

STOVAX



Brunel 1A/2CB/3CB ***Free Standing Stove***

MODELS: 7008/7008BL/7008LG/7051/7051BL/7051LG/7053/7053BL/7053LG

Installation Instructions **For Use in Great Britain and Eire**

This product is suitable for use in the stated countries. To install the product in other countries it is essential to obtain translated instructions and in some cases the product may require modification. Contact Stovax to obtain further information.

IMPORTANT

**Please read these instructions carefully before using the appliance.
Keep them safe for future reference and when servicing the stove.**

TECHNICAL SPECIFICATION

BRUNEL STOVE

Model Brunel 1a - 7008/7008BL/7008LG Brunel 2CB - 7051/7051BL/7051LG Brunel 3CB - 7053/7053BL/7053LG			Brunel 1a	Brunel 2CB	Brunel 3CB
Nominal Heat Output	Wood	kW	4.0	6.0	7.0
	Solid Fuel	kW	4.0	6.0	7.0
Flue Draught @ Nominal Heat Output	All Fuels	mm Wg	1.25	1.25	1.25
		inch Wg	0.05	0.05	0.05
Flue Gas Mass Flow	Wood	g/s	3.3	5.5	5.2
	Solid Fuel	g/s	3.4	5.8	4.5
Flue Gas Temperature @ Spigot/Socket	Wood	°C	396	360	442
	Solid Fuel	°C	369	360	442
Flue Outlet Size (Top or Rear Option)		mm	125	150	150
		inch	5	6	6

Weight		Kg	62	90	120
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Recommended Fuels	Wood	Seasoned Wood (less than 20% moisture content)
	Solid Fuel	Briquette Smokeless Fuel Suitable for Closed Appliances. (Ancit-Phurnacite-Taybrite-Homefire Ovals)

As tested to the requirements of EN 13240 for intermittent operation.

1. STANDARD FEATURES

- Primary air (under grate air for full multifuel use)
- Airwash (for woodburning / clean glass)
- Pre-set secondary air control (to ensure complete burning of flue gases)
- Riddling grate system for clean de-ashing
- Top or rear flue exit option

2. PACKING LIST

- User Instructions
- Installer Instructions
- Guarantee card
- Door handle tool

SITE REQUIREMENTS

Before installation of this product please read these instructions fully.

It is very important to also understand the requirements of the UK Building Regulations (England and Wales – Document J / Scotland - Part F), along with any local regulations and working practices that may apply. Should any conflict occur between these instructions and these regulations then the regulations shall apply.

All electrical connections should meet the requirements of UK Building Regulations (England and Wales – Document P / Scotland - Part N).

Your local Building Control Office would be happy to advise should questions arise, regarding the requirements of the regulations.

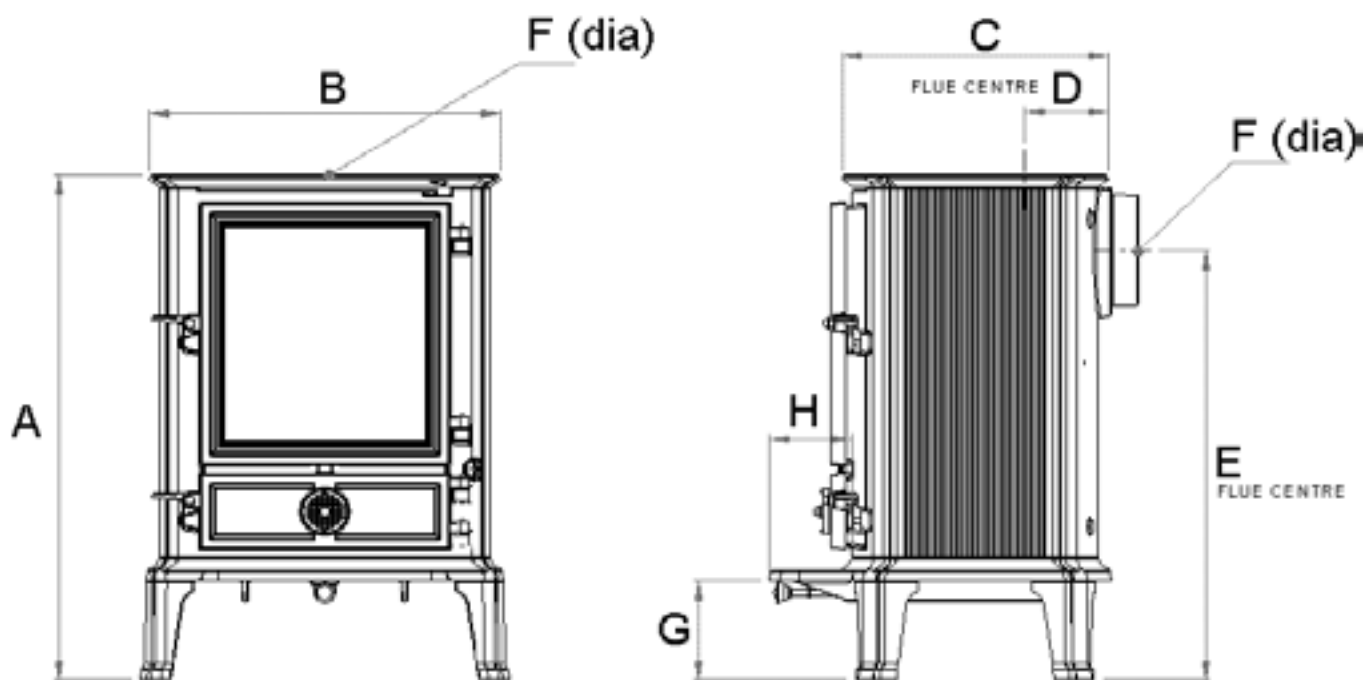
The Brunel Stove should be fitted by a HETAS (GB only) registered installer, or approved by your local building control officer. Your Stovax dealer should be able to arrange this service for you.

Your building insurance company may also require you to inform them that you have installed a new heating appliance, so check with your insurers that your cover is still valid after installing the Brunel Stove.

When completing the installation and building works you should comply with your responsibilities under the Health and Safety at Work Acts, and any new regulations which may be introduced during the lifetime of these instructions.

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

BRUNEL STOVE DIMENSIONS



Description	Model	A	B	C	D	E	F (dia)	G	H
Brunel 1a	7008	525	385	290	106	430	125	89	95
	7008BL								
	7008LG								
Brunel 2CB	7051	640	437	335	115	545	125	122	103
	7051BL								
	7051LG								
Brunel 3CB	7053	685	550	330	115	588	150	155	103
	7053BL								
	7053LG								

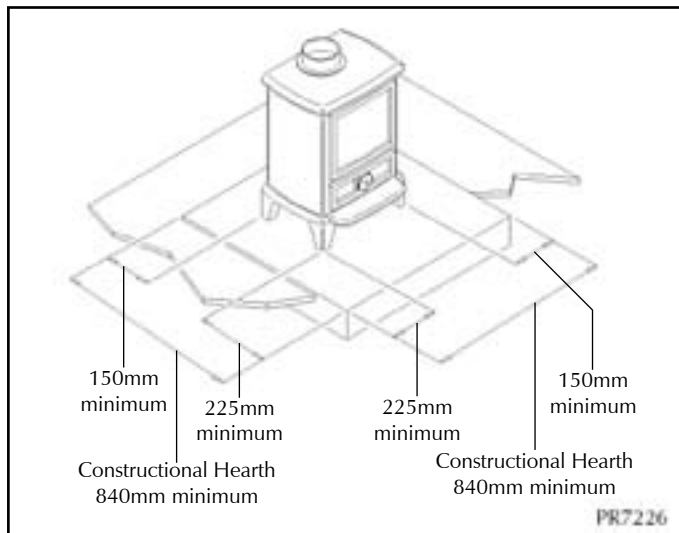
All dimensions in mm. (25.4mm = 1")

SITE REQUIREMENTS

HEARTH DIMENSIONS

The appliance must stand on a constructional hearth with the minimum dimensions as shown in the diagram below.

Check that the building has a suitable loadbearing capacity for the hearth and Brunel stove. If in doubt consult a structural engineer for advice before proceeding.



If you are fitting the appliance into an existing hearth setting check that it complies with the current construction regulations and is at least the minimum sizes shown.

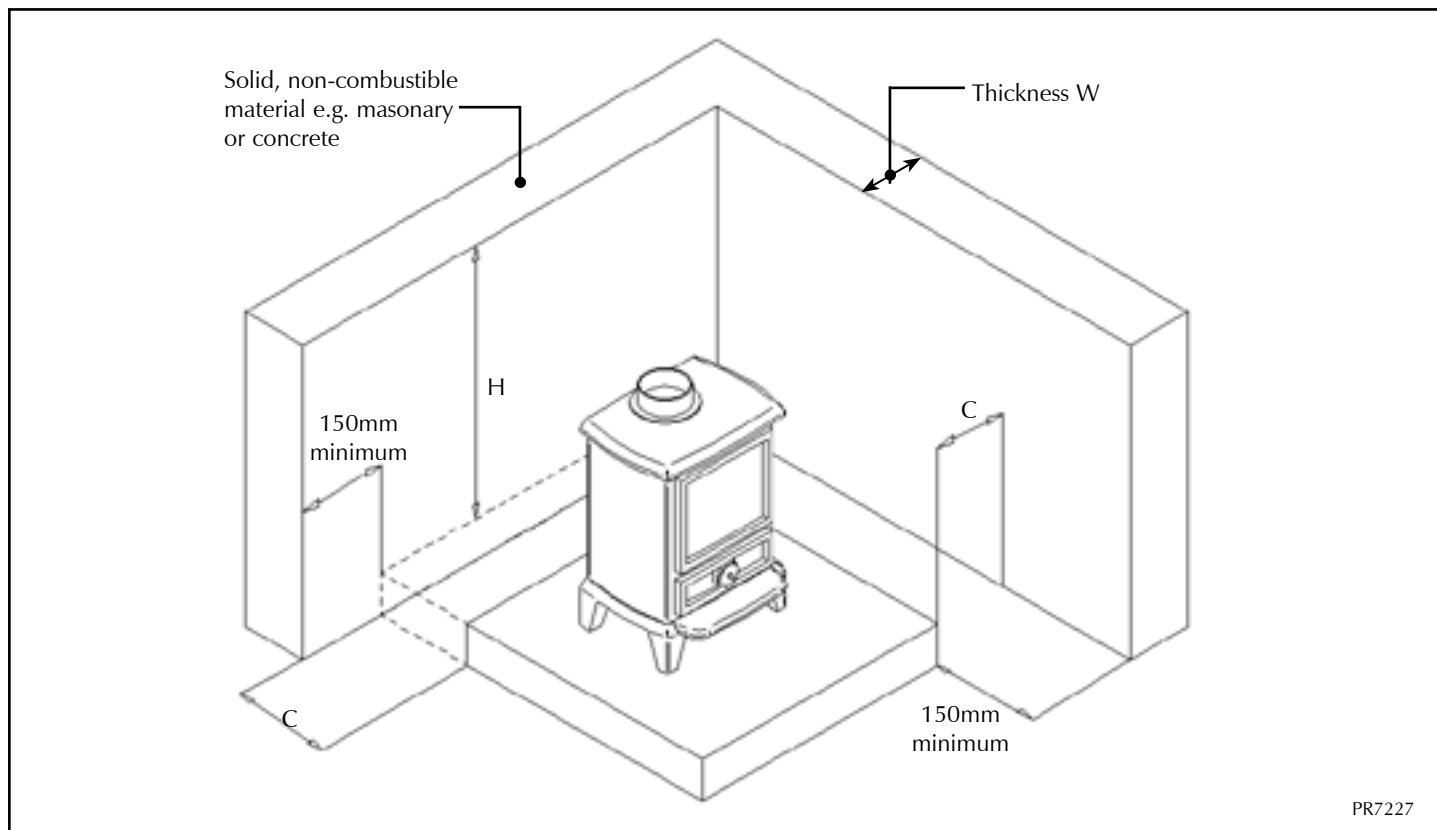
If you have no existing fireplace or chimney, it is possible to construct a suitable non-combustible housing and hearth setting. However, this should be constructed to comply with the requirements of both current national and local regulations with the design approved by your local building control officer.

Masonry chimney systems built with clay or concrete liners or pre-fabricated block systems should be constructed in accordance with BS 6461 : Part 1. Factory made insulated systems should comply with BS 4543 : Part 2 and be installed to BS 7566 : Parts 1 to 4.

Remember that any new chimney added to your property may also require planning permission.

SITE REQUIREMENTS

WALLS NEXT TO HEARTHES



Location of Stove and Hearth	Dimensions of non-combustible material around Stove		
	Distance 'C'	Thickness 'W'	Height 'H'
If the hearth touches the wall and the stove is placed 0-50mm from the same wall the non-combustible material has to be the dimensions as shown	Zero mm	200mm	Height of stove + 300mm or 1200mm (take largest dimension)
If the hearth touches the wall and the stove is placed 51-300mm from the same wall the non-combustible material has to be the dimensions as shown	Zero mm	75mm	Height of stove + 300mm or 1200mm (take largest dimension)
If the hearth does not touch the wall but is less than 150mm from it, the non-combustible material has to be the dimensions as shown	0-150mm	75mm	1200mm
If the hearth does not touch the wall but is more than 150mm from it, the non-combustible material has to be the dimensions as shown	Over 150mm	No minimum thickness	No minimum height

Suitable clearance should be allowed around the stove to enable the correct fitting and maintenance of the stove. Any clearances should be confirmed by making a site survey and a physical check of wall thickness and dimensions.

PRE-INSTALLATION CHECKS

It is important that adequate ventilation exists and the Flue or Chimney system that is to be used is in good working condition. Products of combustion that enter the room could be a serious health risk. Before installation of this product we recommend that

the Flue or Chimney system and Ventilation requirements are inspected by a competent person, and passed as suitable for use with the appliance to be fitted. In particular the following should be checked: -

Model			Brunel 1a	Brunel 2CB	Brunel 3CB
Brunel 1a - 7008/7008BL/7008LG					
Brunel 2CB - 7051/7051BL/7051LG					
Brunel 3CB - 7053/7053BL/7053LG					
Flue/Chimney size	Without Liner System Round (diameter)	mm	150	150	150
		inch	6	6	6
	Without Liner System (square) minimum dimension	mm	135	135	135
		inch	5 ¹ / ₂	5 ¹ / ₂	5 ¹ / ₂
	With Liner or Factory made System (diameter) <small>installed in accordance with manufacturers instructions</small>	mm	150 [†]	150	150
		inch	6 [†]	6	6
Flue/Chimney Minimum Height*		m	4	4	4
		feet	13	13	13
*When measured from the top of the stove to the top of the flue, with no horizontal sections and a maximum of 4 bends with angles of less than 45°					
† May be 125 (5") if only used for burning smokeless or low volatiles fuel.					

1. FLUE OR CHIMNEY

- 1.1 The construction of the flue or chimney system should meet the requirements of the building regulations with the sizes as shown above.
- 1.2 An approved factory made system suitable for Solid Fuel use, complying with BS 4543: Part 2, may be used when installed to the requirements of BS 7566: Parts 1 to 4, the manufacturer's instructions and the requirements of Building Regulations.
- 1.3 New masonry chimney systems built with clay or concrete liners or pre-fabricated block systems should be constructed in accordance with BS 6461 : Part 1, and the requirements of Building Regulations.
- 1.4 A flexible flue liner system may be used, if it is independently certified for use with Solid Fuel systems, and is installed according to the manufacturer's instructions and the requirements of Building Regulations. If an appliance is being replaced on an existing flexible flue liner system, the liner system should be replaced, unless it can be proved to be recently installed and can be seen to be in good condition.
- 1.5 The flue exit from the building should be positioned to comply with the requirements of the Building Regulations.
- 1.6 Any existing flue should be confirmed as suitable for the new intended use, as defined in the Building Regulations.
- 1.7 Any existing flue or chimney system must be inspected and swept by a NACS registered (UK only) chimney sweep, to confirm that the system is structurally sound and free from any obstructions.
- 1.8 Suitable access should be provided to enable the collection and removal of debris.
- 1.9 Provision should be made to sweep and inspect the flue when the appliance is installed.
- 1.10 No other heating appliances should be connected to, or share, the same Flue or Chimney system.

PRE-INSTALLATION CHECKS

- 1.11 Check the flue draught. This should be done with all windows and doors closed and any extraction fans in this or adjoining rooms running at maximum speed. (See next section for additional ventilation requirements)

Note: A guide containing general information on Chimneys and Flues is obtainable from: -

The British Flue & Chimney Manufacturers' Association,
FETA
2 Waltham Court
Milley Lane
Hare Hatch
Reading
Bucks
RG10 9TH

Tel : - 01189 403416 e-mail :- info@feta.co.uk

- 1.12 Where a hearth, fireplace, flue or chimney is provided or extended (including cases where a flue is provided as part of refurbishment work), information essential to the correct appliance and use of these should be permanently posted in the building, to meet Requirement J4 of the Building Regulations (England and Wales), F3.12 (Scotland).

2. ADDITIONAL VENTILATION

- 2.1 Additional ventilation will be required to comply with the requirements of the Building Regulations. This should 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.

Model				
Brunel 1a - 7008/7008BL/7008LG				
Brunel 2CB - 7051/7051BL/7051LG				
Brunel 3CB - 7053/7053BL/7053LG				
		Brunel 1a	Brunel 2CB	Brunel 3CB
Additional Ventilation	mm ²	0	550	1100
	cm ²	0	5.5	11.0
	ln ²	0	0.85	1.7

- 2.2 Extractor fans or cooker hoods should not be placed in the same room or space as the appliance.
- 2.3 **If any of these checks reveal problems do not proceed with the fitting of the appliance until they have been rectified.**

INSTALLATION INSTRUCTIONS

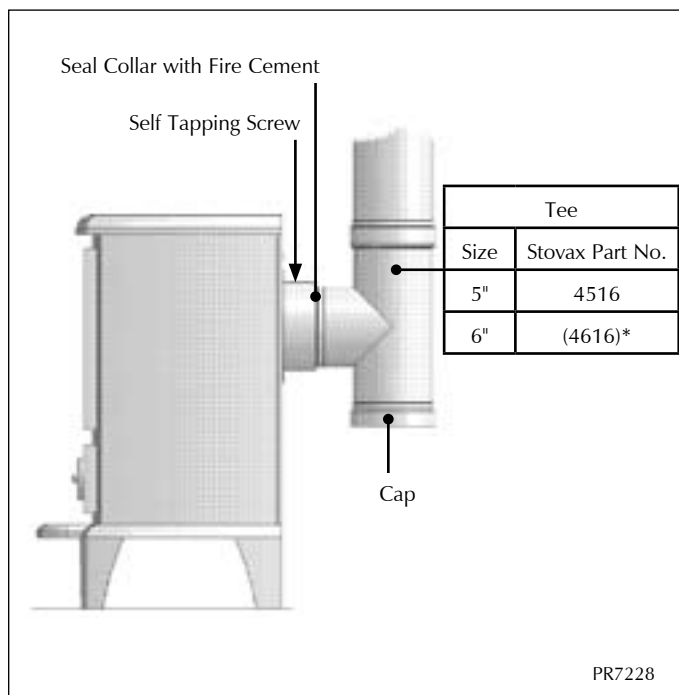
Because each installation is unique to the property, it is not possible to give full details to suit every setting. However, the installation should comply with the requirements of the Building Regulations and be made using "best practice" construction methods.

Remember that many fireplace openings will have a supporting lintel. Do not remove this without making provision to support the remaining structure of the building. The Brunel stove must not form any part of the supporting structure or support the full flue system.

1. INSTALLING THE STOVE

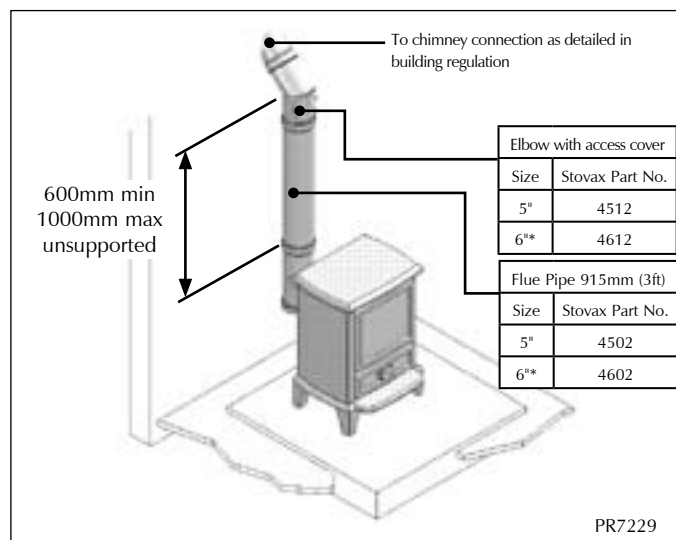
- 1.1 Care should be taken when handling and fitting enamel finish stoves as it is possible to chip the finish with careless handling and use of tools.
- 1.2 Decide if the installation is to be top or rear flue exit, and fit and seal with fire cement, the flue collar and blanking plate in the suitable position.
- 1.3 Lift the stove into position on the prepared hearth area, taking care not to damage the hearth finish. Level stove using foot adjusting bolts.
- 1.4 Connect the stove to the chimney system, using Stovax enamelled flue pipe and seal the connecting joints. Typical top and rear flue connections are shown.

1.5 Rear flue pipe installation

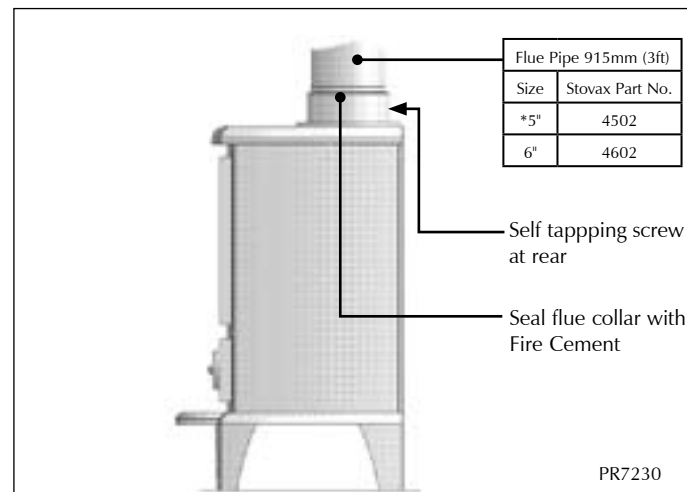


Connect a tee by inserting it into the flue spigot and sealing using fire cement and secure with suitable self tapping screw. The cap supplied with the tee is used as the cleaning access. Do not use a 90° elbow to make this connection.

Typical rear flue installation. Flue to be installed in accordance with flue manufacturers instructions.

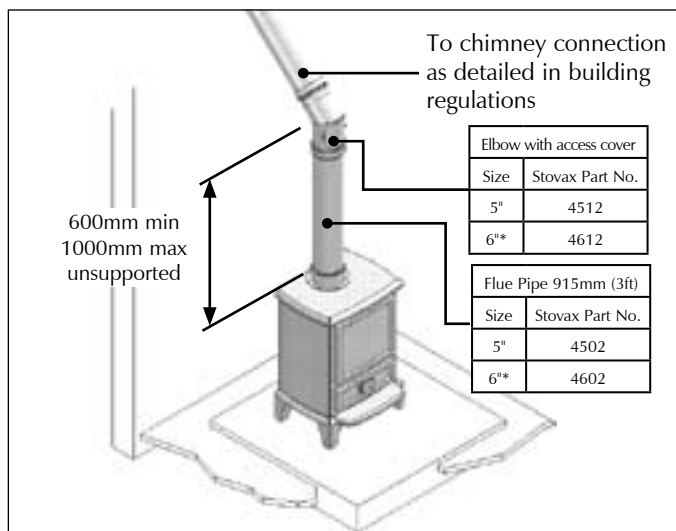


1.6 Top flue pipe installation



- 1.7 Connect a straight piece of flue pipe by inserting it into the flue spigot and sealing using fire cement.

Typical top flue installation. Flue to be installed in accordance with manufacturers instructions.



* Brunel 3CB

MAINTENANCE and SERVICING

If you require more information about Stovax group products visit our web site www.stovax.com

When using the stove for the first time it is best to burn the fire at a low output for the first day of use. This will allow the new seals to settle and all new fixing glues and paint to fully cure.

1. FITTING & REMOVAL OF BAFFLE (BRUNEL 1A ONLY)

- 1.1 To maintain efficient combustion, the stove is fitted with a baffle in the top of the firebox.
- 1.2 Allow the stove to cool fully before removing the baffle system.
- 1.3 To remove baffle, lift & pull baffle as far forward as possible. Remove side brick, pulling base of brick towards centre of stove. Repeat other side and remove baffle.
- 1.4 The replacement of the system is the reverse of the previous operations, ensuring it is replaced the correct way around.
- 1.5 It is important to remove and clean the Baffle System to ensure the flue ways are clear of soot and debris and to ensure the safe and efficient operation of the stove. The frequency of cleaning will depend on the stove operating conditions.
- 1.6 The baffle system is designed to give safe and efficient operation of the stove.
- 1.7 Replace any damaged baffles immediately.
- 1.8 Do not modify the baffle system.

2. FITTING & REMOVAL OF FIREBRICKS (BRUNEL 1A ONLY)

- 2.1 As part of the routine maintenance of the stove you may have to remove the firebricks from the stove. This can be carried out without the use of tools.
- 2.2 Allow the stove to cool fully before removing firebricks.
- 2.3 To remove Firebricks, lift & pull baffle as far forward as possible. Remove side brick, pulling base of brick towards centre of stove. Repeat other side and remove baffle.
- 2.4 Care should be taken when handling bricks, as they can become fragile after a period of use. This is nominal and the life will depend on the type of fuels burnt and the level of use.
- 2.5 Damaged bricks should be replaced as soon as possible.

3. FITTING A NEW DOOR GLASS

- 3.1 To maintain the safe use of your stove you may need to replace a damaged door glass. To complete this operation, use this method.
- 3.2 Remove the door from the stove, by opening, removing the hinge pins and lifting the door free of the hinge blocks. Then lie the door face down on a soft flat surface, to protect the paintwork and glass.
- 3.3 Using a screwdriver remove the glass clip fixing screws. The old glass can then be lifted clear of the door. (Note how the 3mm sealing rope is placed between the glass and the door.) Remember to dispose of the old glass safely.
- 3.4 Clean and re-paint the rear of the door if required. Clean the screws with light oil and coat with high temperature anti-seize grease, this will aid future removal.
- 3.5 Fit a new sealing rope between the new glass and the door, and place the glass into position in the door. Place the glass fixing clips in to position and re-fix with the clean fixing screws, tighten the screws evenly until the clips hold the glass. Do not over tighten the clips as this could break the glass.
- 3.6 Fit only original Stovax ceramic glass, which is suitable to use in high temperature applications.
- 3.7 Using the stove with a damaged door glass could cause dangerous fumes to enter the room, or the stove to overfire, resulting in damage.

4. FITTING A NEW DOOR SEAL

- 4.1 To maintain the safe use of your stove you may need to replace a damaged or worn door sealing rope. To complete this operation, use this method.
- 4.2 Remove the door from the stove, by opening, removing the hinge pins and lifting the door free of the hinge blocks. Then lie the door face down on a soft flat surface, to protect the paintwork and glass.
- 4.3 Remove the old rope and scrape old glue from the locating groove. Clean the locating groove with a clean dry cloth to remove all old dust and debris.
- 4.4 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 lower edge of the door.
- 4.5 Refit the door and close the door to apply pressure to new rope. Leave the stove closed for at least 12 hours before lighting the stove and using at a low output for approximately one day.
- 4.6 Using the stove with a damaged door seal could cause dangerous fumes to enter the room, or the stove to overfire, resulting in damage.

COMMISSIONING

- 1.1 Check that the firebricks, baffle, and log retainer are undamaged and correctly fitted, if parts have been removed during fitting.
- 1.2 Inspect the door seals for damage and check the operation of the air controls.
- 1.3 Carry out a final smoke draw test, by first warming the flue with a blowlamp, or similar, for about 10 minutes. Then place a smoke pellet on the centre of the grate, with the air controls open, and close the door. Smoke should now be drawn up the flue and be seen to exit from the flue terminal. This test should be completed with all doors and windows in the room where the stove is fitted closed. Should this test fail the suitability of the flue system and ventilation should be re-checked.
- 1.4 Light the appliance and gently allow the temperature to increase slowly to operating levels. Check that no combustion products are entering the room. When the stove has reached a steady operating condition open the main fire door and carry out a spillage test with a smoke match or pellet around the door opening.
- 1.5 If excessive spillage does occur allow the appliance to cool and re-check the suitability of the flue system and ventilation.
- 1.6 Explain the safe operation of the stove and the use of the controls to the user, along with the need to only use suitable fuels. Also, explain the cleaning and routine maintenance requirements.
- 1.7 Explain the requirement to use a suitable fireguard when children, elderly or infirm persons may be near the appliance.
- 1.8 Record dealer/supplier details and installer details in user instructions.
- 1.9 Record serial number in user instructions. This number will be required when ordering spare parts and making warranty claims.
- 1.10 Give the copy of the user instructions to the customer.

NOTES

