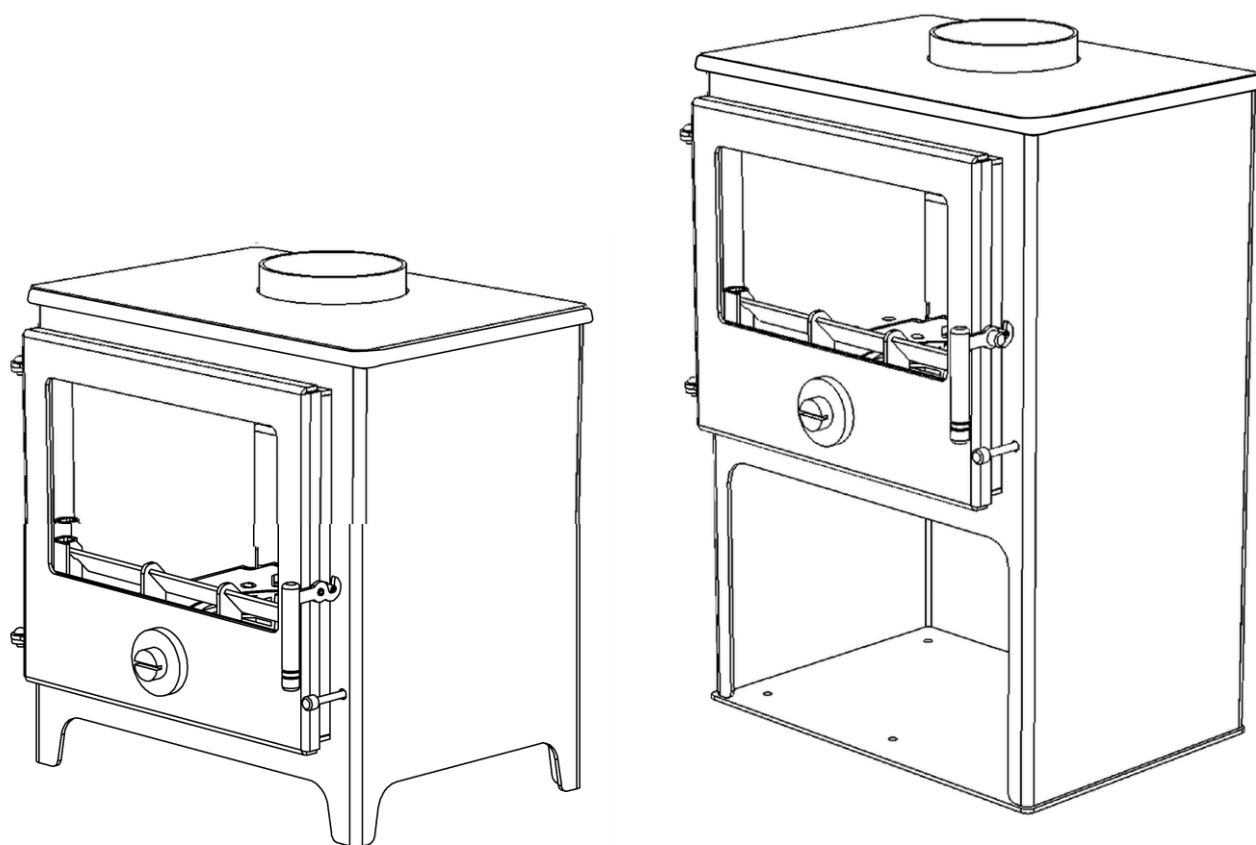


Mendip 8 standard and pedestal stove

**Multi-fuel, Wood, Smoke control model
8.3kW / 7.7kW Space Heating Stove**



OPERATION, INSTALLATION, COMMISSIONING & SERVICING INSTRUCTIONS

**Please read these instructions carefully before installing,
commissioning and using this appliance.**

To be retained by the householder

HEALTH AND SAFETY

INFORMATION FOR THE USER, INSTALLER AND SERVICE ENGINEER

Under the Consumer Protection Act 1987 and the Health and Safety at Work Act 1974, it is a requirement to provide information on substances hazardous to health (COSHH Regulations 1998).

Mendip Stoves takes every reasonable care to ensure that its products are designed and constructed to meet these safety requirements when the products are properly installed and used. To fulfil the requirements, products are comprehensively tested and examined before despatch. When working on the appliance, it is the responsibility of the user or engineer to ensure that personal protective clothing or equipment—appropriate to parts that could be considered hazardous or harmful—is worn. This appliance may contain some of the items below:

Insulation and Seals

Glass rope, mineral wool, insulation pads, ceramic fibre, glass insulation.

When handling, avoid inhalation and contact with eyes. These may be harmful and cause irritation to the skin, eyes, nose or throat. Use disposable gloves, facemasks and eye protection.

After handling, wash hands and other exposed areas. When disposing of materials, limit dust and the risk of inhalation by using a water spray. Ensure materials are securely wrapped.

Seek urgent medical attention if inhaled or ingested. Exposure to eyes and skin should be followed by immediate cleansing of the affected areas and medical attention if necessary.

Glues, Sealants and Paints

The glues, sealants and paints used present no known hazards when the appliance is used in the manner for which it is intended.

Asbestos

If there is a possibility of disturbing any asbestos in the course of installation e.g. in older properties, then please seek specialist guidance and use the appropriate protective equipment.

Metal Parts

When installing or servicing this stove care should be taken to avoid the possibility of personal injury.

CO Alarms:-

Building regulations require that whenever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling a carbon monoxide alarm must be fitted in the same room as the appliance. Further guidance on the installation of the carbon monoxide alarm is available in BS EN 50292:2002 and from the alarm manufacturer's 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 and chimney system.

Stove paint Aerosols

Paint aerosols are flammable and therefore dangerous to use around a lit stove. Be sure to allow aerosols spray paints to dry and ventilate the room well before lighting the stove. The use of any aerosol around lit stove is dangerous and care must be taken in handling aerosols.

IMPORTANT: These instructions cover the basic principles to ensure the satisfactory installation of Mendip 5 Stoves, although detail may need slight modification to suit particular local site conditions. In all cases the installation must comply with current Building Regulations, Local Authority Byelaws and other specifications or regulations as they affect the installation of the stove. It should be noted that the Building Regulations requirements may be met by adopting the relevant recommendations given in British Standards BS 8303, BS EN 15287 as an alternative means to achieve an equivalent level of performance to that obtained following the guidance given in Approved Document J.

INTRODUCTION

The Mendip Multi-fuel stove has been designed and constructed to give years of trouble-free domestic space heating. These instructions are provided to assist you in obtaining the best performance with the least trouble and cost.

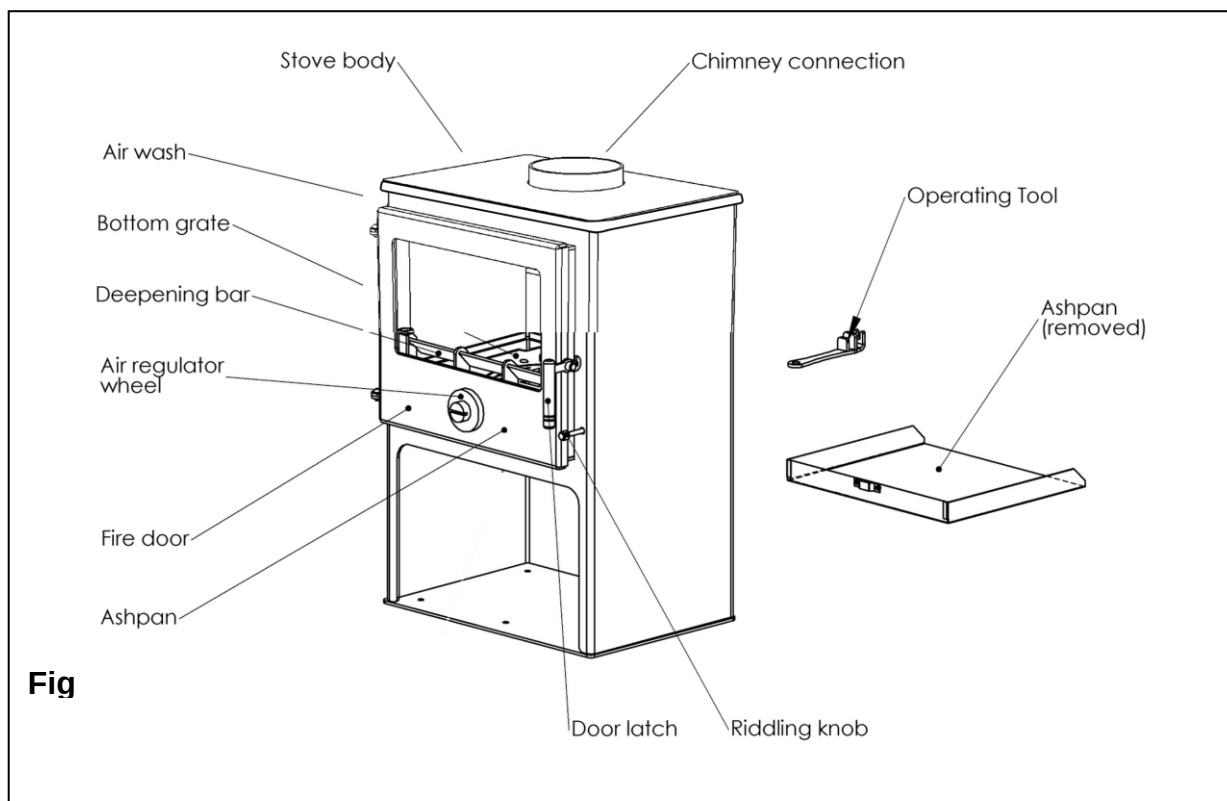
To help us provide the highest levels of customer service, it is important that the registration card is completed in full and returned. To ensure you have a clear understanding of the appliance, please take the time to read these instructions.

The stove must be installed by a qualified engineer. Routine cleaning can be carried out by the end user, but the stove should be fully serviced, and the chimney swept, on an annual basis by an approved engineer. Keep all ventilation installed for use with the stove open and clear of obstructions.

Do not put combustible materials close to the stove. Its surface will become very hot during burning, so a suitable fireguard should be used. Some household items, such as photographs, paintings or television screens, may be susceptible to damage from rapidly-fluctuating air temperatures; as such, do not place them above the stove area, where high-temperature air will circulate.

Do not use third-party spares with the appliance, or make unauthorised modifications to its design. The stove must not share a chimney with another appliance.

CONTENTS	Page no.
Operation	5
Using the stove	4–6
Recommended fuels	6–7
Troubleshooting and maintenance	9-10
After-sales advice	9
Installation	11
Regulations / Health & safety / Preparation	11
Siting	11
Technical details	12
Chimneys / flues	14
Air supply	14
Commissioning	15
Servicing	15
Procedure	15
Spares	16



OPERATION

Suitable fuels

Your stove is tested to burn wood or registered smokeless coal. Wood briquettes can also be burnt but special account should be taken of fuel weight. For a full list of suitable fuels, check with the official solid fuels approvals body, HETAS or Solid Fuel Association. Do not overload stove as this can cause excessive heat and damage the stove

ALWAYS KEEP FUEL LOAD BELOW TERTIARY PORTS AT REAR OF STOVE.

Only use fuels approved for use on heating stoves.

Do not burn liquid fuels, drift wood, finished wood, sawn wood, pallet wood, chipboard/plywood, varnished wood or plastic coated wood, wood treated with preservatives, or any house hold waste.

DO NOT EXCEED SPECIFIED FUEL WEIGHTS.

DO NOT BURN HOUSE COAL. DO NOT BURN HOUSEHOLD WASTE, THIS APPLIANCE IS NOT AN INCINERATOR.

MENDIP STOVES RECOMMEND THE USE OF A FLUE THERMOSTAT TO CHECK YOUR STOVE IS NOT OVERHEATING. PLACE FLUE THERMOSTAT DIRECTLY ABOVE COLLAR OF STOVE AND REFER TO TEMPERATURE GAUGE ON PAGE 11.

Before using the stove, check that the chimney is clear and has been confirmed for soundness. Operate the stove at low outputs for the first few days for glue and paint curing; some odours may be given off during this time, so keep the building well ventilated. Your stove will become very hot when it is running and so should not be touched with bare hands. A operating tool and a glove are provided for operation of the stove when hot.

Wood

Do not burn waste wood, pre-cut sawn timber, pallet wood or any treated timber. Do not over load your stove.

Wood should be split and dry with moisture content of around 20%.

- Place a liberal amount of paper or nontoxic firelighters; add small pieces of wood kindling. Place two smaller logs on top and light. Chemicals or fluids should not be used to start the fire.
- For lighting set the primary air regulator wheel to maximum and the secondary air wash to 100%. To prevent condensation build-up, leave the door partially open until the glass has warmed.
- Once fire has established close fire door, allow fire to achieve optimum heat and close primary air regulator wheel. Close Secondary air slider to 50%.
- To reload – open primary and secondary air controls to 100%, open door slowly and load two small split logs weighing 1.4kg approx. Close door fire door fully and allow the stove to burn at maximum output for a few minutes before re-setting the air to the operational level.
- For best efficiency, close the primary air regulator wheel and control the burning rate with the secondary air wash.
- Firing the stove at very low outputs for long periods will increase creosote build-up and reduce the effectiveness of the air wash.

To add fuel:

- Open the locked fire door with the operating tool and rake the embers over the fire bed.
- Turn the air wash to fully open; this will establish a bed of hot fuel, onto which new logs can be placed. Load two small split logs weighing 1.4kg approx. Close door fire door fully and allow the stove to burn at maximum output for a few minutes before re-setting the air to the operational level

The stove should be allowed to burn at maximum output for around 30 minutes per day; this will help prevent creosote build-up.

Solid fuels

Note: on cold days it may be necessary to warm the flue using two firelighters.

Procedure:

- Place firelighters, or a liberal coating of kindling material (wood/paper, light paper) among a small quantity of fuel in the combustion chamber.
- After lighting, set the air regulator wheel to maximum and the air wash to about 50%. To prevent condensation build-up, leave the door partially open until the glass has warmed.
- With the fire established, open the fire door and fill the combustion chamber to the top of the front grate, sloping upwards to the rear of the chamber.
- Close the fire door and ensure it is locked. For best efficiency, set the air wash to about 25% and control burning using the air regulator wheel.

Excess clinker formation may indicate over firing.

- For overnight or daytime slow burning, set the air regulator wheel to be open by one full turn. Experience will determine the settings that produce best results.

When refuelling, first de-ash the fire bed:

- Riddle the bottom grate by engaging the operating tool on the riddling knob. Pull and push sharply for about 10 strokes, after which the fire should be free of ash.
- Open fire door and use the tool to remove the ash pan.
- Empty the ash-pan at regular intervals; do not allow ash to accumulate to the level of the bottom grate, as it may become damaged over time.
- The presence of shale, stone or clinker in the fire bed will reduce burning rates; to remove, rake the fire upwards with a poker to bring the material to the top, where it can be removed with tongs.

To add fuel:

- Turn the air regulator wheel to fully open; this will establish a bed of hot fuel, onto which new fuel can be placed.
- Allow the stove to burn at maximum output for a few minutes before setting the air regulator wheel to the desired position.

The stove should be allowed to burn at maximum output for around 30 minutes per day.

Disposal of ashes

The periodic removal of ashes will be required; the time between de-ashings will be determined by the type of fuel used and how much the stove is used. Solid fuel ash will need to be removed more frequently than wood ash.

When burning solid fuel, allow the fire to burn low or go out before removing the ash pan using the tool provided.

When burning wood, allow the fire to go out and cool before removing the ash pan using the tool provided

Ashes should be placed in a non-combustible container. Before the ashes are disposed of, ensure they have thoroughly cooled. Ashes may contain dormant coals, which can burn for several hours after a recognisable flame has disappeared. No other waste should be placed in the container. Use extreme caution when handling and disposing of ashes.

Safety advice

Always use a BS 8423: 2002 approved fireguard where there is danger of contact between the stove and vulnerable persons, especially children.

Occasionally, fumes may be detected during refuelling and de-ashing, but during normal running the stove should not emit fumes into the room being heated.

FUELS

Manufactured and natural smokeless fuels are recommended for use with the stove. For a full list of suitable fuels, check with the official solid fuel approvals body, HETAS, or the Solid Fuel Association. Only use fuels approved for use with closed heating stoves. Refer problems about fuel quality or suitability to the fuel supplier.

Do not burn liquid fuels, driftwood, manufactured logs (e.g. compressed wood), varnished or plastic-coated wood, pallet wood, wood treated with preservatives, or household waste.

Smokeless fuel

The stove is suitable for use with manufactured and natural smokeless fuels that have been approved for use with closed heating stoves. Never use Bituminous coal or petroleum coke.

Wood burning – types of wood

The stove will burn most well-seasoned softwoods and hard woods. Softwoods are usually easier to light than hard woods, but the latter will produce less ash, soot and creosote residue, and will burn for longer. Types of hard wood include beech, ash and oak.

Ensure wood has been seasoned correctly. Seasoning can take up to 18 months, depending on the tree species, when it was felled, and the drying conditions. Logs can have their seasoning accelerated by being forced dried in a kiln.

The thermal value of wood depends on its moisture content. As the moisture content increases, the useful energy derived from its burning decreases. This is because energy is used to drive off the excess moisture. Ensure the wood has a moisture content of less than 20%. Assuming 20% moisture content, 1 kg of wood will have a thermal value of about 4 kWh.

Wood that has not been split and left for a period will contain more moisture. This will reduce the efficiency of the appliance and result in higher fuel consumption. Wood that contains too much moisture also produces more steam and may contribute to incomplete combustion. This can lead to an excess of creosote build-up.

Mendip 8 SE- Smoke exempt appliance.

The Clean Air Act 1993 and Smoke Control Areas

Under the Clean Air Act local authorities may declare the whole or part of the district of the authority to be a smoke control area. It is an offence to emit smoke from a chimney of a building, from a furnace or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an "unauthorised fuel" for use within a smoke control area unless it is used in an "exempt" appliance ("exempted" from the controls which generally apply in the smoke control area).

The Secretary of State for Environment, Food and Rural Affairs has powers under the Act to authorise smokeless fuels or exempt appliances for use in smoke control areas in England. In Scotland and Wales this power rests with Ministers in the devolved administrations for those countries. Separate legislation, the Clean Air (Northern Ireland) Order 1981, applies in Northern Ireland. Therefore it is a requirement that fuels burnt or obtained for use in smoke control areas have been "authorised" in Regulations and that appliances used to burn solid fuel in those areas (other than "authorised" fuels) have been exempted by an Order made and signed by the Secretary of State or Minister in the devolved administrations.

The Mendip 8 SE has been recommended as suitable for use in smoke control areas when burning wood. SE models have a modified secondary air control, only SE models are suitable for burning wood in a smoke control area. Further information on the requirements of the Clean Air Act can be found here: <http://smokecontrol.defra.gov.uk/> . Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirements

Refuelling on to a low fire bed

If there is insufficient burning material in the fire bed to light a new fuel charge, excessive smoke emission can occur. Refuelling must be carried out onto a sufficient quantity of glowing embers and ash that the new fuel charge will ignite in a reasonable period. If there are too few embers in the fire bed, add suitable kindling to prevent excessive smoke

Fuel overloading

The maximum amount of fuel specified in this manual should not be exceeded, overloading can cause excess smoke.

Operation with door left open

Operation with the door open can cause excess smoke. The appliance must not be operated with the appliance door left open except as directed in the instructions.

Dampers left open

Operation with the air controls or dampers open can cause excess smoke. The appliance must not be operated with air controls or dampers door left open except as directed in the instructions

Wood burning – storage

When wood has been cut to an appropriate length and split, it should be stored in a dry area. Stack the logs to expose both ends to the air, as more drying occurs from the ends than the sides. This holds even for wood that has been split. The woodpile should be under cover to prevent its absorbing moisture from rain or snow, but should still be open on the sides to be subject to the drying effect of sun and wind. Do not store the wood within the installation clearances of the appliance, or within the space required for loading or ash removal.

To reduce the impact on the environment, select a local supplier as this reduces the energy required to transport the fuel. Where possible, ensure wood comes from a sustainable source. Buy logs by volume rather than weight, as the influence of moisture content is removed from the calculation.

Wood burning – creosote build-up

Wood combustion is never 100% complete; wood smoke always contains some unburned material. A little of this will condense on a cool surface, leaving a dark brown or black substance that has an acrid odour. This substance is commonly called creosote. If the exhaust gases condense on cool surfaces such as a cold chimney, they will retain large amounts of water. At higher temperatures, the condensed creosote will resemble tar.

Creosote generation is highest during low heat outputs common with long, smouldering burns. Creosote generation is lowest during high heat outputs common with intense fires. For best results against creosote build-up, it is recommended that a small, intense fire be used, even though refuelling may need to take place more often. Creosote generation is also higher when burning wood with a high moisture content, such as green wood. The moisture in the wood absorbs heat from the fire, cooling it below the point at which the creosote can be consumed. The low-temperature smoke is then cooled further in the chimney.

To reduce the likelihood of creosote build-up during periods of low heat demand, it is recommended to fuel the boiler with lower quantities of smaller diameter logs. Matching fuel loads and heat requirements will result in cleaner combustion and higher efficiency.

WARNING NOTE

Properly installed, operated and maintained this stove will not emit fumes into the dwelling. Occasional fumes from de-ashing and re-fuelling may occur. However, persistent fume emission is potentially dangerous and must not be tolerated. If fume emission does persist, then the following immediate action should be taken:-

- (a) Open doors and windows to ventilate the room and then leave the premises.
- (b) Let the fire go out.
- (c) Check for flue or chimney blockage and clean if required
- (d) Do not attempt to relight the fire until the cause of the fume emission has been identified and corrected. If necessary seek expert advice.

The most common cause of fume emission is flueway or chimney blockage. For your own safety these must be kept clean at all times.

If a fire occurs in the chimney, immediately close the air regulator wheel and air wash to cut off the fire's oxygen supply. Evacuate the building and call the fire services; do not use the stove until it has been certified safe by a qualified HETAS engineer, any necessary repairs have been made, and the chimney has been swept. If smoke collects inside the building, close the air regulator wheel and air wash. Open windows and doors to allow the smoke to escape. Do not use the stove until the source of the problem has been repaired.

Fuel quality

Poor quality fuel can lead problems lighting the stove or maintaining a steady burning rate, poor flame with excess smoke, excess dirt build-up, or staining, on the glass and inside the combustion chamber, and reduced life spans for the internal components, such as fire bricks and bottom grate.

When burning wood, in addition to the above, wet fuel may cause excess creosote build-up in the flue and discoloured chimney smoke.

Flue draught

The flue must operate under pressure—that is, there should be a constant "pull" up the chimney to allow the hot flue gases to escape safely. The flue draught can be affected by structures that are too close to the flue termination, extreme winds extreme temperatures, incorrect combustion air, a blocked flue or incorrectly- sized flue. Ensure the required ventilation openings are kept permanently free of obstructions.

If fuel consumption is too high or overheating occurs, these may be caused by excessive flue draught. If the fire will not light or maintain a steady burning rate, if the heat output is too low, or smoke remains in the combustion chamber, these may be caused by inadequate flue draught.

Blow-back

Blow-back—small explosions that force air through the fire door seals or air controls—is caused by inadequate combustion air; for example, if the door is closed too early or the air regulator wheel and air wash are not open wide enough after adding new fuel.

CO Alarm

Your installer should have fitted a CO alarm in the same room as the appliance. If the alarm sounds unexpectedly, follow the instructions given under the section above "WARNING NOTE."

Caring for the stove finish

Enamel

The Vitreous enamel finish on your stove is very hardwearing and easy to clean, to clean ensure stove is cold and use warm soapy water and damp cloth to wipe surfaces, ensure the surface is thoroughly dried after cleaning. Do not attempt to clean when the stove is warm as liquids can cause thermal shock which will result in cracks or chips on the surface.

When operating the stove, bring the stove gently to operating temperature and ensure the stove is not over heated (use a flue thermostat and monitor temperatures given in this manual).

Enamel parts subjected to abnormally high temperatures or thermal shocks, result with chipping, cracking, bubbling, discolouration and crazing of the porcelain or enamel surfaces.

Paint finish

The paint finish on your stove is a high quality lacquer finish; to clean you stove ensure the stove is cold. Vacuum or brush the external face of the stove. A dry lint free cloth can also be used. Do not use a damp cloth as this can cause corrosion.

MAINTENANCE

Before cleaning the stove, ensure it has fully cooled. Routine maintenance can be carried out by the end user. The throat plate should be removed and cleaned monthly. The flue pipe can be cleaned by using a flexible brush. Only use a damp sponge for external surfaces. Over time, the fire door glass may become dirty; to clean, wipe with a damp cloth and polish with a dry one.

The chimney should be swept at least once a year for smokeless fuels and a minimum of twice a year for wood.

Where the chimney is believed to have served an open fire installation it is possible that the higher flue gas temperature from a closed appliance may loosen deposits that were previously firmly adhered, with the consequent risk of flue blockage. It is therefore recommended that the chimney be swept a second time within a month of regular use after installation.

The stove should be fully serviced and the chimney swept on an annual basis by qualified engineers.

It may eventually become necessary to re-coat the matt black external surfaces of the stove; always use a paint or spray specifically designed to withstand high temperatures.

The ideal time for servicing is just after the end of the heating season, as the stove will not be in use. While dormant, the stove should be emptied of ash and fuel, and left with the air regulator wheel and air wash open; this will help prevent condensation build up, which can reduce the stove's life expectancy. The interior can be sprayed with anti-corrosion treatment—e.g. WD40—to provide further protection. After a prolonged shutdown, the flue should be checked for blockages before use.

Do not modify the appliance; only use spares authorised by the manufacturer.

AFTER-SALES SERVICE INFORMATION

A qualified field service engineer is available to attend a breakdown occurring during the stove's guarantee period.

The stove must be made available for attendance during normal working hours, Monday to Friday.

How to report a fault

Step 1

Contact your installation or service engineer, who should assess the unit and works carried out on the appliance prior to requesting the attendance of an engineer.

Step 2

Please note that upon attendance by an engineer, a charge will be made where:

- The engineer finds no fault with the stove.
- The cause of the breakdown is due to parts of the system not supplied by the manufacturer.
- The cause of the breakdown is due to incorrectly fitted spare parts, or third-party spares not designed for use with the stove.
- The appliance has not been installed and commissioned by a qualified engineer as described in these instructions.
- The stove has not been serviced annually since installation.
- The breakdown occurs outside the guarantee period.
- The appliance has not been maintained correctly.
- The breakdown occurs due to use of the appliance not sanctioned by these instructions.
- The breakdown occurs as a result of work on the appliance by an unauthorised third party.

Important:

Invoices for attendance and repair work by any third party will not be accepted unless authorised in advance.

Technical Assistance

A team of trained technical advisors is available to discuss any problem with the appliance. In many cases, the problem may be solved over the telephone, eliminating the need for an engineer's visit.

Before making contact, please have the following information ready:

- The appliance serial number or your unique customer identification number (issued upon registration of the appliance). The serial number is located on the rear heat deflection panel on the rear of the stove.
- A description of the fault and any unusual behaviour by the appliance before the failure occurred.
- The installation and commissioning dates, and the details of any annual services.

Important note:

Over 50% of all service calls are found to have no appliance fault.

Appliance Serial No.: _____

Cust. ID No.: _____

Installation Date: ____/____/____

Service and Technical Support

Tel: 01934 750500

Hours of Business

Monday–Thursday: 8:30am – 17:00pm

Friday: 8:30am – 14:30pm

Trouble shooting

1. Fire Will Not Burn - check

- a) the air inlet is not obstructed in any way,
- b) that chimney and flue ways are clear,
- c) that a suitable fuel is being used,
- d) that there is an adequate air supply into the room,
- e) that an extractor fan is not fitted in the same room as the fire.

2. Fire Blazing Out Of Control - check

- a) the doors are tightly closed,
- b) the air controls are turned down to the minimum setting,
- c) the flue damper is closed (if fitted),
- d) a suitable fuel is being used,
- e) the door seals are in good condition.
- F) the chimney draft may be too strong
- G) check ash pan seal and
- H) check for ash below ash pan causing pan to seat incorrectly and clean out.

3) Soot forms on the window

- a) The firewood may be too wet
- b) the intake of secondary air may be insufficient
- c) fire not hot enough

4) The stove fails to heat fully

- a) The firewood may be too wet
- b) the intake of secondary air may be insufficient

5) Smoke or odour

- a) weak chimney draft
- b) check for blockages in the flue pipe/chimney
- c) check the height of the chimney relative to the surroundings

6) Soot in the chimney

- a) The firewood may be too wet
- b) intake of secondary air may be insufficient.

INSTALLATION

Regulations

The Mendip Multi fuel must be installed by a competent person, preferably HETAS registered. Follow the requirements of all relevant Building Regulations. The installation must comply with all other local, national and European regulations and standards that may apply. Where the regulations conflict with information in this manual, follow the advice of the former.

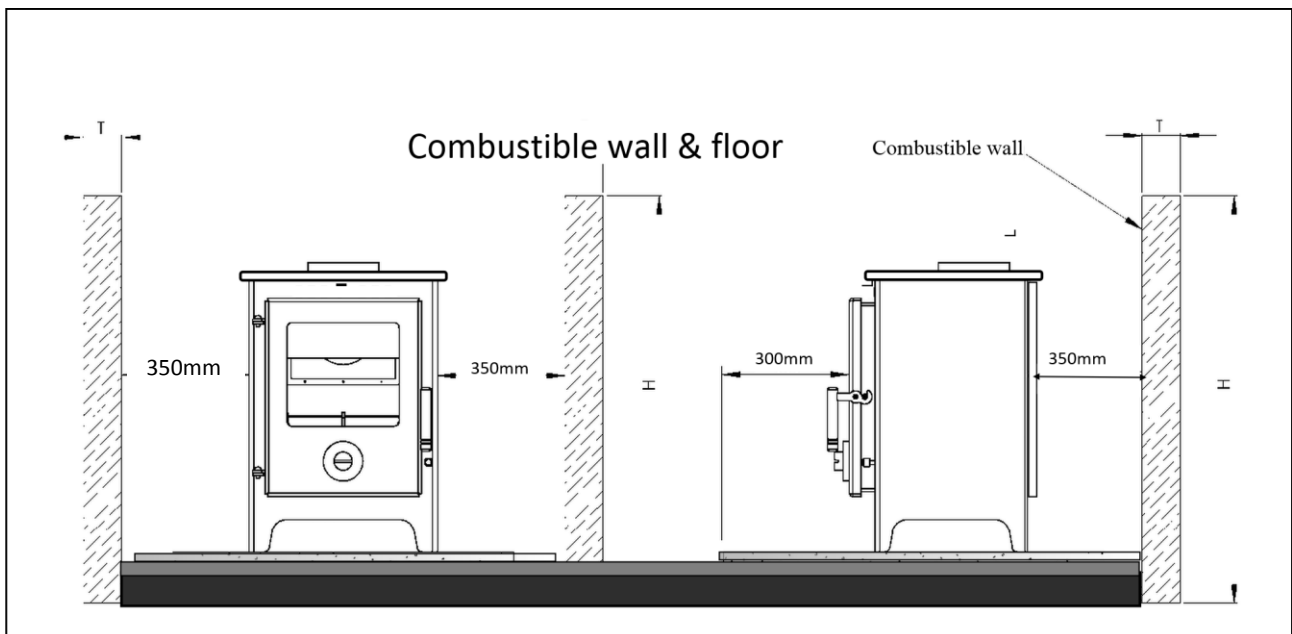
The installation engineer should be aware of his or her responsibilities under the Health and Safety at Work Act and provide—where necessary—appropriate protection for all persons carrying out the installation.

Asbestos

If there is a possibility of disturbing any asbestos in the course of installation e.g. in older properties, then please seek specialist guidance and use the appropriate protective equipment.

Preparation

Before assembling the stove, ensure all packaged parts have been removed from inside. Inspect the stove to ensure no damage has occurred during transit. Ensure all parts have been provided.



Siting

Before installation, ensure the building has a load bearing rating sufficient for the stove's weight. Suitable measures (e.g. a load distributing plate) should be taken if inadequate. The stove can be placed on a non-combustible hearth or a combustable floor with 12mm non-combustible hearth; please that hearth adheres to the clearances set out in this manual.

The stove can be installed in a recess if the hearth is level and, with the adjacent walls, conforms to current Building Regulations. The size of the recess is determined by the types of material used.

Always leave access for future cleaning and servicing of the stove, flue socket and flue.

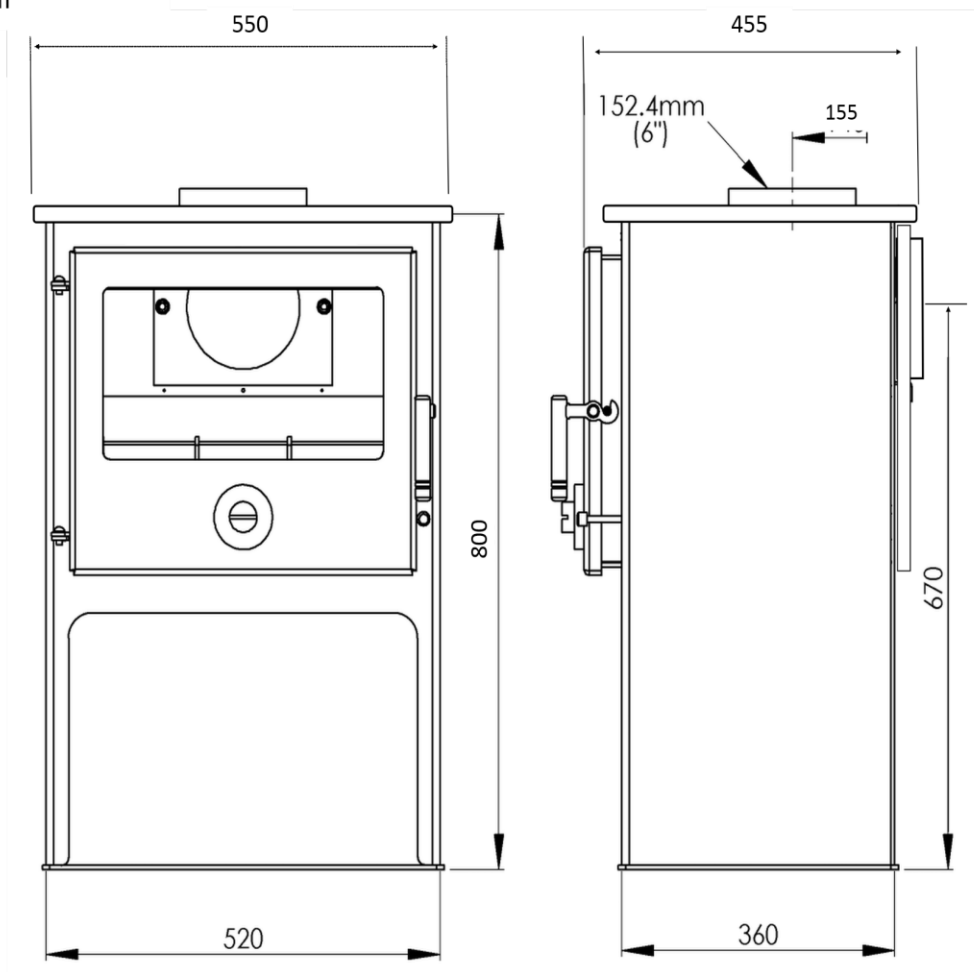
The stove, recess hearth and chimney installation should conform to relevant British Codes of Practice, BS 8303, BS EN 15287-1: 2007.

TECHNICAL SPECIFICATION

	Smokeless Fuel		Wood	
Recommended Fuels	Smokeless solid fuel for closed appliances		Seasoned wood with <20% Moisture content	
	STD	PEDESTAL	STD	PEDESTAL
Recommended Refuelling Interval	4 hours	4 hours	1 hour	1 hour
Nominal Output	7.7 kW	7.7 kW	8.3 kW	8.3 kW
Efficiency	66.9%	66.9%	75.1%	75.1%
Weight (empty)	115 kg	115 kg	115 kg	115 kg
Dimensions (H x W x D)	560 x 550 x 455	800 x 550 x 455	560 x 550 x 455	800 x 550 x 455
Flue Socket	152.5mm (6")	152.5mm (6")	152.5mm (6")	152.5mm (6")
Flue Gas Temperature (at outlet)	382°C	382°C	309°C	309°C
Flue Draught Requirement	0.04-0.06 in WG	0.04-0.06 in WG	0.04-0.06 in WG	0.04-0.06 in WG
Flue draught (nominal output)	0.048 in WG	0.048 in WG	0.048 in WG	0.048 in WG
Flue gas mass flow	9.0 g/s	9.0 g/s	6.4 g/s	6.4 g/s
Hearth (W x D x T)	820 x 865 x 125	820 x 865 x 125	820 x 865 x 125	820 x 865 x 125
Minimum Distance To Combustibles	Rear 350mm Sides 350mm	Rear 350mm Sides 350mm	Rear 350mm Sides 350mm	Rear 350mm Sides 350mm

Mendip stoves Ltd recommend the use of a flue thermostat to monitor combustion temperature and ensure quality combustion process.

All dimension in mm



All dimensions in mm

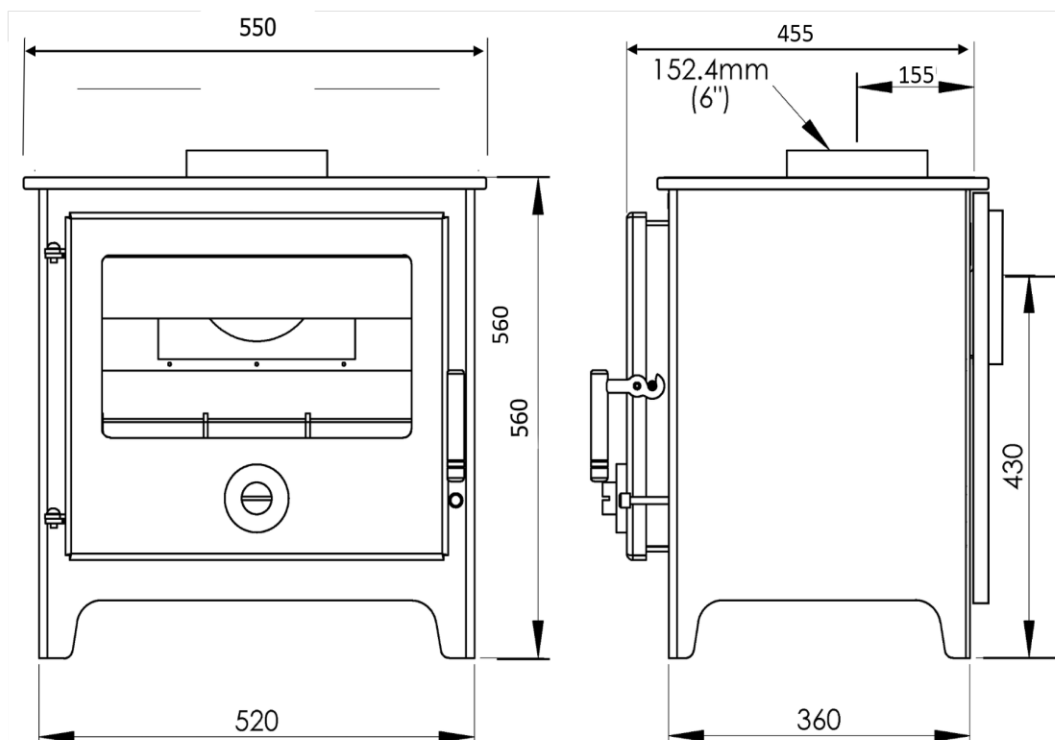


Fig 4

Chimney

For correct operation of the stove, the height of the chimney from its base should not be less than 4.5m and it should terminate above the roof in accordance with current Building Regulations. All requirements as outlined in BS EN 15287-1:2007. Failure to observe the recommended minimum sizes or methods of flue connection may lead to fume emission and reduce burning rates. The diameter of the connecting flue and chimney should at no point narrow to less than the diameter of the appliance flue outlet.

When fitting the stove to an existing chimney, its internal and external condition should be checked before the appliance is installed. The chimney must be swept before installation. The flue must be stable and free from all jointing compounds.

Ensure a new chimney is free of internal projections, such as jointing compounds, before installing the appliance. The stove must not share a chimney with another appliance.

When using a factory-made insulated chimney, it must comply with BS 4543 Parts 1 and 2. The recommended diameter is 150mm; contact the chimney manufacturer for further advice.

After deciding whether to use the top or rear exit on the stove, fit the flue socket plate and blanking plates in the required positions, ensuring a good seal is made with fire cement or similar. When using the rear exit, always use an appropriate tee; a 90° elbow should not be used.

Advise the end user to have the chimney thoroughly swept at least every twelve months. If bituminous coal or wood is used, the chimney may require more frequent sweeping.

Flue layout

If the stove is installed in an existing recess directly below a chimney flue, the exhaust end of the flue pipe must extend into the throat of the chimney, at least 150mm into the overhanging brickwork. Any cavities or pockets above the throat plate should be filled.

If the stove is connected via flue pipe to an existing brick chimney, square bends and horizontal runs must not be used. A cleaning door must be included at every bend.

Avoid extended horizontal flue runs. Whichever method of installation is used, air must not be allowed to enter the chimney, save through the stove; all joints must be airtight. If the chimney is unlined and there is doubt as to its condition, it should be lined in accordance with current Building Regulations.

Provision must always be made for sweeping the chimney. Cement pipes and fittings must not be used within 2m of the stove outlet. Plain pipe chimneys are not recommended, but propriety makes of insulated chimneys may be suitable; refer to manufacturers' guidance.

CO Alarms

Building regulations require that whenever a new or replacement fixed solid fuel or wood biomass appliance is installed in a dwelling a carbon monoxide alarm must be fitted in the same room as the appliance. Further guidance on the installation of the carbon monoxide alarm is available in BS EN 50292 :2002 and from the alarm manufacturer's 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 and chimney system**

Air supply

A permanent, unobstructed air vent is required. It must communicate directly with the outside or an adjacent room which itself has a permanent air vent. The vent must have a minimum effective area of 550mm² per kW of rated output above 5kW. Position the vent in a place not liable to accidental blockage.

Extractor fans

If an extractor fan is located close by, it could affect the stove's performance. The supply of air should be such that the operation of the stove and chimney are unaffected when the extractor fan is running. A separate air supply may be required.

A flue draught interference test will determine whether the extractor fan is having an effect. Where the fan is in the same room as the appliance, close all windows and doors. Where the fan is in an adjacent room, close all external doors and windows, but leave the internal doors open. Set the extractor fan to full capacity; after the fan has established its normal airflow pattern, perform combustion analyses of the stove at minimum and maximum outputs. Perform similar tests while the fan is switched off.

Interference tests should also be carried out if there are other appliances close by that move air to the outside, such as tumble dryers.

COMMISSIONING

- Ensure all parts are correctly fitted, and that the stove is set for the correct fuel.
- Check the operation of: the door catch (ensuring it holds the fire door tight); the bottom grate riddling mechanism (using the tool supplied); the air regulator wheel; and the air wash control.
- Test the flue draught. The minimum draught required is 0.04 in WG; the maximum allowed is 0.06 in WG.
- Light the stove and allow to reach a steady burn before checking for fume leakage into the room; open the door and carry out a spillage test.
- Demonstrate the methods of operation to the end user. Explain the need for an annual service and regular maintenance schedule. Record your details in the space provided at the rear of this manual.
- Ensure these instructions are left in the end user's possession.

SERVICING

Every year, the stove should be serviced and the chimney swept. Always use a qualified engineer. The best time is just after the end of the heating season, when the stove is not likely to be in use. Allow the stove to cool before the engineer attends. Procedure:

- Remove the front grate, fire bricks, throat plate, bottom grate and ashpan.
- Sweep the chimney thoroughly from an accessible position.
- Clear out any large deposits from inside the combustion chamber and vacuum that which remains. If necessary, scrape off deposits that have attached to the walls of the chamber.

Clean the throat plate, bottom grate and front plate with a wire brush. Use a soft brush for the firebricks.

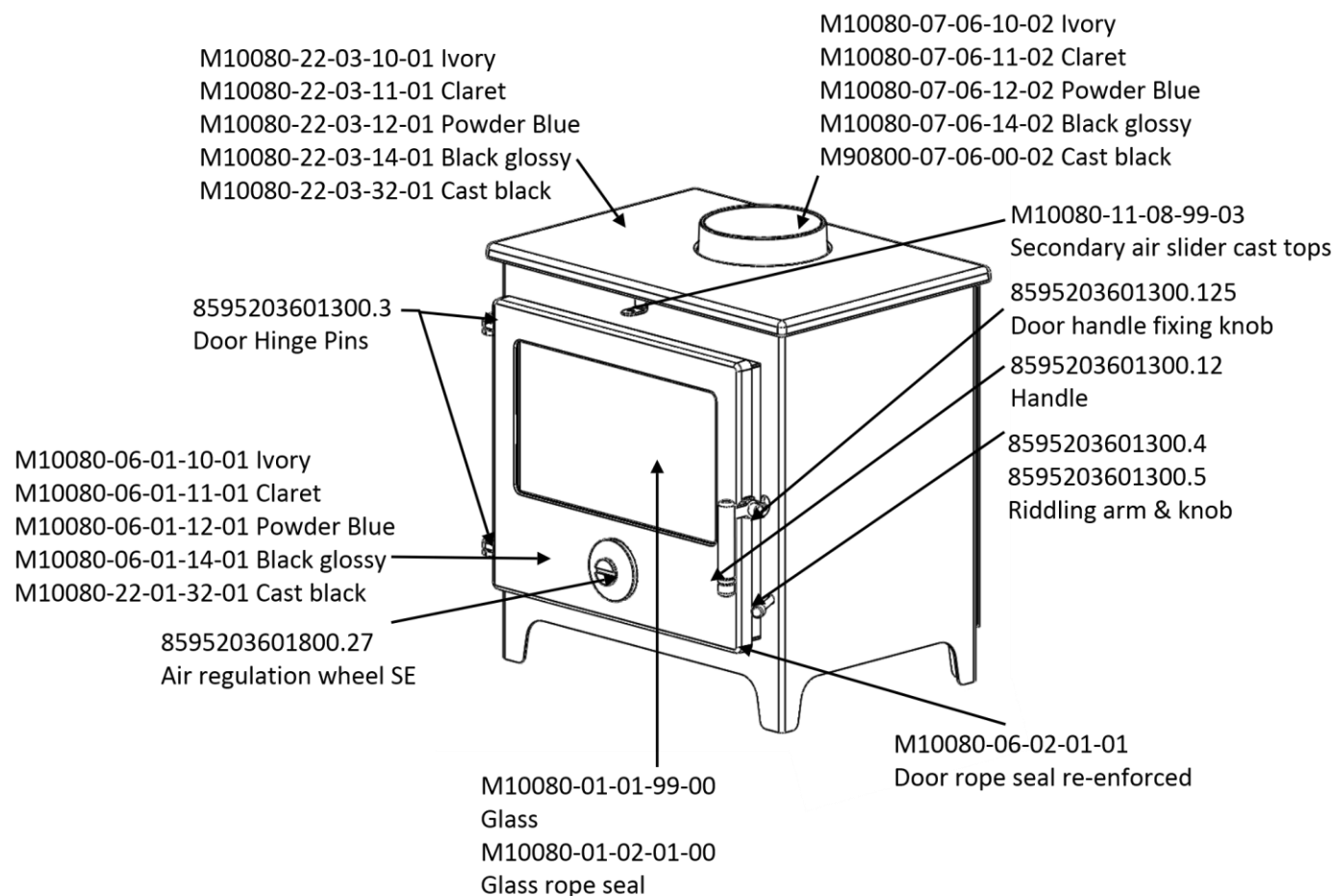
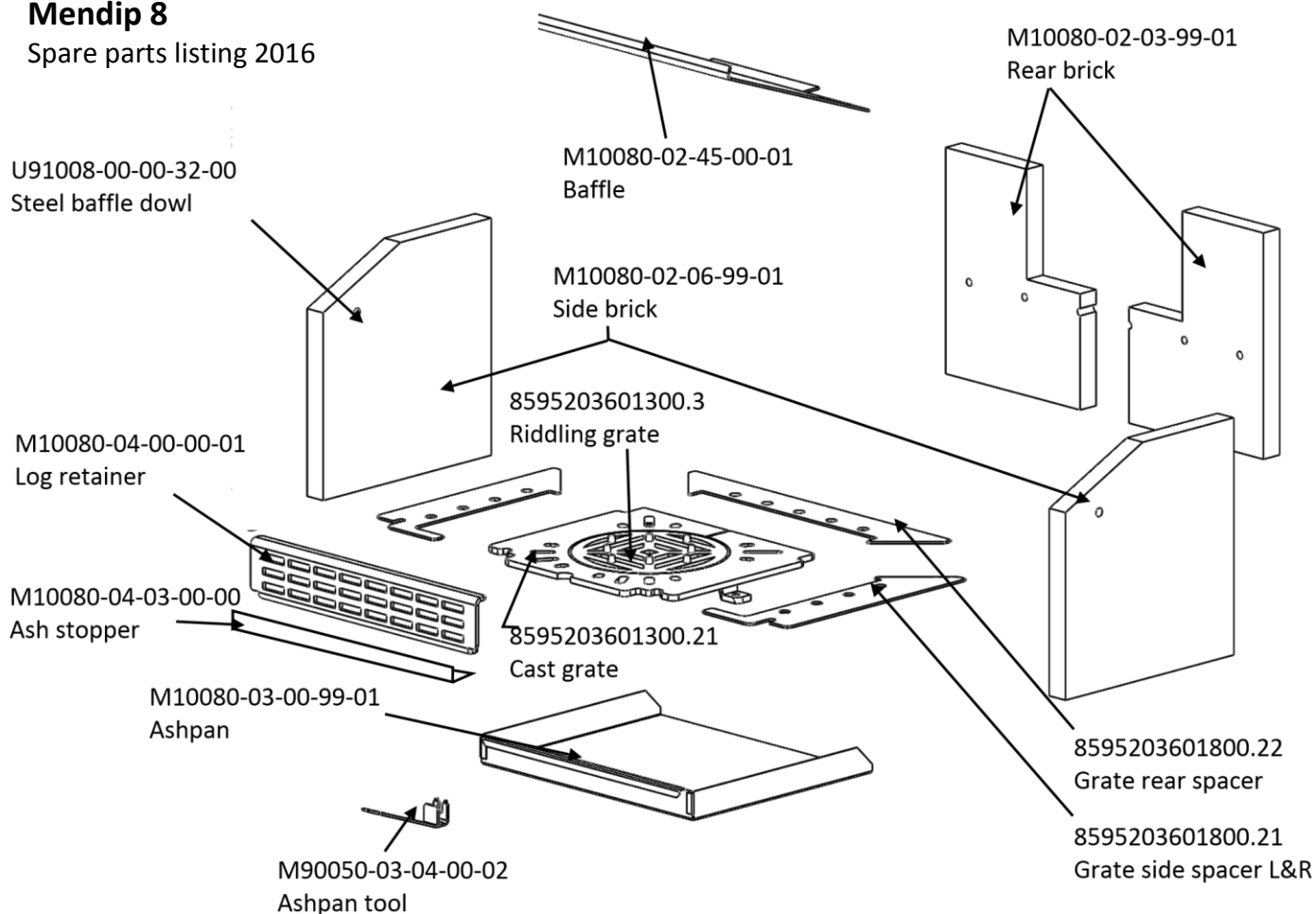
- Replace any damaged items and re-fit in the reverse order.
- Remove the door glass and clean with a damp cloth; wipe with a dry cloth. Inspect and replace the door seal if necessary.
- Check operation of the door catch, ensuring a tight seal is made.

The following information should be provided upon installation of the appliance for householder reference:

Installation Engineer:	
Company:	
Company Address:	
	
	
Company Tel. No:	

Mendip 8

Spare parts listing 2016



Manufactured in the UK

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