



STUDIO air



Instructions for Installation & Servicing

For use in NZ (New Zealand)

IMPORTANT

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

CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.

Keep them in a safe place for future reference and when servicing the fire.

All installations must be carried out by an S.F.A.I.T (Solid Fuel Authorised Technician).

In New Zealand, the Studio must be bolted to the base to comply with the seismic restraint provisions of AS/NZ 2918:2001

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Studio 2 Air (NZ) - Freestanding Stove

Covering the following models:

STUDIO 2 AIR	726-181
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DESIGN PROTECTION

The Studio design, including its frames and accessories, are protected by European Design Registration No. 001169338 0002 0008.

WARRANTY

For purchases outside of the United Kingdom, Republic of Ireland, France, Belgium and the Netherlands, please consult your Stovax retailer for the warranty available in your region. The Fireplace www.thefireplace.co.nz

APPLIANCE COMMISSIONING CHECKLIST

This checklist **MUST** be filled out completely and signed in order to qualify for the full Dealer Warranty. Failing to complete this commissioning checklist will mean the warranty will only be valid for 12 months from the date of purchase.

Dealer appliance was purchased from:

Name: _____

Address: _____

Telephone number: _____

Essential information - MUST be completed:

Date Installed: _____

Model Description: _____

Serial Number: _____

Installation Technician:

Company Name: _____ AHHA/SFAIT License No _____

Address: _____

Telephone number: _____

Commissioning Checks - to be completed and signed:

Is flue system correct for the appliance:	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Flue swept and soundness test complete*:	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Smoke test completed on installed appliance	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Spillage test completed	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Use of appliance and operation of controls explained	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Clearance to combustible materials checked**	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Instruction book handed to customer	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Smoke Alarm Fitted (Mandatory)	YES <input type="checkbox"/>	NO <input type="checkbox"/>
CO Alarm Fitted (Recommended)	YES <input type="checkbox"/>	NO <input type="checkbox"/>

*If using an existing flue system - not applicable for a new flue assembly

** Record with photographs if possible.

Signature: Print Name:

INSTALLATION CHECKLIST

PLEASE NOTE: This section is intended to give an overview of the product performance and essential information required for installing the appliance.

It is intended for qualified engineers who are already familiar with Stovax products.

For full details and expanded information please see the Technical Appendix at the back of this manual.

ESSENTIAL INFORMATION

GENERAL	Model:			
	STUDIO AIR 2 FREESTANDING STOVE			
	Nominal Heat Output	Wood	kW	8.2
	Efficiency	Wood	%	78.5
	CO @ 13% O ₂	Wood	%	0.08
	Weight		Kg	165
Recommended Fuels	Wood	Seasoned Wood (less than 20% moisture content)		

As tested to the requirements of EN 13229 for intermittent operation

FLUES	Flue/Chimney Size	With Liner of Factory made system (diameter) <small>installed in accordance with manufacturers instructions</small>	mm	150
			inch	6
	Flue/Chimney minimum height	All products	m	4.5
			feet	15
	Flue Draught	Min	Pa	10
		Nominal		12
		Max		20
	Flue Gas Mass Flow	Wood	g/s	6.5
Average Flue Gas Temperature	Wood	°C	304	
Flue Outlet Size (Top Option)		mm	153	
		inch	6	

VENTILATION	Room Air Replacement - SUGGESTED MINIMUM (vents x 2) - See page 31	mm	175 x 175

For full technical details on ventilation see Technical Appendix

i *When measured from the top of the appliance to the top of the flue, with no horizontal sections and a maximum of 4 bends with angles of less than 45°. Bends should be installed as high as possible in the flue run and only after the first flue run of 1.2M.

**** DO NOT PLACE ANY OFFSET BENDS DIRECTLY INTO THE FLUE SPIGOT ON THE FIREBOX UNLESS THE DEFLECTION OFF THE VERTICAL IS 10 DEGREES OR LESS. NO BENDS OFF THE TOP OF THE APPLIANCE.**

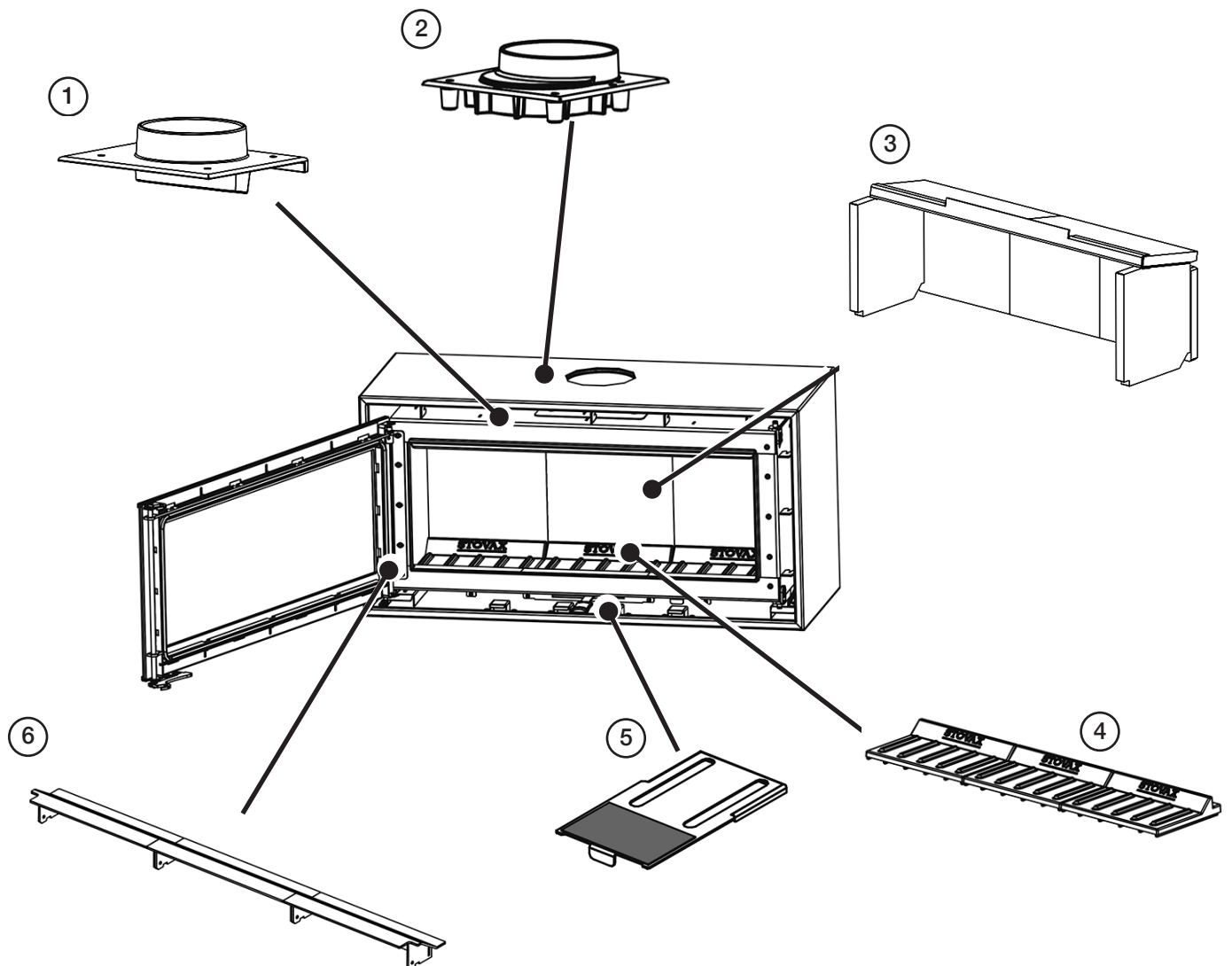
GENERAL POINTS

Each installation is unique to the property so it is not possible to give details to suit every setting. The installation must comply with Building Regulations and be made using "best practice" construction methods.

Stovax Studio appliances can reach high temperatures so it is important to maintain the clearance to heat sensitive materials.

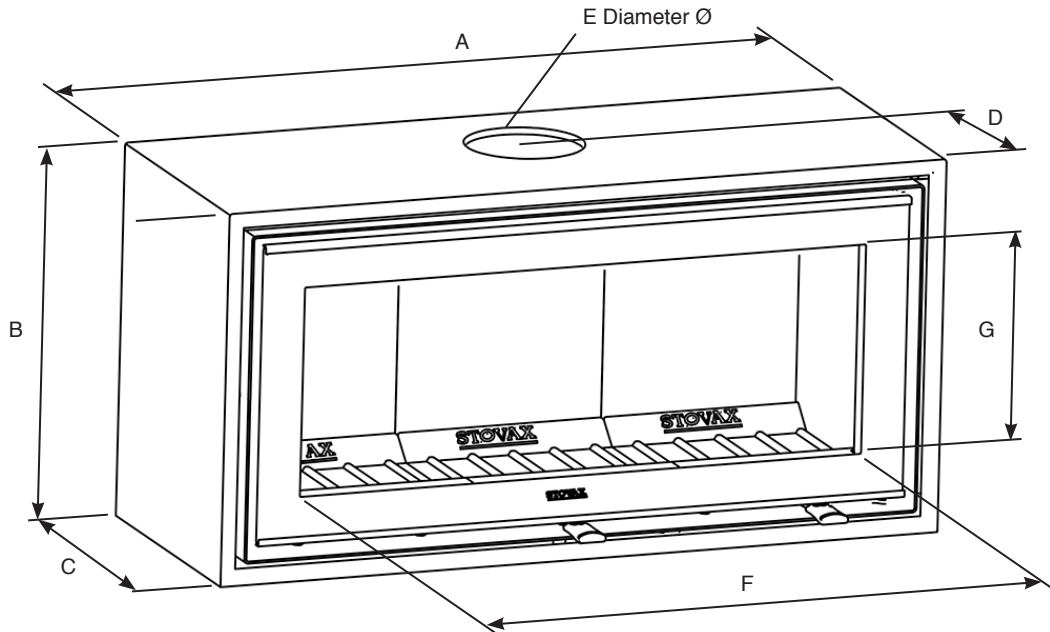
Take care when installing the appliance. Careless handling and use of tools can damage the finish and/or area.

PARTS IDENTIFIER



1. Inner Flue Collar
2. Top Flue Collar
3. Brick Liners and Baffle Set
4. Base Bricks
5. Dataplate
6. Log Guard

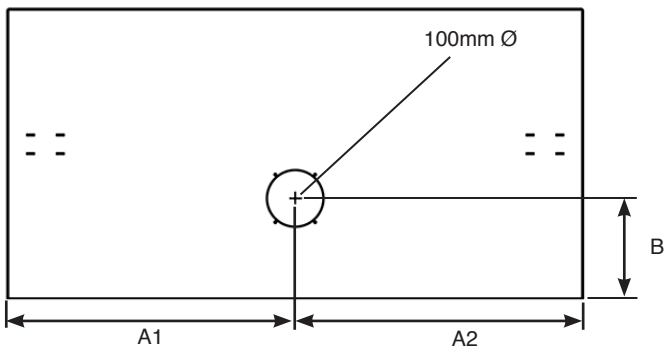
DIMENSIONS



DIMENSION	A	B	C	D	E	F	G
STUDIO 2 AIR	1009	506	382	234	152	790	284

All dimensions in mm. (25.4 mm = 1")

EXTERNAL AIR

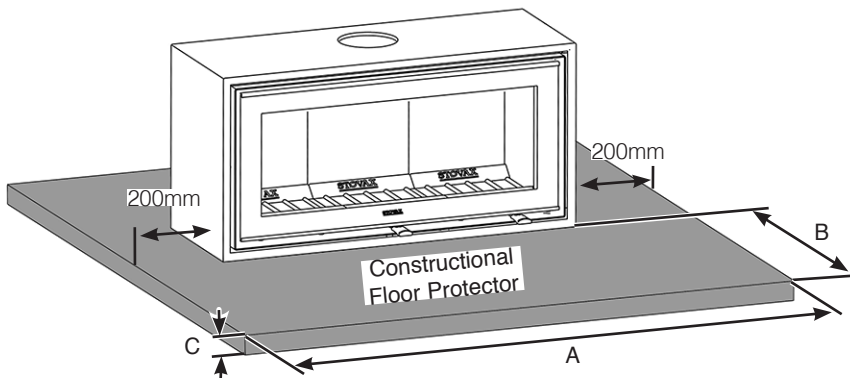


EXTERNAL AIR (mm)	A1	A2	B
STUDIO 2 AIR	504.5	504.5	174.5



NOTE: EXTERNAL AIR KIT (326-0802) IS REQUIRED IF USING DIRECT EXTERNAL AIR.

MINIMUM DIMENSIONS - FLOOR PROTECTOR



STUDIO 2 AIR DIMENSIONS (mm)	A	B	C
Appliance 350mm MIN from the floor	1409	670	20
Appliance less than 350mm from the floor		700	40

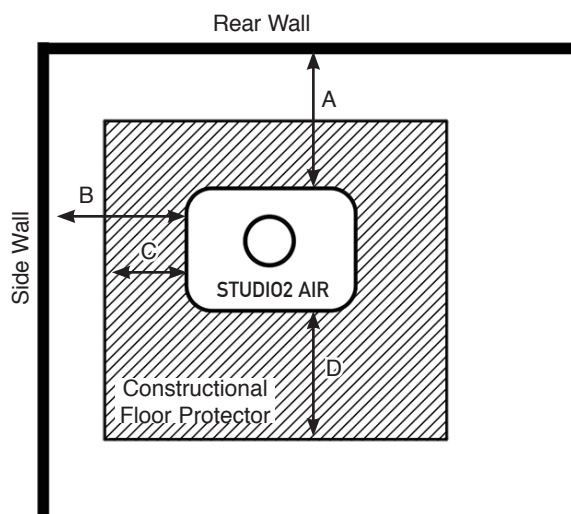
CLEARANCES TO COMBUSTIBLE MATERIAL



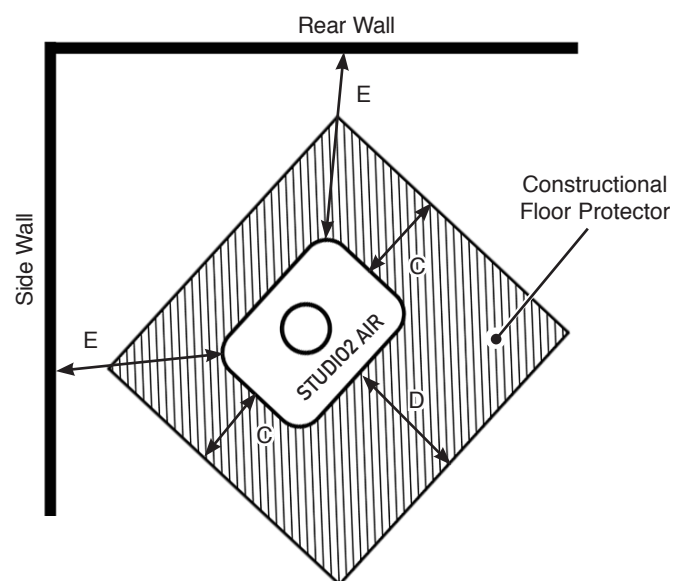
IMPORTANT: INSTALLATION MUST COMPLY WITH THE REQUIREMENTS AS/NZS2918 (LATEST EDITION) ENSURE THAT SUFFICIENT CLEARANCES ARE PROVIDED BETWEEN THE FLUE PIPE AND ANY HEAT SENSITIVE MATERIALS IN THE FIREPLACE IN ACCORDANCE WITH THE RULES IN FORCE.

When installing a Studio stove it is important to observe the following clearances to both heat sensitive and heat resistant materials. Also ensure that a clearance of 1 meter is maintained in front of the appliance when operating. The appliance must be installed a minimum distance from any surrounding walls to meet the requirements of AS/NZS 2918 (LATEST EDITION).

PARALLEL POSITION CLEARANCES

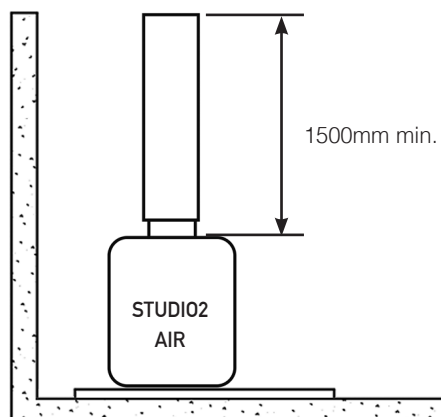


CORNER POSITION CLEARANCES



	A	B	C	D	E
CLEARANCE (mm)	220	430	200	670	100

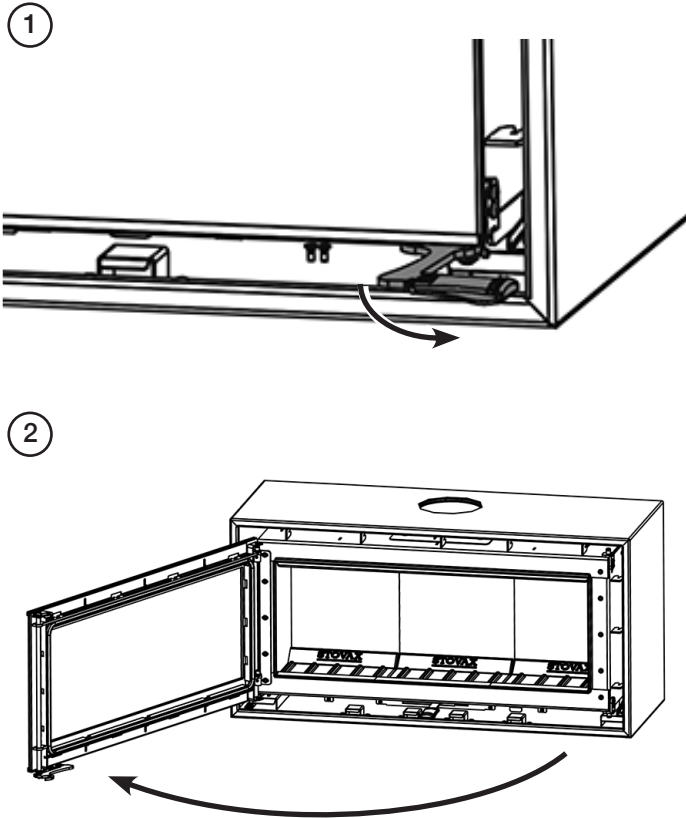
HEIGHT ABOVE APPLIANCE



PRE-INSTALLATION

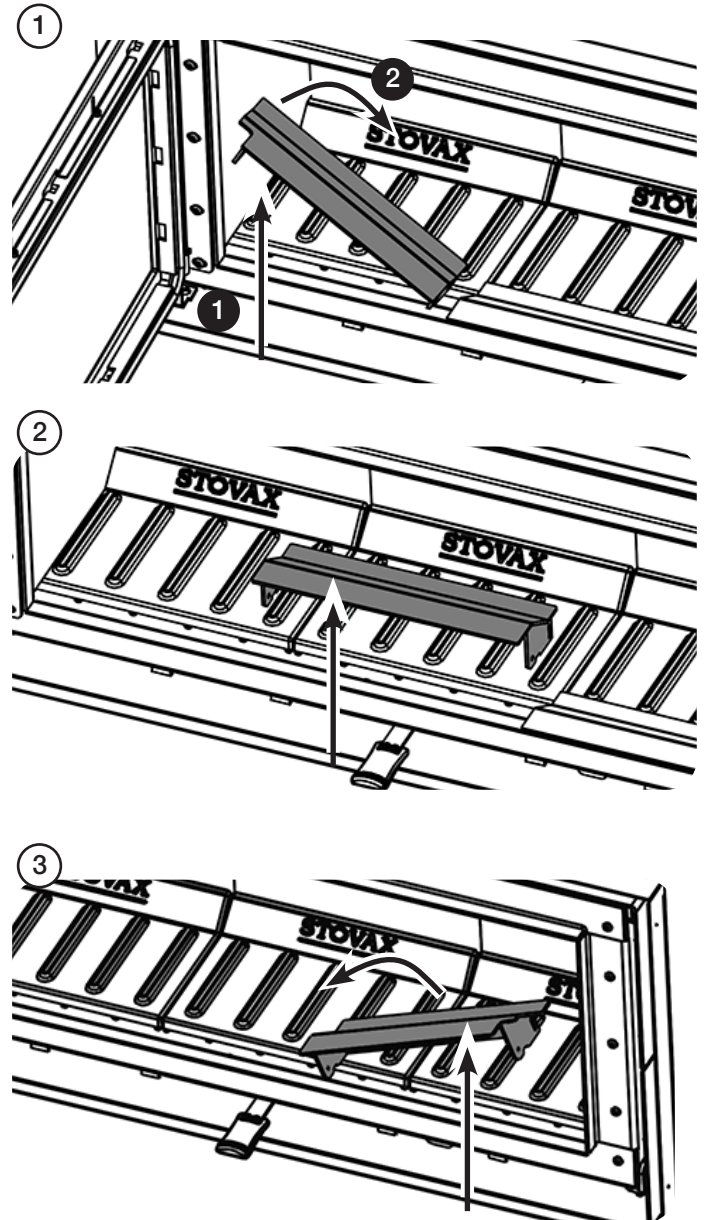
To make the installation of the appliance easier it is best to remove the internal components before fitting into the builders opening/studwork.

DOOR



LOG GUARDS

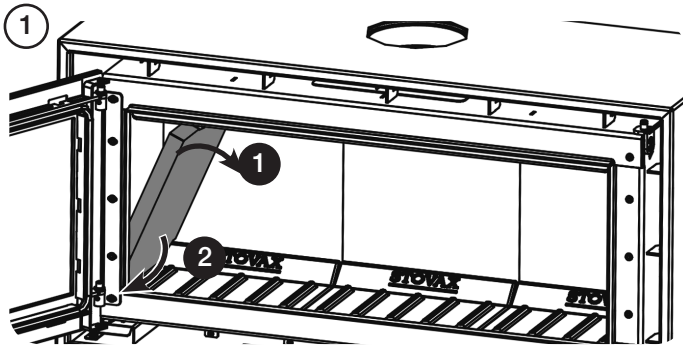
Do not use appliance without the log guards in position.



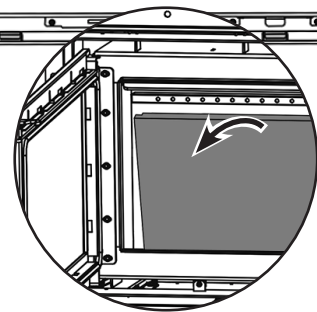
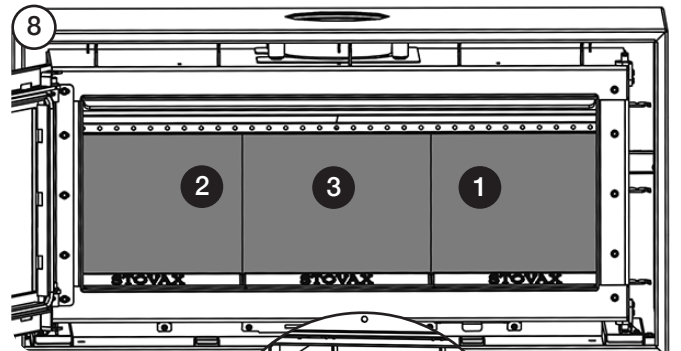
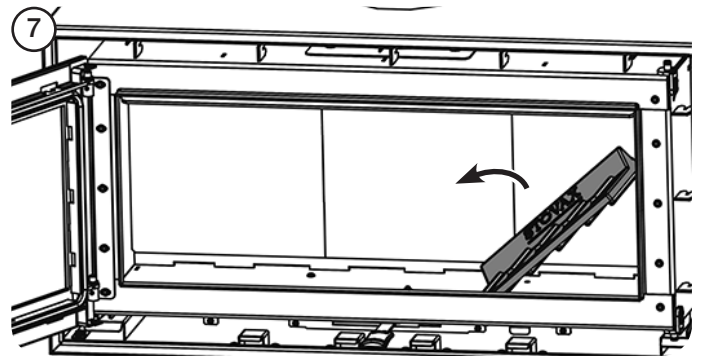
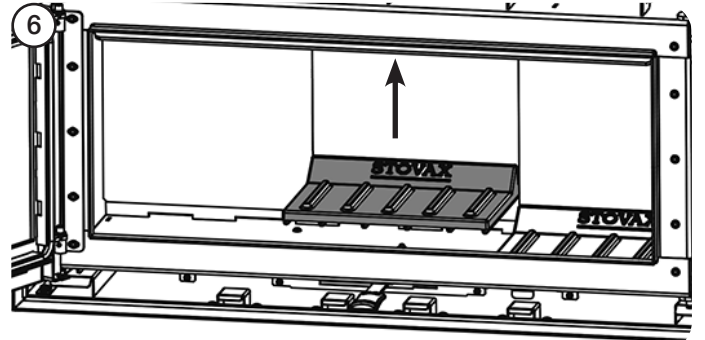
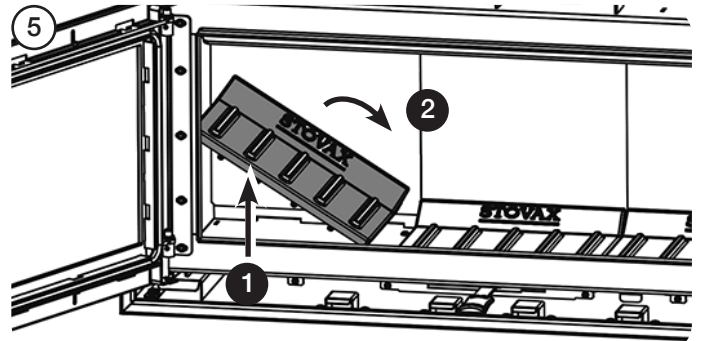
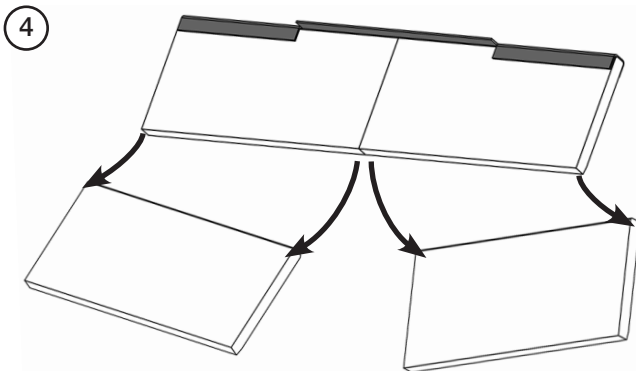
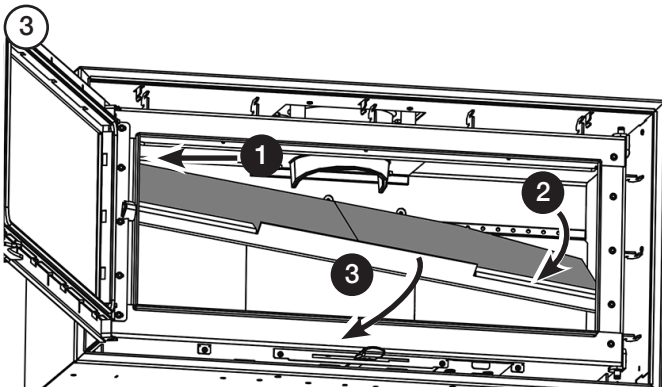
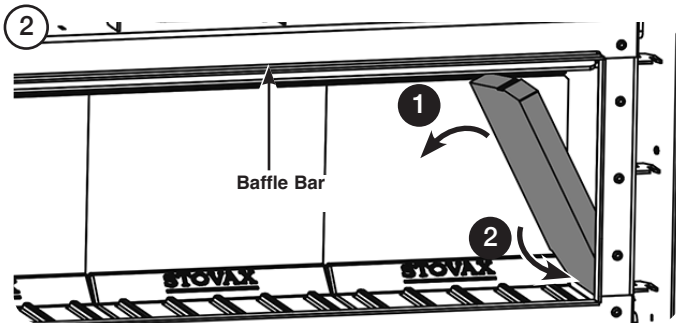
The left and right log guards are handed. The cutouts must be positioned to the side of the firebox facing forward.



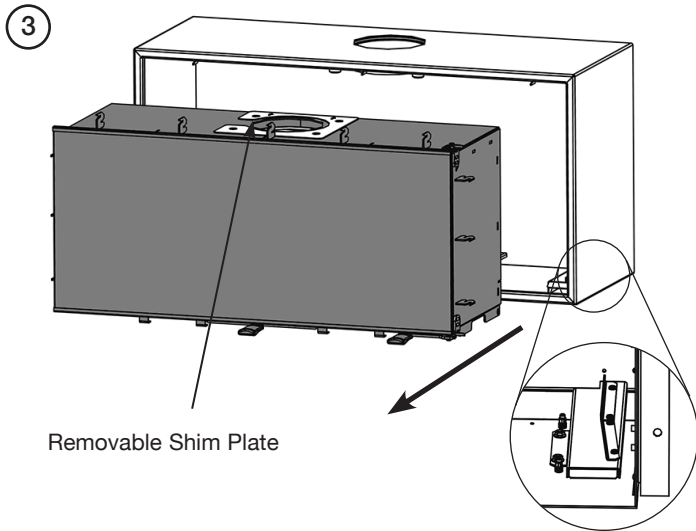
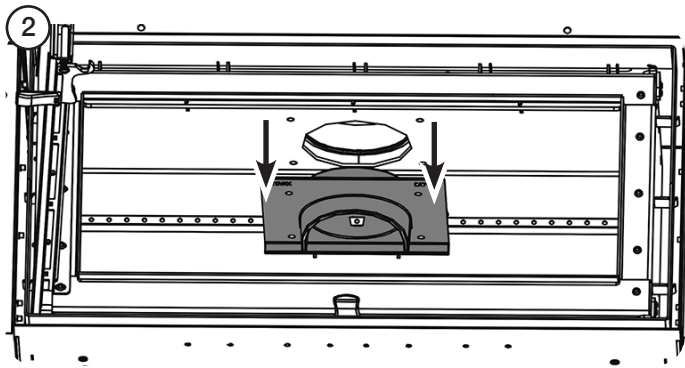
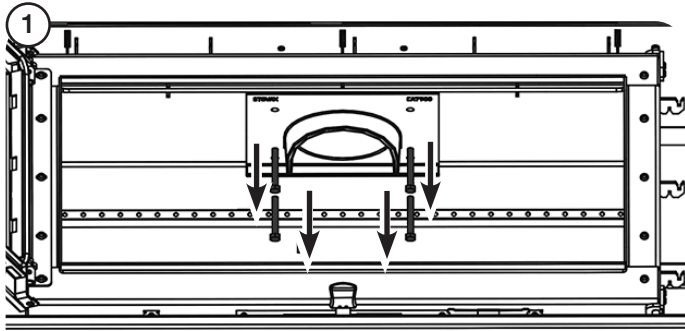
FIREBRICKS & BAFFLE



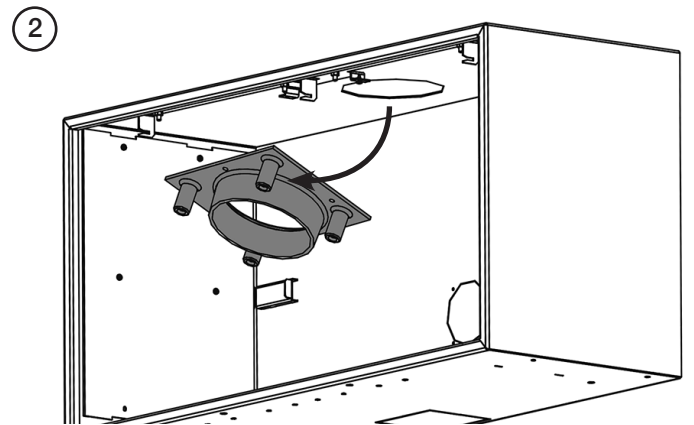
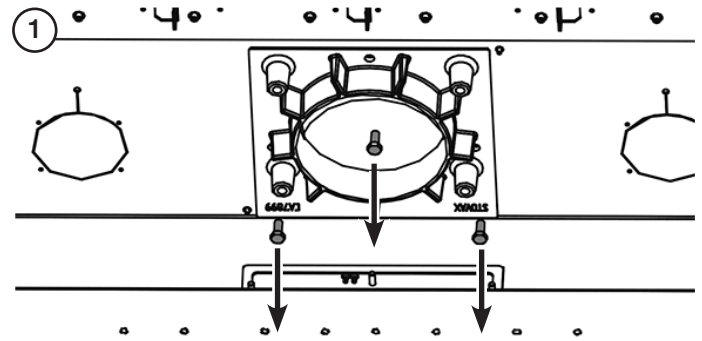
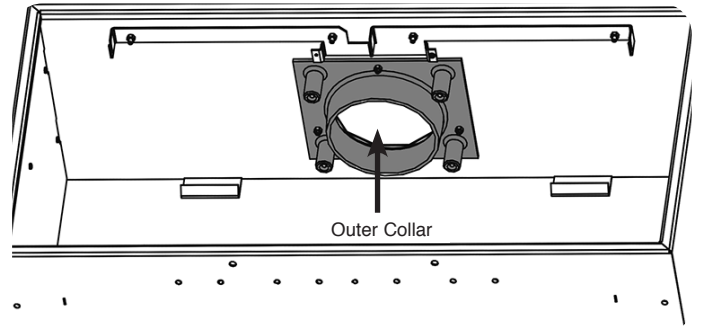
Support Baffle Bar



INNER COLLAR



REMOVAL OF OUTER COLLAR



The bolts locate in a bracket in top of the outer box. This remains in place when installing the flue system.

INSTALLING THE APPLIANCE

INSTALLING THE APPLIANCE

Each installation is unique to the property so it is not possible to give details to suit every setting. The installation must comply with Building Regulations and be made using "best practice" construction methods.

Many fireplace openings have a supporting lintel. Do not remove without supporting the remaining structure of the building. **Do not support the structure with the appliance or the flue system.**

Take care when installing the appliance. Careless handling and use of tools can damage the finish and/or area.

THIS APPLIANCE MUST BE SECURELY BOLTED IN POSITION TO SUPPORT THE DOOR WHEN IT IS OPENED.



NOTE: If installing with a Dedicated External Air Kit, please consult manual PM1690 prior to installation.

OPTIONAL EXTRAS

The following optional extras can improve the performance of the appliance and need to be fitted at the time of installation.

DECORATIVE FLUE COVER

This appliance can be fitted with an optional decorative flue cover. For installation procedures please refer to the instructions supplied with the kit.

DEDICATED EXTERNAL AIR KIT

This appliance can be fitted with an optional kit (326-802) to help bring air directly into the appliance from outside. For installation and operating procedures, refer to the instructions supplied with the Outside Air kit.

BENCH

This appliance can be mounted on Stovax Bench. For installation refer to the instructions supplied with the Bench.

INSTALLATION

Take care when installing the appliance. Careless handling and use of tools can damage the finish and/or area.

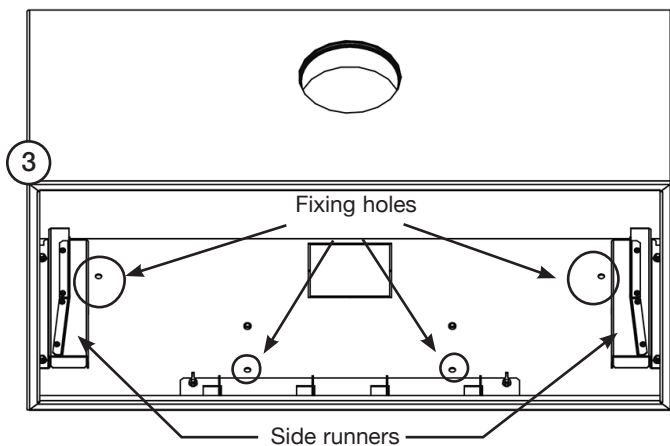
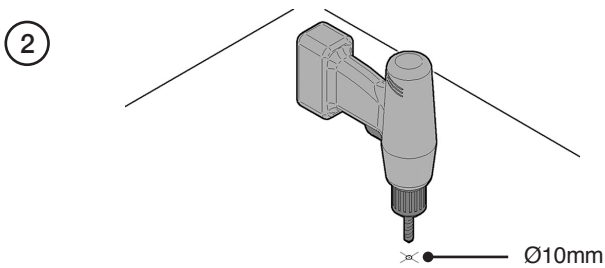
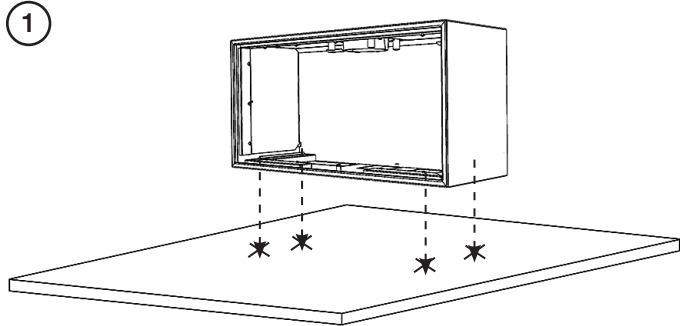
WARNING: THE APPLIANCE AND FLUE-SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.

CAUTION: MIXING OF APPLIANCE OR FLUE-SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.

CAUTION: CRACKED AND BROKEN COMPONENTS MAY RENDER THE INSTALLATION UNSAFE.

BOLTING THE APPLIANCE TO THE HEARTH

THIS APPLIANCE MUST BE SECURELY BOLTED IN POSITION TO SUPPORT THE DOOR WHEN IT IS OPENED.

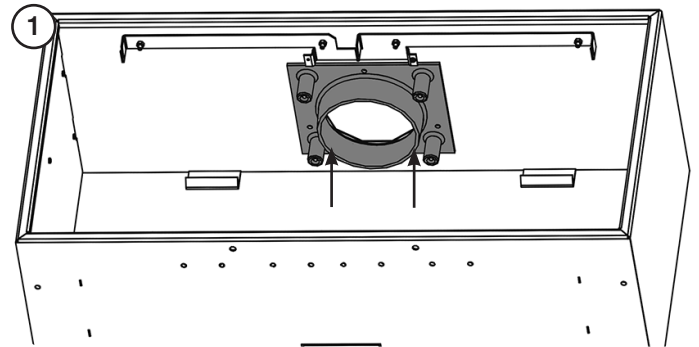


The outer box can only be refitted with the Air Slider in the central position.

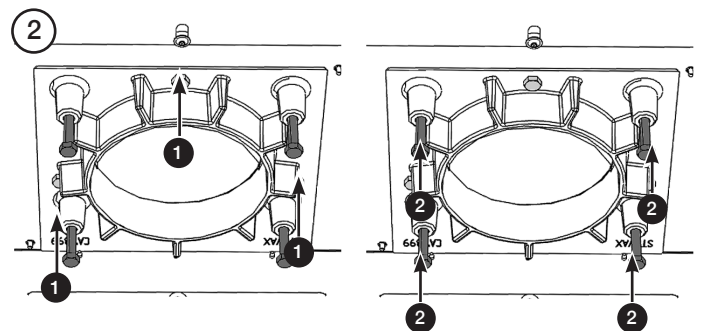


The fixing must comply with AS/NZS 2918:2001 section 3.8 for seismic restraint. Earthquake restraints may be positioned by attaching the supplied brackets with D4/5 rivets. Anchor to the hearth using a central M6 bolt.

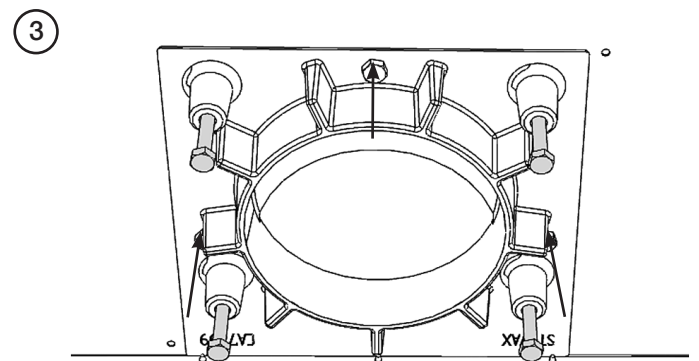
REFITTING THE FLUE COLLARS



Loosely fit short bolts (1) then fit longer bolts (2).



Tighten short bolts.

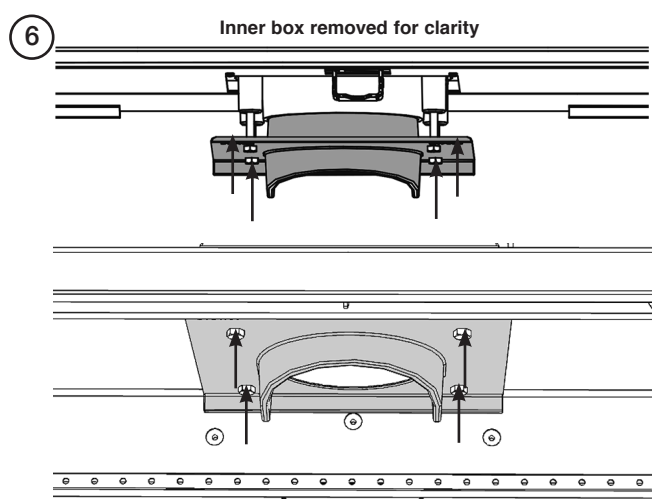
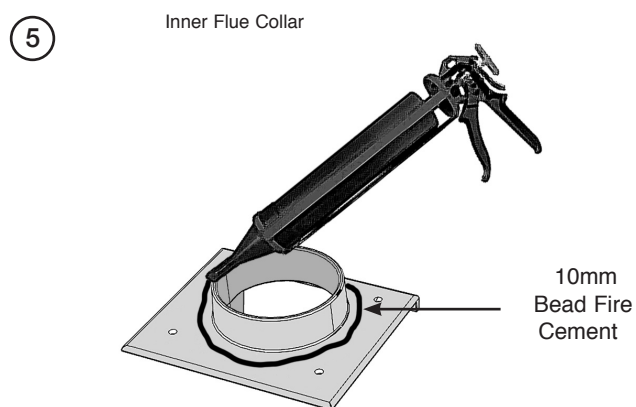
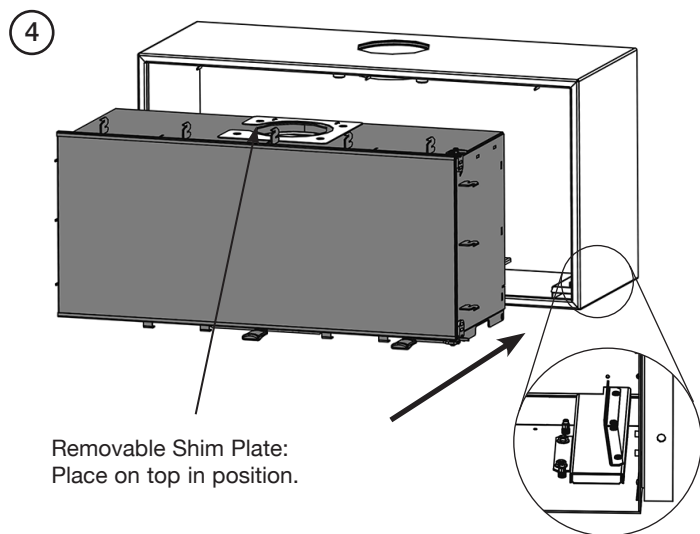


Remove longer bolts.

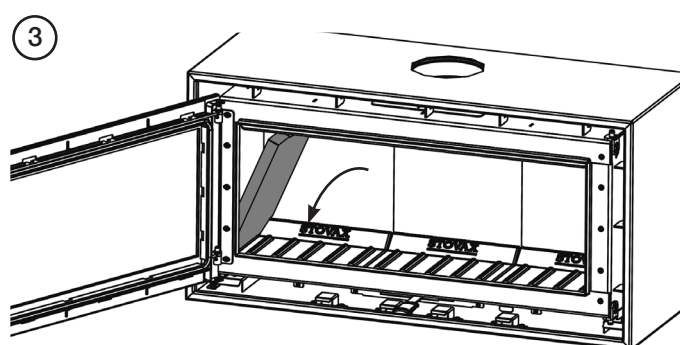
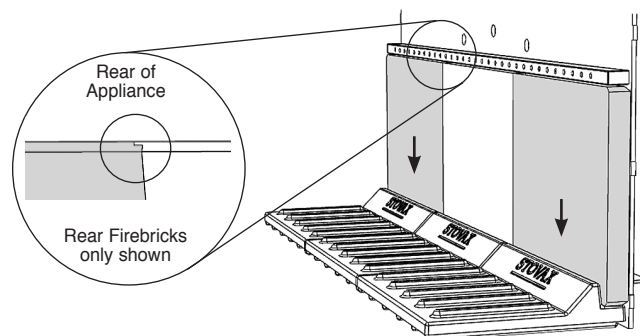
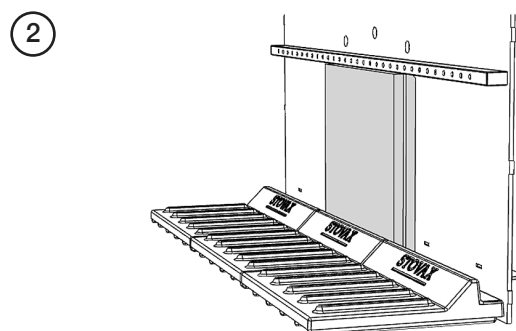
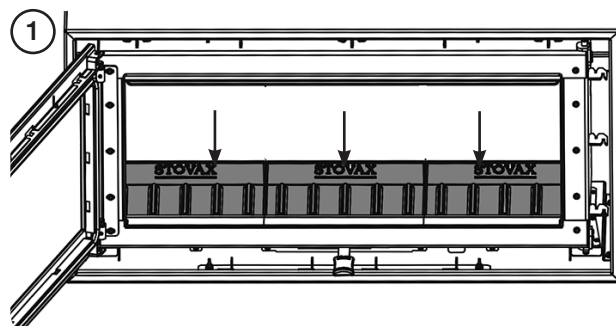
NOTE: This will require 2 people.

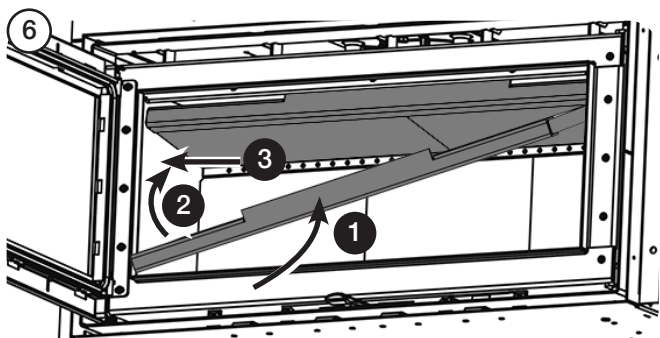
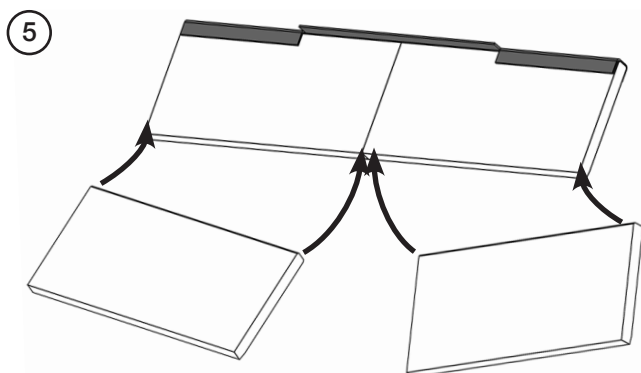
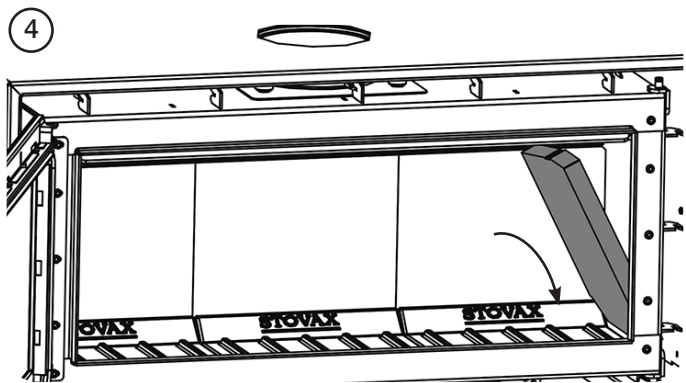
Slide the inner box into the outer box.

There is a roller assembly at the rear of the inner box which locates in cutouts in the base of the outer box.

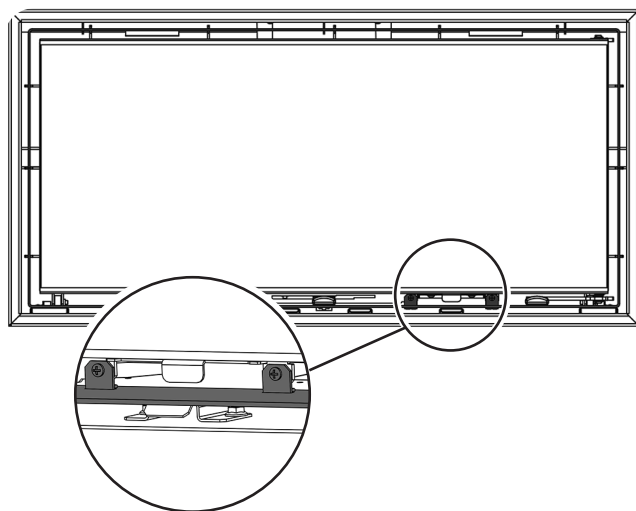
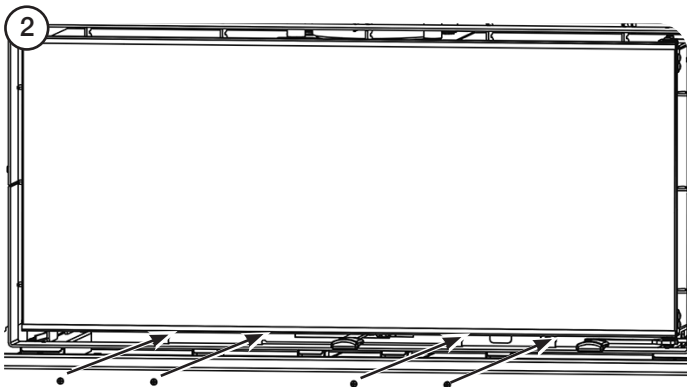
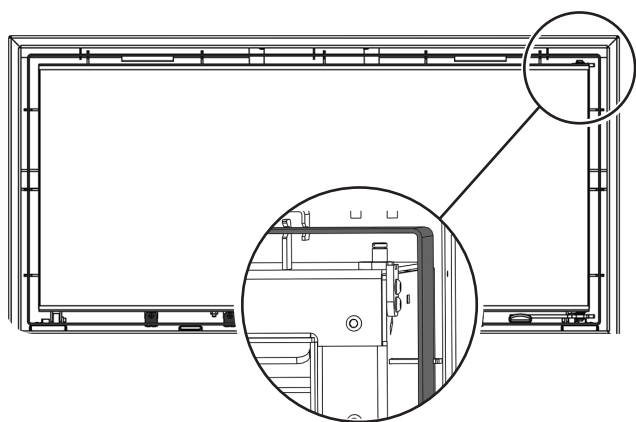
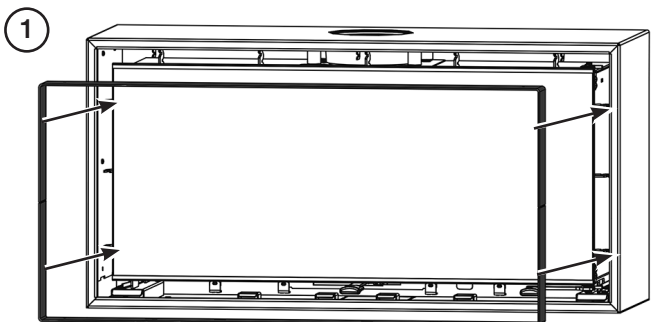


REFITTING FIREBRICKS





FITTING THE INNER DECORATIVE FRAME

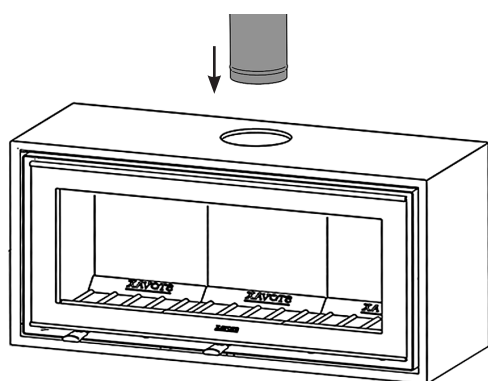


FLUE SYSTEM INSTALLATION

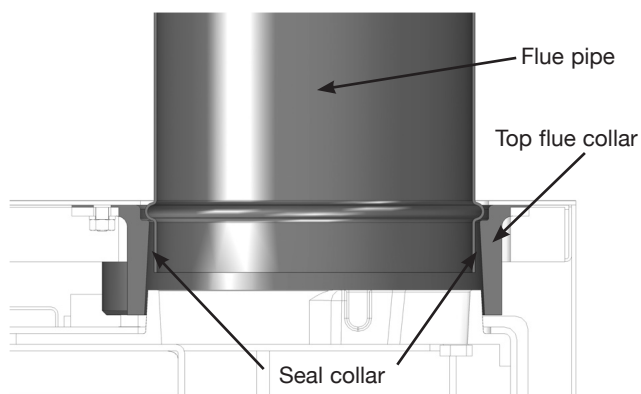
Connect appliance to chimney using flue pipe:

- i**
- 1) Install first length of flue pipe crimped end down, inside gather collar.
 - 2) Rivet flue pipe in 3 places around gather collar. Use Monel or SS rivets only.
 - 3) Place bottom flue spider bracket around gather flue pipe collar, secure in position by tightening up coach bolt/screw (supplied).
 - 4) Install second length of the flue pipe crimped end down and fix by riveting in at least 3 places around the flue pipe joint.
 - 5) Install first length of the flue pipe casing by positioning on installed bottom flue spider bracket crimped end up.
 - 6) Position flue spacer at the flue pipe joint.
 - 7) Repeat steps 1 - 4 to the required flue height.

Seal the connecting joints.



The flue must be installed in accordance with the manufacturers instructions.



From the top of the appliance, place a generous amount of fire cement inside the top flue collar.

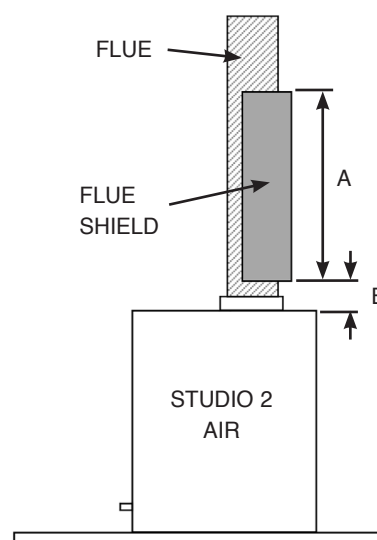
Insert the first length of the flue pipe into the flue collar so that the bulge is inside the flue collar and resting on the ledge.

Note: The Top Flue Connection should meet the requirements of AS/NZS2918:2001 Section 4 with a flue shield fitted in accordance with section 4.5.2.

FLUE SHIELD INSTALLATION

Refer to the Pioneer heat shield installation instructions and attach to the flue.

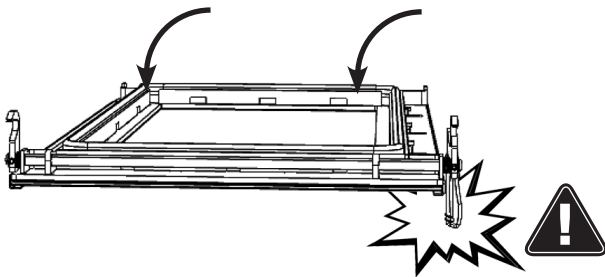
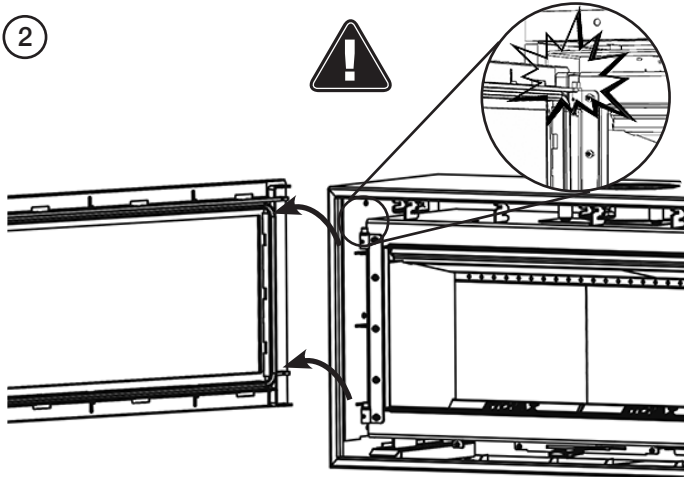
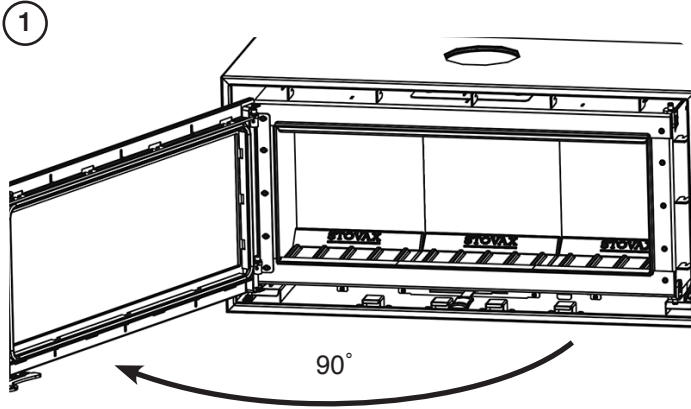
The bottom should be located no more than 10mm above the appliance.



A	B
1200mm	10mm

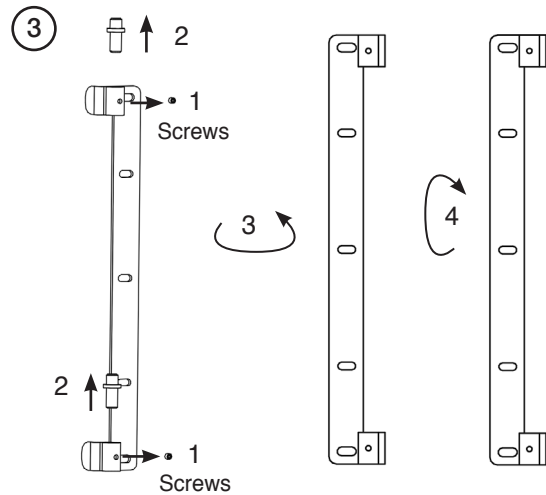
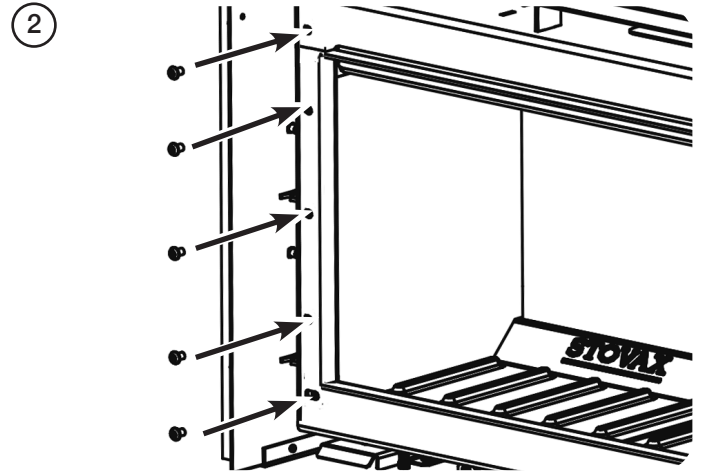
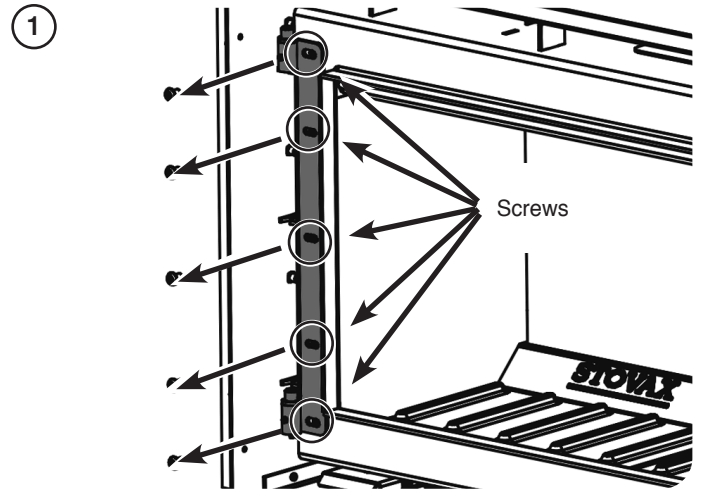
REVERSING THE DOOR

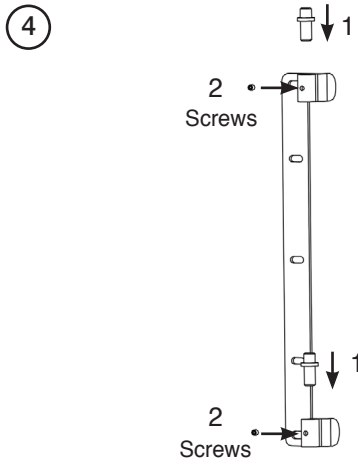
i Note: In order to change the door orientation the existing door latch will need to be replaced with a Reversible Door Handle Latch: Stovax Part No. 326-929. Retain original Latch to return the door to its original state.



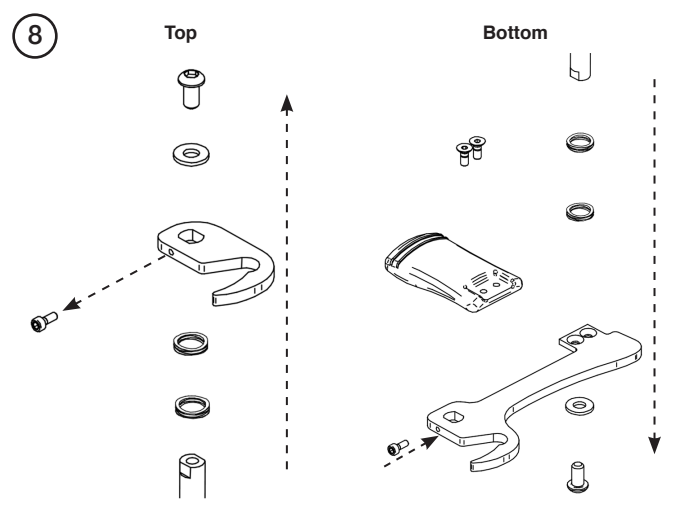
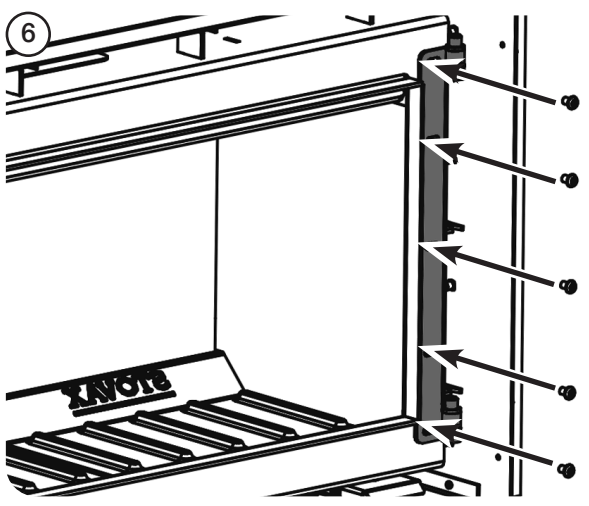
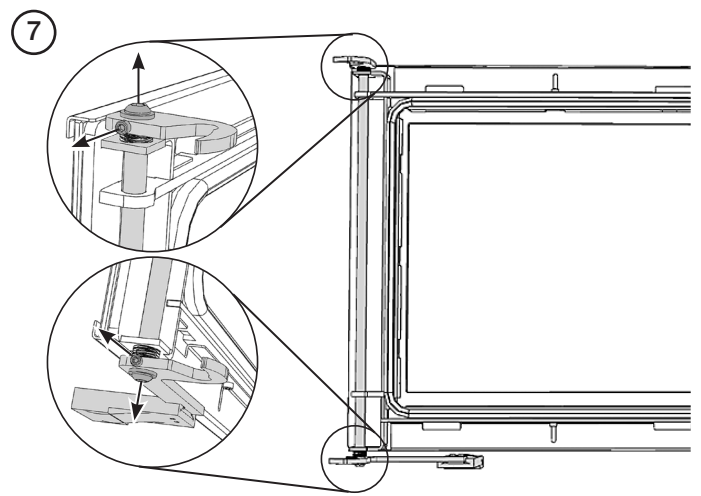
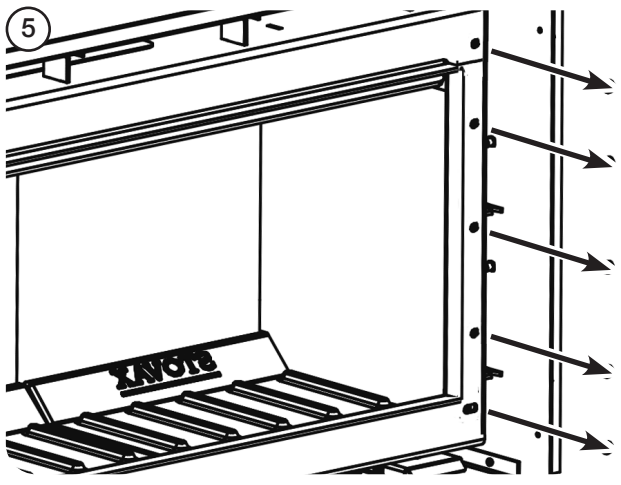
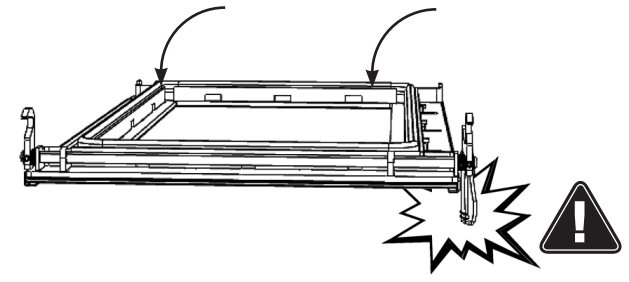
i After reversing the door it may be necessary to adjust the door hinges and catches to ensure the safe, correct closing of the door. The door must be horizontal/level with the top of the inner box and the door catch engages correctly. See Maintenance & Servicing.

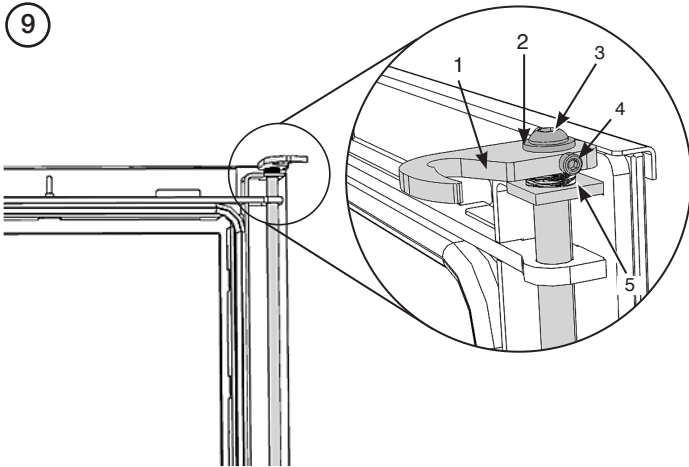
HINGE ASSEMBLY



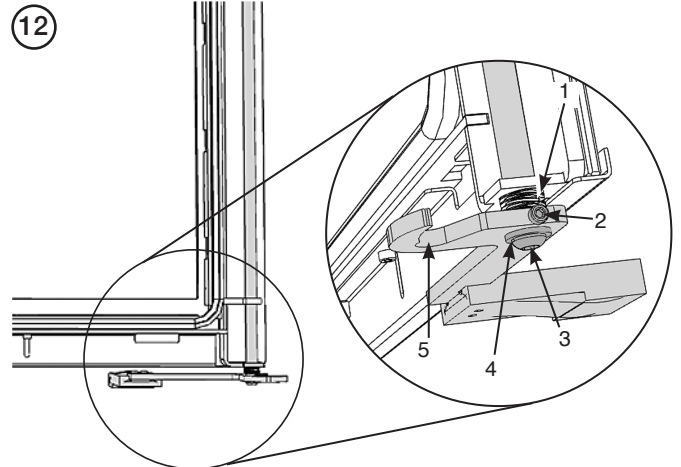


i Lie the door face down on a soft flat surface to protect the paint work and glass.

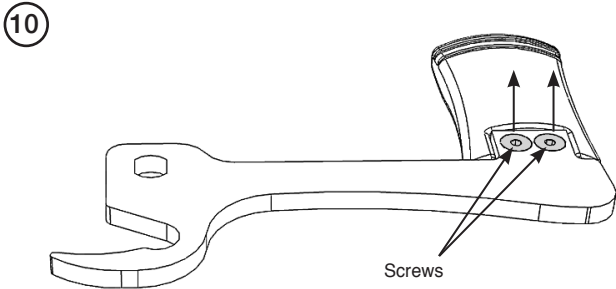




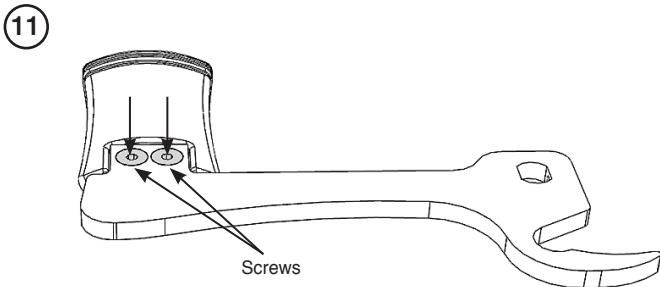
- 1. Top Latch
- 2. Washer
- 3. Large Screw
- 4. Small Screw
- 5. 2x Springs



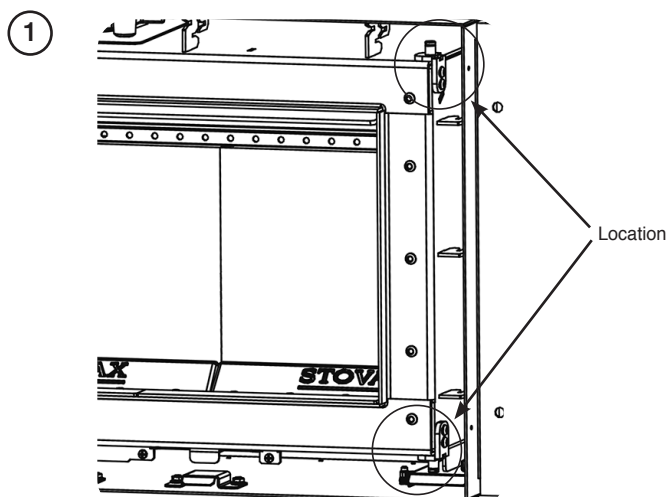
- 1. 2x Springs
- 2. Small Screw
- 3. Large Screw
- 4. Washer
- 5. Bottom Latch



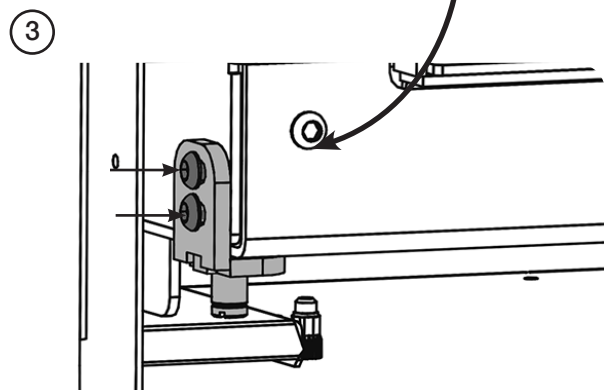
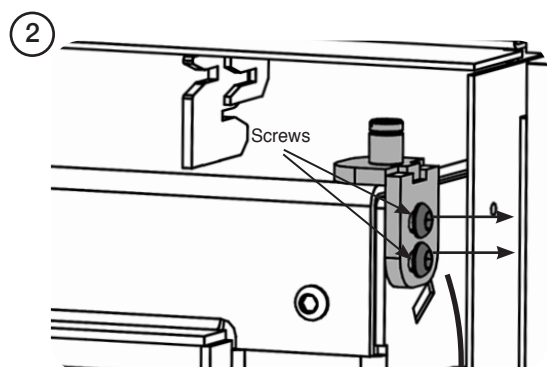
i Note: In order to change the door orientation the existing door latch will need to be replaced with a Reversible Door Handle Latch: Stovax Part No. 326-929. Retain original Latch to return the door to its original state.



DOOR CATCHES

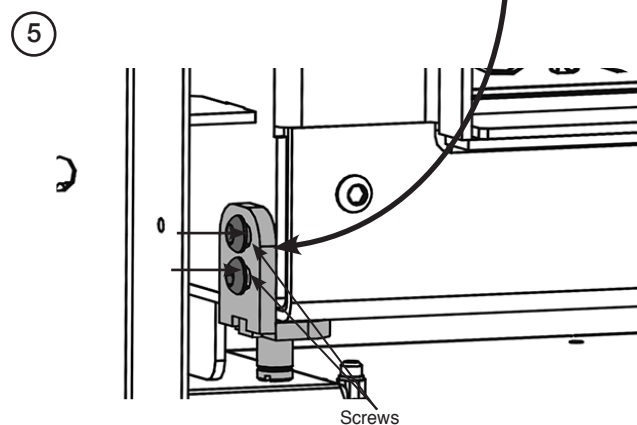
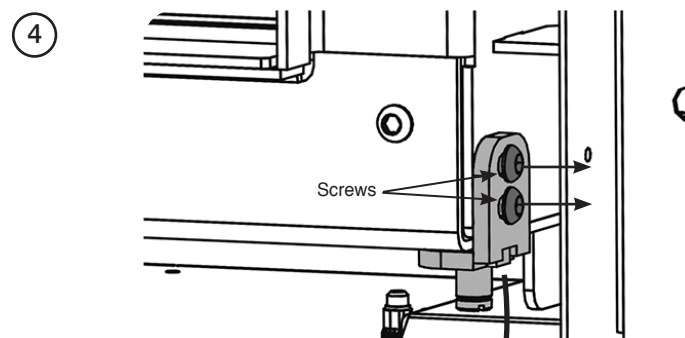


Top Catch



i Blank off the holes on the opposite side of the box with the screws previously removed.

BOTTOM CATCH



i Blank off the holes on the opposite side of the box with the screws previously removed.

Refit door.

i After reversing the door it may be necessary to adjust the door hinges and catches to ensure the safe, correct closing of the door. The door must be horizontal/level with the top of the inner box and the door catch engages correctly. See Maintenance & Servicing.

COMMISSIONING

To commission:

- Ensure all internal components (log guard, baffle(s), bricks) are correctly fitted.
- Check the door alignment and catch operation, adjust if required (see Maintenance and Servicing Instructions).
- Check the soundness of door seals, castings and flue connections.
- Check the operation of the air control.

Now carry out a final smoke draw test:

- First warm the flue with a blowlamp, or similar, for about 10 minutes.
- Place a smoke pellet on the centre of the base bricks, with the air controls open.
- Close the door. Smoke should now be drawn up the flue and be seen to exit from the flue terminal.
- Complete test with all doors and windows closed in the room where the appliance is fitted.
- If there are any extractor fans in adjacent rooms, the test must be repeated with the fans running on maximum and interconnecting doors open.
- Check the effect of ceiling fans during the test.

If the test fails, re-check the suitability of the flue system and ventilation. **An inadequate air supply to the room is potentially dangerous.**

- Light the appliance and slowly increase the temperature to normal operating levels.
- Ensure no combustion products enter the room.
- Open the main fire door when the appliance reaches normal operating levels and carry out a spillage test with a smoke match or pellet around the door opening.

If excessive spillage occurs:

- Allow the appliance to cool and re-check the flue system and ventilation, see troubleshooting guide pages in User Instructions

Finally:

- **Explain the safe operation of the appliance and the use of the controls to the user and the importance of only using suitable fuels.**
- **Explain the cleaning and routine maintenance requirements.**
- **Explain the requirement to use a suitable fireguard when children, elderly or infirm persons are near the appliance.**

IMPORTANT

- **Record dealer/supplier details and installer details on page 3 of this manual.**
- **Record serial number in page 3 of this manual.** This number is required when ordering spare parts and making warranty claims.
- **Give this instruction manual to the customer.**

All open flued appliances can be affected by temporary atmospheric conditions which may allow fumes to enter the house. It is recommended that whenever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling a carbon monoxide alarm be fitted in the same room as the appliance.

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 and chimney system.



These steps MUST be completed in order to qualify for the full dealer warranty.

Failing to complete the commissioning checklist on page 3 will mean the warranty will only be valid for 12 months from the date of purchase.

SERVICING

For a complete list of spare parts and accessories contact your Stovax Retailer or visit www.stovaxspares.co.uk

Before the start of the heating season strip, inspect and clean the appliance as detailed:

- Allow appliance to cool.
- Remove all internal parts: baffle, log guard, cast bases and firebricks.
Take care handling firebricks as they can become fragile after a period of use.
- Sweep the appliance at this point if necessary.
- Vacuum clean any remaining ash and debris from the inside of the appliance. Stovax offer a filter/collection attachment for vacuum cleaners to protect them from fire ash: Ash Clean (Stovax Part No. 2091).
- Check the parts for any damage. Replace any damaged parts using genuine Stovax replacements parts.
- Check and clean the firebricks with a soft brush.
Some surface damage will occur during use. The life of the bricks will depend on the type of fuels burnt and the level of use.
Replace damaged bricks as soon as possible.
- Re-fit cleaned internal parts.
- **Use Stovax Glass Cleaner (Stovax No.4103) which is better formulated for this application.**
Do not use abrasive cleaners to remove tar or soot deposits from the glass.
- Fit new door rope seal.
- Lightly oil the door catch mechanism and hinge pins. Avoid getting oil onto the door seals and glass.
- To refresh painted finishes a touch up spray is available.
Contact your Stovax retailer quoting the serial number found on the appliance data badge.

Use genuine Stovax replacement parts to keep the appliance in safe, efficient working order.

Products to assist in the cleaning and maintenance of your Studio Air are available online at www.stovax.com or from your local Stovax dealer which, along with regular maintenance and use of correct fuels, will keep the appliance in the best possible condition.

For more information about the Stovax Group products please visit our web site at www.stovax.com

Burn at a low temperature for the first day of use after any maintenance. This allows the seals, fixing glues and paint to fully cure.

During this time the appliance may give off some unpleasant odours. Keep the room well ventilated to avoid a build-up of fumes.

Your Stovax dealer can carry out service and maintenance.

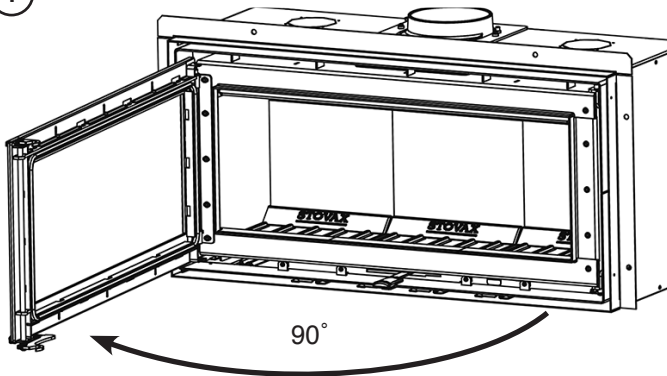
TASK	PRODUCT NAME	NO.
Re-painting	Touch Up Paint (150ml aerosol)	2056

Available online at www.stovax.com or from your local Stovax dealer, along with regular maintenance and use of correct fuels, will keep the appliance in the best possible condition.

i **IMPORTANT: Stovax provide gauntlet style gloves for the users protection from heat and any sharp edges when using the appliance.**
For your safety ensure that gloves are always worn when opening, operating, refuelling or handling internal metalwork.

FITTING A NEW DOOR SEAL

1



Clean the locating groove with a clean dry cloth to remove all old dust and debris.

Squeeze a generous bead of fresh Stovax Thermic Seal glue into the rope locating groove.

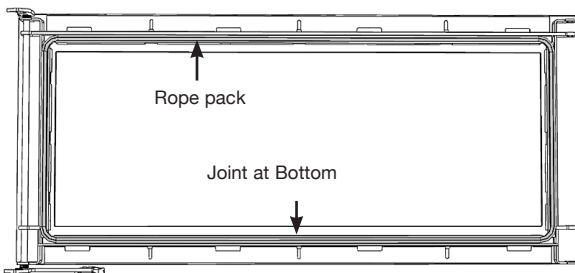
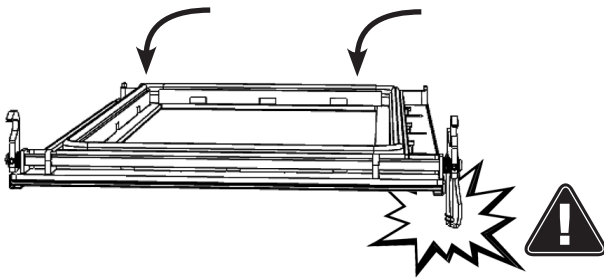
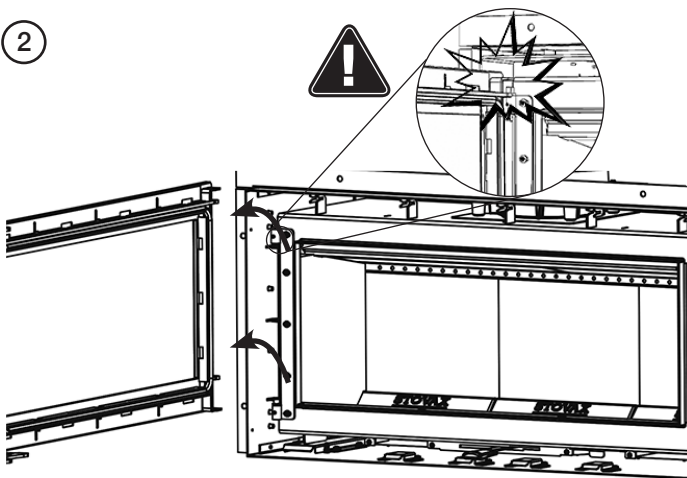
Press the new Stovax rope into the locating groove, placing the joint in the middle of the bottom edge of the door using tape supplied for the ends.

Refit the door and close the door to apply pressure to the new rope.

Leave the appliance closed for at least 12 hours before lighting the appliance and using at a low output for approximately one day.

Using the appliance with a damaged door seal can cause dangerous fumes to enter the room, or the appliance to over fire, resulting in damage.

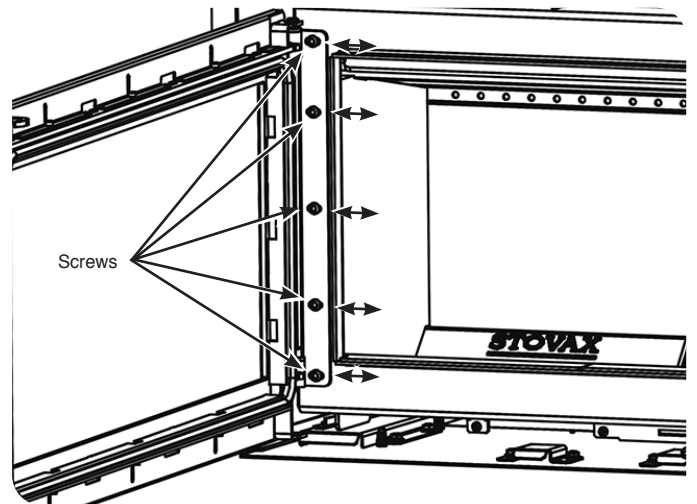
2



To maintain the safe use of your appliance you need to replace damaged or worn door sealing rope. To complete this operation remove the door before starting.

Remove the old rope and scrape old glue from the locating groove.

ADJUSTING DOOR HINGES



To maintain the safe use of your appliance, you may need to adjust the door hinges to ensure the safe, correct closing of the door. The door must be horizontal/level with the top of the inner box and the door catch engages correctly.

Adjustment is possible by adjusting the hinges on Inner Box.

Open the door to give access.

HINGES ON INNER BOX

Loosen the screws inside the appliance as shown. This will give horizontal adjustment which may need a trial and error approach to find the correct position. The door must be horizontally level.

ADJUSTING THE DOOR CATCH

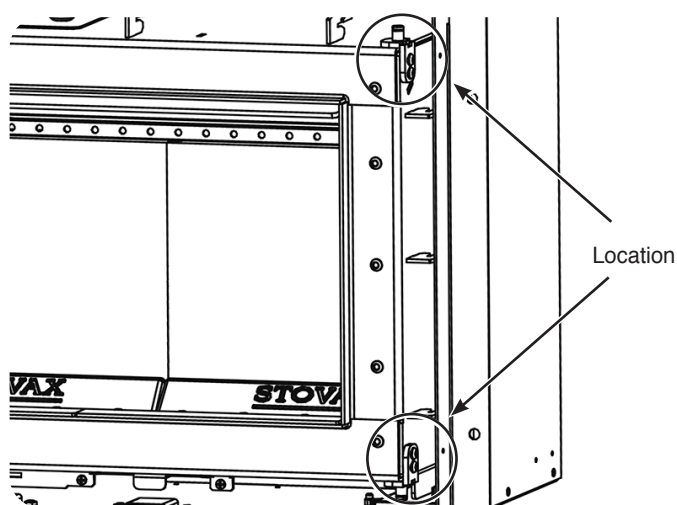
To maintain the safe use of your appliance you may need to adjust the door catch to ensure the safe, correct closing of the door. If the door has been reversed or the door hinges have been adjusted the door catch may need adjustment.

The diagrams show adjustment for a door with hinges on the left. If the door has been reversed the method is the same.

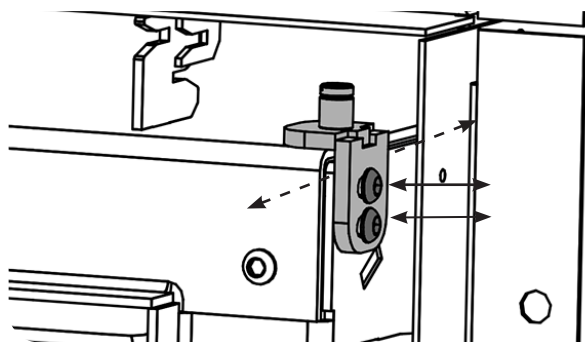
The catches are located at the top and the bottom of the open side of the door.

The top and bottom catches will need to be adjusted separately and in the same manner.

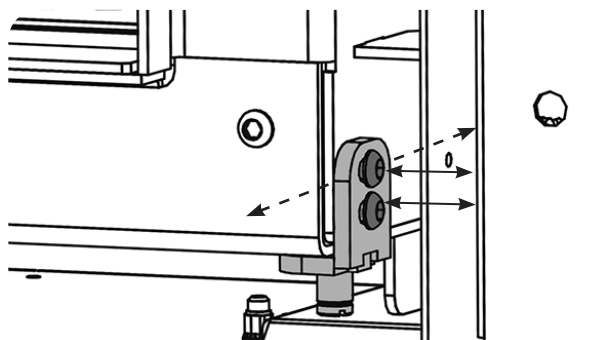
The catch block can move in and out.



TOP CATCH BLOCK



BOTTOM CATCH BLOCK



Loosening or tightening the M6 screw on the catch block will cause the catch to move in or out from the door and allow the hook to gain better purchase on the door rollers.

Do not remove screw completely.

DO A PAPER TEST

To do a paper test shut a piece of paper in the door at the edges to test how well the rope seal stops the air from entering the appliance. If the paper can be pulled out easily then the seal is not sufficient and the rope must be replaced.

Repeat this around all the edges of the appliance.

Technical Appendix

LEGAL REQUIREMENTS

Before installation and/or use of this appliance please read these instructions carefully to ensure that all requirements are fully understood.

The appliance must be fitted by a registered installer*, or approved by your local building control officer.

It is very important to understand the requirements of the national Building Regulations and standards, along with any local regulations and working practices that may apply. Should any conflict occur between these instructions and these regulations then the regulations must apply.

Your local Building Control Office can advise regarding the requirements of the regulations.

Works must be carried out with care to meet the requirements of Health and Safety and comply with the Health and Safety rules, and any new regulations introduced during the lifetime of these instructions. Particular attention should be drawn to:

— **Handling:** The appliance is heavy. Adequate facilities must be available for loading, unloading and on site handling.

— **Fire Cement:** Some fire cement is caustic and must not come into contact with the skin. Protective gloves must be worn. Wash hands thoroughly with plenty of water after contact with skin.

— **Asbestos:** This appliance contains no asbestos. If there is the possibility of disturbing any asbestos in the course of installation seek specialist guidance and use appropriate equipment.

— **Metal Parts:** Take care when installing or servicing the stove to avoid personal injury.

A faulty installation can cause danger to the inhabitants and structure of the building.

For users of this appliance:

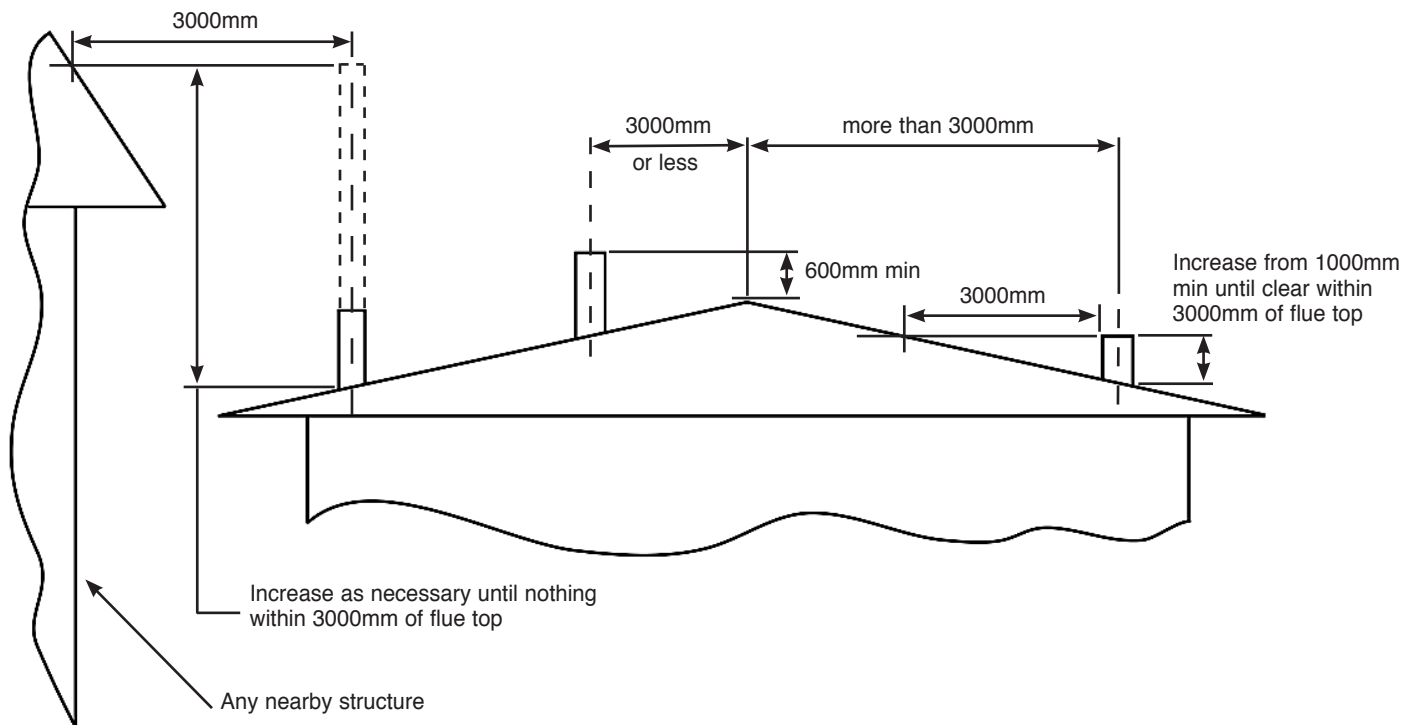
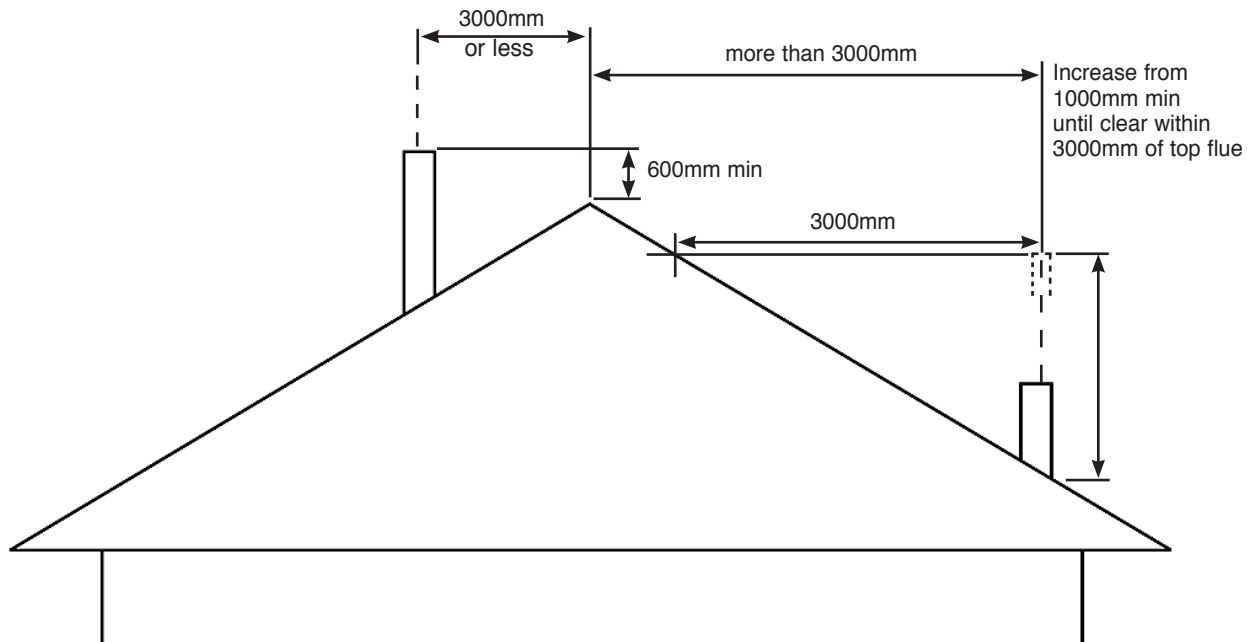
Your building insurance company may require you to inform them that a new heating appliance has been installed on your property. Check that your cover is still valid after installing the appliance.



***Installation is to be completed by a certified Solid Fuel Appliance Installation Technician (SFAIT) as required by the New Zealand Home Heating Association (NZHHA) conforming to AS/NZ 2918:2001.**

FLUE OUTLET POSITIONS

THE FLUE TERMINATION POSITIONS ARE THE MINIMUM REQUIRED AS PER NZS 2918:2001. IT IS POSSIBLE THAT FLUE HEIGHTS MAY NEED TO BE INCREASED AS A RESULT OF CONFLICTING AIR PRESSURE ENVELOPES THAT MAY DEVELOP OVER SOME ROOFLINE SHAPES AND SURROUNDING OBSTRUCTIONS. RESTRICTION INTO CLEAR AIR MOVEMENT OVER ANY ROOF MAY ALSO REQUIRE DIFFERENT COWL DESIGNS, PARTICULARLY FOR HIGH WIND ZONES OR VARYING LOCAL ENVIRONMENT CONDITIONS.



A HANDY RULE OF THUMB :
 Terminate all flues a minimum of 600mm above the highest ridgeline of the donor building.

Technical Appendix - Flues

MINIMUM DIMENSIONS - FLOOR PROTECTOR

Also see Page 6 for dimensions.

The appliance must stand on a non-combustible constructional floor protector which is at least 20mm thick with the minimum dimensions as shown in the diagram.

A non combustible constructional floor protector which is at least 20mm thick and positioned as shown on Page 6. Any elevated or cantilevered floor protector must extend the minimum of 670mm from the door opening and a minimum of 200mm each side of the fireplace opening.

The building must have a suitable load-bearing capacity for the floor protector and appliance. Consult a structural technician for advice before proceeding.

When fitting into an existing floor protector check that the floor protector complies with current construction regulations and is at least the minimum sizes shown.

FLUES AND CHIMNEYS

WARNING: THE APPLIANCE AND FLUE-SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.

CAUTION: MIXING OF APPLIANCE OR FLUE-SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.


The flue or chimney system must be in good condition.
It must be inspected by a competent person and passed for use with the appliance before installation.

Products of combustion entering the room can cause serious health risks.

The following must be adhered to:

AS/NZ 2918:2001:4.9.1

- a) The flue pipe shall extend not less than 4.6m above the top floor protector.
- b) The minimum height of the flue system within 3m distance from the highest point of the roof shall be 600mm above that point.
- c) The minimum height of a flue system further than 3m from the highest point of the roof shall be "a minimum" 1000mm above roof penetration.
- d) No part of any building lies in or above a circular area described by a horizontal radius of 3m about the flue system exit.

 **A HANDY RULE OF THUMB :**
Terminate all flues a minimum of 600mm above the highest ridgeline of the donor building.

N.B. in extreme wind areas it may be necessary to consult your local agent for further technical assistance.

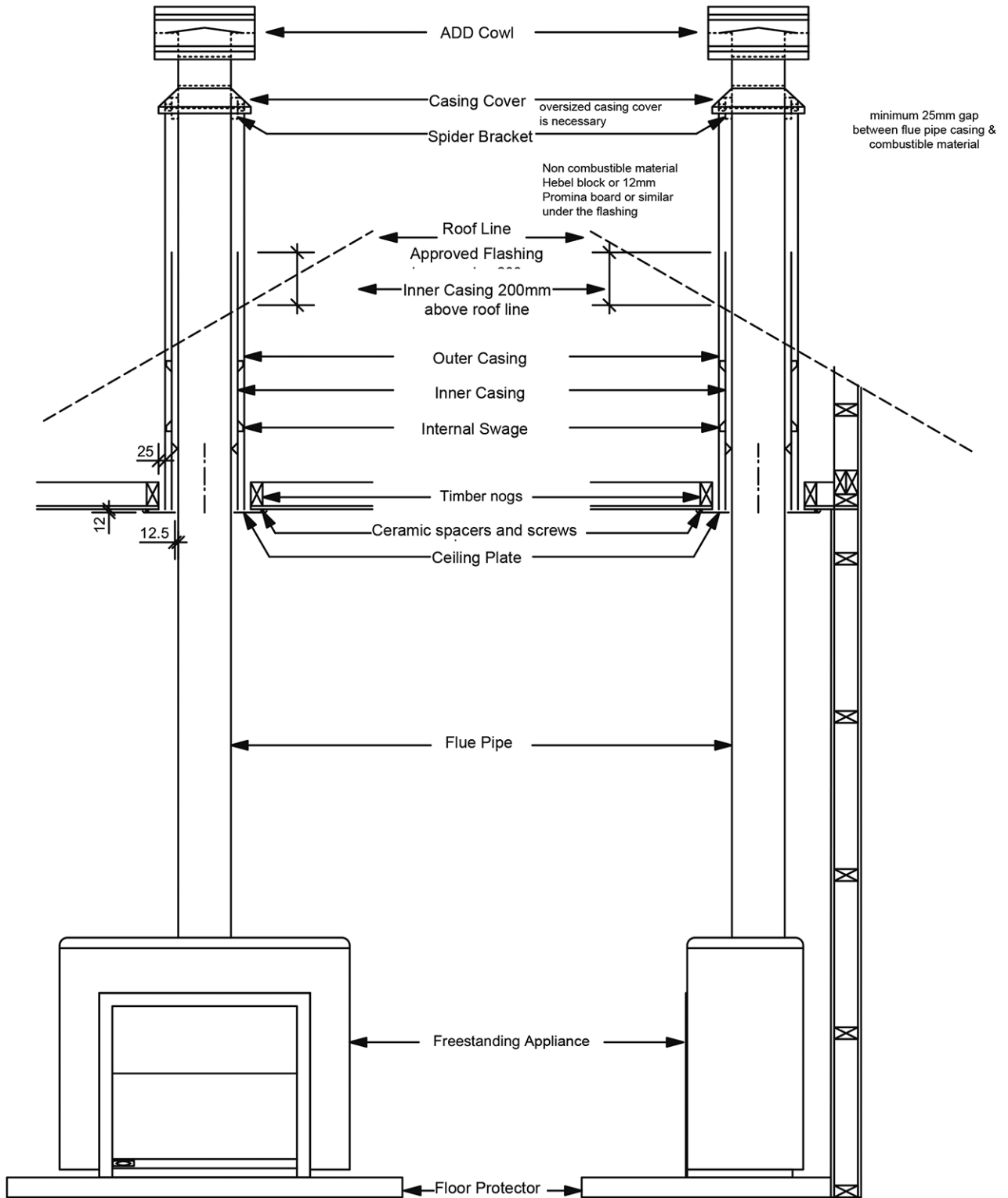
— If flue is concealed in a chase, allow for air vents (2 x 80mm diam. or equivalent) at the highest possible point on the chimney chase or alternatively, allow a min 25mm air space between the casing cover spigot and the outer casing, see Figures 1.1, 1.2 and 1.3.

Technical Appendix - Flues

FLUE PENETRATION - WOOD

Tested flue systems, as per AS/NZS 2918:2001

Drawing not to scale



Technical Appendix - Flues

FLUE PENETRATION - WOOD

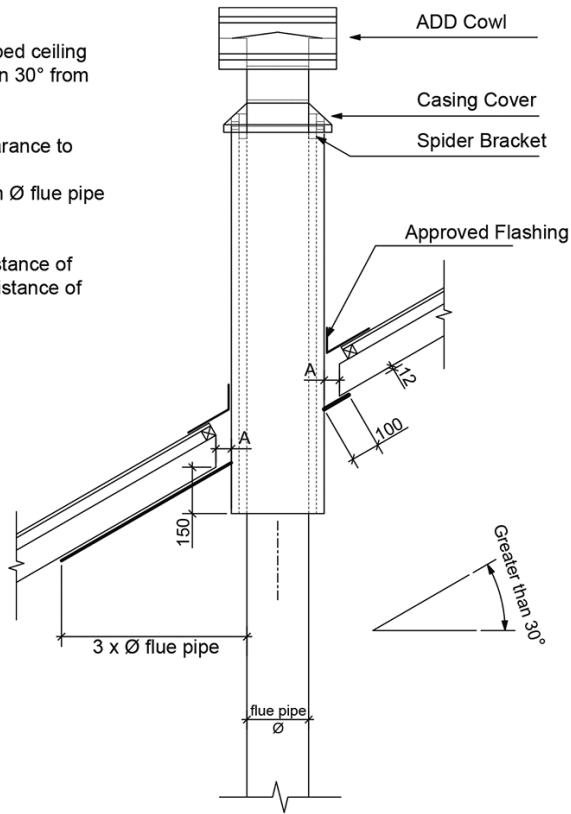
Untested flue systems, as per AS/NZS 2918:2001, 4.6.3(b)

AS/NZS2918:2001

Un-tested flue with sloped ceiling penetration greater than 30° from horizontal

4.5.1.2(b) = 50mm clearance to combustible material
A = 62.5mm for 225mm Ø flue pipe

4.6.3(b)
Fig 4.6 = downward distance of casing and 3 x Ø flue distance of the ceiling plate

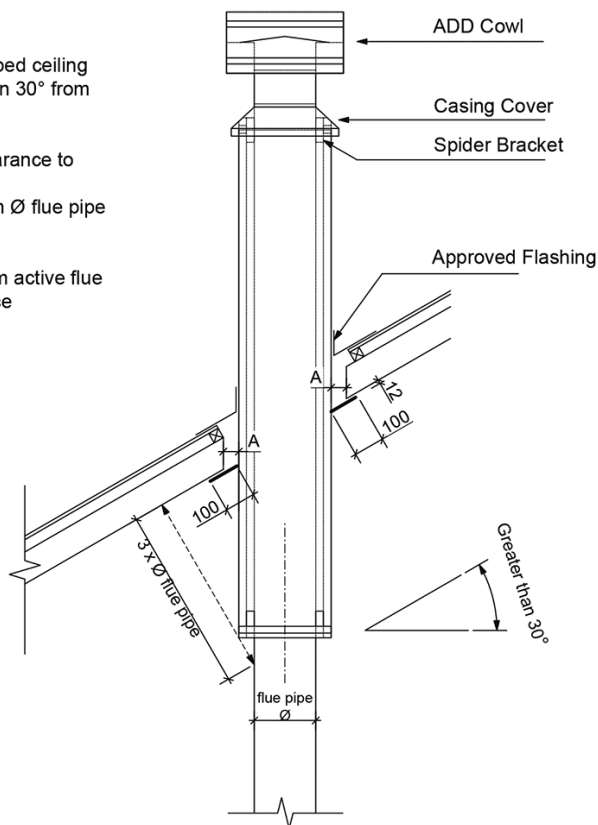


AS/NZS2918:2001

Un-tested flue with sloped ceiling penetration greater than 30° from horizontal

4.5.1.2(b) = 50mm clearance to combustible material
A = 62.5mm for 225mm Ø flue pipe

4.6.3(b)
Fig 4.6 = 3 x Ø flue from active flue to heat sensitive surface

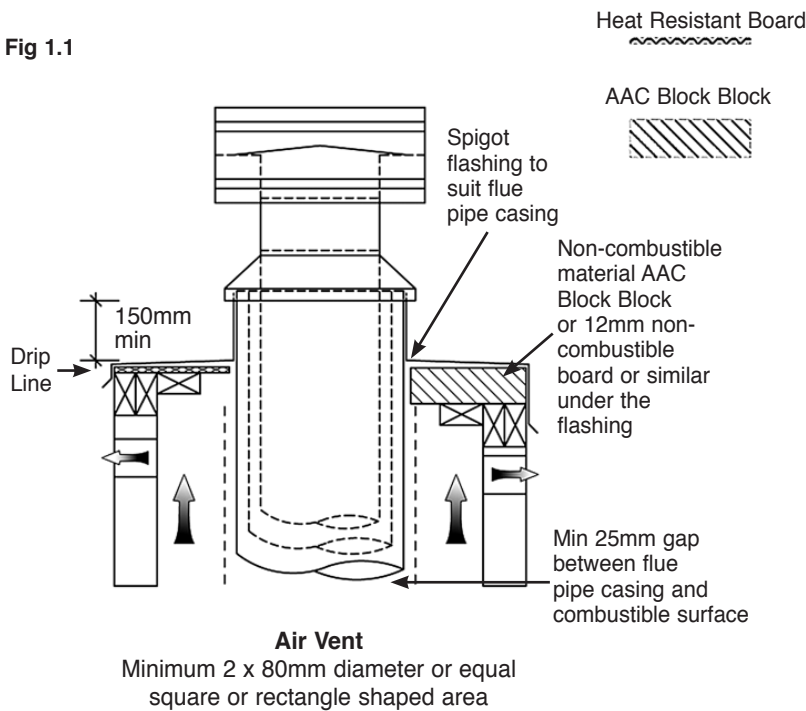


Technical Appendix - Flues

External Requirements
Refer to AS/NZ 2918:2001;4.9.1

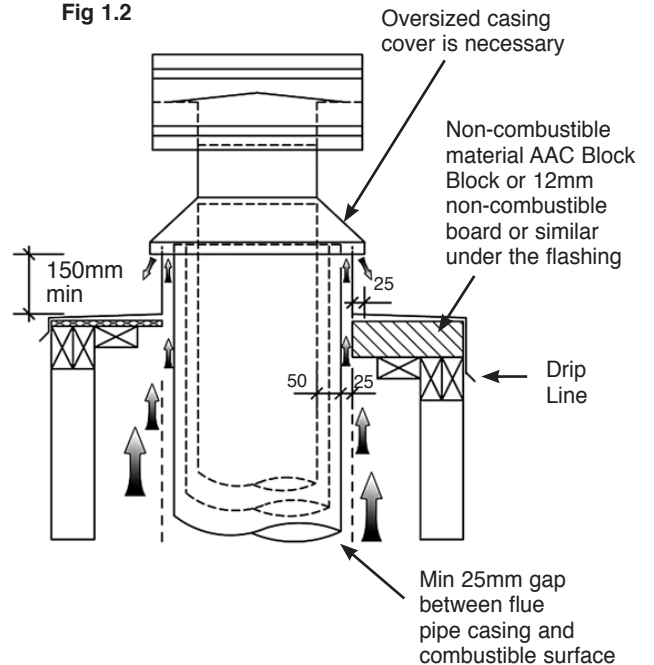
Air Ventilation Through Chimney Chase

Fig 1.1



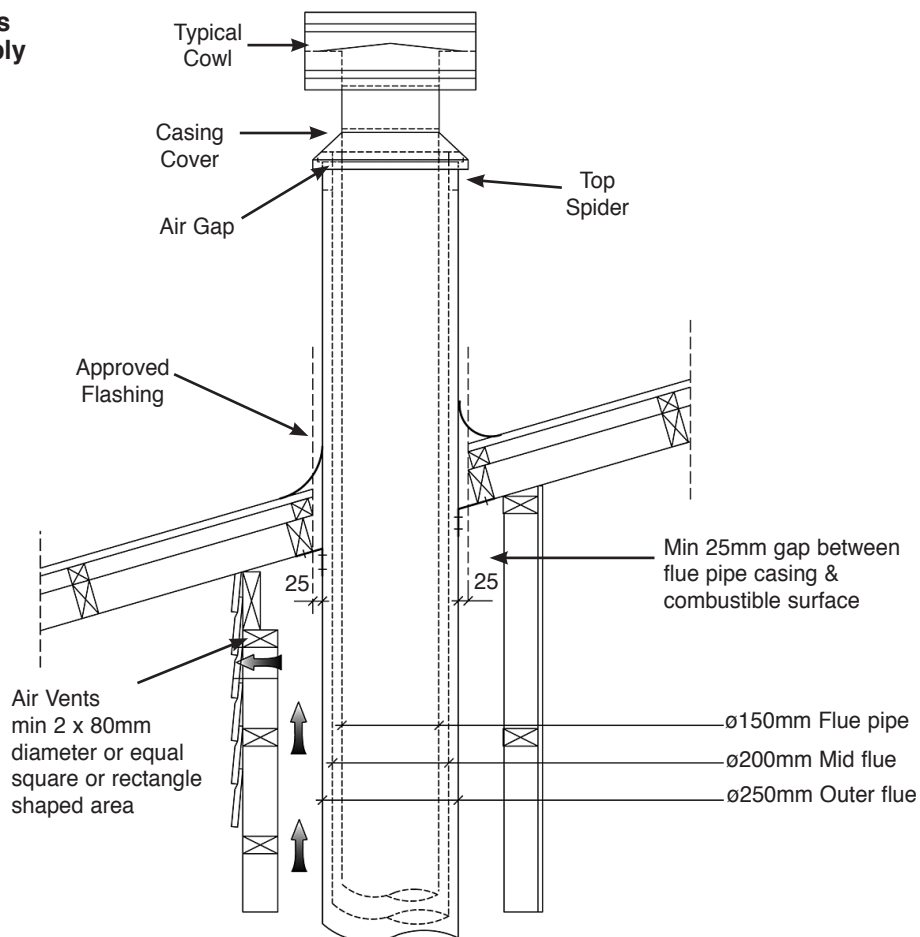
Air Ventilation Through Top Flashing

Fig 1.2



The flue system and its installation must comply with AS/NZS2918:2001

Fig 1.3



Note: All external air vents & ceiling penetrations must be bird & rodent proofed with permanently fixed screens.

Technical Appendix - Ventilation

AIR VENTILATION FOR FREESTANDING

i Allowances **MUST** be made for air replacement vents to be located near the fireplace to aid combustion. A minimum of one pair of air vents is recommended or one large vent. Allowance is to be made for a minimum of 2 inlet ducts from outside to internal vent location. **Note: DO NOT USE FIREPLACE CAVITY VENTILATION AS A METHOD OF AIR REPLACEMENT.**

Increase air supply provisions where a room contains multiple appliances. Internal air pressure balance can be critical.

If vents open into adjoining rooms or spaces there must be an air vent of at least the same size direct to the outside.

For REPLACEMENT AIR site the vents where cold draughts is unlikely to cause discomfort. This can be avoided by placing the vents near or close to the appliance and located as close to floor level as possible.

Additional ventilation is required. This must be provided using a permanently open air vent, of the size listed, which is positioned so that it is not liable to be blocked both inside and outside the building.

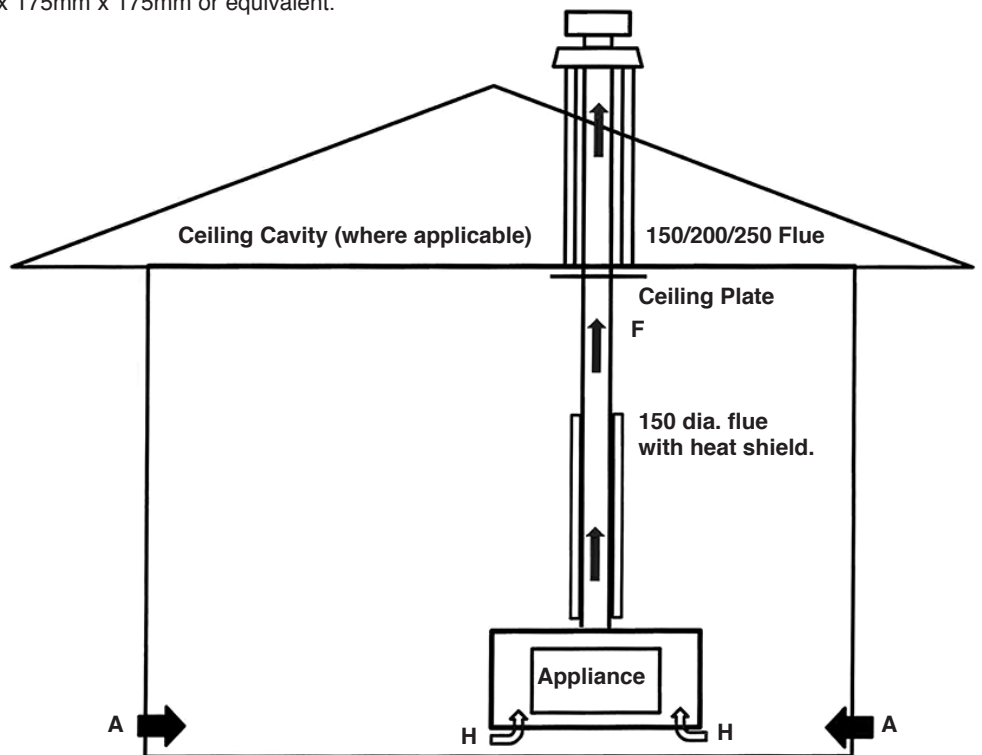
Minimum recommended air replacement is 2 x 175mm x 175mm or equivalent.

Key

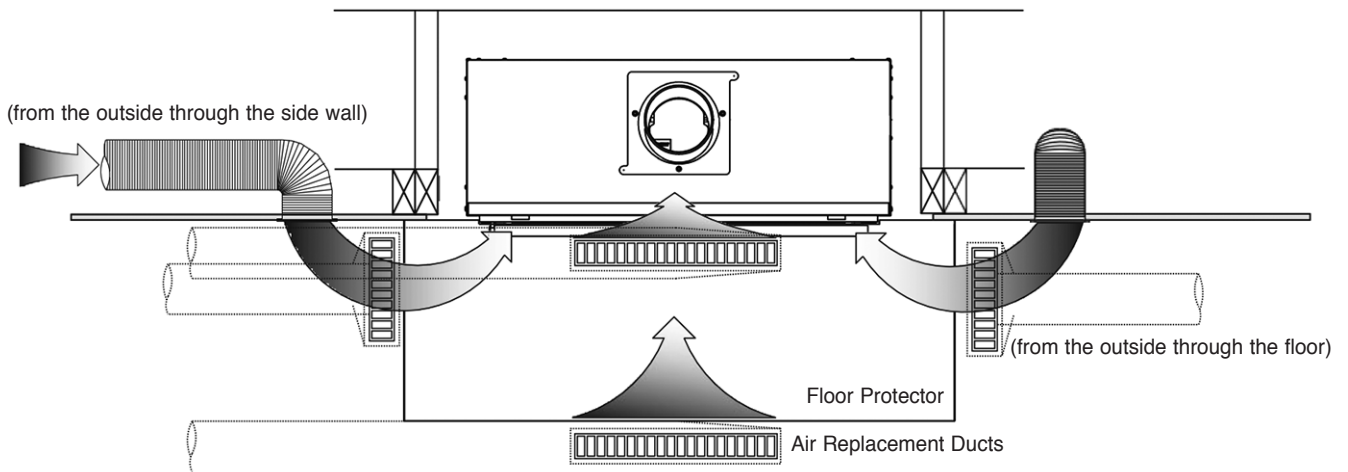
A = Inlet air ducts from outside (Replacement air for combustion - 2 x 175mm x 175mm). Should be positioned as close as possible to the fire.

F = Flue termination cowl

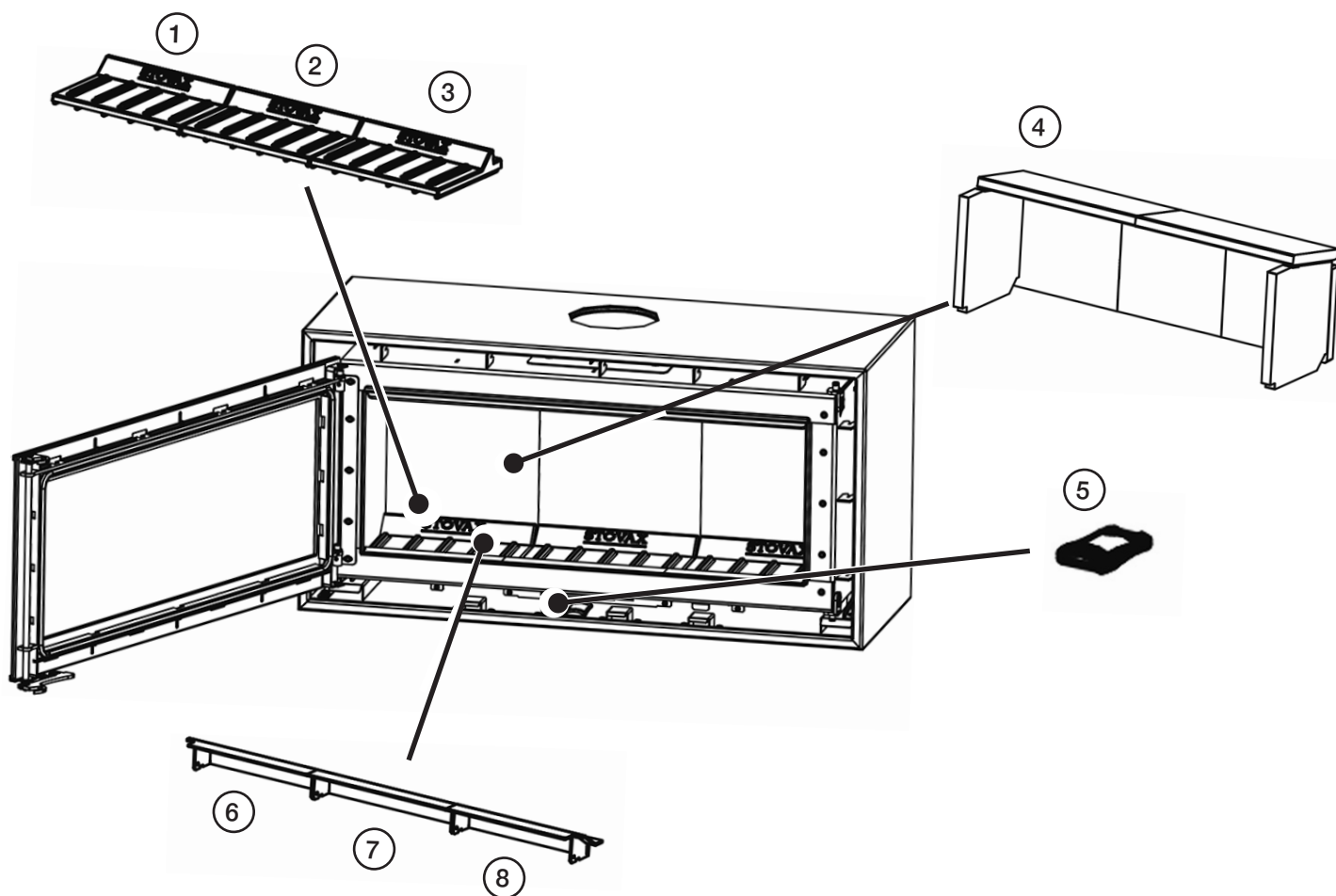
H = **Combustion air** to fire drawn from the room air



Example of different vent locations.

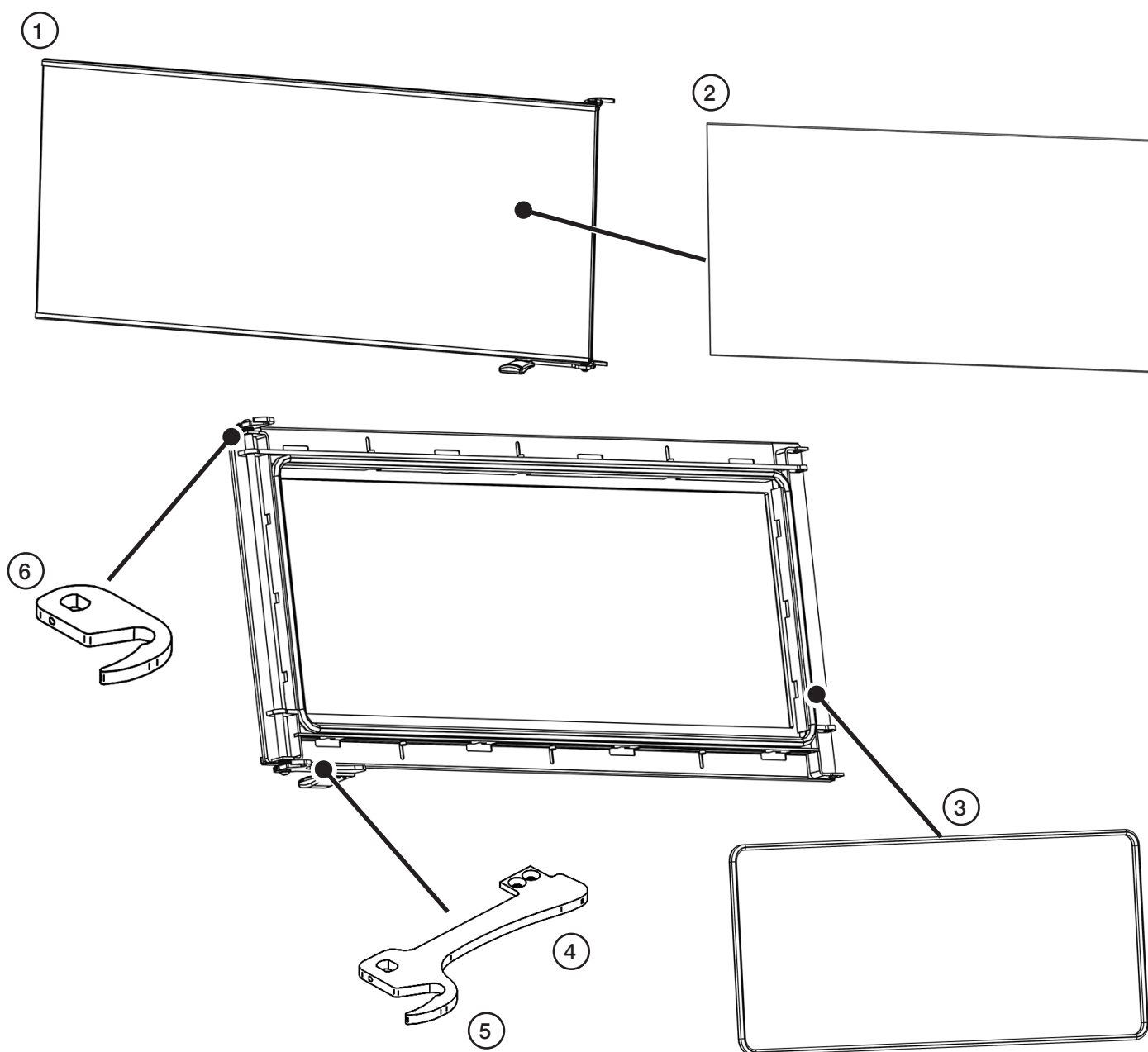


SPARE PARTS



REF.	DESCRIPTION	CODE
		STUDIO 2 AIR
1	Base Brick - Left	CA7897
2	Base Brick - Center	CA7897
3	Base Brick - Right	CA7897
4	Upper Brick Set	MEC11407
5	Handle	CA7919
6	Ashlip - Left	MEC11932
7	Ashlip - Center	MEC11914
8	Ashlip - Right	MEC11933

SPARE PARTS



REF.	DESCRIPTION	CODE
		STUDIO 2 AIR
1	Complete Door Assembly	MEC11978
2	Door Glass	CE8375
3	RopeSeal	4999
4	Door Handle Latch	ME602440
5	Reversible Door Handle Latch	ME602328
6	Top Catch	ME602439

SERVICE RECORDS

1ST SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

3RD SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

5TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

7TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

9TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

2ND SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

4TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

6TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

8TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number

10TH SERVICE

Date of Service:.....
 Next Service Due:.....
 Signed:.....
 Dealer's Stamp/SFAIT Registration Number/ AHHA
 License Number



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