



CLOCK SUDBURY CF

FREESTANDING GAS STOVE



OWNER MANUAL

includes User, Installation,
Maintenance and Service Instructions

(Edition 1)

Please enter your serial number here:

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Health and Safety Notice

This appliance could contain some materials that could be interpreted as being injurious to health and safety. It is the users and installers responsibility to ensure that the necessary personal protective clothing is worn when handling materials such as:

Artificial Fuels, Mineral Wool, Insulation Material, Refractory/Ceramic Fibres, Glass Yarn.

These may be harmful if inhaled, and may be irritating to skin, eyes, nose and throat. When handling avoid inhaling and contact with skin or eyes. Use disposable gloves, face masks and eye protection. After handling wash hands and other exposed parts. If a vacuum is used for cleaning the logs or cleaning after servicing / installation, we recommend that it is fitted with a HEPA filter.

Disposal of refractory/ceramic materials

To keep dust to a minimum these materials should be securely wrapped in polythene and be clearly labelled 'RCF waste'. These materials are not classified as 'hazardous waste' and should be disposed of at a site licensed for the disposal of industrial waste.

When unpacking the appliance please check that the following items are included:

- 5-piece log fuel bed, vermiculite, and bark chips
- Closure plate
- Owner manual

User Information

The Clock Sudbury CF gas stove has been designed and tested for use in Great Britain.

As manufacturers and suppliers of heating products, we take every reasonably practicable care that these products are designed and constructed to meet general safety requirements when properly used and installed. Our products are thoroughly tested and examined before despatch.

Any alteration that is not approved by the appliance manufacturer could invalidate the approval of the appliance, operation of the warranty and could affect your statutory rights.

This appliance must be installed by a suitably qualified installer, i.e. Gas Safe registered, in accordance with the Gas Safety (Installation And Use) Regulations, The Building Regulations (or The Building Regulations (Scotland) or The Building Regulations (Northern Ireland)) and the current I.E.E. Wiring Regulations, if appropriate. Failure to install the appliance correctly could lead to prosecution.

- The Clock Sudbury CF gas stove incorporates a single gas control, which selects ignition pilot, and main burner low and high settings.
- The Clock Sudbury CF gas stove incorporates a safety device in the form of an TTB System, which constantly monitors carbon monoxide if it goes into the room and will cause the fire to switch off if the CO level increases, for instance due to insufficient ventilation or a blocked flue. If this regularly occurs do not attempt to relight the appliance until a qualified engineer has checked it; the problem may not be due to lack of air or a defective flue.

Important Information

- For clearance distances to combustible and non-combustible materials see page 10 of this booklet.
- The appliance is for use on Natural Gas (G20 @ 20mbar) only.
- The chimney or flue (unless new or previously used with a gas appliance) shall be swept before installation if it has been used for solid fuel.
- The stove **MUST NOT** be used with the glass safety screen removed or if it is damaged or cracked.
- The fire must never be operated with the door open.
- During initial firing, an odour may be evident. This is the starch binder used during the manufacture of the fibre components of the fire, and there are no harmful effects produced.
- During the normal operation of the fire some dulling and slight discolouration may appear inside the firebox and on some parts of the fuel bed. This is quite normal and adds to the realistic appearance of the appliance. However, if excessive black staining does occur it may be due to the fuel bed being incorrectly laid. This should be checked prior to contacting a service engineer.
- Like all appliances incorporating an aerated burner a low frequency noise may be heard, particularly on the low setting. This is quite normal and does not affect the operation of the stove.
- Care must be taken to prevent any damage to surrounding soft furnishing or decoration. Many embossed vinyl wall coverings may become discoloured if placed too close to the appliance. Combustible materials, such as wall panelling or wallpaper, must be removed from behind the fire.
- It is advised that this stove is serviced annually as it is more likely to provide trouble-free operation.
- The only user removable parts are the refractory fire bed components and the glass door panel.

The efficiency of this appliance has been measured as specified in BS EN 613:2001 and the result is 78%. The gross calorific value of the fuel has been used for this efficiency calculation. Intertek have certified the test data from which it has been calculated. The efficiency value may be used in the UK Government's Standard Assessment Procedure (SAP) for energy rating of dwellings.

Operating the Appliance

General operation of remote-control handset

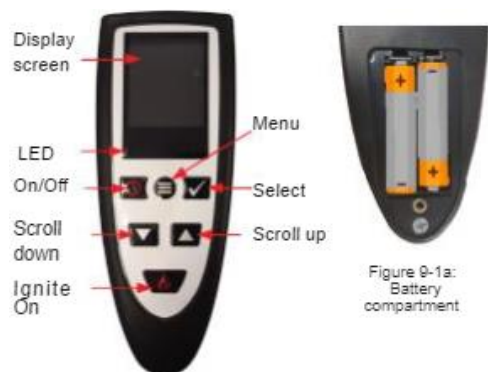


Figure 9-1: Deluxe handset overview

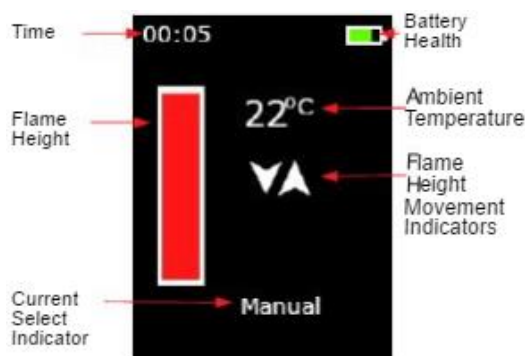


Figure 9-6: Home screen overview

Pairing The Deluxe Remote

- 1) Install batteries (figure 9-1a).
- 2) Ensure power to electronic control board (ECB) is isolated.
- 3) Press any key pad button to attempt pairing operation.
- 4) Immediately apply power to ECB. Figure 9-3 indicates an attempt to pair.
- 5) The screen will display the home page (figure 9-5) if the pairing process is successful.
- 6) If the pairing process is unsuccessful (figure 9-4), repeat the steps above.



Figure 9-2

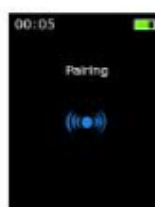


Figure 9-3

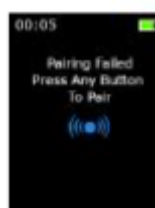


Figure 9-4



Figure 9-5

Starting the fire

To start, follow the on-screen instructions (figure 9-5), pressing & buttons simultaneously "for approximately 1 second. The fireplace should play a buzzer tone in acknowledgement". On screen prompts indicate the start up progress, 'ignition', 'pilot', finishing in manual mode.

WARNING

Once pilot has established, the valve automatically moves to maximum flame condition.

WARNING

If the pilot does not establish after several attempts press 'off' button on handset. Isolate gas and ECB supply to appliance.

Manual mode

Once the main burner is established, the system will enter the manual mode (figure 9-7).

Press or buttons to increase or decrease the flame height. The flame height indicator arrows will change colour to confirm the command. A buzzer will sound once the highest or lowest level is achieved.



Figure 9-7

Settings for the Deluxe Remote

Setting menu options:

To access settings press the button. Press the or buttons then to select the required option. Press to exit back to previous menu options.

Settings Menu

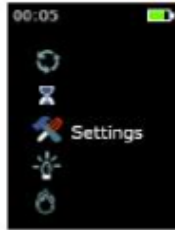


Figure 10-1

Settings - Set Date & Time



Figure 10-2



Figure 10-3

In the settings menu, locate 'Date & Time' and press . Press or to move between hours, minutes and day settings (figure 10-3). Press to select option, the number will turn green when selected. Press or to increase or decrease value. Press to confirm. Press to exit back to previous menu options (figure 10-1).

Settings - Centigrade/Fahrenheit

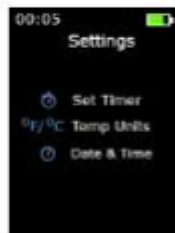


Figure 10-4



Figure 10-5

Settings - Temperature Units

In the settings menu, locate 'Temp Units' and press (figure 10-4). Press or to move between Celsius or Fahrenheit (figure 10-5). Press to confirm. Press to exit back to previous menu options (figure 10-1).

Settings - Set Timer

Press 'Menu' and select 'Set Timer'. (figure 10-6)

The 'Set Timer' will automatically turn the fire off once the countdown timer has reached zero.



Figure 10-6

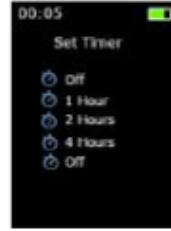


Figure 10-7



Figure 10-8

Press or buttons to select between 1 hr, 2hrs or 4hrs. (figure 10-7). Press to select option.

When the timer is switched 'on' an hourglass symbol will appear next to the battery status symbol (figure 10-8). Press to exit back to previous menu options (figure 10-6)

Turn fire off

Press and hold until progress bar completes.

Operating the Appliance

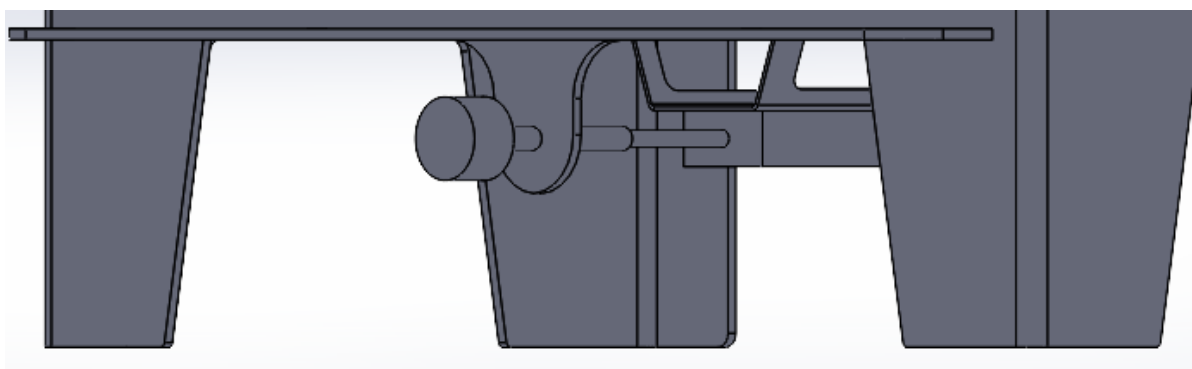
The full lighting procedure for slide control:

1. The Gas Control knob protrudes through the bottom front of the stove.
2. Push knob in as far as possible on gas control, until a click is heard.
The knob will stop at the position and a spark should be seen at the tip of the ignition probe.
At the same time the pilot flame should light.

KEEP THE KNOB PRESSED IN FOR 20 SECONDS.

Should the pilot fail to light, wait three minutes before repeating the procedure.

3. After lighting the pilot flame, the control knob should be allowed to spring out slightly.
When the pilot light is established, withdraw the shaft from the body to minimum flow position.
4. Flow then may be adjusted up to the full flow position.
5. To turn the fire off, the knob is pulled out further from the HIGH position against a spring load position to the off position to close the thermos-electric valve.



Important Information

- If the fire goes out for any reason, or it is turned off and is to be turned on again, it is necessary to wait three minutes before attempting to re-light.
- The spillage monitoring system will operate if the flue does not work or becomes blocked.
- If the fire repeatedly goes out during use, this may be due to lack of ventilation or a blocked flue. Expert advice should be obtained.
- Do not use the fire with the glass safety screen removed, or if the glass is cracked.
- The Allen bolt must be removed from the right-hand side of the stove before attempting to open the door, to avoid damage to the handle mechanism.

For more information, please visit the [Clock Woodburners YouTube page](#).

Log Fuel Bed Layout

String wire wool out over the base of the burner and then place logs as shown in the pictures below.



The log fuel bed consists of five log shapes:

- Two rear main log shapes, with cutouts for the pistol shapes.
- Three log shapes. Bag of bark chips.

Finally, spread the bark chips around your display for an appropriate look.

Cleaning

Before you clean any part of the stove ensure that the appliance is turned off and cold.

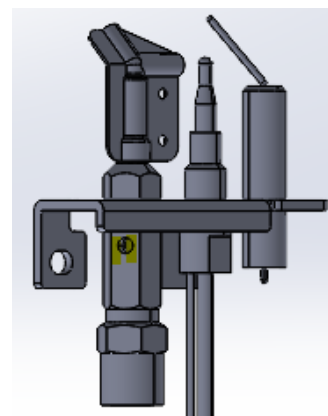
Black Painted Surfaces

These surfaces should be dusted regularly, and any marks removed with a soft cloth. Abrasive, chemical cleaner or water should never be used.

Pilot Assembly

In some instances, you may experience ignition problems even when the appliance is new. This may be due to the aeration hole in the pilot body (*see diagram*) being partially blocked with carpet fibres, decorating dust, pet hairs or other foreign matter.

The pilot is located on the right-hand side of the appliance. To gain access to the pilot, remove the Gas Control knob by loosening the screws, remove the Allen bolt on the door handle and open the door. The log fuel bed will need to be removed for access around the pilot.



Take care when cleaning in this area so as not to damage the pilot assembly.

Any debris in or around the aeration hole can usually be drawn out using the nozzle of a vacuum cleaner around the top of the pilot assembly. It is advisable not to blow the debris into the hole or pilot assembly as this may cause more of a restriction and not rectify the problem.

Glass Cleaning

We recommend 00 grade wire wool to clean the glass.

To access the inside of the glass, remove the Allen bolt on the door handle and open the door. When finished, close the door, insert the Allen bolt and tighten back up.

The appliance must not be used if the glass panel is missing or damaged.

The glass may discolour quickly when first installed, and it should be cleaned. This is due to the burning off process of the refractory shapes.

Fuel Bed Cleaning

Use only the fuel bed components provided and no additional parts must be added.

Incorrect positioning of the components could result in the staining of the glass panel.

The components are delicate, and they should be handled with great care.

The loose log shapes may be removed for cleaning.

They can be brushed very gently with a soft brush to remove dust or any deposits.

A vacuum cleaner may only be used after the loose log shapes and vermiculite have been removed.

Care should be taken to avoid damage to the log shapes as they are a delicate surface and should not be wiped or rubbed.

Refer to the 'Health & Safety Notice' on page 2 before cleaning or replacing any refractory material.

Regulations and Warnings

- This appliance must only be installed in Great Britain.
- The appliance is suitable for use on Natural Gas (G20 @ 20mbar) only.
- In Great Britain the fire does not normally require purpose-built ventilation, but if for any reason such ventilation is provided it should be checked periodically to ensure freedom from obstructions.

It is the law that all gas appliances must be installed by a competent person, i.e. a GAS SAFE registered installer, in accordance with the current Gas Safety (Installation And Use) Regulations (as amended), all relevant parts of the local and national building regulations and all relevant recommendations of the following British Standards. Failure to do so could lead to prosecution.

The following are relevant codes of practice and British Standards:

BS 5871 BS 5440 (part 1 & part 2) BS 6891

This appliance must be installed to current versions of the above standards and include any relevant amendments to: The Building Regulations, issued by the Department of the Environment; or The Building Standards (Scotland) (Consolidated) Regulations, issued by the Scottish Development Office.

- Prior to the installation ensure that the local distribution conditions (identification of type of gas and pressure) and adjustment of the appliance are compatible. Natural gas (G20 @ 20mbr).

IMPORTANT NOTE:

- The glass front of the fire acts as a dress guard, conforming to BS 1945 (1971) and satisfies the heating appliance regulations (1991). However, a guard conforming to BS 6539 (1984) must be used to protect young children, the elderly or infirm.
- This appliance incorporates a safety device in the form of an oxygen depletion system. IT MUST NOT BE ADJUSTED OR PUT OUT OF OPERATION! THIS IS A NON-SERVICEABLE ITEM AND MUST BE EXCHANGED AS A COMPLETE ASSEMBLY, USING ONLY THE ORIGINAL MANUFACTURER'S PART.
- A non-combustible hearth must be provided beneath the appliance to comply with the building regulations, or a suitable proprietary fire surround with a 150°C minimum rating. The hearth must be level and extend outwards all around the appliance base. It must have a minimum thickness of 12mm and have a clearly defined edge (change of level) to discourage placing of any combustible materials on or partially over it.
- Dampers or register plates must not restrict any of the above flues. The flue must only service a single appliance and not have any branches or traps, which may impede the natural draught. If a terminal is fitted it must be suitable for the purpose.
- Any debris from the chimney or flue should be removed. Make sure the fire has cooled beforehand.

Appliance Data

| | | | |
|-----------------|--------------------------------------|------------|---------------------|
| Gas Type: | CATEGORY I 2 H | Gas Input: | 6.9 kW Gross (Max.) |
| Gas Pressure: | 20 mbar +/- 1.0mbar | Injectors: | mk480 |
| Gas Connection: | 8mm compression: semi-rigid or rigid | TTB: | 120 degree |

The data badge is located on the plate attached to the rear of the stove.

Distance to materials

It is strongly recommended that any furniture or other combustible materials are kept at least 900mm clear from the front of the stove. Due to the fact that combustible shelves, timber fireplaces and beams have potentially thousands of possible configurations in conjunction with stoves outset or inserted partially or fully into chambers, it is not possible to give firm guidance on dimensions to these features. As a guideline, materials that are in 'line of sight' to the stove are more likely to overheat due to direct radiation from the stove body than materials that are not in 'line of sight' (e.g. with stove fully inside a chamber). Materials above the stove are more likely to overheat than materials alongside or below. A guideline limiting temperature for solid timber (not surface finishes) is approximately 80-85°C with a normal ambient room temperature. Temperatures of combustible materials can be substantially lowered with a simple heat shield constructed of a non-combustible material and small air gap between the shield and combustible material.

Clearance to Shelf

Minimum clearance from hearth to underside of combustible shelf should be 900mm.

Clearance to Sides of Fire

Minimum width between vertical sides of combustible surround and the sides of the stove should not be less than 300mm, provided the fire is central to the surround and the sides do not project more than 50mm. When vertical side forward projection is increased by 12.5 mm, add 50 mm to the inside width of the surround.

Distances from non-combustible materials

- The stove can be recessed in a suitably sized non-combustible fireplace, but a permanent free air gap of at least 50mm must be left around the sides and top and at least 50mm at the back of the stove to obtain reasonable heat output. This is also needed for access to the stove for removal and maintenance. A clearance of 150mm will give a better heat output.
- When installing the Clock Sudbury CF gas stove, carefully consider where the appliance is to be sited as a spillage test will need to be carried out at the draught diverter at the rear of the stove.
- When siting into an Inglenook, it is important to access the rear of the appliance, either from the top or sides of the stove, so a spillage test can be witnessed. A small mirror may be required.
- A minimum of 50mm needs to be left between the rear of the stove and the closure plate or back wall for correct operation of the stove. This will be attained when the two stand-off brackets are attached at the bottom rear of stove.

| Area of stove | Distance to non-combustible material | Distance to combustible material |
|---------------|--------------------------------------|----------------------------------|
| Top | 150mm | 375mm |
| Sides | 100mm | 500mm |
| Rear | 50mm | 500mm |
| Front hearth | 300mm | 300mm |

To Install the Appliance

CHECKING THE FLUE AND FIRE OPENING

- Check that the chimney conforms to the required specifications as previously stated. Examine the condition and carry out any remedial work including removing any debris from the base.
- The chimney or flue (unless new or previously used with a gas appliance) should be swept prior to the installation if it has been used for solid fuel.
- Prior to installing the appliance, a smoke test (using a smoke bomb) should be carried out to check that satisfactory smoke clearance has been established.

If all the smoke is not drawn into the flue, pre-heat the flue with a blowtorch or similar and re-check. If there is any uncertainty examine for the cause and, if necessary, seek expert advice.

No combustible material should be fitted inside the fireplace opening.

GAS SUPPLY ROUTING

Use rigid or semi-rigid tube to connect the supply.
Determine the gas supply pipe route to the appliance before installing the stove.

CONNECTING THE GAS SUPPLY

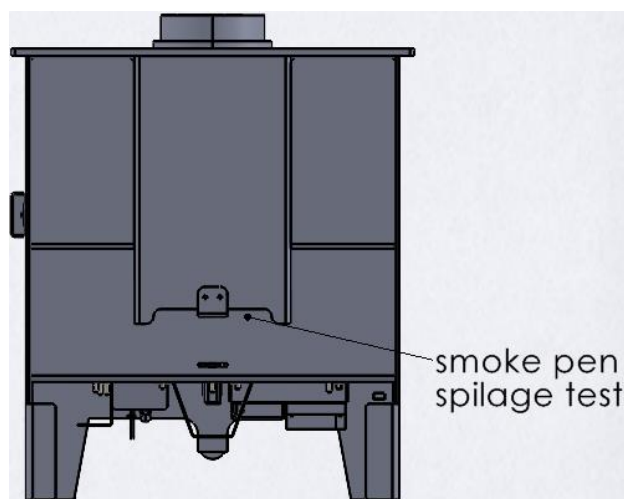
The gas connection is underneath the stove towards the front on the right-hand side. The burner tray inlet pipe drops down through the stove and can be connected there. The gas supply pipe can be routed either from the sides or rear.

Checking Operation of Fire

CHECKING FOR COMBUSTION PRODUCTS CLEARANCE

IMPORTANT: The smoke test must be carried out with the fire starting from cold.

- Light the fire and leave at maximum input.
- Close all the doors and windows.
- After five minutes fit the smoke match in a holder and position as illustrated with the head of the match just inside the test opening.
- Run the match along the bottom edge of the draught diverter. All smoke must be drawn into the test opening if the clearance is satisfactory.
- If spillage occurs wait a further five minutes and repeat the test.
- Repeat the test with doors open and with any extractor fans in other rooms in operation.
- If spillage is detected the cause must be discovered and the fault corrected. If the fault cannot be corrected, disconnect the fire from the gas supply and seek expert advice. Spillage can be caused by a restriction in the flue system, down draught or insufficient ventilation into the room where the fire is installed.



Maintenance

GENERAL

- To ensure the safe and correct operation of the appliance, servicing should be carried out annually by a competent person such as a Gas Safe registered person in accordance with relevant regulations.
- Before commencing any service or replacement of parts, turn off the gas supply to the fire. After servicing check for gas soundness.
- It is important to check the chimney or flue annually to ensure clearance of combustion products.
- At least once a year check for debris in the catchment area behind the fire and in the flue way.
- If soot has accumulated check to establish cause. Rectify and clean flue or chimney accordingly.

TO REMOVE THE BURNER TRAY

- Turn off the gas supply by the isolating elbow.
- Remove the Gas Control knob by undoing the two screws on the rear, then undo the door handle fixing Allen screw on left hand side and open door.
- Remove the fuel bed components and vermiculite.
- Undo the six tray retaining screws, lift the tray up and twist sideways to remove.

REPLACEMENT OF GAS CONTROL

- Follow the burner tray removal sequence.
- Disconnect the thermocouple from the end of the valve.
- Disconnect the inlet pipe and injector pipe.
- Undo the locknut holding the valve on to the support bracket, then remove the valve.
- When replacing, take care not to over tighten the thermocouple in the end of the control valve.

REPLACEMENT OF INJECTOR mk480

- Follow the burner tray removal sequence.
 - Undo the compression nut on the supply pipe.
 - Unscrew the locking nut holding the injector on the chassis.
 - Clean or replace the injector. **Do not use a wire or a drill to clean out holes.**
- Injectors are different sizes. Refer to the appliance data section on page 9 for details.

REPLACEMENT OF TTB ASSEMBLY

It will be necessary to remove the stove to access this as it is located on the rear. Always ensure that this part is brought from the manufacturer. To remove, disconnect wires, undo bolts and replace. Always make sure wires are reconnected before putting the stove back into place.

FLUE CHECK

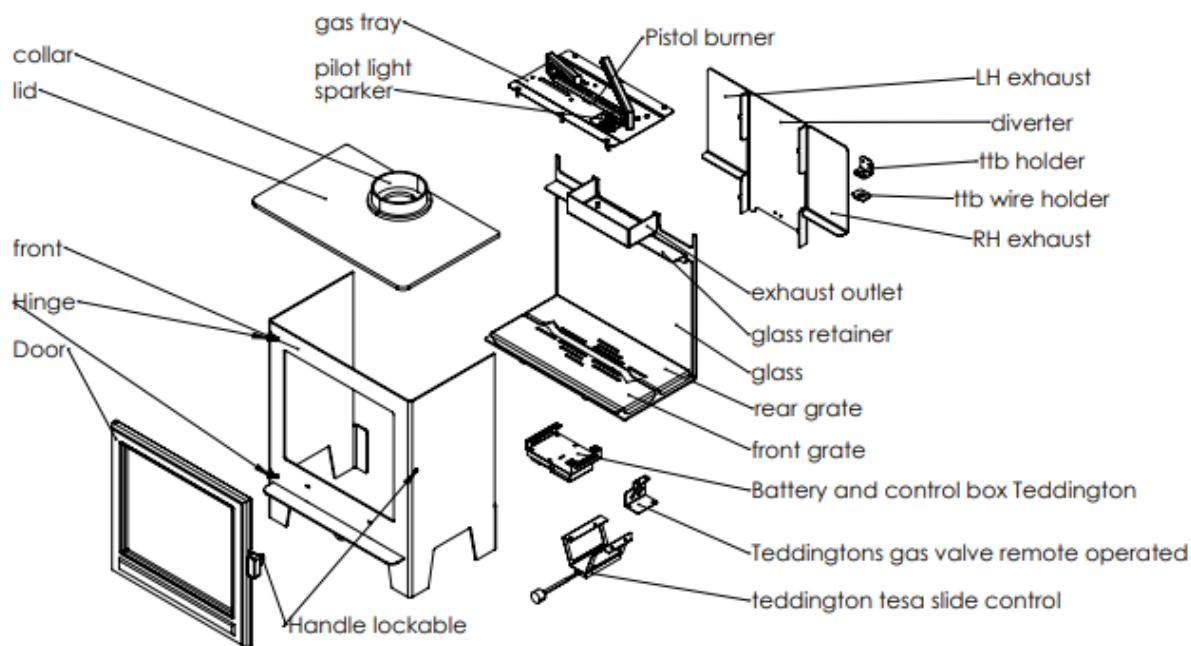
It may be necessary to remove the stove to gain access to the flue system.

- Reverse the fitting instructions, but first remove log shapes, bark and vermiculite.
- Examine flue and rectify as necessary.
- Replace the stove, referring to fitting instructions.

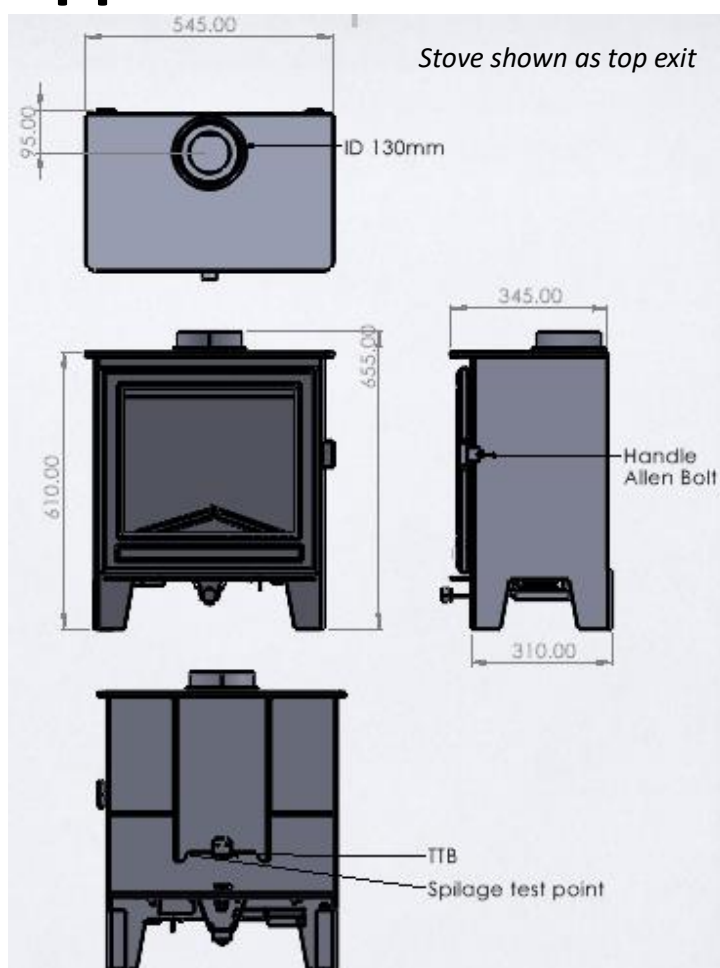
PILOT LIGHTING

Check pilot aeration holes for linting; clear using a vacuum cleaner nozzle, taking care not to damage the pilot head. See cleaning section on page 8 for instructions on how to access and clean the pilot.

Diagram of parts



Appliance Dimensions



The data badge is located on the plate attached to the rear of the stove.

Spares

Parts may vary or change due to development of products. A serial number should always be supplied when ordering to make sure you receive the correct part.

For all your spares needs, please refer to www.clockwoodburners.co.uk

When ordering spare parts, please quote appliance name and serial number. These can be found on the data badge, located on the plate attached to the rear of the stove.

Installer Commissioning Check List

| FLUE CHECKLIST | PASS | FAIL |
|-----------------------|-------------|-------------|
| Flue size | | |
| Flow test | | |
| Spillage test | | |

| GAS CHECKLIST | PASS | FAIL |
|----------------------|-------------|-------------|
| Soundness | | |
| Standing pressure | | |
| Working pressure | | |
| Burner pressure | | |
| Heat input | | |

| VENTILATION | PASS | FAIL |
|--|-------------|-------------|
| Ventilation requirements for appliance | | |

Installer Signature

Customer Signature

Notes on installation:

Annual Service Record

Annual Service Record Year 1

| | |
|-----------------------|--|
| Gas Safe Engineer: | |
| Gas Safe Register No: | |
| Contact No: | |
| Date of Service: | |
| Door seal replaced: | |
| Valves checked | |
| Spillage test | |
| TTB checked | |

Annual Service Record Year 4

| | |
|-----------------------|--|
| Gas Safe Engineer: | |
| Gas Safe Register No: | |
| Contact No: | |
| Date of Service: | |
| Door seal replaced: | |
| Valves checked | |
| Spillage test | |
| TTB checked | |

Annual Service Record Year 2

| | |
|-----------------------|--|
| Gas Safe Engineer: | |
| Gas Safe Register No: | |
| Contact No: | |
| Date of Service: | |
| Door seal replaced: | |
| Valves checked | |
| Spillage test | |
| TTB checked | |

Annual Service Record Year 5

| | |
|-----------------------|--|
| Gas Safe Engineer: | |
| Gas Safe Register No: | |
| Contact No: | |
| Date of Service: | |
| Door seal replaced: | |
| Valves checked | |
| Spillage test | |
| TTB checked | |

Annual Service Record Year 3

| | |
|-----------------------|--|
| Gas Safe Engineer: | |
| Gas Safe Register No: | |
| Contact No: | |
| Date of Service: | |
| Door seal replaced: | |
| Valves checked | |
| Spillage test | |
| TTB checked | |

Annual Service Record Year 6

| | |
|-----------------------|--|
| Gas Safe Engineer: | |
| Gas Safe Register No: | |
| Contact No: | |
| Date of Service: | |
| Door seal replaced: | |
| Valves checked | |
| Spillage test | |
| TTB checked | |

Warranty Information

In order to validate your **EXTENDED SEVEN-YEAR PARTS WARRANTY**, ensure your installer has filled in the appropriate checklist. This in no way reduces your statutory rights. Your warranty commences from the date of purchase, and you must retain your receipt or invoice as proof of a purchase date.

This extended warranty specifically excludes glass and soft refractory components and any batteries. The gas valve and control unit have a one-year warranty only.

Terms and Conditions

1. The appliance must be installed by a Gas Safe registered person.
2. The appliance must be used in accordance with the users' instructions.
3. The appliance must be serviced annually by a Gas Safe registered person.
4. The annual service must be up to date and supported by receipts in each case.
5. This warranty is not transferable and relates to the original installation only.
6. The appliance has not been subjected to misuse or accident or been modified or repaired by any person other than the authorised employee or authorised representative of Archer Fires Ltd.
7. The registration form must be submitted within one month of purchase.

**To register your stove please visit our website:
www.clockwoodburners.co.uk**

We suggest you record the following details here and keep the receipt as proof of purchase. This information may be asked for when you contact the helpdesk. You must fill this in online as well, as this manual is for reference only. The serial number is on the data badge located on the rear of the stove. The retailer details, plus your installer's information, is required to register for the extended warranty.

| | | | |
|-----------------------|---|------------|--|
| Model: | Clock Sudbury CF freestanding gas stove | Serial No: | |
| Retailer name: | | | |
| Address: | | | |
| Installer name: | | | |
| Gas Safe number: | | | |
| Date of installation: | | | |