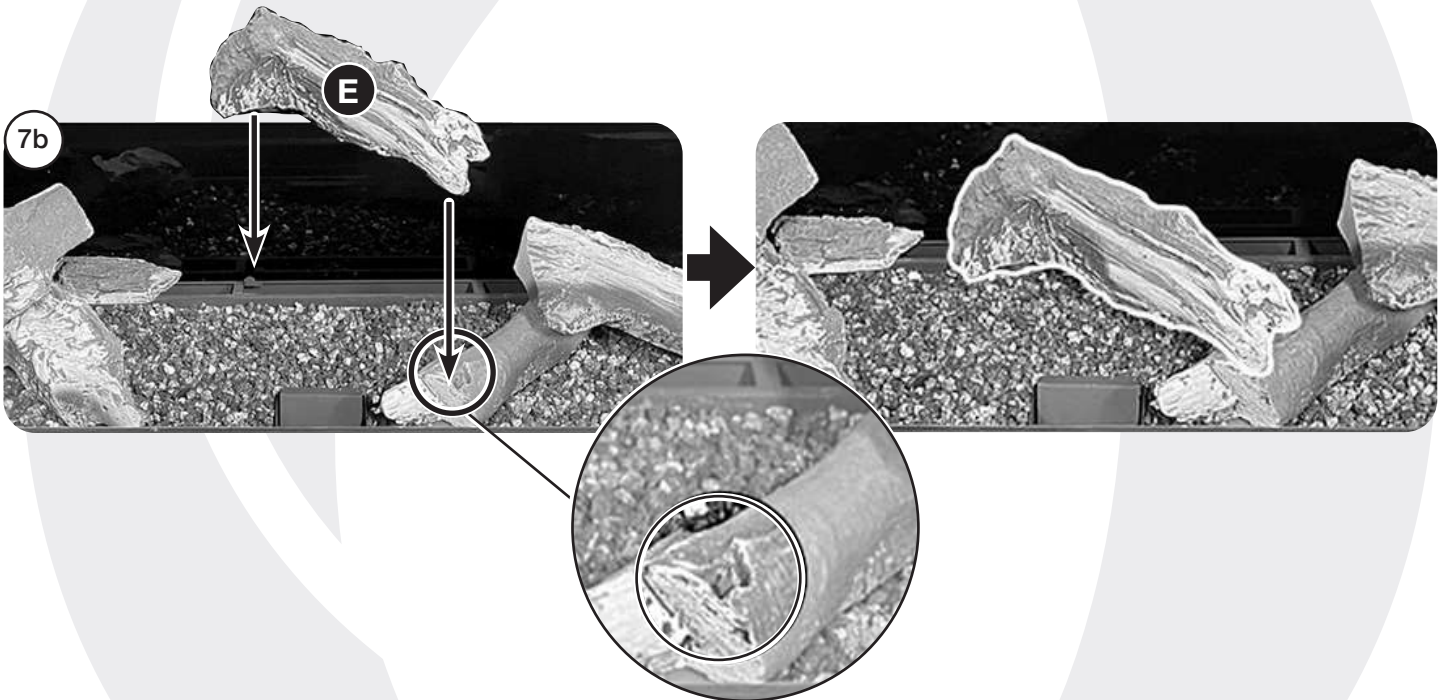
Fit the tab on the rear trim onto the cutout on the left end of Log E.

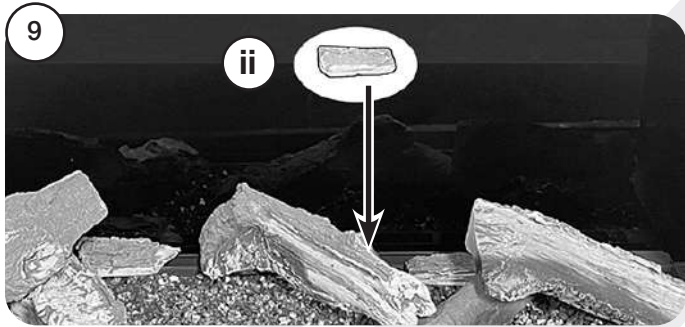
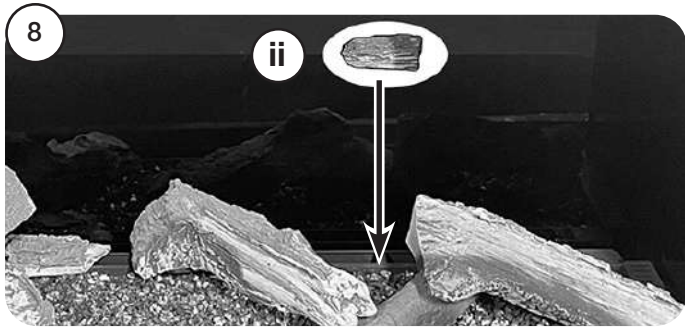
7a



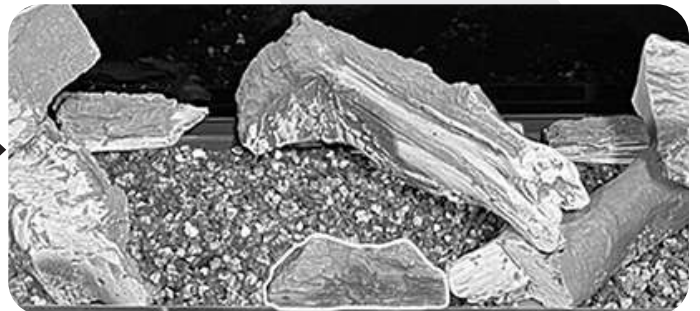
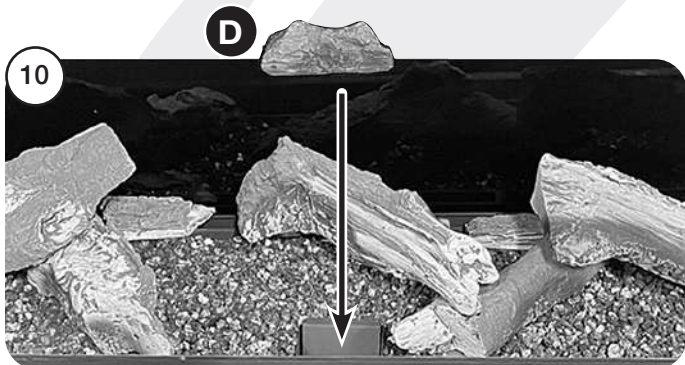
The right end of Log E rests on the cutout on Log B.

7b

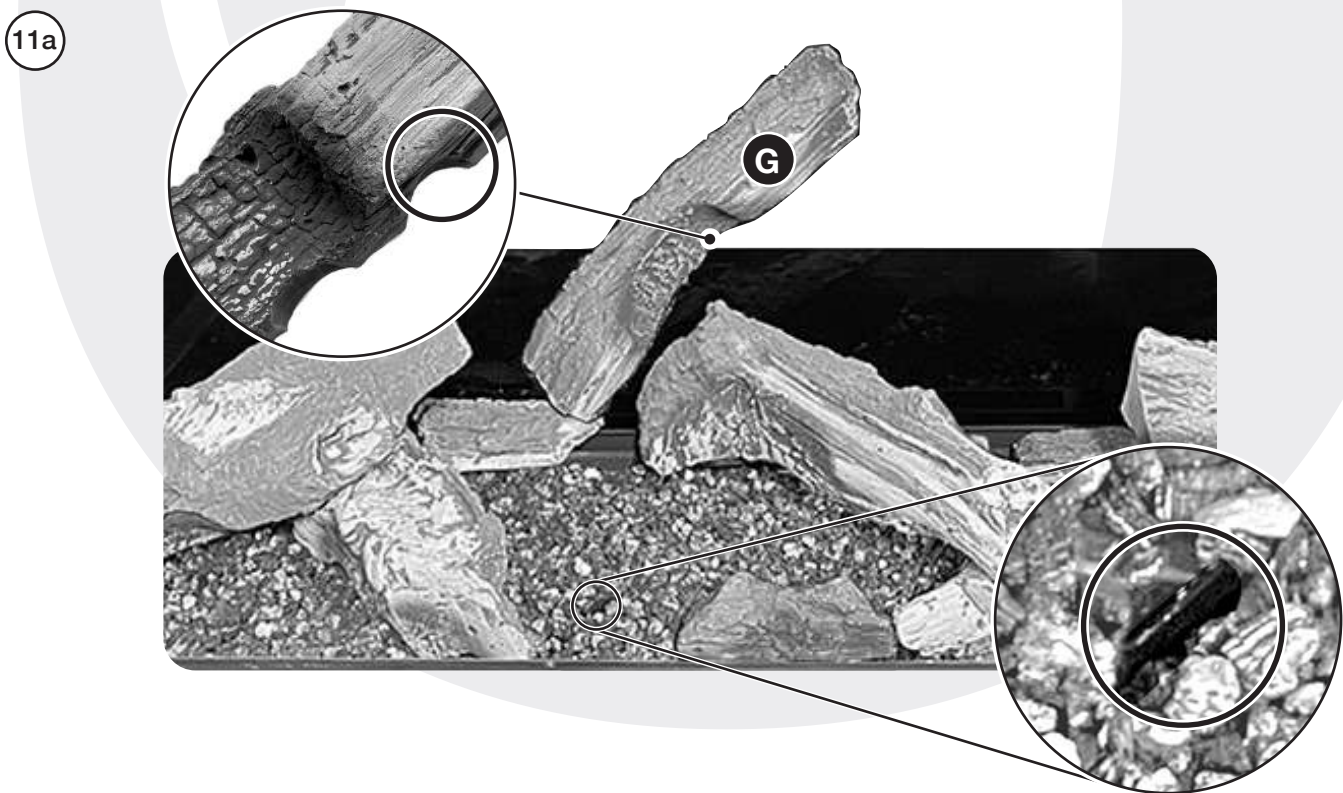


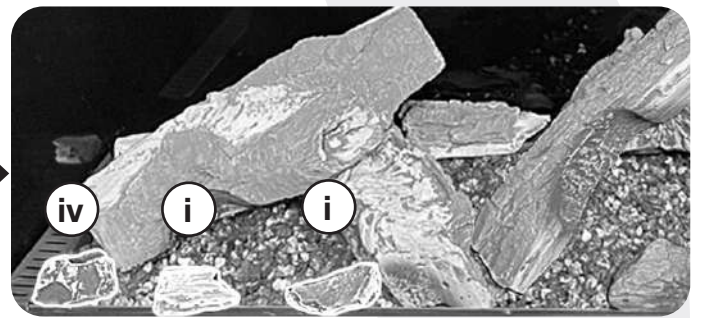
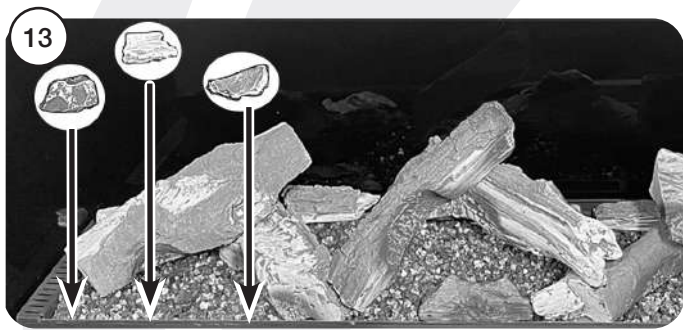
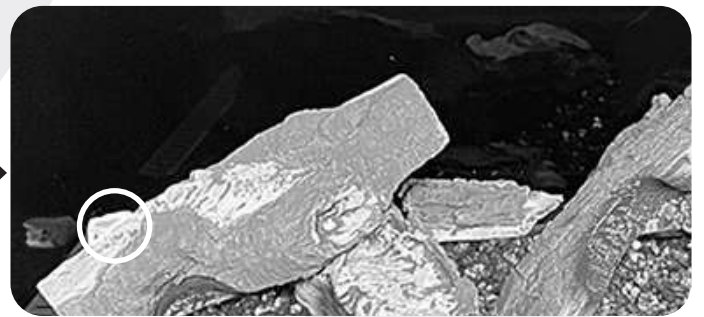
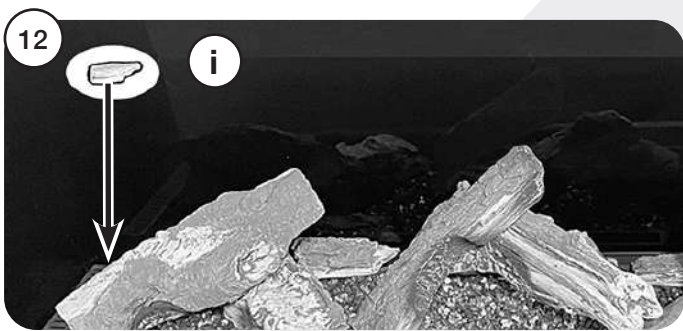
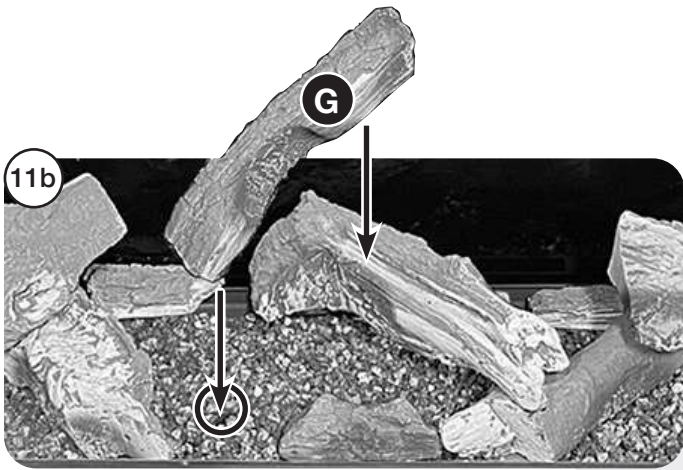


The flat edge of Log D rests against the Pilot Shield.

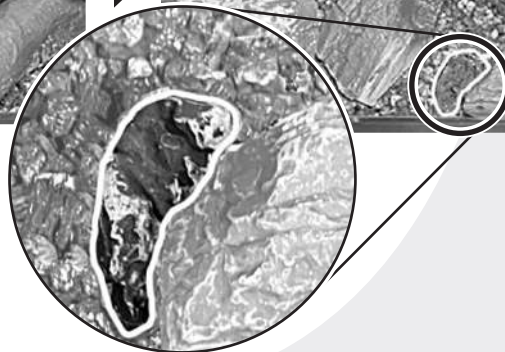
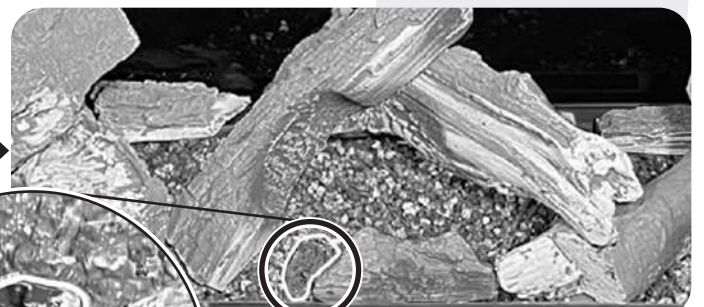
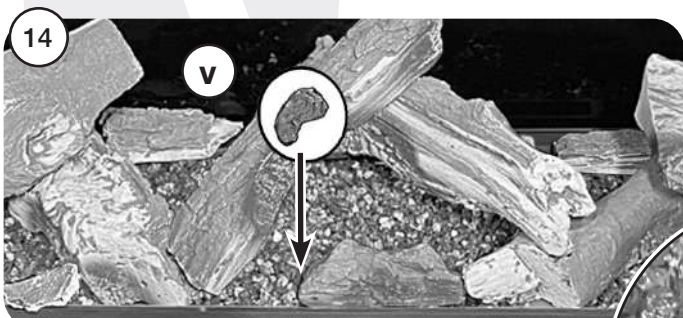


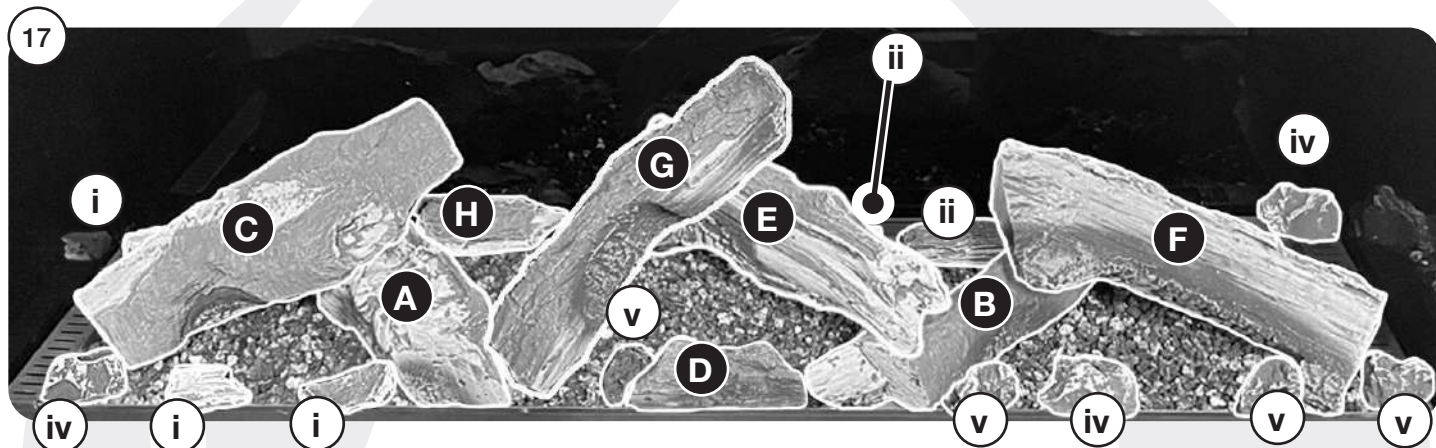
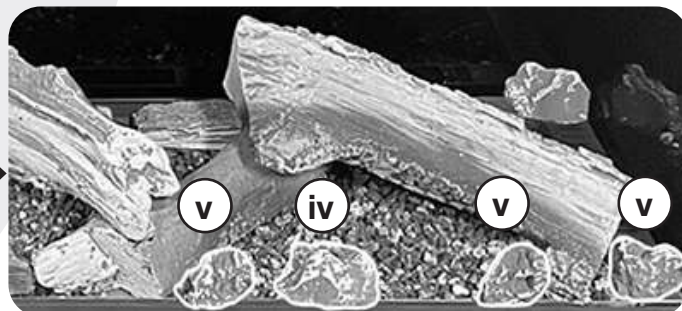
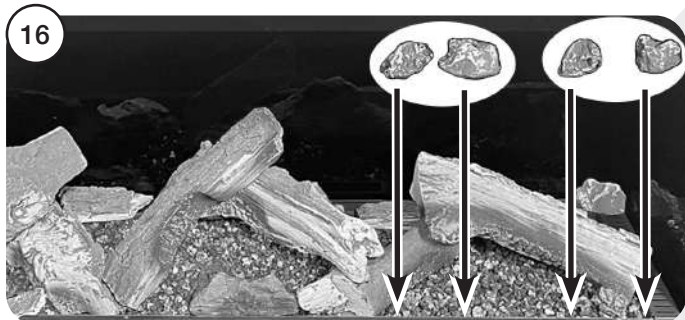
Place the cutout of Log E on top of Log E with the left end resting on the bracket and leaving a gap between Log G and Log A , in the position shown in diagrams 11a & 11b.



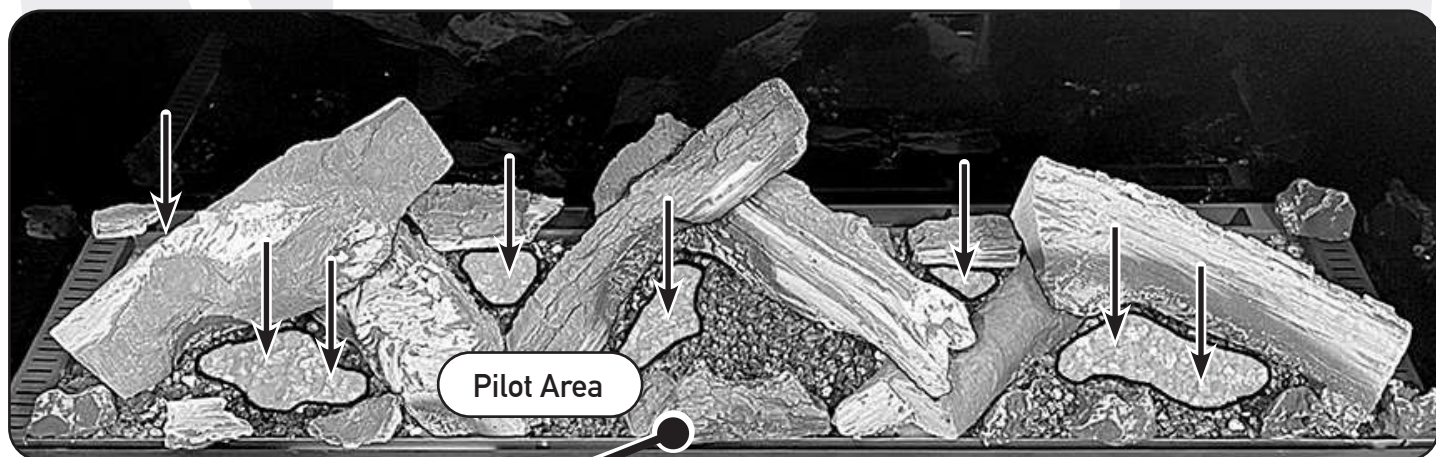


Position Ember v behind Log D as shown in diagram 14.





i IT MAY NOT BE NECESSARY TO USE ALL THE EMBAGLOW IN THIS PACK.
Sparingly spread an amount of the fibres provided on the sections highlighted in the instructions.
Take care not to use more than specified.

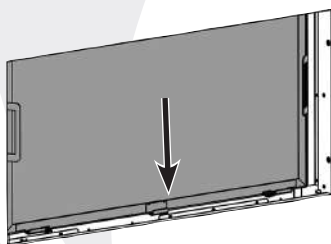
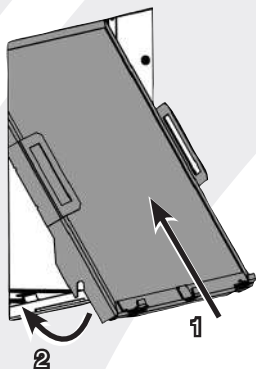
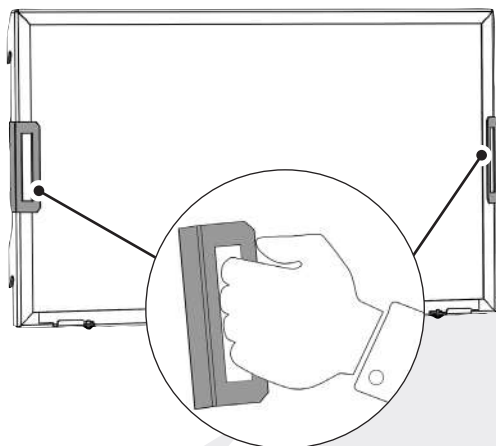


WARNING- DO NOT PLACE NEAR THE PILOT AREA.

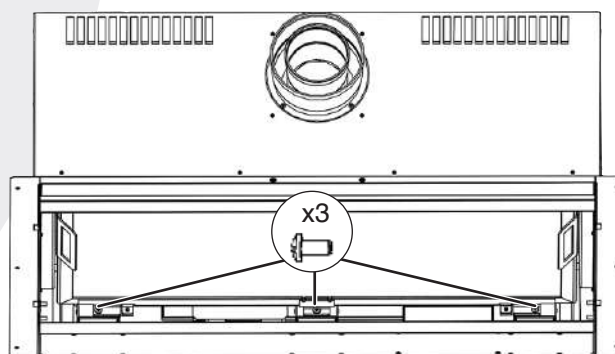
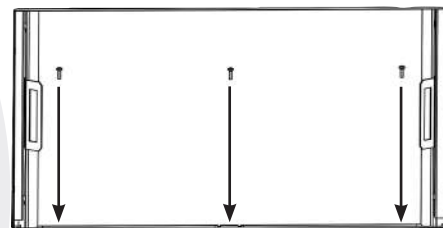
FITTING THE DOOR ASSEMBLY

Lift the door using the handles.

①



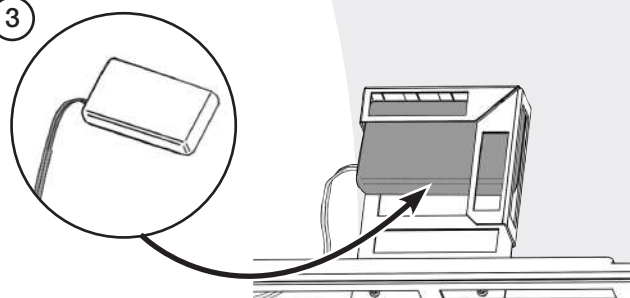
②



UNDER NO CIRCUMSTANCES SHOULD THE APPLIANCE BE USED IF ANY OF THE GLASS FRAME RETAINING SCREWS ARE LOOSE OR MISSING.

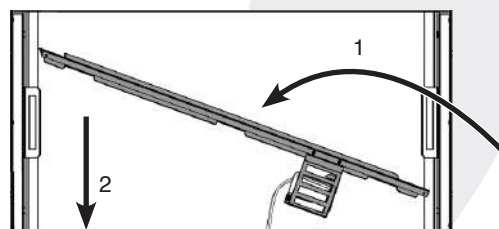
NEVER OPERATE THE APPLIANCE WHEN THE GLASS PANEL IS REMOVED OR BROKEN.

③



Replace the lower trim:

④



PLEASE ENSURE NO WIRES ARE TRAPPED BEFORE REPLACING THE LOWER SLOTTED TRIM. THE LEADS ARE EASILY DAMAGED.

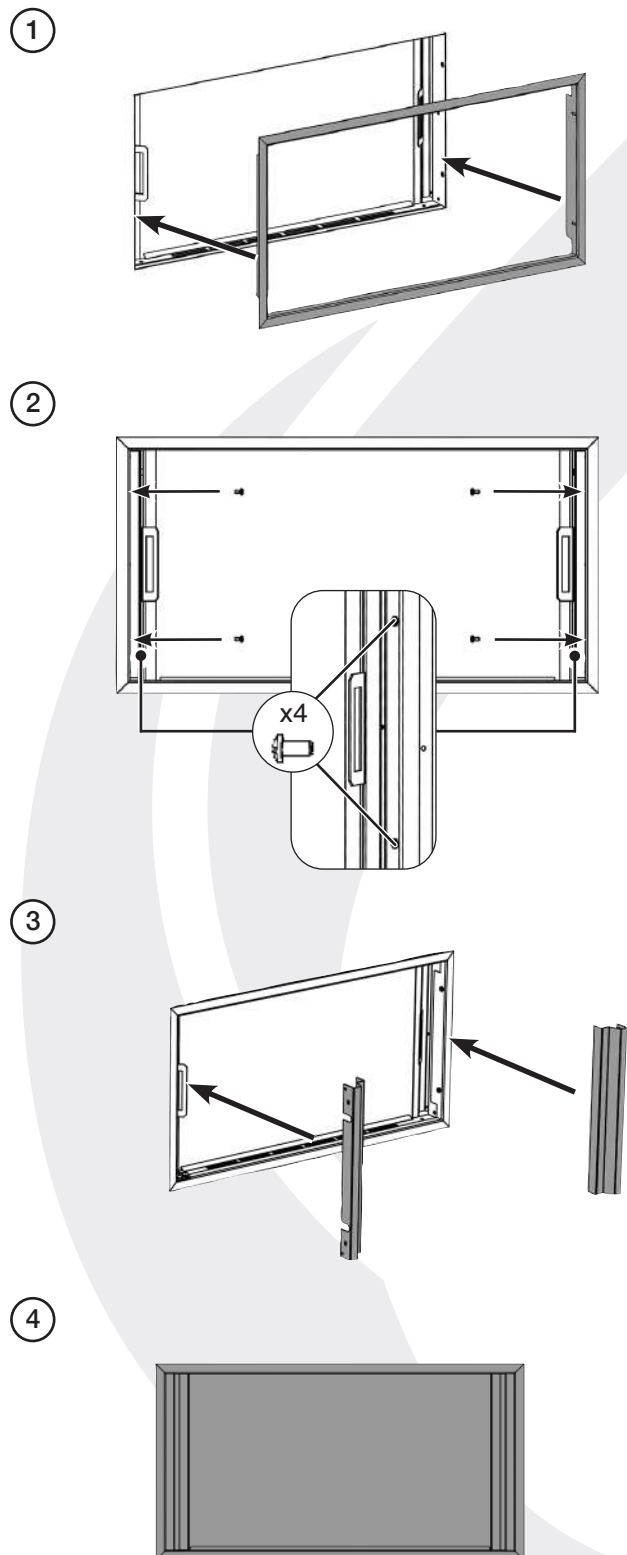
FITTING THE FRAME



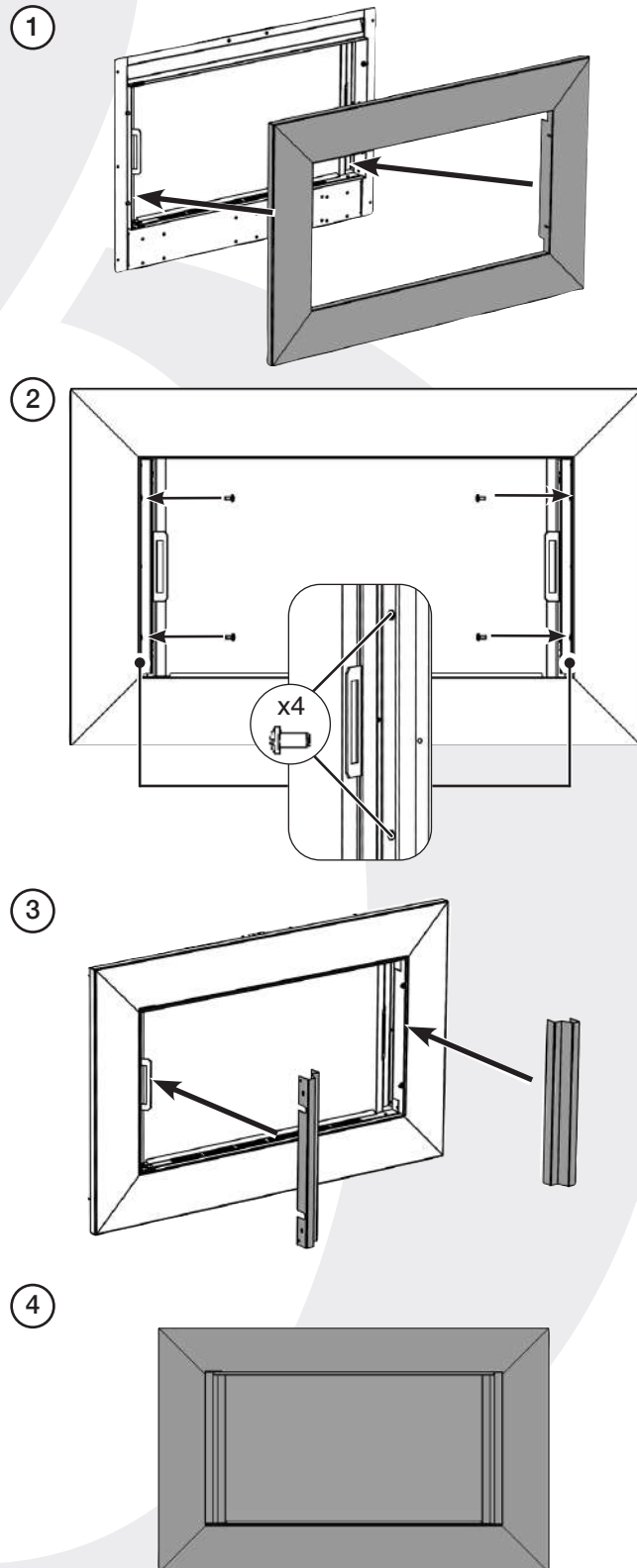
ORIGINAL DECORATIVE SIDE TRIMS ARE NOT COMPATIBLE WITH THE FRAME.

FOR INSTALLATION OR REPLACEMENT, USE THE DECORATIVE SIDE TRIMS PROVIDED IN THE SUPPLIED KIT.

EDGE+ FRAME:



EXPRESSION FRAME:



OPERATING THE APPLIANCE

There are two ways of lighting the appliance:

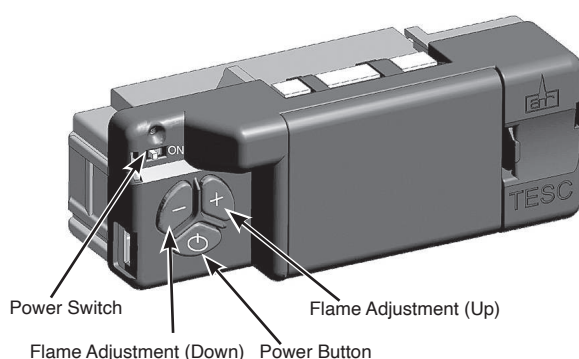
Using the **Manual Controls** on the Control Box (located on the appliance).

By **Thermostatic Remote Control**.

MANUAL OPERATION (CONTROL BOX)

Remove the Glass Door and the Main Burner to access the Manual Control as described in Servicing Instructions.

To operate the appliance the Power Switch on the Control Box must be switched ON (I).



Note: The Power Switch does not need to be turned off each time the appliance is not in use. However, if the appliance is left unattended for long periods of time (e.g. vacation), it is recommended to remove the batteries from the Battery Box located on the front of the appliance.

TURNING THE APPLIANCE ON:

Press and hold the Power Button for 1 second and release. The burner will light approximately 2 to 3 seconds later.

Use + and - buttons to adjust the flame height between Minimum and Maximum.

TURNING THE APPLIANCE OFF

Press the power button to turn the appliance off.

IMPORTANT: YELLOW FLAMES TYPICALLY APPEAR WHEN THE APPLIANCE HAS REACHED NORMAL OPERATING TEMPERATURE. THIS CAN TAKE UP TO 30 MINUTES.

WARNING: IF THE APPLIANCE FAILS TO LIGHT OR BECOMES EXTINGUISHED IN USE, WAIT 3 MINUTES BEFORE ATTEMPTING TO RELIGHT.

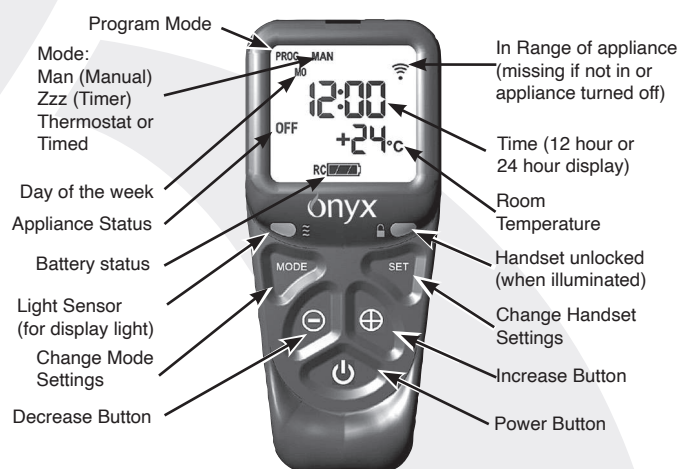
THE APPLIANCE WILL TAKE 3 AUTOMATIC ATTEMPTS TO RESTART. DO NOT INTERRUPT THE VALVE DURING THIS PROCESS.

REMOTE CONTROL

The appliance is operated by **Thermostatic Remote Control**.

To operate the appliance the Power Switch on the Control Box must be switched ON (I).

i To activate the Remote Control it will be necessary to cradle the handset to unlock. The green light will illuminate to show the handset is ready to use. **IMPORTANT:** Continue to cradle the handset throughout an operation to keep it unlocked. If the green light goes off during an operation it will be necessary to reposition the handset so the light comes back on and restart the operation.



HANDSET INITIAL SET UP

Following initial set up or new pairing it will be necessary to set the time and date.

i **Note:** Pressing SET button will advance the display to the next screen and pressing MODE button will return it to the previous setting.

SETTING THE TIME

Once the handset is paired the screen will show that the time is not yet set. The handset will then automatically progress to the next setup screen.



SETTING THE DISPLAY FOR 12 OR 24 HOUR CLOCK

Holding the remote to keep the green light on and the handset unlocked the handset will display an H:24.



24 denotes a 24 hour clock and 12 denotes a 12 hour clock.

Press the + or - button on the handset to toggle between the two settings.
Press the SET button to confirm and progress to setting the day of the week.

SETTING THE DAY OF THE WEEK

Press and release the + and - buttons until the correct day of the week is shown on the display.



Mo = Monday, **Tu** = Tuesday, **We** = Wednesday, **Th** = Thursday, **Fr** = Friday, **Sa** = Saturday and **Su** = Sunday.

Press SET to confirm the day of the week and progress to setting the time.

SETTING THE HOUR

Press and release the + or - button to change the hour to the correct hour. Press SET to confirm and progress to setting the minute.



SETTING THE MINUTES

Repeat the process to change the minutes.

SETTING THE TEMPERATURE DISPLAY (CELSIUS OR FAHRENHEIT)

Press and release the + or - button to toggle between C and F. When the display shows the desired symbol, press and release the SET button to store.



Place the handset down and wait until the home screen is displayed and the unlock light goes off.

! ALL THE NECESSARY SETTINGS REQUIRED HAVE NOW BEEN COMPLETED. ANY FURTHER FUNCTIONS ON THIS HANDSET ARE FOR FACTORY SETTING AND NOT TO BE USED.

The Handset is now ready to operate the appliance.

OPERATING THE APPLIANCE

TURNING THE APPLIANCE ON

Press the Power Button until Pilot flashes on the display.

Release the Power Button and the Flame symbol will appear on the display.

If the button is held the command will be cancelled for safety reasons.

Holding the handset to unlock, use + and - buttons to adjust the flame height between Minimum and Maximum.

TURNING THE APPLIANCE OFF

Holding the handset to unlock, press the power button to turn the appliance off.

i IMPORTANT: YELLOW FLAMES TYPICALLY APPEAR WHEN THE APPLIANCE HAS REACHED NORMAL OPERATING TEMPERATURE. THIS CAN TAKE UP TO 30 MINUTES.

! WARNING: IF THE APPLIANCE FAILS TO LIGHT OR BECOMES EXTINGUISHED IN USE, WAIT 3 MINUTES BEFORE ATTEMPTING TO RELIGHT.

THE APPLIANCE WILL TAKE 3 AUTOMATIC ATTEMPTS TO RESTART. DO NOT INTERRUPT THE VALVE DURING THIS PROCESS.

COMMISSIONING

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

- Thermocouple soundness checks.
This is to include ensuring the thermocouple is secure on the pilot bracket assembly, lead connection and integrity.
- Flue checks
- Gas checks
- Log/fuel effect layout - flame picture

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.

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.

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

- a) Regular servicing (User Instructions).
- b) Ventilation (User Instructions) - point out the ventilation positions where applicable.
- c) Hot surfaces (User Instructions).

PAIRING THE APPLIANCE

It may be necessary to pair the handset to the appliance following servicing.

Ensure the Power switch on the Control Box is in the ON (I) position.

Cradle the handset to unlock.
The green light must be illuminated for the handset to accept commands.

Simultaneously press and hold the - and + buttons on the Control Box, until the red light appears on the Control Box.



WARNING: IF THE + AND - BUTTONS ARE DEPRESSED FOR 20 SECONDS OR MORE THE LIGHT WILL EMIT A SLOW STEADY PULSE. FURTHER ACTIONS WILL REMOVE ANY HANDSET PAIRING.

Release the - and + buttons and within 1 second press the  Power Button on the Control Box.

The handset emits a short beep, the green light on the handset flashes and the following icon is displayed.



With the display showing the icon press and hold the SET button to pair the handset to the appliance.

Following new pairing it will be necessary to set the time and date, see Installation Instructions.

If too much time passes without the SET command the display will show the following.



The handset has not paired and the process will need to be started again.

SERVICING REQUIREMENTS/ FAULT FINDING CHARTS

IMPORTANT – Check the glass panel on this appliance for any signs of damage on 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.
DO NOT USE the appliance if any damage is observed.
 Isolate the appliance until a replacement has been obtained and installed. Purchase replacement glass panels from Onyx via the retailer from which the appliance was purchased or any other Onyx distributor.

This appliance must be serviced at least once a year by a competent person.

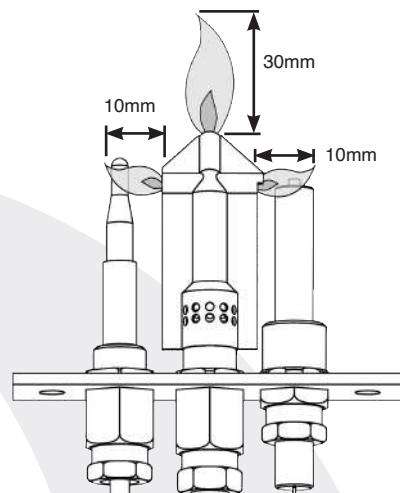
All tests must be carried out in accordance with the current Gas Safe recommendations.

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.

SPECIAL CHECKS:

- Clean the burner using a vacuum cleaner with a soft brush attachment.
- Ensure all debris is removed from the burner ports.
- Clean away lint or fluff from the pilot.
- Clean away lint or fluff from under the burner.
- Check the spark gap on the pilot is correct.
- Ensure that the glass frame is secured correctly and that all retaining screws are in place.

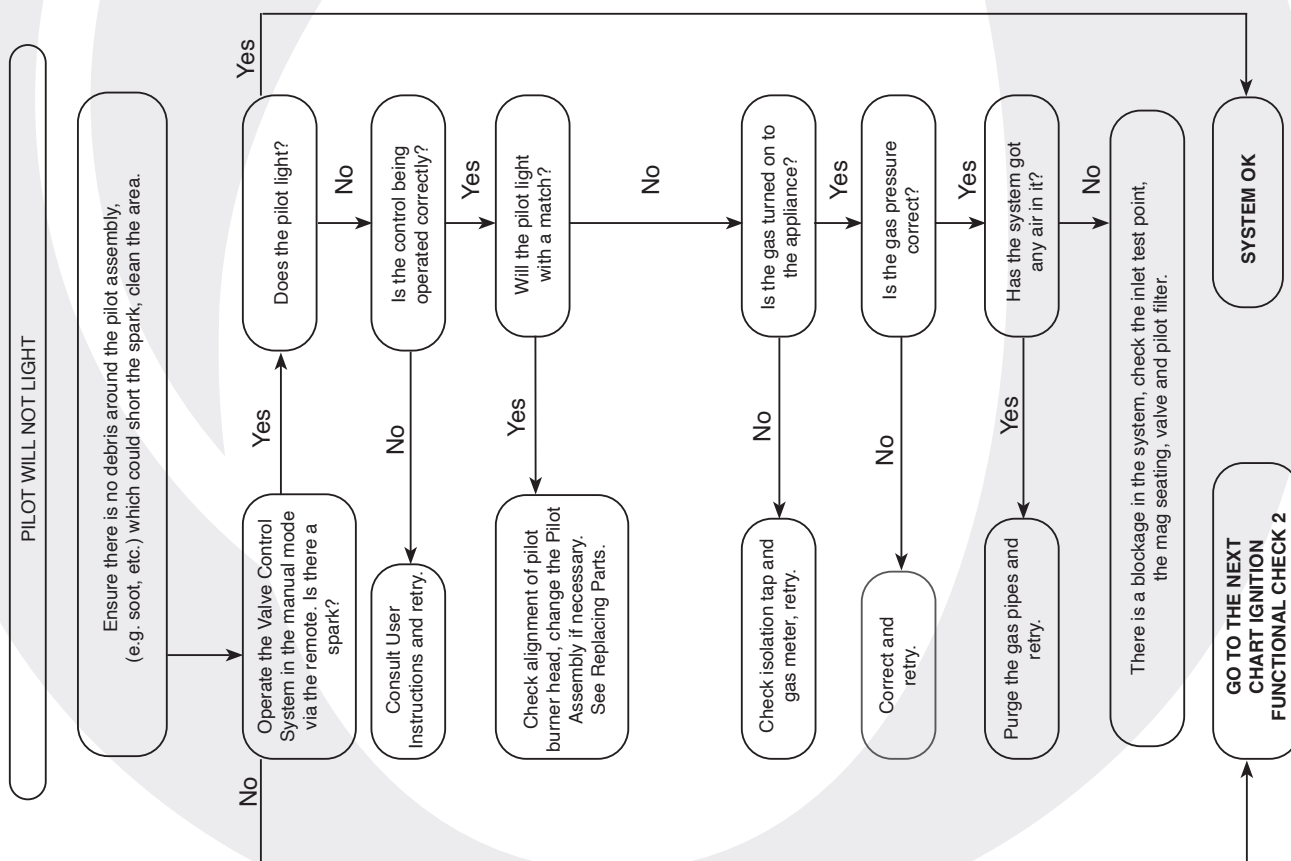


Correct any faults found during the initial test.

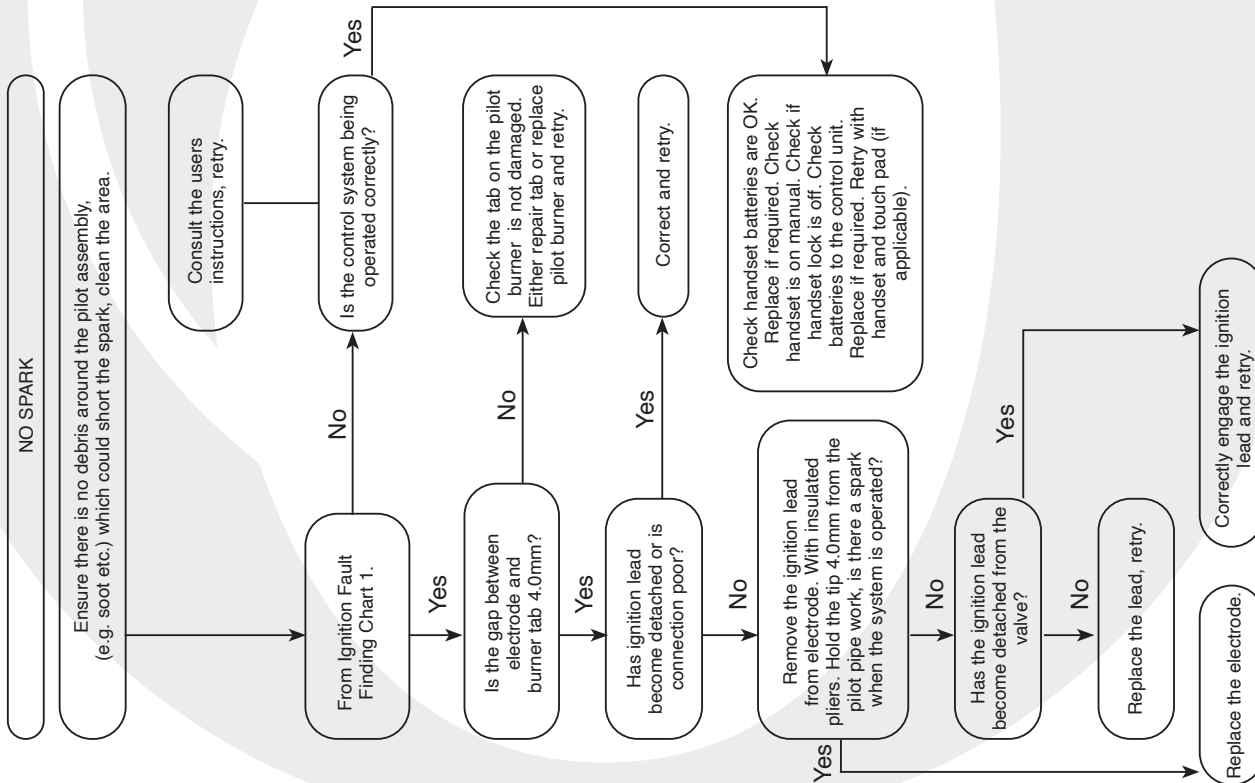
Re-commission the appliance in accordance with Commissioning Procedures.

Advise the customer of any remedial work undertaken.

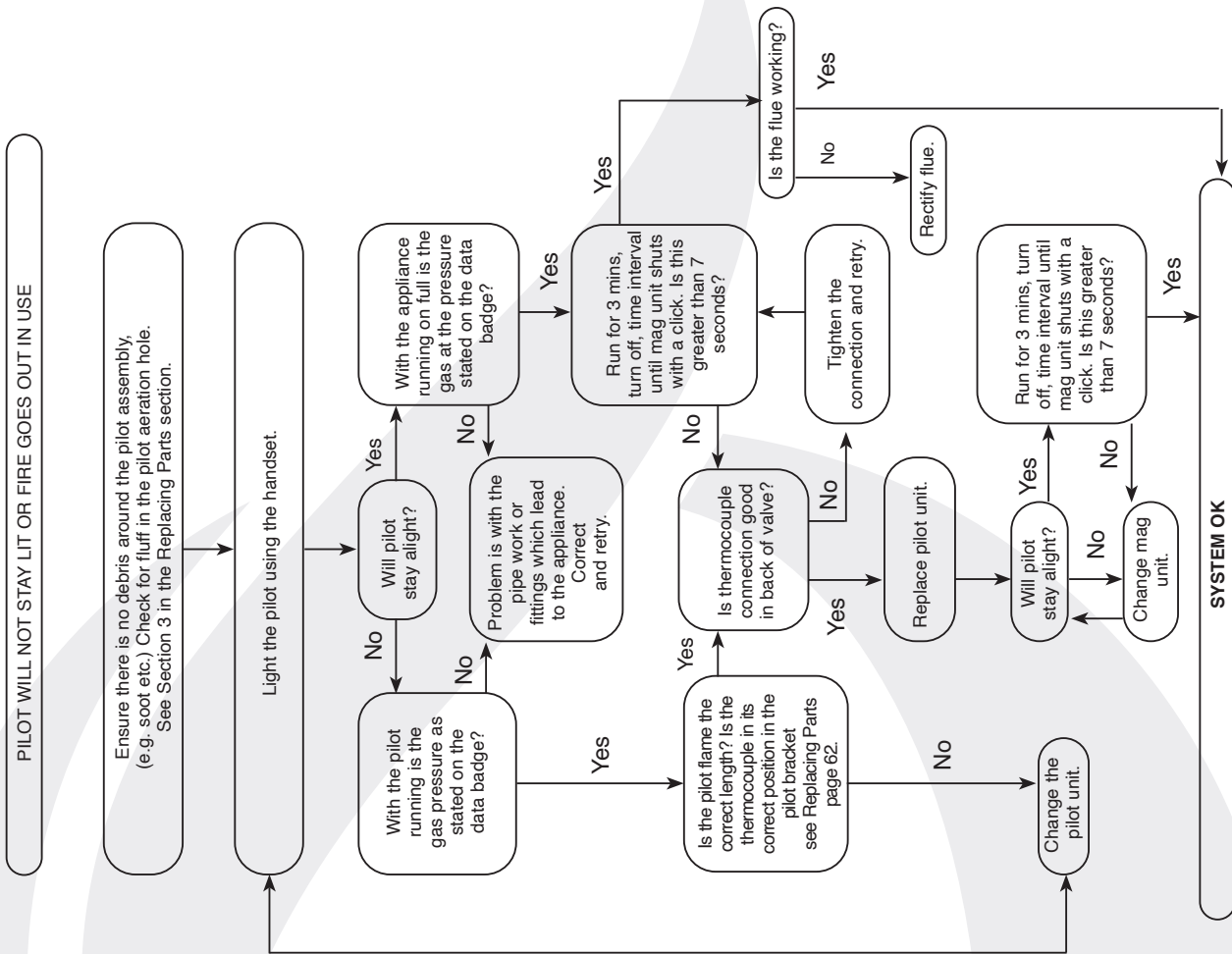
IGNITION FUNCTIONAL CHECK 1



IGNITION FUNCTIONAL CHECK 2



FLAME FAILURE FUNCTIONAL CHECK 3



FAULT FINDING CHARTS

ELECTRONIC CONTROL VALVE FAULT ANALYSIS

RED INDICATOR	MEANING
Permanently Lit	Valve tried to light but failed and in LOCKOUT E00
Flashing very fast	Valve is busy (will not accept any command)
Flashing once a second	Valve detects an error
Flashing once every 10 seconds	Indication of low battery power in valve
Flashing twice every 10 seconds (handset only)	Indication of low battery power in handset and valve
Permanently off	Valve in standby or in a stable operation
On momentarily after power up	Valve doing a self test
Appears after pressing start	Indicates time to release pressing the start button

If the valve indicates an error:

Allow the appliance to cool (if hot).

Check the battery status and replace with new if in any doubt.

Reset the error by first pressing the power button (with the appliance cool).

Press once again to start the fire.

If the error repeats refer to the error code table below.

ERROR CODE	MEANING
E00	Valve Locked due to failed ignition.
E01	Indicates that possibly the content of CO is too high in ambient atmosphere.
E02	Ambient temperature around Gas valve in the fire too hot (exceeded 72°C).
E03	Thermocouple connection to valve issue. Incorrect reading from thermocouple.
E04	Flame detected on pilot after valve has shutdown.
E05	Flame detected on pilot before valve has started.
E06 & 07	Occurs when supply voltage is too low to operate the valve.
E24	Occurs when thermocouple does not reach its final temperature within 1 minute.

SERVICING INSTRUCTIONS

GENERAL

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.

It will be necessary to remove the burners and the fuel bed before any of the main components can be serviced.

Make sure the appliance and surrounds are cool before cleaning.

! DURING SERVICING OF THIS APPLIANCE IT MAY BE NECESSARY TO CUT CABLE TIES IN ORDER TO ACCESS AND REMOVE SOME OF THE PARTS. THESE MUST BE REPLACED WHEN REASSEMBLING THE APPLIANCE.

SERVICING AND SUPPORT

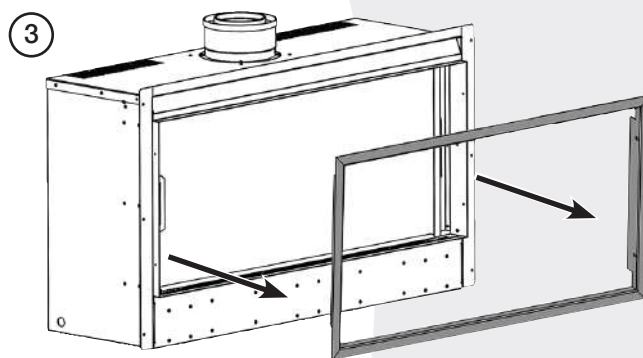
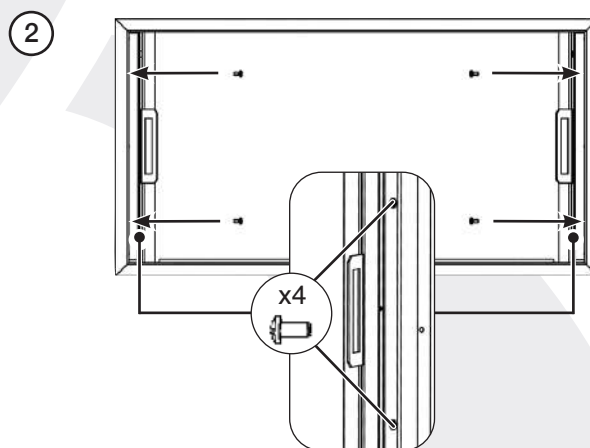
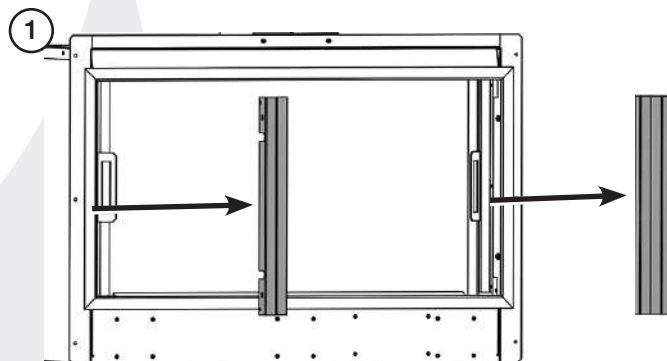
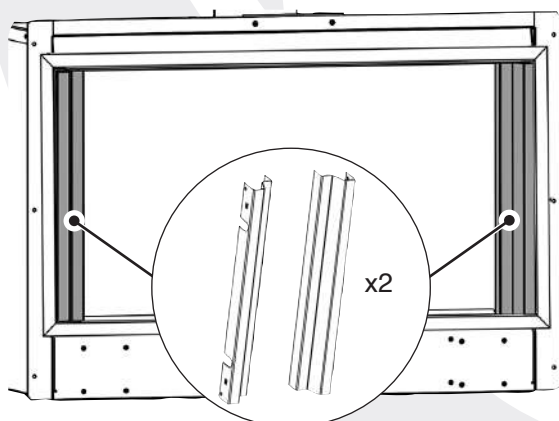


Servicing and Support

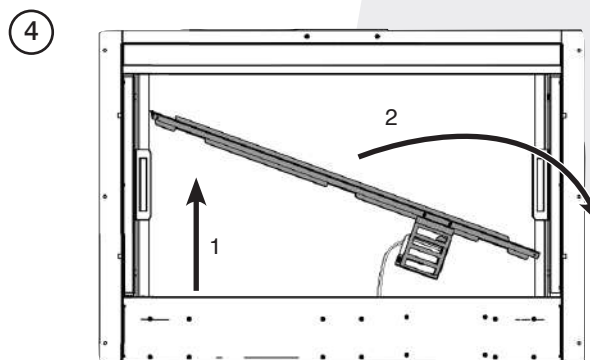
To keep your appliance looking and performing at its best, it must be serviced annually. This service must be undertaken by a suitably qualified individual and your retailer can organise this for you. Alternatively, Onyx offer a manufacturers premium service with our friendly team of qualified engineers which can be booked at www.onyxfires.com/support.

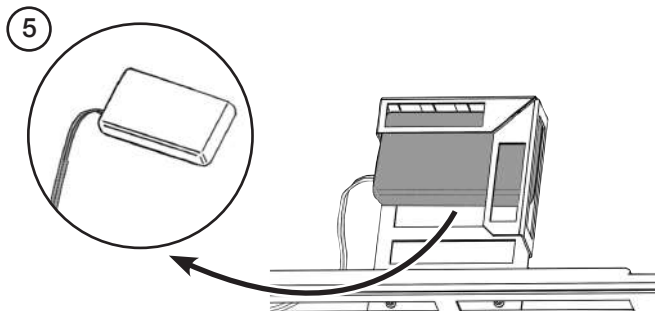
1. REMOVING THE GLASS DOOR

Edge+ Frame shown.



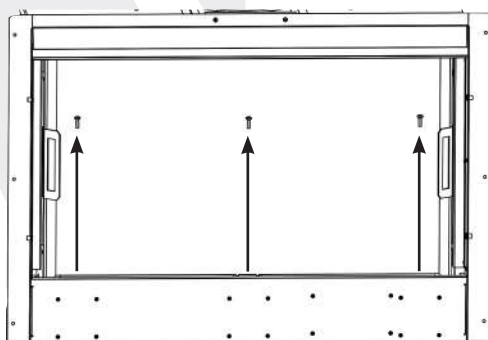
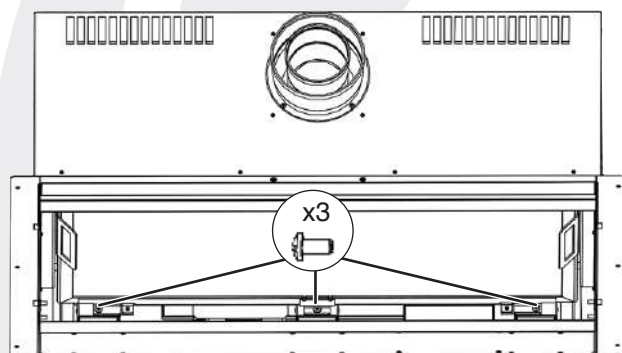
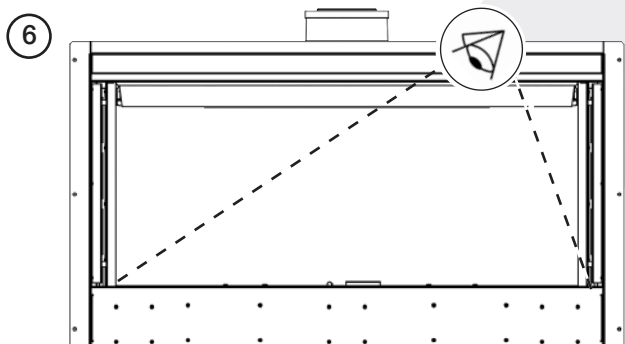
Lift out the bottom slotted trim.



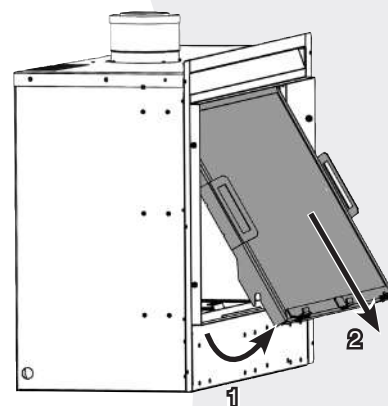
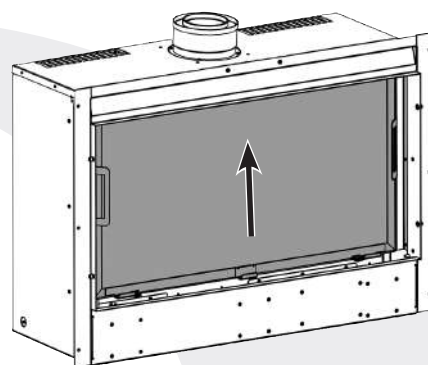
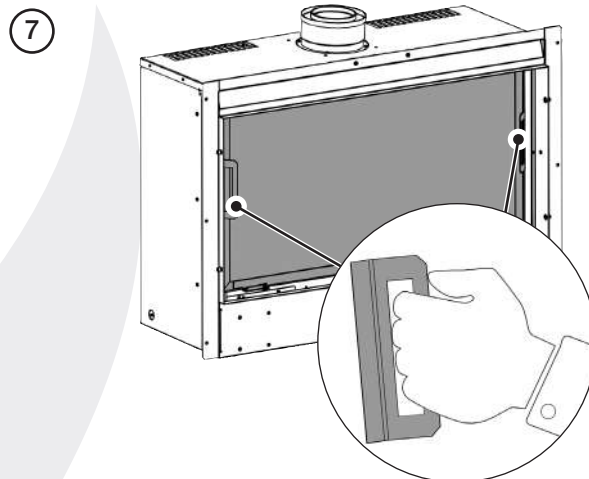


i NOTE: The Battery Box cannot be disconnected from the valve at this stage.

Note the orientation of the metal shield for reassembly.



Lift the door using the handles, up and over the lower edge,



Remove the logs, and place them on a dry, clean surface.

Replace ALL of the glass frame securing screws ensuring that a screw is present in all fixing slots.

NEVER OPERATE THE APPLIANCE WHEN THE DOOR IS REMOVED, OR THE GLASS IS BROKEN.



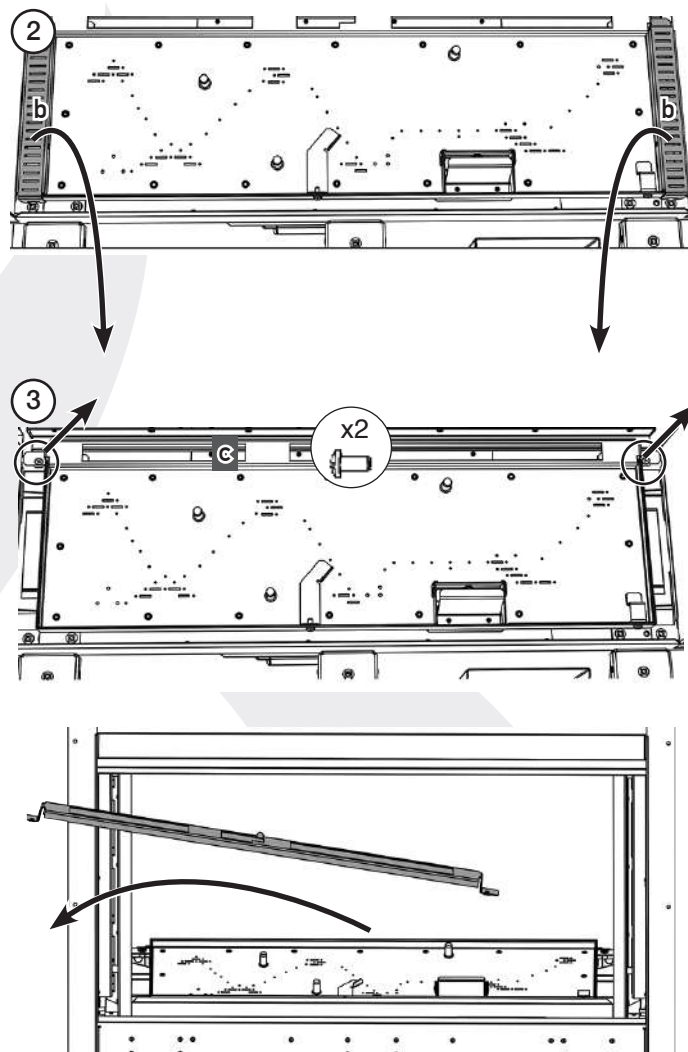
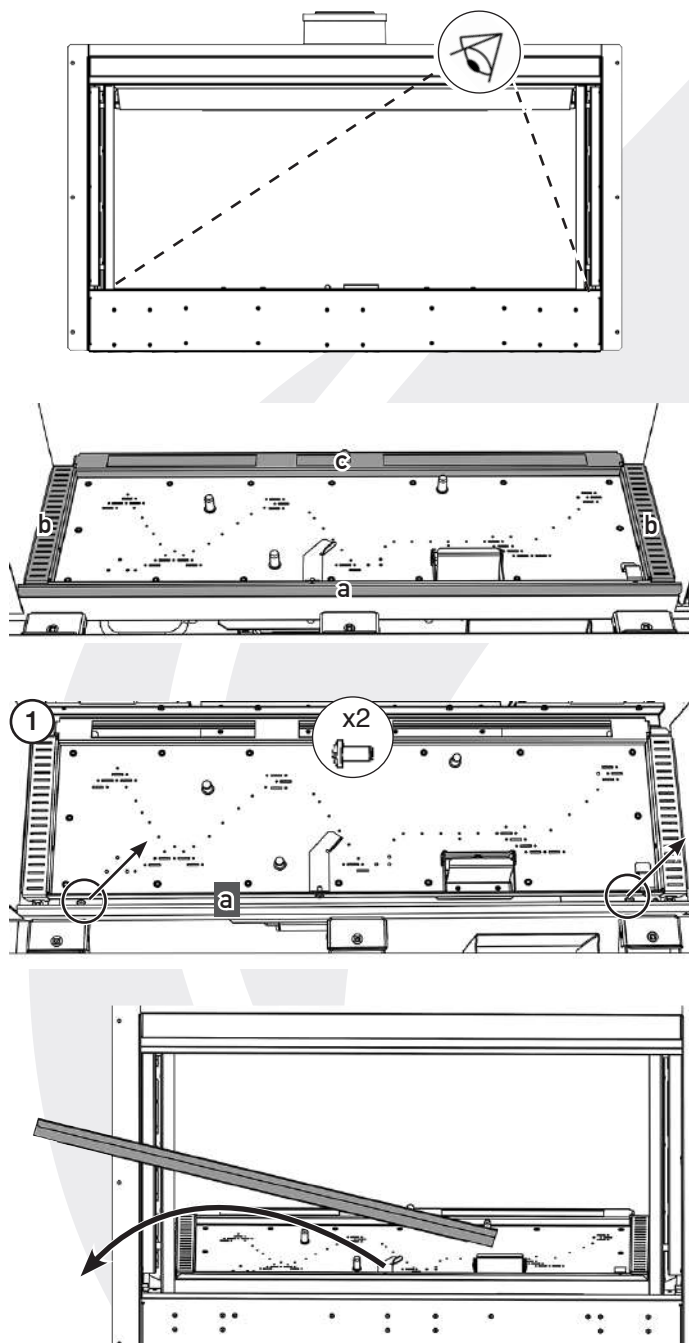
UNDER NO CIRCUMSTANCES SHOULD THE APPLIANCE BE USED IF ANY OF THE GLASS FRAME RETAINING SCREWS ARE LOOSE OR MISSING.

2. MAIN BURNER

The Burner infill trims must be removed before the Burner can be taken out of the appliance.

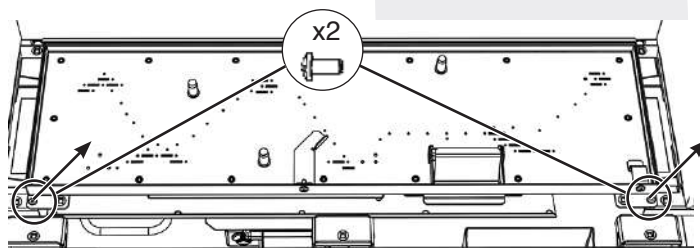
BURNER INFILL TRIMS:

AVANTI 65 Shown

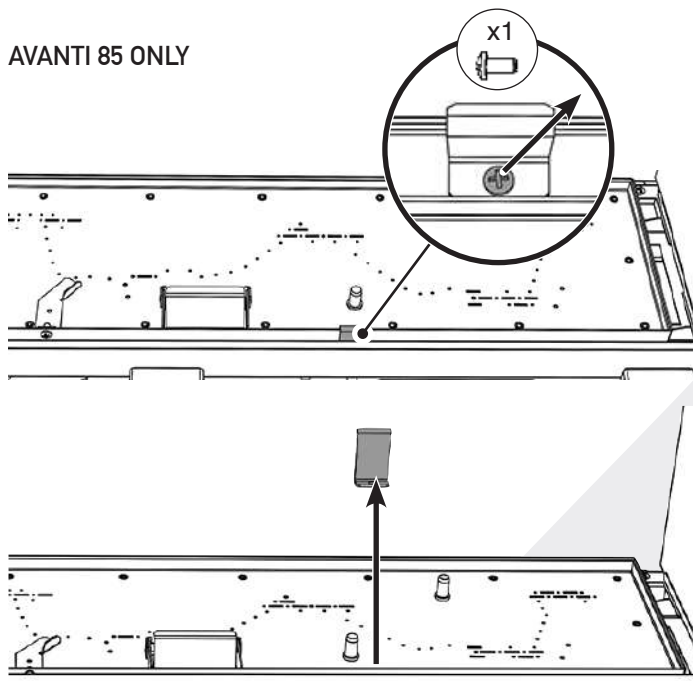


The Burner can now be removed.

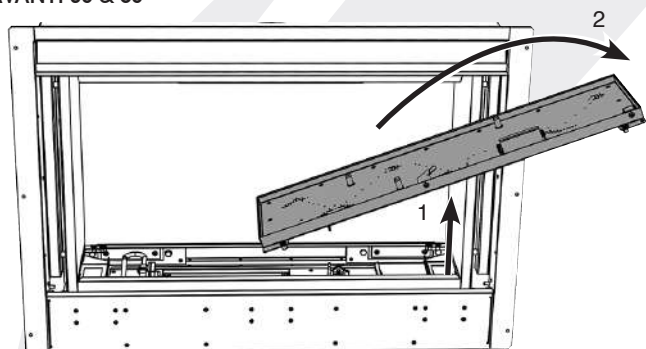
MAIN BURNER:



AVANTI 85 ONLY



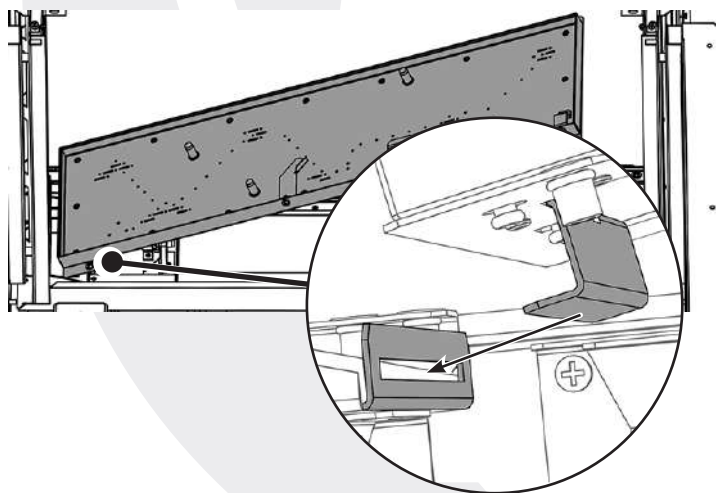
AVANTI 65 & 85



The burner unit can now be serviced.

Replace in reverse order.

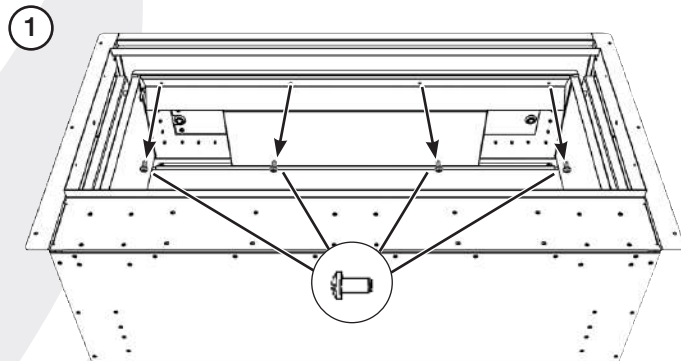
Ensure the tab under the left hand side of the burner fits into the bracket on the firebox.



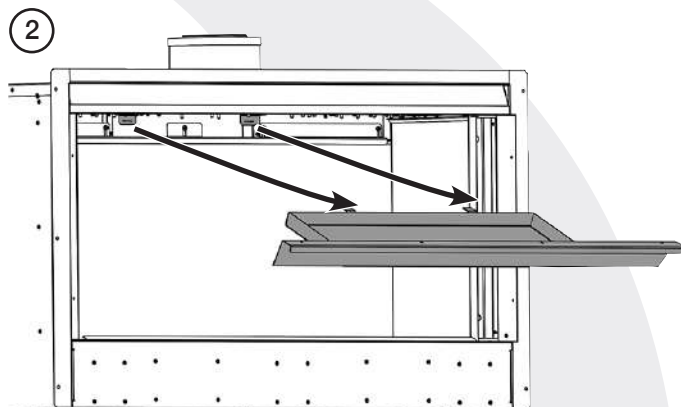
3. BAFFLE & LINERS

To access the lining set it is necessary to remove the baffle.

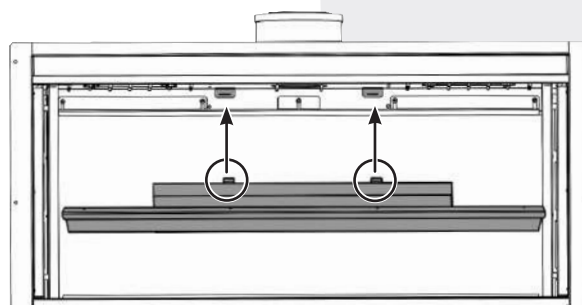
BAFFLE



The number of screws will vary depending on the model.



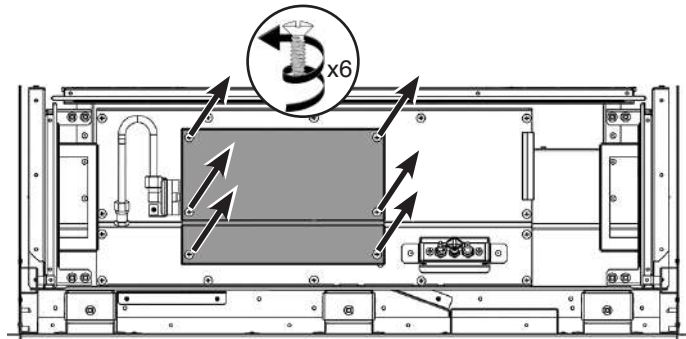
When replacing the baffle ensure that the tabs fit into the slots at the back of the appliance.



4. CONTROL ASSEMBLY

Note: The main burner must be removed to access the control assembly.

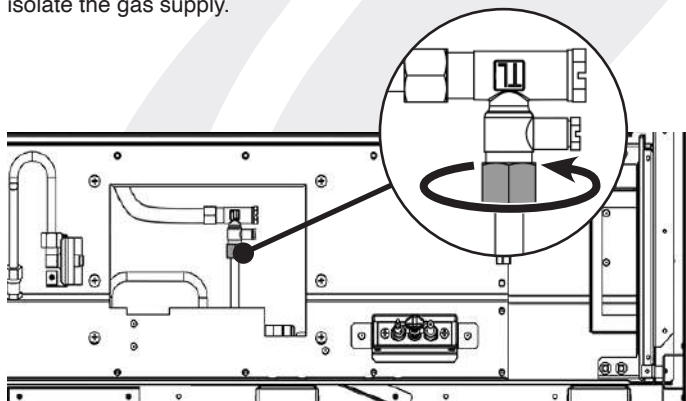
Remove the access hatch.



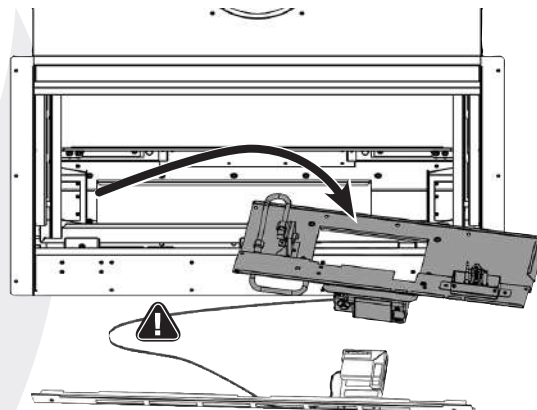
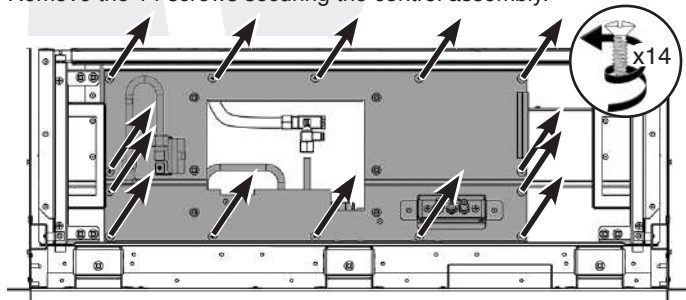
Turn the gas supply off at the isolation device.

HAVE YOU ISOLATED THE GAS SUPPLY?

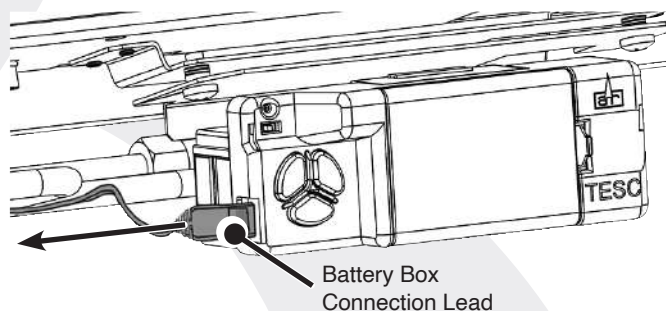
Disconnect the isolating device from the appliance inlet pipe to isolate the gas supply.



Remove the 14 screws securing the control assembly.



Disconnect the Battery Box lead from the Gas Valve:



Replace in reverse order.

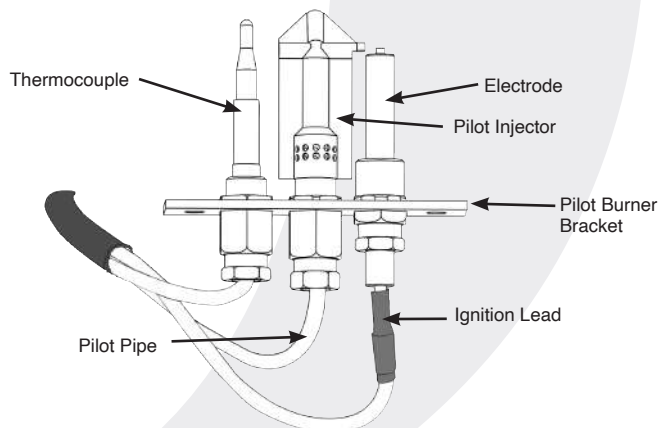
5. PILOT UNIT



IMPORTANT: UNDER THE TERMS OF THE EXTENDED WARRANTY IT WILL BE COMPULSORY TO CHANGE THE COMPLETE PILOT UNIT ON THIS APPLIANCE IN YEARS 2, 4, 6 AND 8.

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

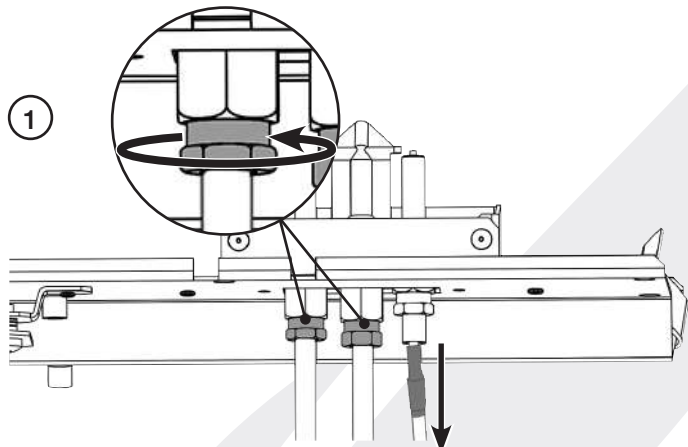
- Electrode
- Pilot Injector
- Thermocouple



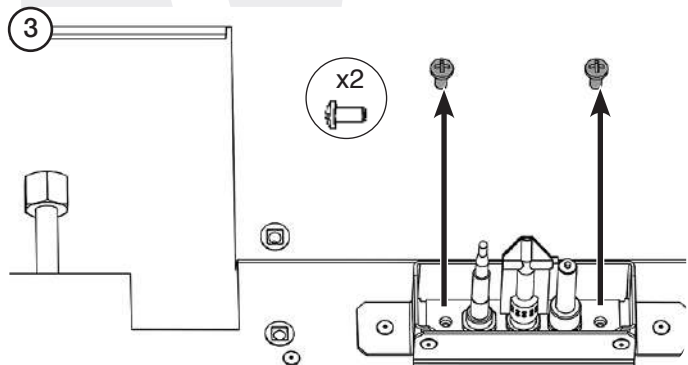
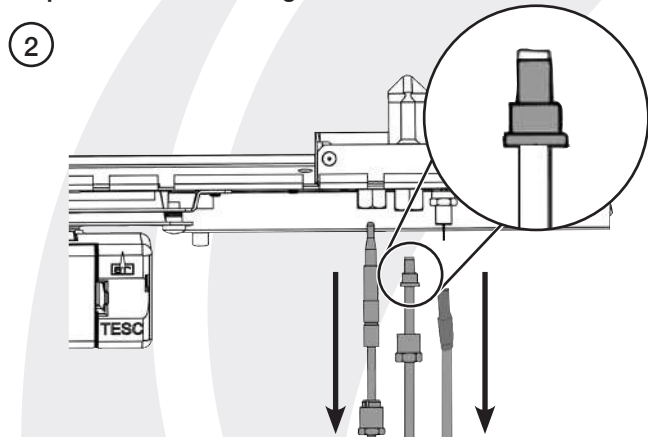
Note: The Control Assembly must be removed to access the Pilot Unit (follow Control Assembly section)

To remove the Pilot Unit:

- Disconnect the Ignition lead.
- Undo the Thermocouple nut and .
- Undo the Pilot injector nut.



IMPORTANT: Ensure the loose injector component is not misplaced whilst servicing.

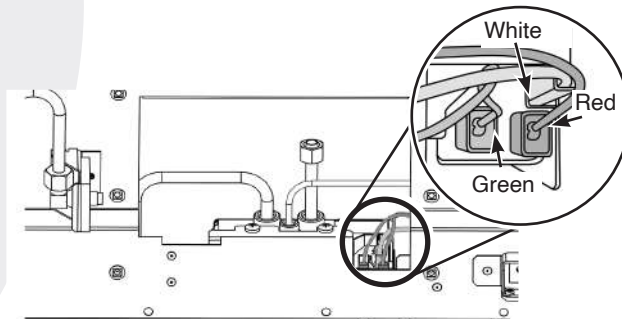


The pilot unit can now be removed and the pilot components can now be individually removed and replaced.

THERMOCOUPLE

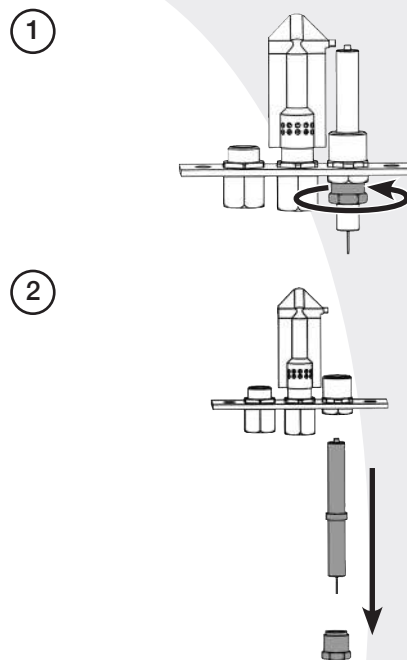
Unplug the red and green thermocouple connections (A) and the white ignition lead (B) from the gas valve.

NOTE: Ensure the correct orientation when replacing.



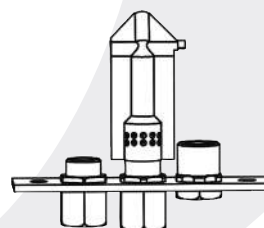
ELECTRODE

Undo the retaining nut.

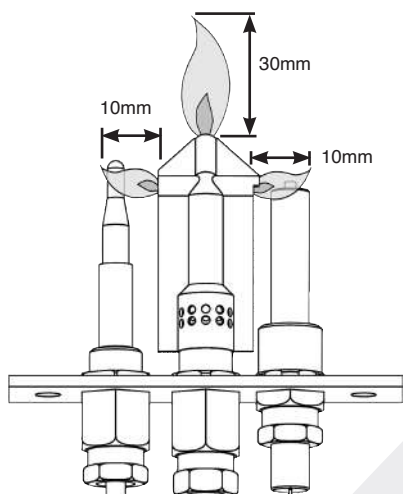


Replace with a new electrode. Do not over-tighten the nut; this could break the component.
Replace the ignition lead.

PILOT INJECTOR



Replace with a new pilot assembly and check the spark gap.



NOTE: Ensure the correct orientation when replacing.

After reassembly check for gas soundness and carry out a functional check.

6. GAS VALVE

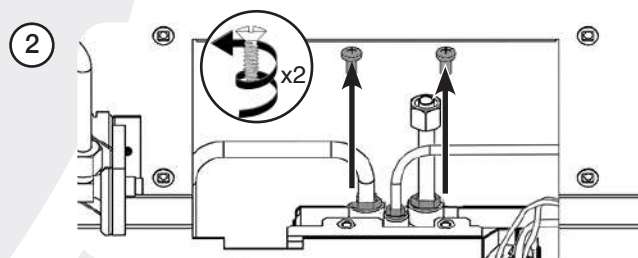
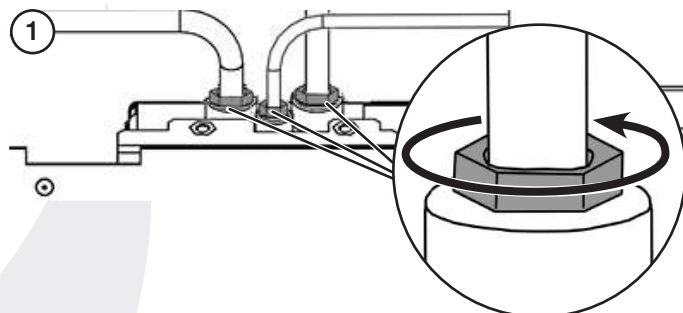
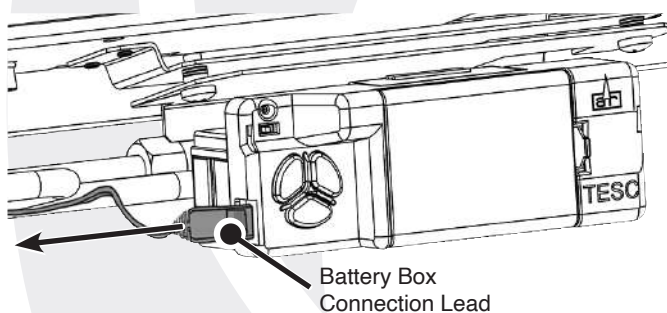


IMPORTANT: TURN OFF THE GAS SUPPLY AT THE ISOLATION DEVICE.

To change the gas valve:

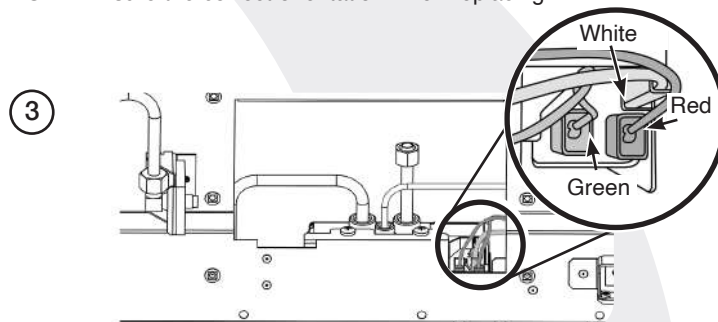
Remove the main burner and the main control assembly as described in Servicing, Replacing Parts.

Disconnect the Battery Box lead from the Gas Valve:



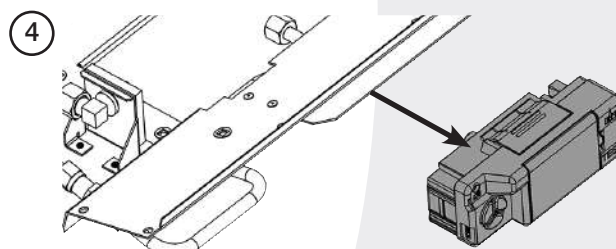
Unplug the red and green thermocouple connections (A) and the white ignition lead (B) from the gas valve.

NOTE: Ensure the correct orientation when replacing.



Unplug the red and green thermocouple connections (A) and the white ignition lead (B) from the gas valve.

NOTE: Ensure the correct orientation when replacing.



MAGNETIC SAFETY VALVE

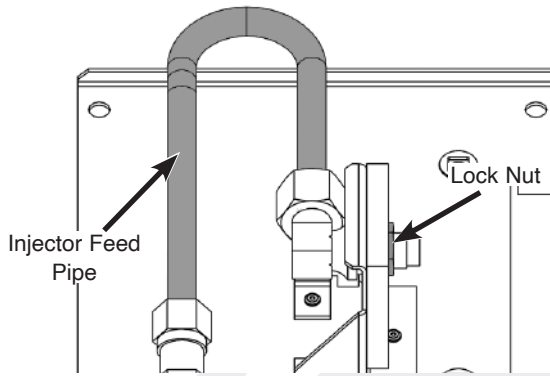
The Magnetic Safety Valve used on this appliance is a non serviceable part of the Control Valve and will require complete replacement.

7. MAIN INJECTOR

Remove the main burner and the main control assembly as described in Servicing, Replacing Parts.

Undo the injector feed pipe.

Undo the lock nut from the injector.



8. PRIMARY AERATION PLATE

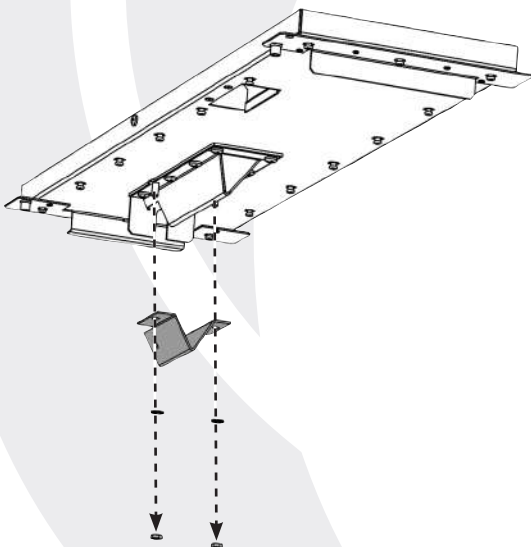


NOTE: Not all models have aeration plates. Please refer to the Technical Specification.



IMPORTANT: TURN OFF THE GAS SUPPLY AT THE ISOLATION DEVICE.

Remove the Main Burner as described in replacing Parts.



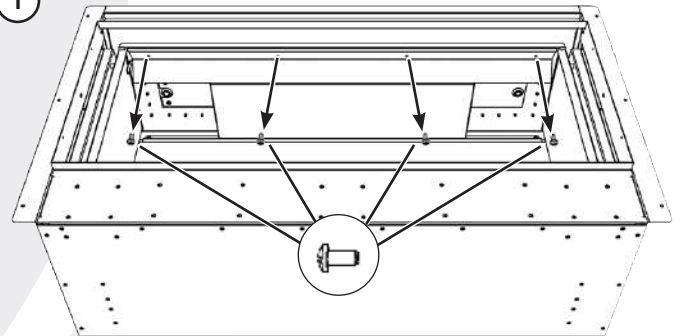
Replace with the correct size plate and secure the 2 nuts. Ensure that the lower edge of the plate is located over the venturi flange.

9. BAFFLE & LINERS

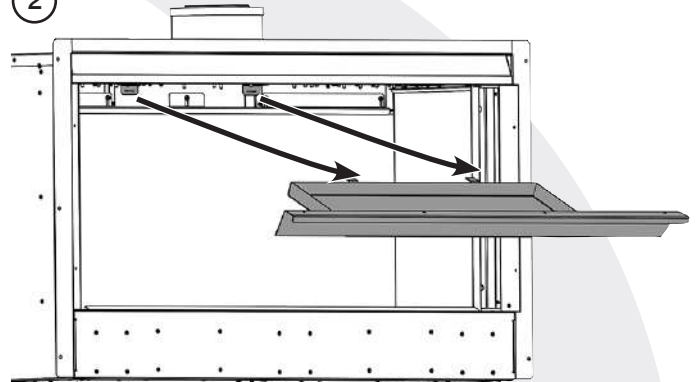
To access the lining set it is necessary to remove the baffle.

BAFFLE

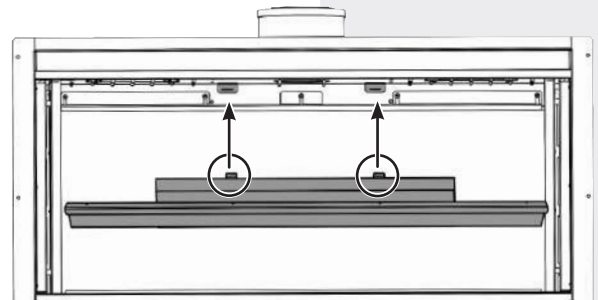
①



②



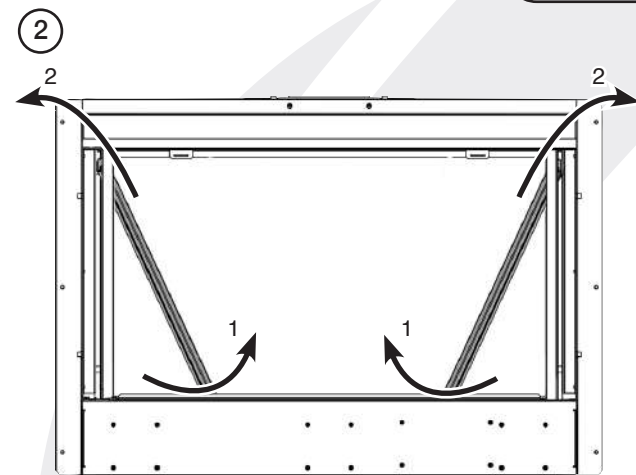
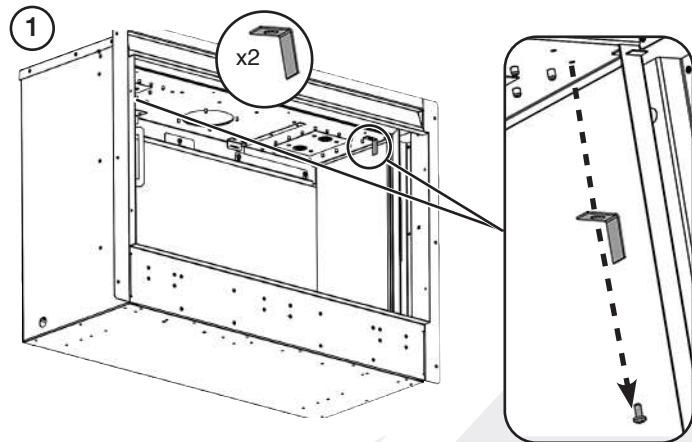
When replacing the baffle ensure that the tabs fit into the slots at the back of the appliance.



LINERS

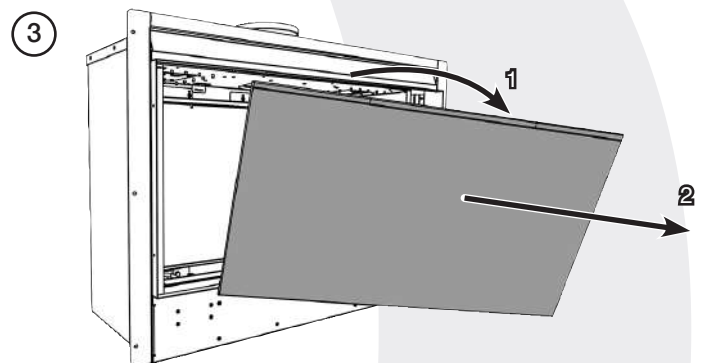
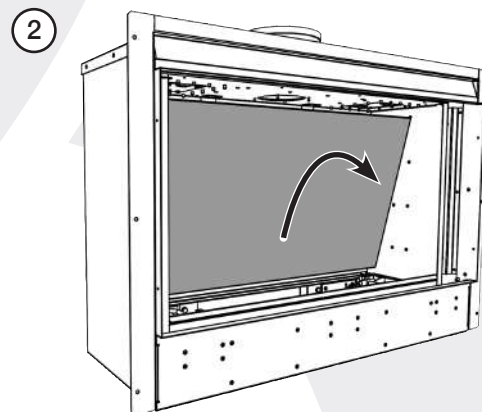
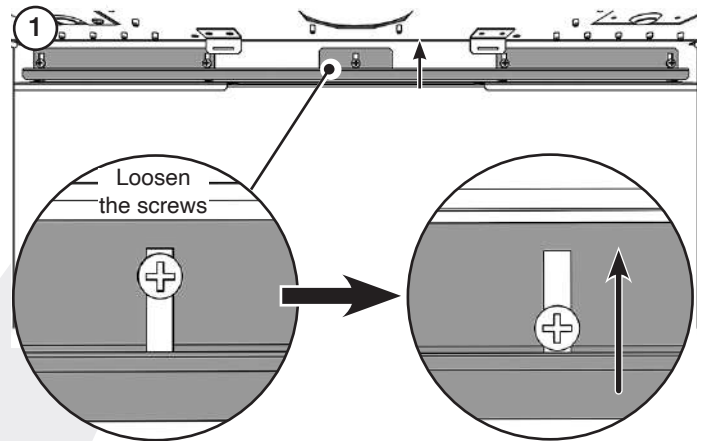
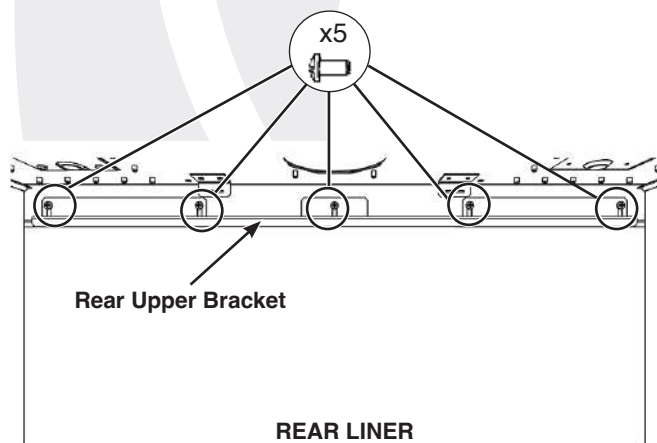
Side Liners:

Remove the two Side Liner Brackets.



REAR LINER

Loosen the screws holding the rear upper bracket.



INFORMATION REQUIREMENT FOR GASEOUS FUEL LOCAL SPACE HEATER

Model		Avanti 65 BF NG	Avanti 85 BF NG	Avanti 85 BF LPG
FUEL	Space Heating Emissions (NOx) - mg / kWh _{input} (GCV)	130	130	130

HEAT OUTPUT	Nominal Heat Output - P_{nom}	4.7	6.1	5.7
	Minimum Heat Output (indicative) - P_{min}	3.0	3.2	3.1

AUXILIARY ELECTRICITY CONSUMPTION	At Nominal Heat Output - $e_{l,max}$	N/A	N/A	N/A
	At Minimum Heat Output - $e_{l,min}$	N/A	N/A	N/A
	In Standby Mode - $e_{l,sb}$	N/A	N/A	N/A

USEFUL EFFICIENCY	Useful Efficiency at nominal heat output - $\eta_{th,nom}$	89.1	90.3	91.9
	Useful Efficiency at minimum heat output (indicative) - $\eta_{th,min}$	86.0	85.5	85.5

PILOT FLAME POWER REQUIREMENT	Permanent Pilot Flame Power requirement (if applicable) - P_{pilot}	N/A	N/A	N/A
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Type of heat output/room temperature control

Electronic room temperature control + day timer	Yes	Yes	Yes
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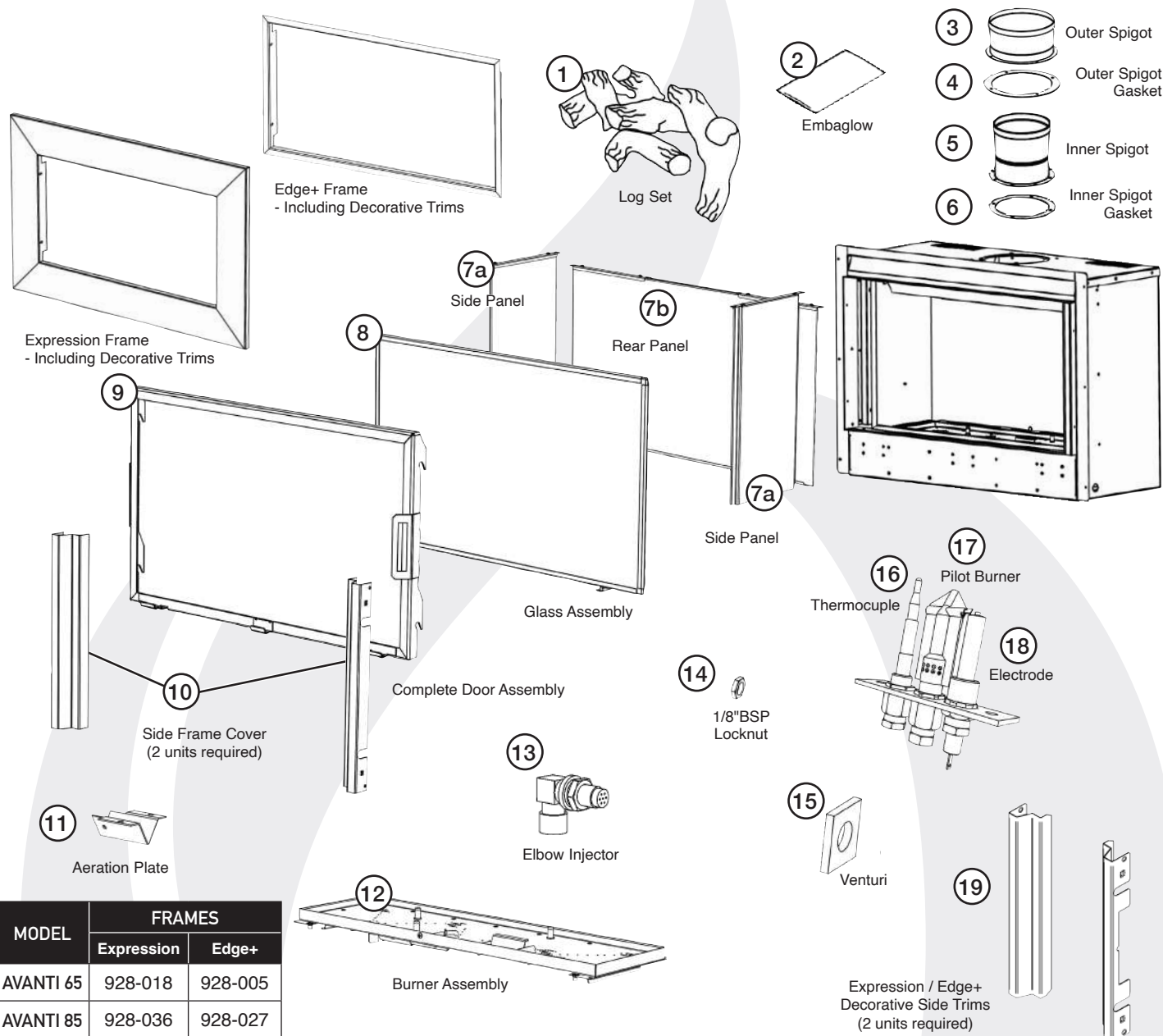
Other control options (multiple selections possible)

Room temperature control, with presence detection	No	No	No
Room temperature control, with open window detection	No	No	No
With distance control option	No	No	No
With adaptive start control	No	No	No
With working time limitation	No	No	No
With black bulb sensor	No	No	No

Energy Efficiency Index	86	86	88
Energy Efficiency Class	B	B	B

Contact:	Stovax Gazco Limited, Spitfire Avenue, Skypark, Clyst Honiton, Exeter, Devon, England EX5 2FR
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SPARE LIST - MAIN ASSEMBLY

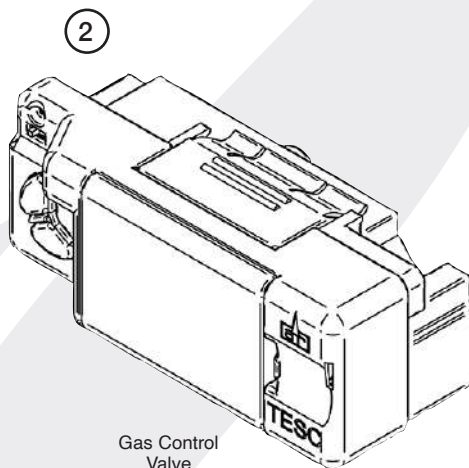
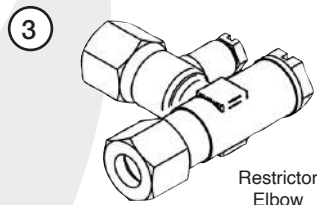
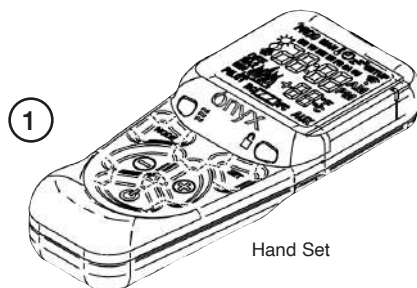


MODEL	FRAMES	
	Expression	Edge+
AVANTI 65	928-018	928-005
AVANTI 85	928-036	928-027

MODEL	1	2	3	4	5	6	7a	7b	8	9	10	11	
												Nat Gas	LPG
AVANTI 65	CE2113	GZ8471	MEC0232	CE0211	MEC0231	CE0210	GZ16739	GZ16740	CE2103	GZ16291	GZ16292	GZ10407	N/A
AVANTI 85	CE2114							GZ16741	CE2104	GZ16311		GZ10408	GZ10411

MODEL	12		13		14	15	16	17		18	19
	Nat Gas	LPG	Nat Gas	LPG				Nat Gas	LPG		
AVANTI 65	GZ17179	N/A	IN0007	N/A	FA0241	FA0171	PI0096	PI0069	N/A	PI0075	GZ16995
AVANTI 85	GZ17181	GZ17490	IN0046	IN0051					PI0070		

SPARE LIST - CONTROL ASSEMBLY



No.	PRODUCT CODE
1	EL0898
2	GC0182K
3	GC0095



Due to continual technical improvements please check online or with your Onyx retailer for the most up to date parts lists.

Only use Genuine Onyx spares when servicing your appliance.

All of our essential spare parts and consumable items are available to purchase from our webshop at www.onyxspares.com.

PRODUCT MATERIAL INFORMATION

The following substances, preparations or components should be disposed of or recovered separately from other WEEE in compliance with Article 4 of EU Council Directive 75/442/EEC.

Metal	Steel	Can be taken to a local recycling centre for reuse to reduce waste going to landfill.
	Cast iron	
Glass		Can be taken to a local recycling centre for reuse to reduce waste going to landfill.
Rope seals/ Coal Fuel Effects/ Brick Effect, Ledgestone and Black Reed Liners		If the product contains any of the following: Rope seals, Coal Fuel Effects, Black Reed Brick Effect or Ledgestone Linings panels these items are 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 it is recommended to follow normal hygiene rules of not smoking, eating or drinking in the work area and always wash hands before eating or drinking. 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.
Log Fuel Effects		Log Fuel effects are not considered hazardous to health, but are non-recyclable and must be disposed of in accordance to the rules in force.
Electrical components	(Fan kits etc if applicable)	Dispose of at a local recycling centre in accordance with the WEEE directive.



FOR ENQUIRIES IN THE U.K (EXCLUDING NI):

**Stovax Gazco Limited, Spitfire Avenue, Skypark, Clyst Honiton, Exeter, Devon,
England EX5 2FR**

Tel: (01392) 474011 E-mail: info@onyxfires.com

FOR ENQUIRIES IN EUROPE (INCLUDING NI):

Stovax Heating Group (NI) Ltd (Comp reg NI675194), 40 Linenhall Street, Belfast, BT2

8BA DX 400 NR Belfast Tel: +44 (0)1392 261990 E-mail: northernireland@onyxfires.com





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