INFINITY

Instruction for user, Installation & Servicing

890 HD CF MRK2

Keep this booklet for service log and future reference

IMPORTANT

This appliance is guaranteed for 24 months subject to conditions. The 3-year extended parts warranty will only be valid if the annual service recommended in this manual has been completed and the appliance has been registered online.

Contents

Benchmark Scheme

Charlton and Jenrick Ltd is a licensed member of the Benchmark Scheme which aims to improve the standards of installation and commissioning of domestic heating and hot water systems in the UK and to encourage regular servicing to optimise safety, efficiency and performance. Benchmark is managed and promoted by the Heating and Hotwater Industry Council. For more information and the full code of practice please visit www.centralheating.co.uk

Please ensure that the installer has fully completed the Benchmark Checklist on the inside back pages of the installation instructions supplied with the product and that you have signed it to say that you have received a full and clear explanation of its operation. The installer is legally required to complete a commissioning checklist as a means of complying with the appropriate Building Regulations (England and Wales).

All installations must be notified to Local Area Building Control either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer who should, on receipt, write the Notification Number on the Benchmark Checklist.

This product should be serviced regularly to optimize its safety, efficiency and performance. The service engineer should complete the relevant Service Record on the Benchmark Checklist after each service.

The Benchmark Checklist will be required in the event of any warranty.

It is a requirement that the gas fire is installed and commissioned to the manufacturer's instructions and the data fields on the commissioning checklist completed in full.

To instigate the guarantee, the gas fire needs to be registered with the manufacturer within one month of installation.

To maintain the guarantee, it is essential that the gas fire is serviced annually by a Gas Safe registered engineer. The service details should be recorded on the Benchmark Service Interval Record and left with the householder.

Introduction

The 890 HD Mrk2 CF has been designed and tested to the requirements of EN 613 and is suitable for use in Great Britain.

890 HD CF Mrk2 incorporates a single gas valve which selects ignition pilot, with variable setting between low and high setting and is operated via remote control hand device or optional smart app device. This system is powered by mains electricity via pre-wired transformer plus supply cord. Alternative power supply is available for users during mains interruptions.

The 890 HD Mrk2 CF incorporates a safety device in form of an Oxygen Depletion System, which constantly monitors the oxygen in the room and will cause the fire to switch off if the oxygen level reduces, for instance due to insufficient ventilation or a blocked flue.

Consumer Protection Information

As manufacturers and suppliers of heating products, we take every care to ensure that the design and construction must meet the general safety requirements when properly used and installed. To this end, our products are thoroughly tested and examined before dispatch.

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

This appliance could contain some materials that could be interpreted as being injurious to health. It is the users / installers responsibility to wear protective clothing when handling the following materials. Artificial fuel, mineral wool, insulation material, refractory/ceramic fibres and glass yarn. May be harmful if inhaled, may be irritating to skin, eye, nose, and throat.

When disposing refractory / ceramic materials to keep dust to a minimum these materials should be securely wrapped in polythene and clearly labelled “RCF waste”. These materials are not classified as hazardous waste and should be disposed of at a site licensed for disposal of industrial waste.

Important Information

The appliance is for use on Natural Gas (G20 @ 20mbar) only.

The Chimney or flue (unless new or previously used with a gas appliance) should be swept before installation if been used for solid fuel.

In Great Britain, the appliance must be installed by a competent person whose name appears on the gas safe register. All Gas Safe engineers should possess an ID carrying the logo below.

The appliance is designed to be used with the correct number of ceramic fuel bed shapes provided within the set. (Please follow the guidance on fuel bed layout page 11 onwards). If replacement fuel bed shapes are required only use genuine manufactures replacement parts.

The glass front of this appliance acts as a dress guard, conforming to BS 1945 (1997) however a fireguard to BS6539 (1997) must be used to protect young children, the elderly or infirm.

The Appliance must not be used with the glass safety screen removed or if it is damaged or cracked.

During initial "burn off", an odor may be evident during the first few hours of use. This is due to the surface coating on the metal work "burning off". The odor produced is harmless and will disappear after a short period of time.

During the normal operation of the fire some black staining may appear on some parts of the fuel bed. This is quite normal. However, if excessive black staining occurs it may be due to the fuel bed shapes laid incorrectly. This should be checked prior to contacting a service engineer.

Care must be taken to prevent any damage being caused to surrounding soft furnishing or decoration. Many embossed vinyl coverings may become discoloured if placed too close to the appliance. It is suggested that a sample of the proposed wall covering should be placed above the appliance at its hottest point first. The appliance should then be run on high rate over a couple of days

It is advised that this appliance is serviced annually as recommended by Gas Safe. This is more likely to provide trouble-free operation and is a requirement of the extended warranty.

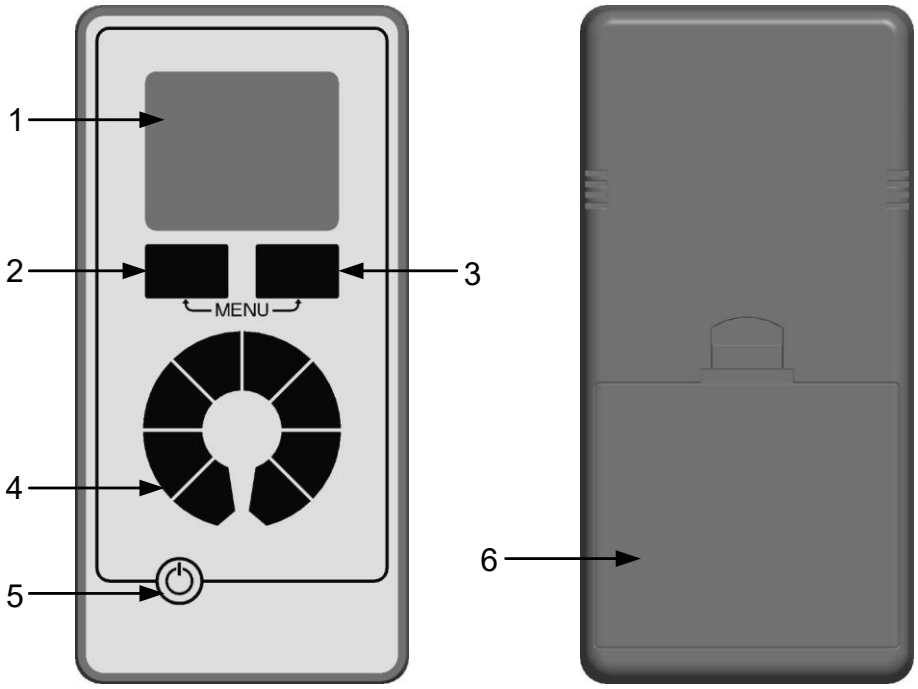
In GB (Great Britain) the fire does not normally require purpose-built ventilation, but if for any special reason purpose-built ventilation is provided it should be checked periodically to ensure freedom from obstructions.

This appliance is fitted with a spillage monitoring system. The following points must be followed.

- Oxy-pilot unit fitted to the appliance must not be adjusted by the installer.
- The oxy-pilot assembly must not be by passed.
- All gas carrying parts including the oxy-pilot unit should only be changed for genuine manufactures replacement parts.

If the spillage monitoring system is repeatedly activated, a flue specialist should be involved to determine the primary issue.

Lighting the Appliance & General Operation of Control



(1) - Display Screen

(2) - Function Button 1 (FB1)

(3) - Function Button 2 (FB2)

(4) - Selector Wheel

(5) - On/Off Button

(6) - Battery Compartment

Display overview

Press ⏻ to awaken the handset from its dormant sleep mode at any time. Fig 1 shows the display neutral, ready to turn on.

Turn on (startup).

Pressing and holding ⏻ displays an “UNLOCK” graphic Fig 2 prompting the button to be pressed simultaneously. Whilst both ⏻ & UNLOCK pressed a progress bar Fig 3 will complete. If either button is released before the progress bar has completed the operation will cancel. Once the progress bar has been completed the handset will display the status of the fire (priming – ignition – pilot – main burner) finishing at the fire “on” display screen Fig 4.

Note: If the fire is extinguished for any reason wait 3 minutes before relighting.

Note: If repeated delayed ignition is experienced during start-up, it is recommended that the appliance is checked by a gas safe engineer.

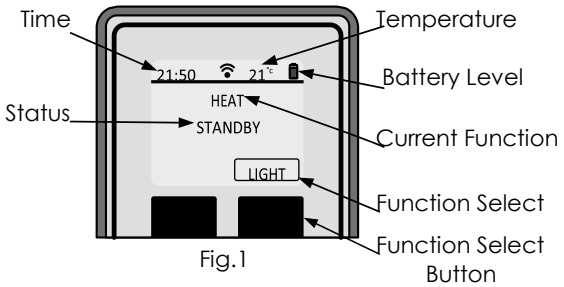


Fig.1

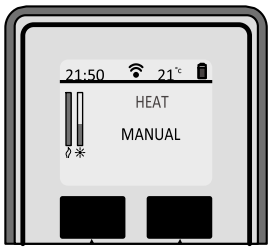


Fig.4MENU

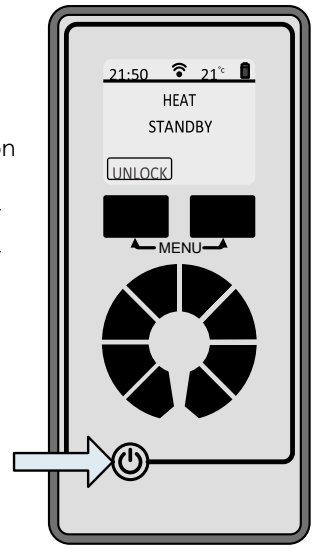


Fig.2
Unlock

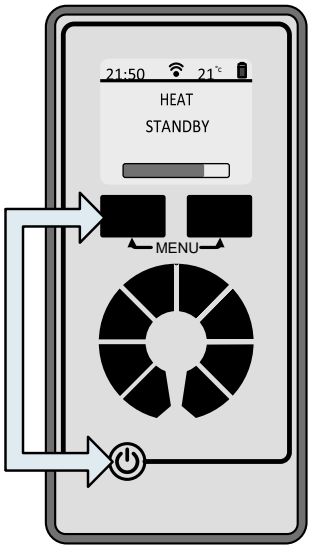


Fig.3
Progress bar

Flame height adjustment

Once the fire has been started the flame height can be adjusted. To decrease the flame height move your finger anticlockwise or to increase the flame height moving your finger clockwise using the selector wheel. Once the desired flame level is set, remove your finger from the selector wheel to transmit your selection to the receiver. Six flame levels are selectable.

Turn off (shut down)

To turn the appliance off, press and hold down ⏻ until the progress bar has completed. If the button is released before the progress bar has completed the operation will cancel and the fire will remain lit.

Mode select.

With the fire running on manual operation, you can access two further “modes”. Use the MODE button to cycle through the options "AUTO" & "SLEEP".

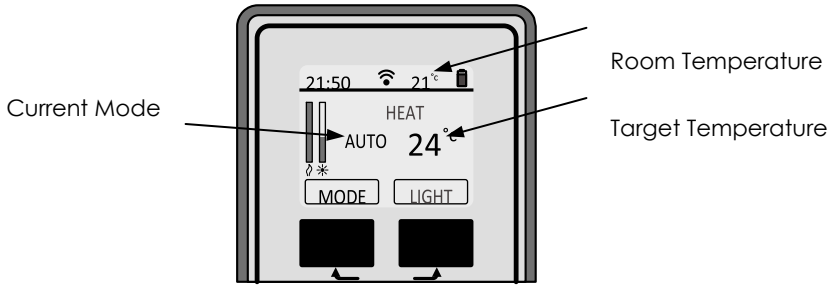
Sleep Mode.

Use the selector wheel to choose from the available time range of 10 minutes to 1 hour 30 minutes. Once the desired countdown time has expired the appliance will turn off. You can cancel the countdown by pressing the MODE button to return to "Manual" mode.

Note: The handset contains a sensitive temperature measurement device. To achieve the best thermostatic efficiency do not place the handset near the heat source, avoid covering, direct sunlight or near a draft or open window etc. Place the handset at a midpoint in the room or area being heated. Allow 5-10 minutes for the handset to stabilize if subjected to extremes of temperature.

Auto (Thermostatic) Control

With the “AUTO” function selected use the selection wheel to increase or decrease the temperature to the desired level. Move your finger in a "clockwise" direction to increase or "anticlockwise” to reduce the temperature setting. Release your finger from the wheel to transmit the target temperature (See Fig 5) to the receiver. The “AUTO” function will now modulate the flame height to achieve your target temperature. The selectable temperature range is 1 degree C to 29-degree C.



Auto Thermostatic Mode

Fig.5

Pilot standby function

The pilot standby function can be achieved why using the appliance on it manual setting by turn the wheel anticlockwise until pilot standby appears on the screen. To bring the product back on to main burn. Turn the wheel clockwise to energise the three burners. **Please note it is strongly recommended to turn the fire back to full rate for at least 10 minutes to allow the flue to warm. It switches to a low setting from pilot can result in delayed ignition and all so spillage.**

Menu features

The menu can be accessed by pressing both of the function buttons together [redacted] MENU fig.6 Use the selector wheel to highlight one of the required options. Press SELECT to enter the required

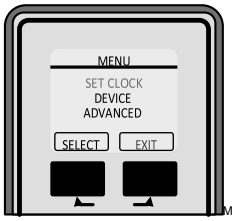


Fig.6
Menu

Device (pair code) Set clock.

The handset clock has a dedicated 24-hour display. Use the selector wheel to first set the hours. Press SELECT to change to minutes select. Use the selector wheel to change the minutes. Press the SELECT button to change the day. Use the selector wheel to change the day. Finally, press the SELECT button to save the clock setting and return to the menu.

The device screen displays the current i.d. of the "handset" and "control unit". Press EXIT to return to the menu. Changing the Handset Batteries.

The handset operates from four AAA 1.5V batteries. New alkaline batteries are recommended. Do not mix new and old batteries. When inserting the batteries, observe and position batteries according to the battery compartment graphics (see Fig 7). When the batteries are inserted, the handset will attempt to pair.

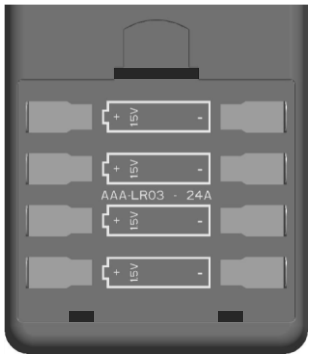


Fig.7 Battery compartment

Cleaning the 890 HD CF Appliance

Ensure the appliance is cold before proceeding.

The outer metal work frame should be cleaned using a damp cloth.

To clean the glass panel, remove the four M4 nuts fixing the glass clamp to the glass panel. (See Fig 8). With the nuts removed, pull the glass clamp clear of the four studs. Finally lift the glass panel out of the bottom glass fixing.

4 off glass fixing nuts

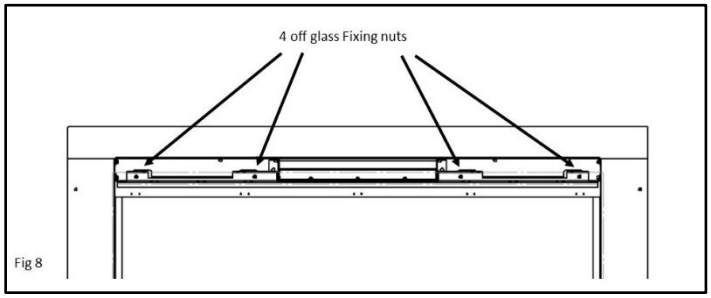


Fig 8

Using a damp cloth and warm soapy water will remove most stains. For more substantial marking we recommend the use of ceramic hob cleaner. These are available from all leading supermarkets. The brands of hob cleaner we have tested and found suitable are "Hob brite" & "Bar Keepers Friend". Ensure the glass is dry and re-assemble.

Note- Never operate the appliance when the glass panel is removed or broken. The glass may discolour quickly when first installed, and it should be cleaned. This is due to the burning of the refractory fuel bed shapes.

To Clean the Pilot assembly. Remove the four M4 nuts and glass clamp (See Fig 8). Carefully lift the glass panel from within the bottom location. Remove the log and bark chip shapes. Lift out the air tray assembly from within the burner shelf.

The pilot is located on the right-hand side of the appliance, remove any debris in or around the pilot head and the aeration hole. This can be achieved using the nozzle of a vacuum cleaner. It is advisable not to blow the debris within the pilot head or aeration hole as this may cause more of a restriction and not rectify the problem.

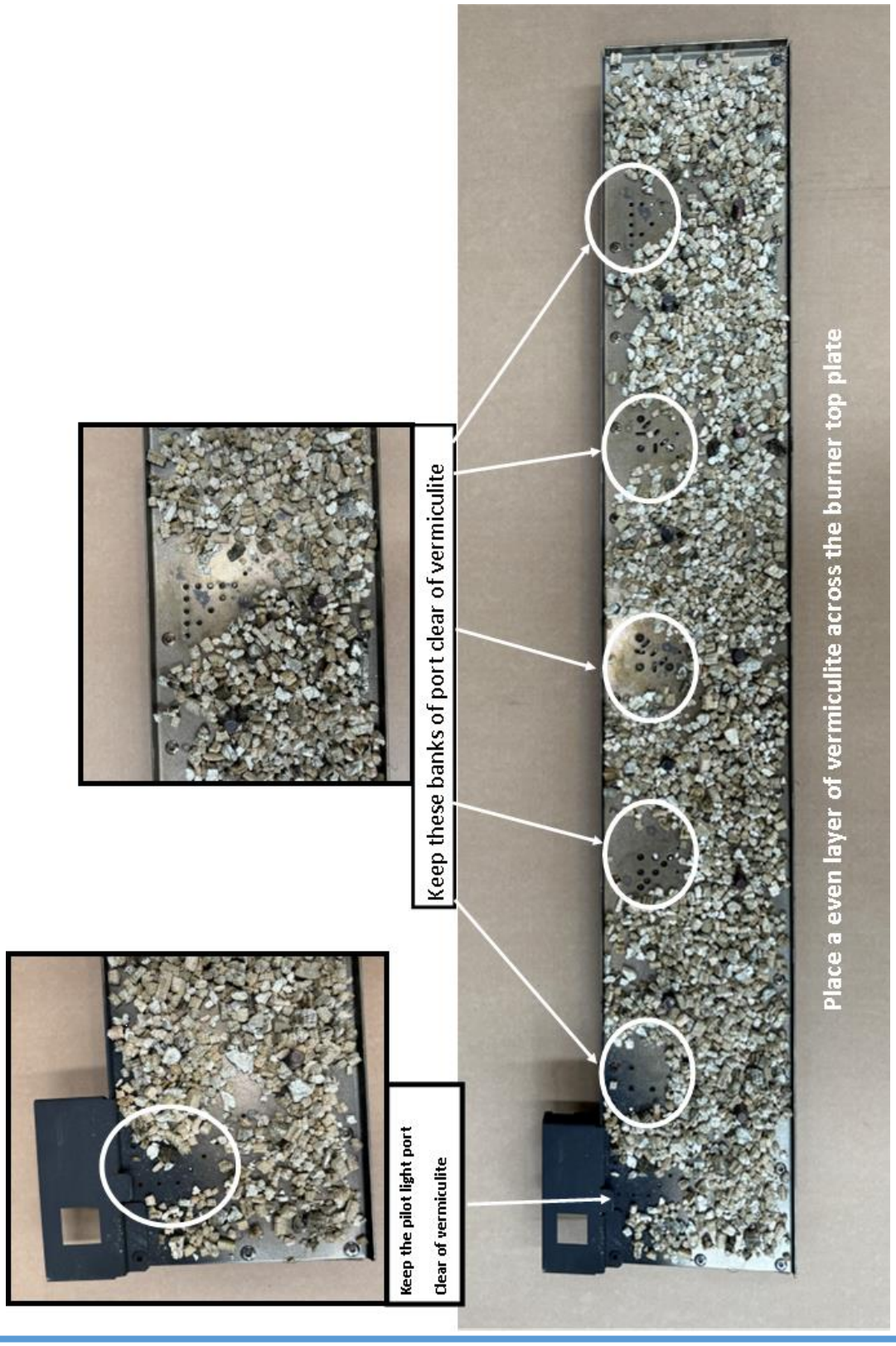
Note-Take care when cleaning in this area so as not to damage the pilot assembly.

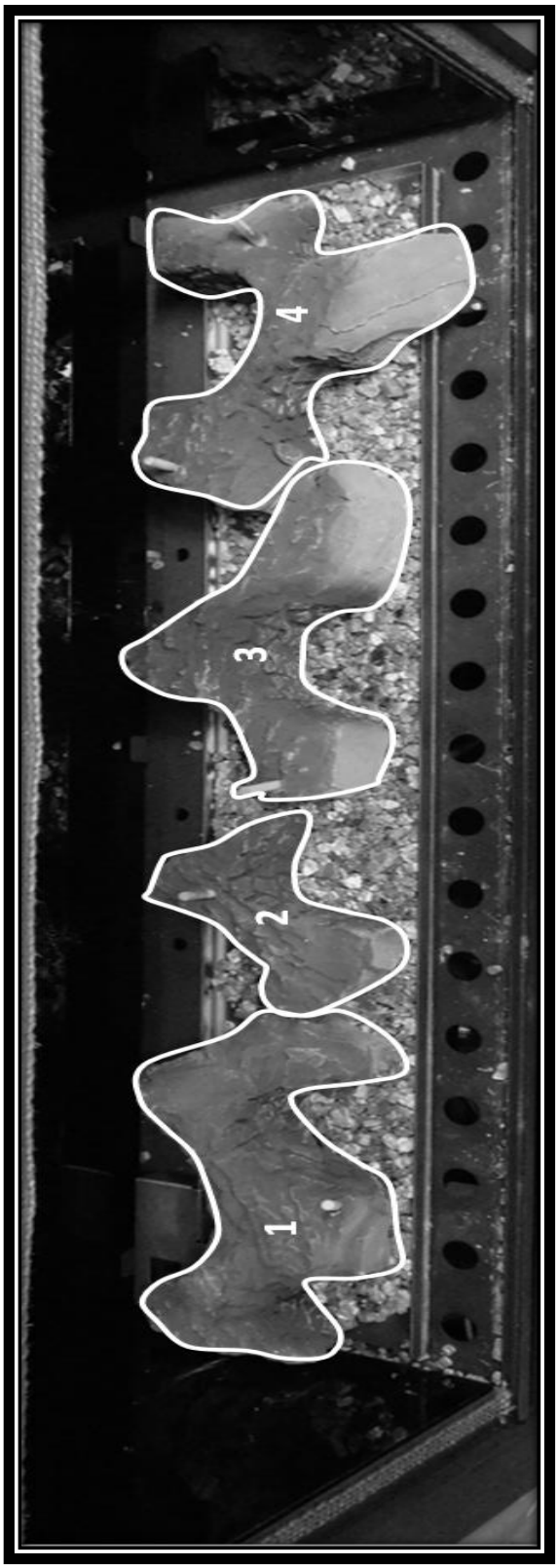
Cleaning the fuel bed shapes. (Please refer to customer protection information on page 2 of this booklet before cleaning or replacing any refractory materials).

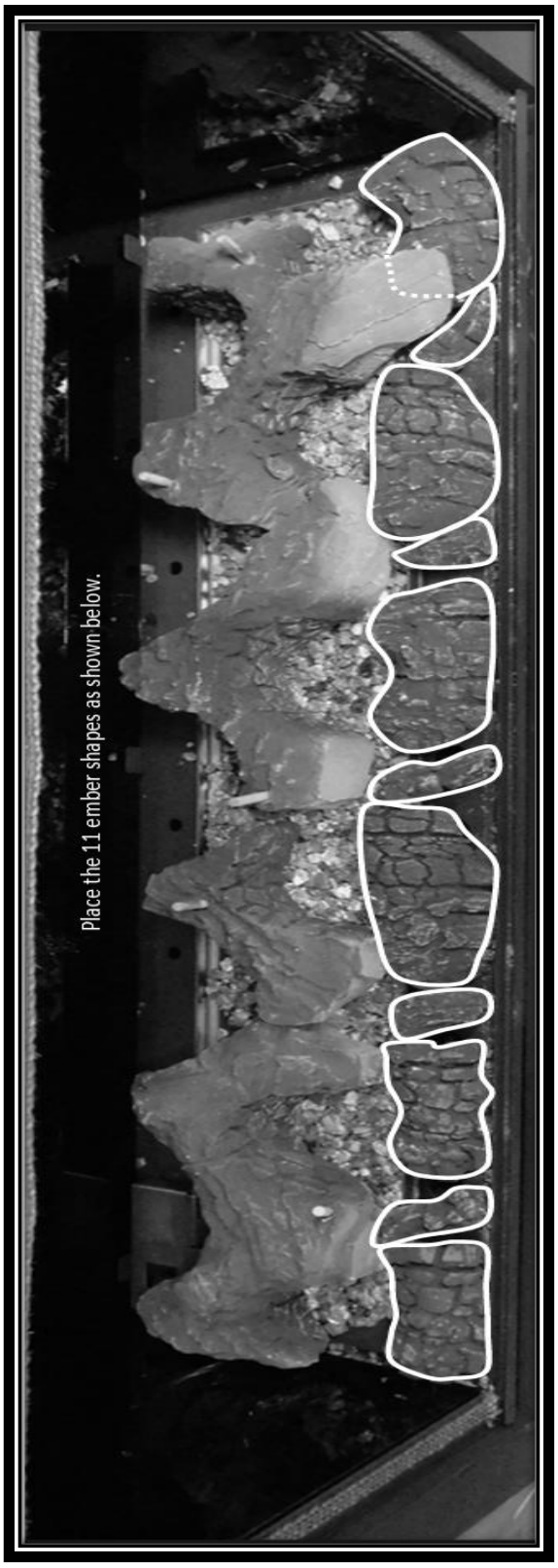
The fuel bed components are delicate, and they should be handled with great care. They can be brushed very gently with a soft brush to remove dust or any deposits. A vacuum cleaner may only be used after the loose components and molded shapes have been removed from the 890 HD fire box.

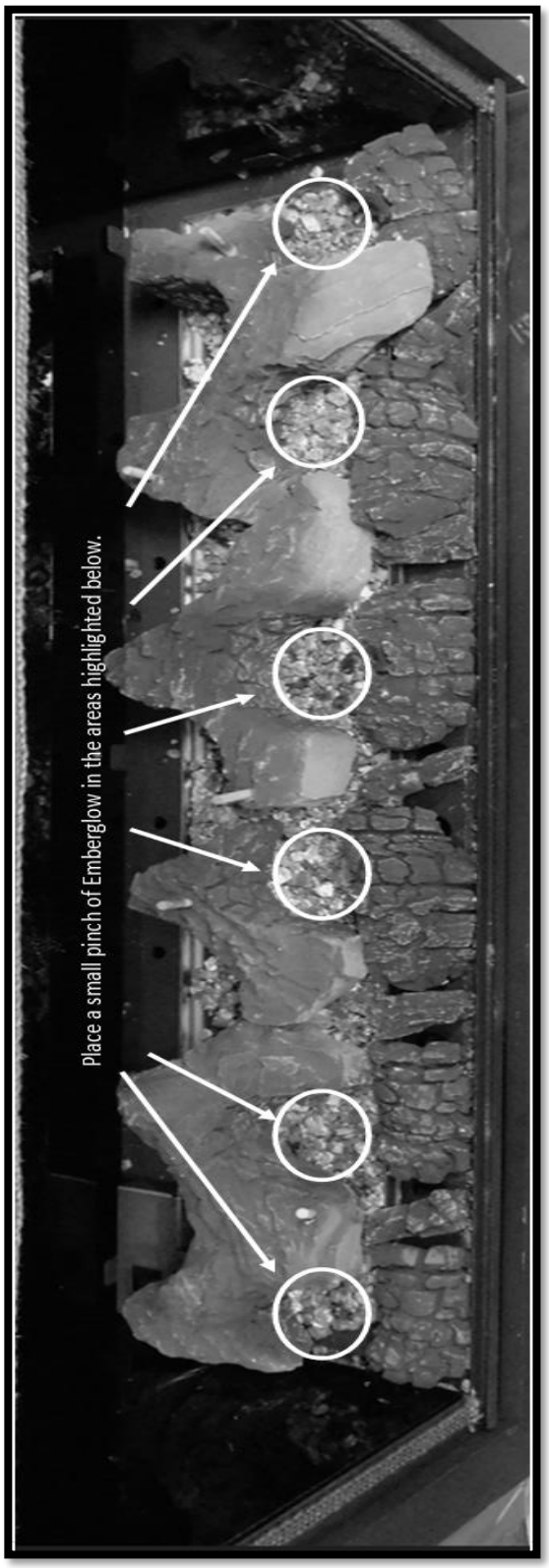
It is important that all fuel bed shapes are positioned as shown in these instructions.

Fuel bed layout.




4
3
2
1


Place the 11 ember shapes as shown below.


Place a small pinch of Emberglow in the areas highlighted below.


6
5

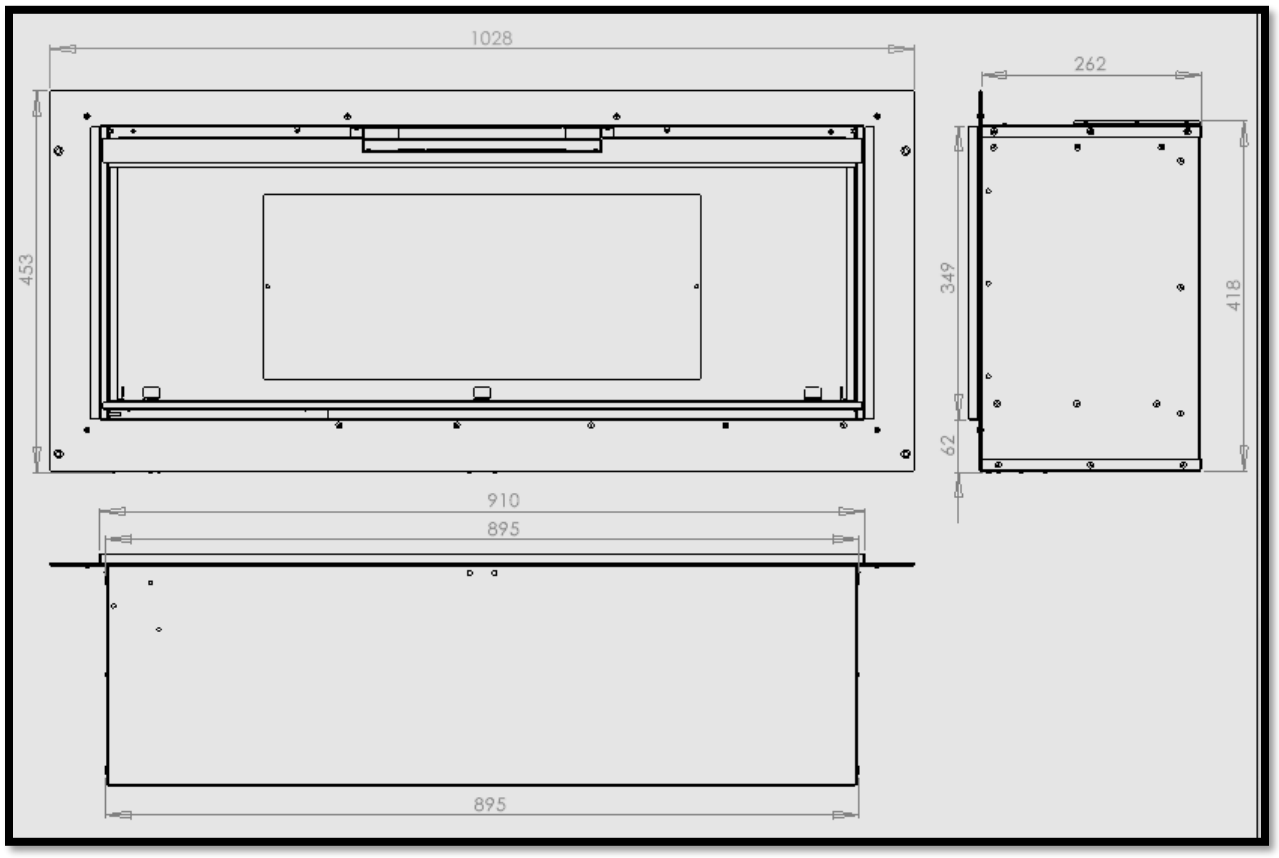

8
7


10
9


12
11


15
14
13

Technical Specification



Model	Gas CAT	Gas Type	Working Pressure	Injector	Gas Input	NOX Class	Oxy Pilot	Country
890 HD CF Mrk2	I2H	Natural Gas	20 mbar	Mrk 460A	6.6 KW 0.660m3/h	5	2900 NGR	GB

Note : The efficiency of the appliance has been measured as specified in BS EN613 : 2021 and the net efficiency rate is 70.3% for natural gas. The gross calorific value of the fuel has been used for this efficiency calculation. Gastec 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 the dwelling.

Packaging Check List
1 x Glass Panel
1 x Air Tray Assembly
1 x Boxed Fuel Bed
1 x Transformer Plug
1 x Battery Holder
1 x Emergency Power Battery Adaptor
1 x RF Handset
4 x AAA 1.5V Batteries

Siting the Appliance

Regulation and warnings

This appliance must only be installed in the country of destination GB.

The appliance is suitable for use on natural gas only.

When fitted in the GB the fire does not normally require purpose provided ventilation

This appliance is intended for use on a gas installation with governor meter.

In GB it is the law that all gas appliances must be installed by a competent person GAS SAFE registered installer, in accordance with the Current Gas Safe (installation and user) Regulations. 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: -

B.S 5871

B.S 5440 Part 1 & Part 2

B.S 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.

The building standards (Scotland) (Consolidated) Regulations issued by the Scottish development office.

Eire the appliance must be installed by a competent person and installed in accordance with the current edition of I.S 813 document gas installation, the current building regulations and the current ETCI rules for electrical installation, if appropriate.

Document J states: a carbon monoxide alarm should be fitted upon the installation of fixed combustion appliance.

Please note-To ensure reliability of operation within a chimney, we strongly recommend that the appliance is fitted in conjunction with a 5" (125mm) suitable flexible lining. Please follow the guidance stipulated on page 22 (method 2) direct connection to the appliance and terminate the flue using a standard 5" (125mm) GC1 cowl.

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

The front of the fire act as a dress guard, conforming to BS 1945 (1971) and satisfies the heating appliance regulations (1991). However, a guard conforming to BS6539 (1984) must be used to protect young children, the elderly or infirm.
This appliance incorporates a safety device in 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.

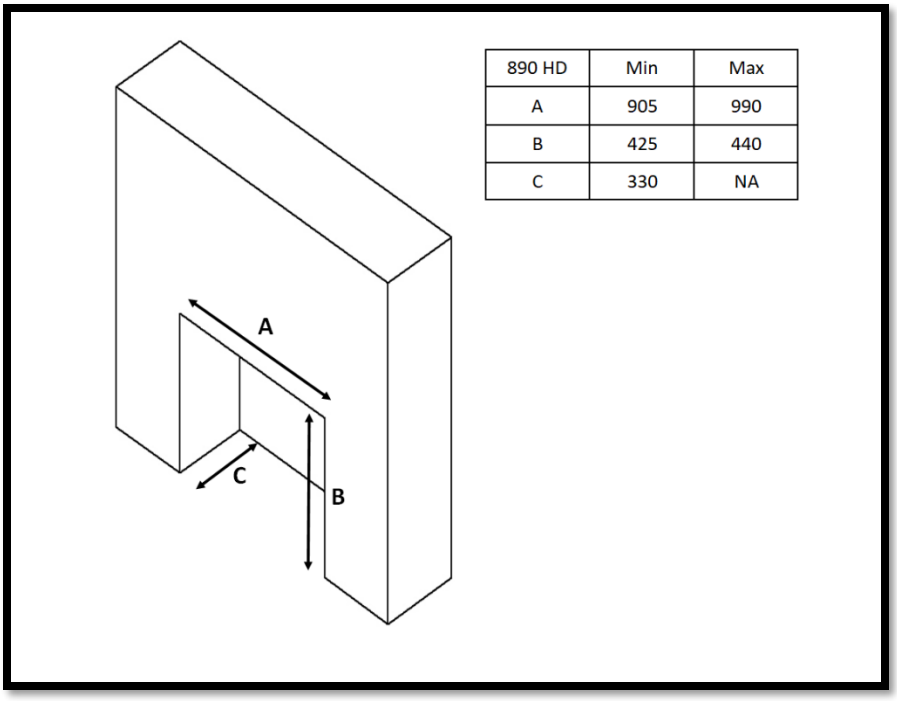
A suitable proprietary fire surround with a 150 degree C minimum rating is required.

Class One

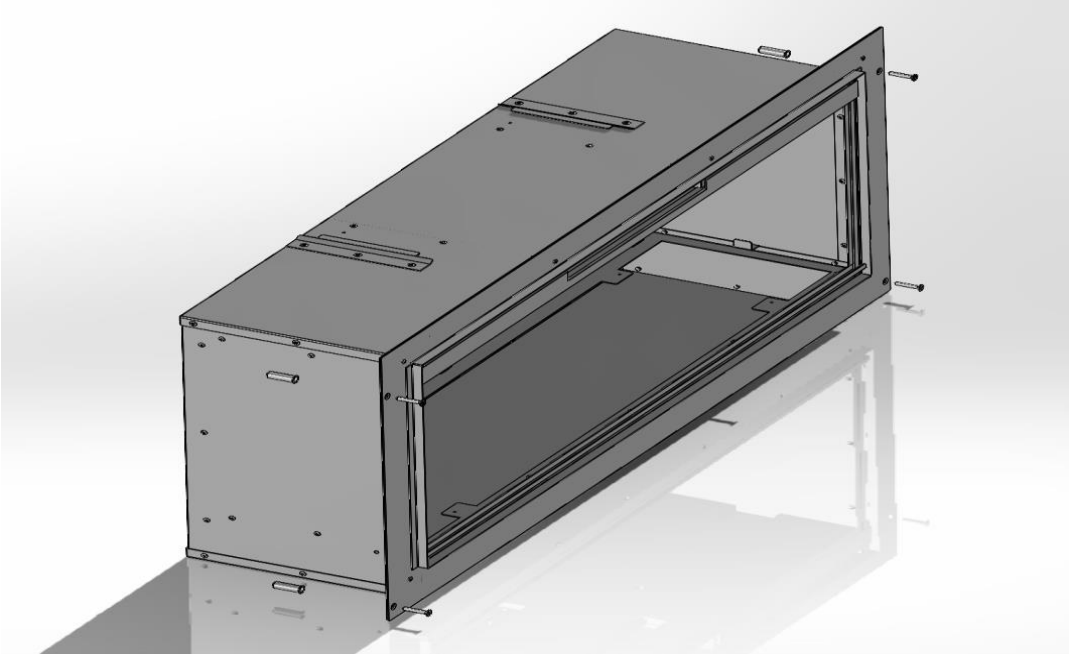
That is a conventional brick or stone chimney as used for a solid fuel appliance with an effective cross-sectional dimension of 225 x 225mm or a lined flue with a minimum diameter of 125mm. The chimney must have a minimum effective height of at least 3 metres. Any permanent flue restriction or variable damper are to be removed or locked fully open. The chimney should be swept prior to installation if it has previously been used with a gas appliance or if it is a new installation.

The 890 HD Mrk2 is designed to be fitted into a class one flue with a fireplace which will require a 25mm rebate. The other option is hole in the wall which can be plastered up to the edge of the fireplace frame or fitted with wall mounted non-combustible slips.

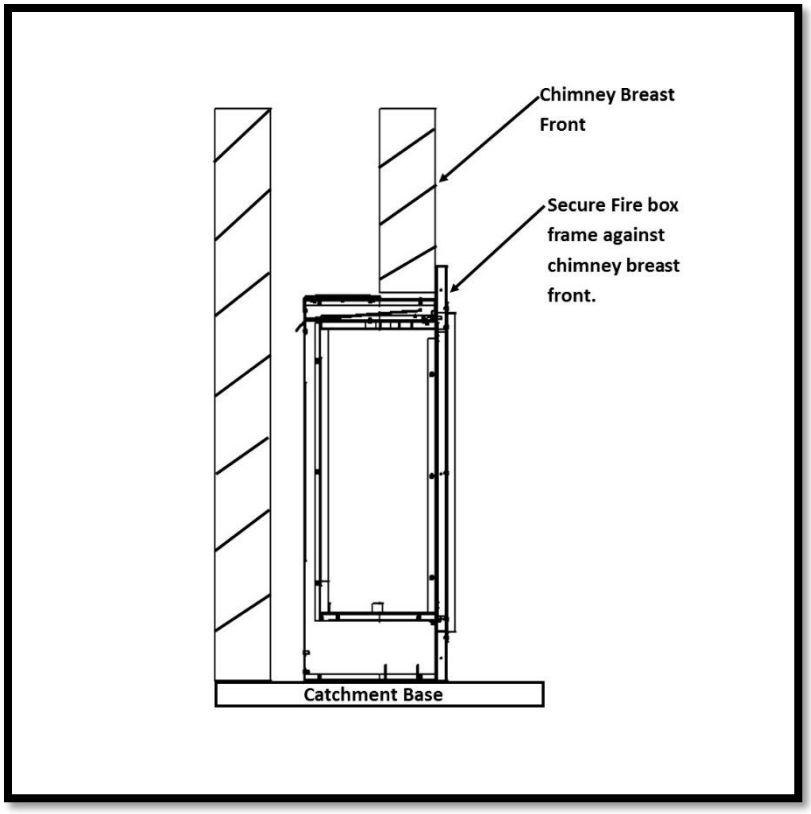
Builder's opening aperture size required.



890 HD	Min	Max
A	905	990
B	425	440
C	330	NA



Please note the fire box height from the floor may well vary dependent on the fireplace surround design or the hole in the wall height required. Check the fireplace details first. Slide the fire box back into the catchment area and secure the fire box against the front face of the chimney breast. The firebox flange as four fixing holes 6mm fixing holes. Use these holes to retain the fire box back against the wall using suitable raw plugs and screws.



Checking the flue fire opening and fire opening.

Check that the chimney conforms to the required specification as previously stated. Examine the condition and carry out any remedial work including removing any debris from the base.

If the flue has been used for solid fuel it should be swept prior to installation.

Prior to installing the appliance, a smoke test (using a 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 retest. If there is any uncertainty examine for the cause and if necessary, seek expert advice.

When installing the appliance against a dry lined plasterboard wall ensure that the void between the plaster board and wall is sealed with a non-combustible material.

No combustible material should be fitted inside the fireplace opening.

Installation with a flexible liner

The 890 HD Mrk2 is designed for installation within the masonry chimney with or without a flexible line.

If the flexible liner option is required, the following two methods should be followed.

Method 1

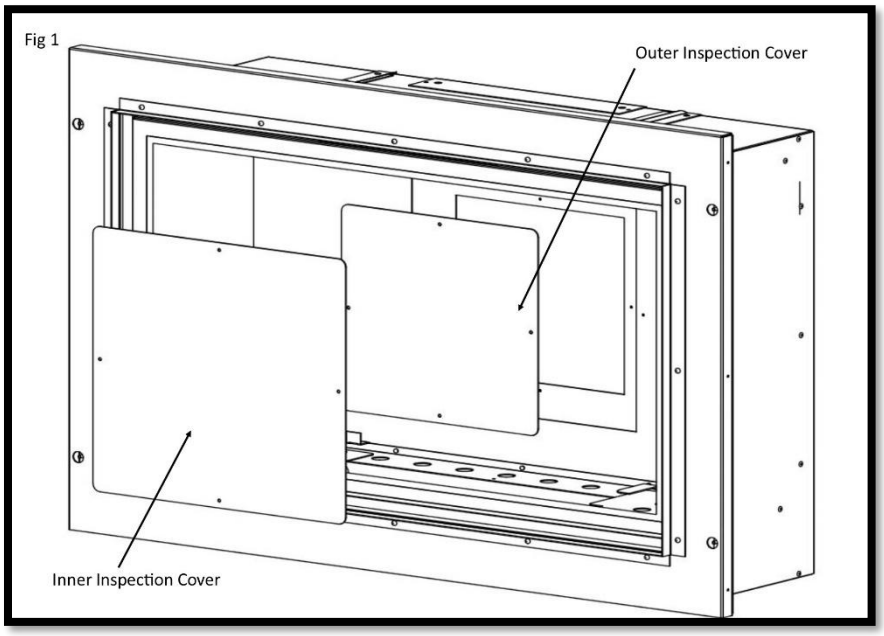
A 125mm minimum diameter liner conforming to BS 715 may be used. Providing a suitable sealing plate is fitted to the base of the liner and the appliance does not restrict the opening into the liner. Ensure a smooth lead into the flue way and no combustible materials are used. A void of 50mm must be maintained from the top of the firebox into flue.

Method 2

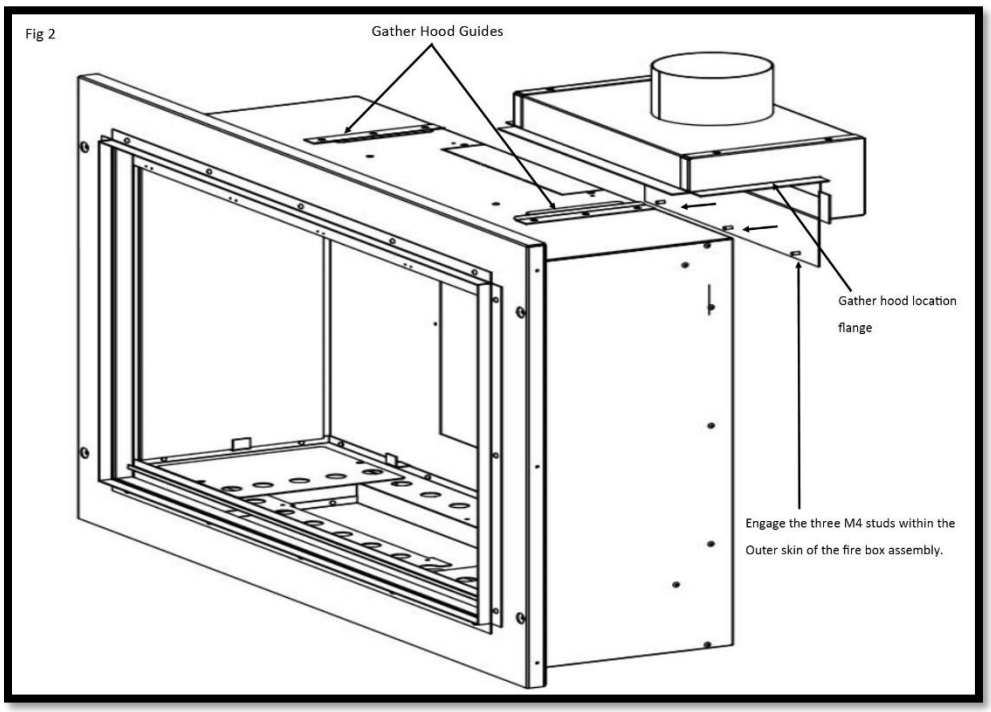
Using the flexible liner gather hood (Part No A-0662). Using again 125mm minimum diameter liner conforming to BS 715, route the flexible liner within the masonry as of the requirements stipulated by the liner manufacturer.

Attach the gather hood to the liner using a suitable fixing at a height that clears the firebox assembly.

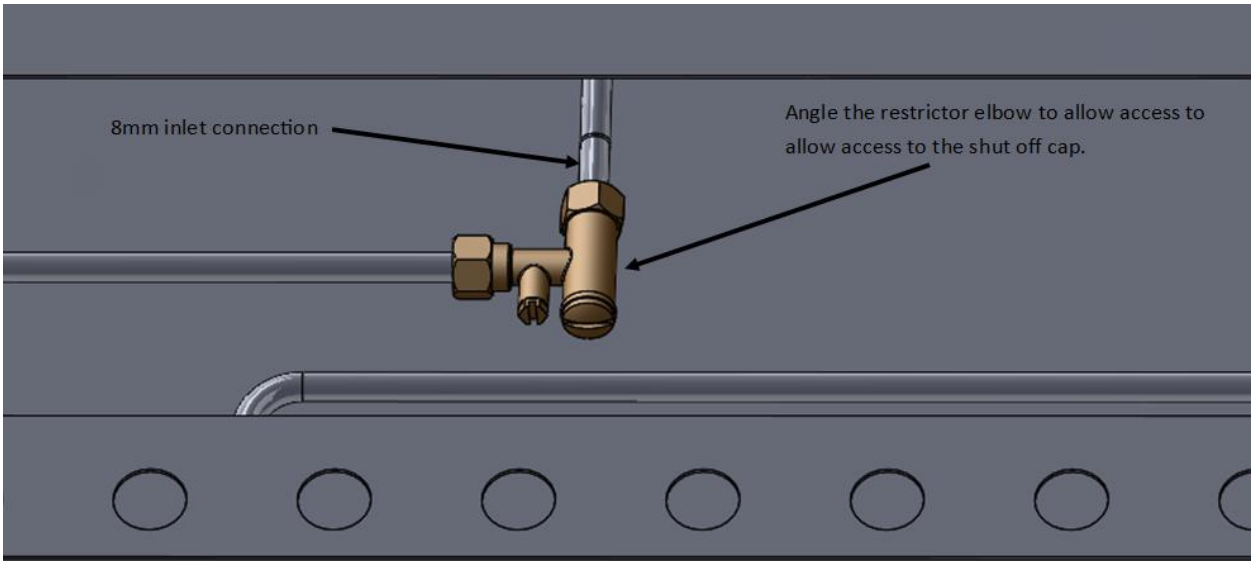
Remove the inner and outer inspection plate situated within the rear of the fire box assembly (Please see Fig 1).



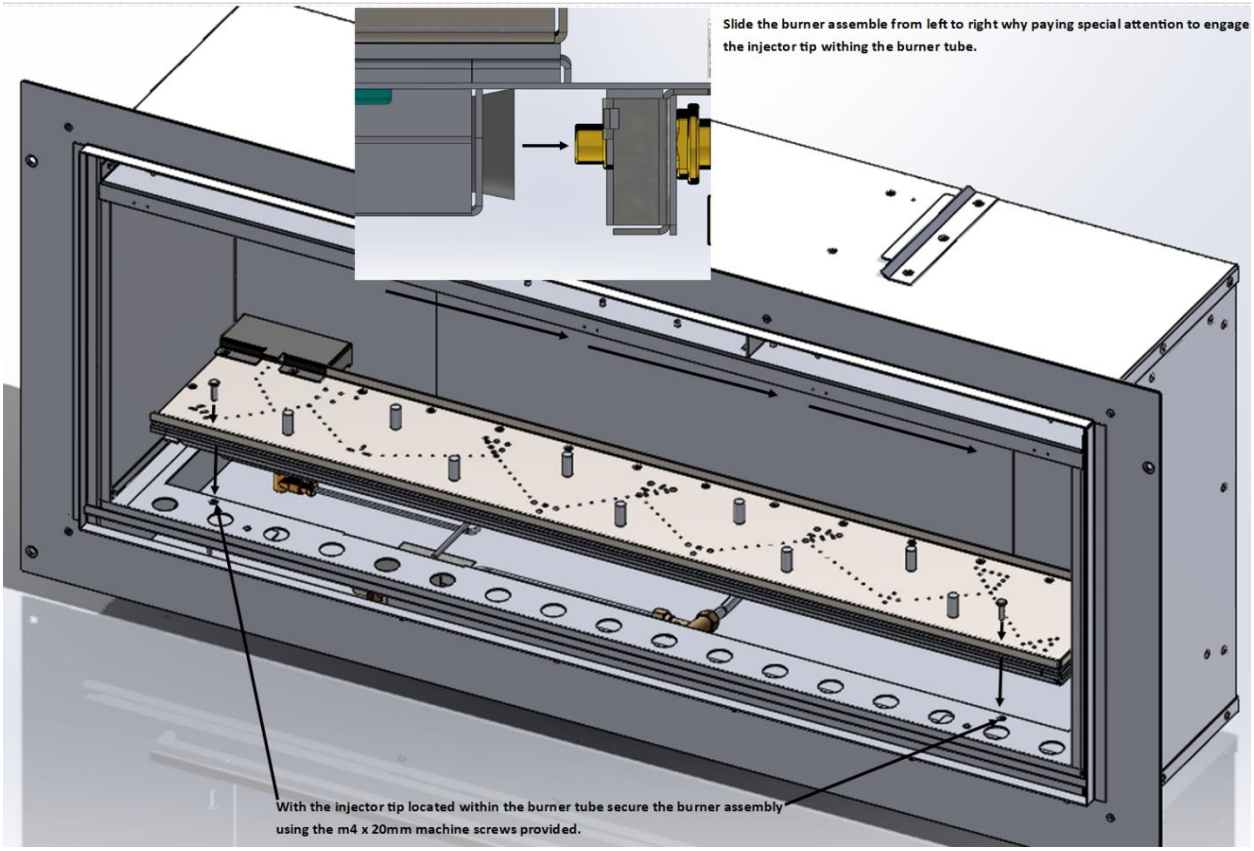
Offer the fire box assembly within the masonry aperture at the same time guiding the gather hood within the guides situated on the top of the fire box (Please see Fig 2). Engage the hood studs within the slotted holes and secure using the three M4 nuts provided within the gather hood kit.



Gas supply routing.



With the gas connection made. Now proceed to fit the burner assembly following the guidance.



Power lead routing

The power supply for this appliance is provided via AC power adaptor 230 VAC. The main cable terminates the rear left hand side of the fire box. The length of the cable provided with the appliance is 1.65 metres. Care must be taken when siting the fire box not to trap the exposed main cable within the builders opening.

Note: the power cable link to the transformer must be accessible for repairing handset and use with the battery holder

The cable can be routed using the following two methods,

Method 1

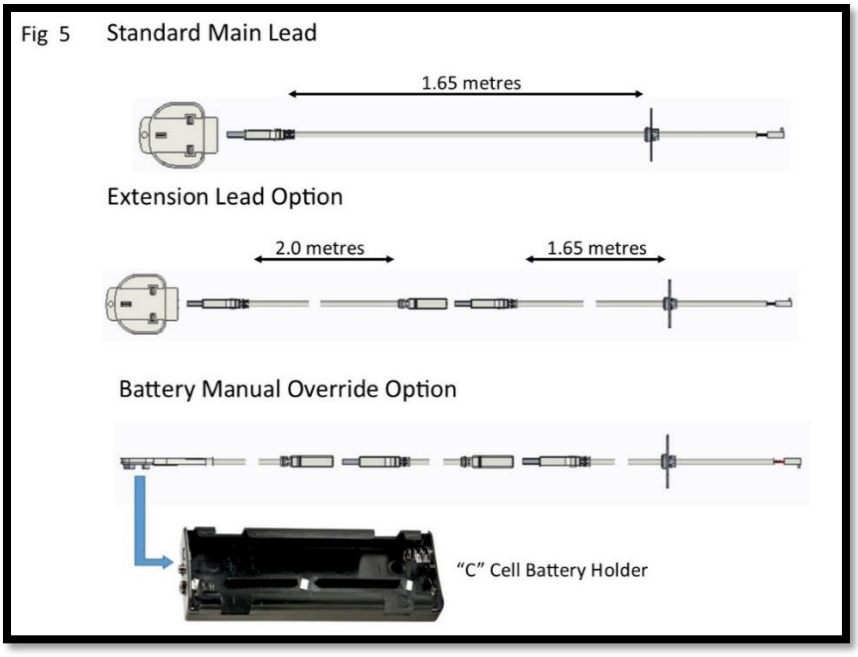
Passing the cable through the side of the chimney breast. It is good practice to run the cable within a sleeve of at least 15mm internal diameter, sealing the sleeve using a suitable sealant at the point the sleeve / cable terminates the chimney masonry.

Method 2

Remove a channel out of the outer skin of the Dry / wet plaster of the chimney breast up to the main power point. Again, it is good practice to run the cable within a sleeve of at least 15mm internal diameter.

With power points that exceed the 1.65 metre distance, an optional 2.0 metre extension cable is available Part No 7147.

The cable system consists of retro fitting plug sockets which offers the following options. (Please see figure 5).



The battery manual override option is a back-up supply in case of a power failure / power cut to the property. The battery holder and adaptor lead are provided within the packing of the appliance. (Please note that the "C" cell batteries are not included). It is good practice to demonstrate the battery option to the customer during the commissioning process.

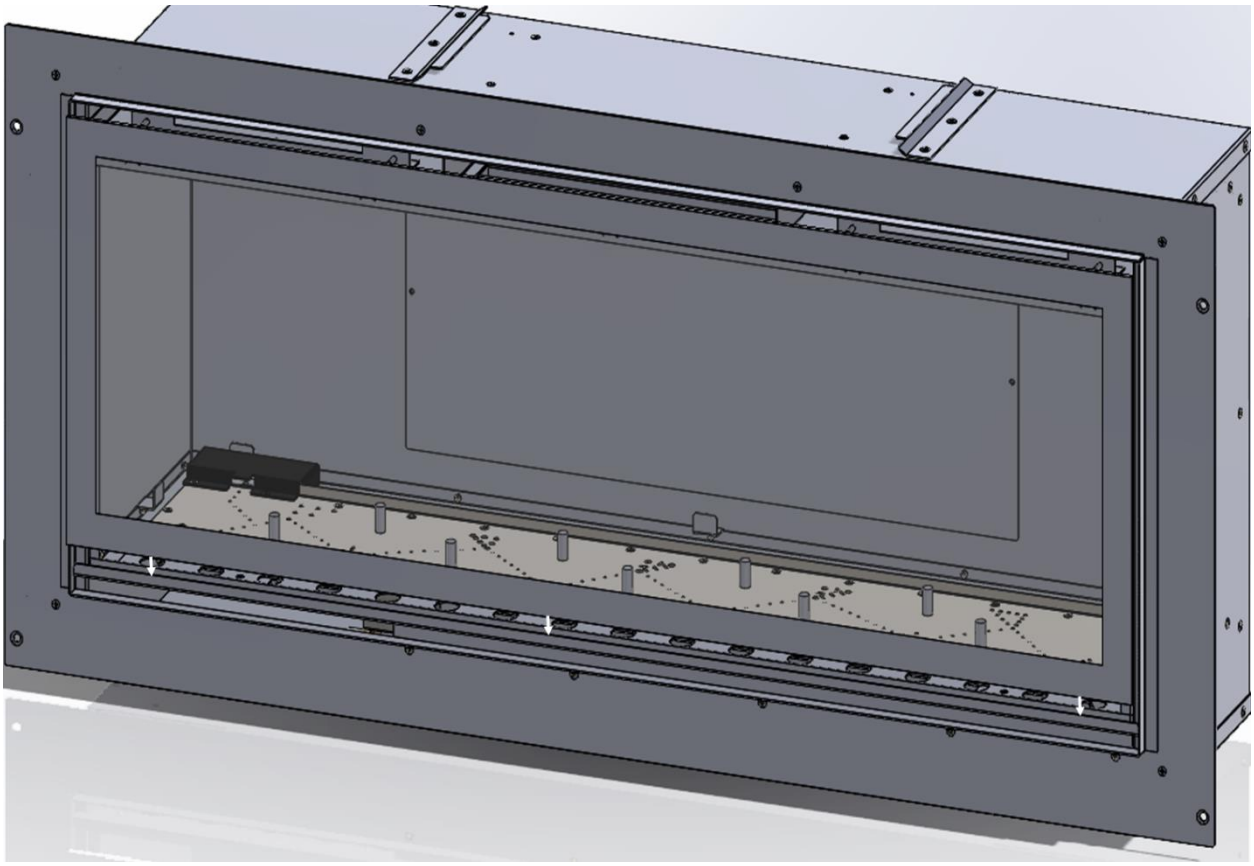
Fuel Bed Layout.

Fuel bed layout should be fitted using the guidance stipulated on pages 10 to 15 of the user instruction section.

Fit Glass Panel.

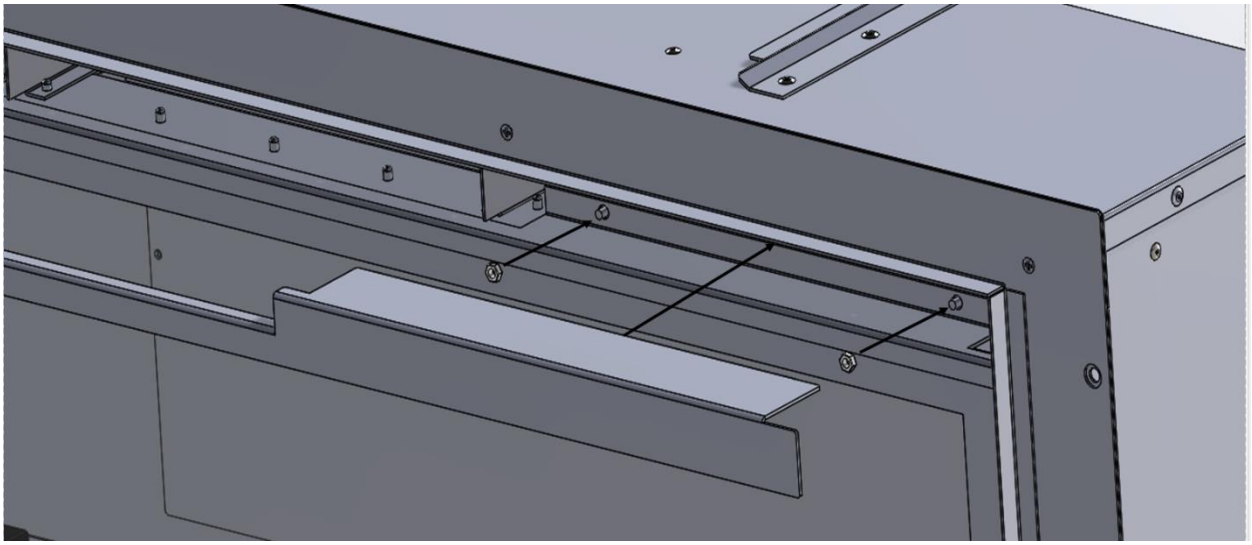
Due to transit protection, the glass panel is packed with a protective sleeve within the packed appliance. Special care should be taken when removing the glass panel from the packing. The top fixing is attacked to the fire box via 4 off M4 fixing nuts. Remove the nuts and remove the top fixing bracket. (Please see fig 8 (page 9) within the user instruction section).

Locate the glass panel within the bottom retaining slot and push back against the seals.



With the glass panel in place slide the top retaining bracket into the 4 studs located within the roof of the fire box. Secure using the four M4 nuts.

Finally hook the glass fixing cover over the two-retaining bracket with the firebox roof space.

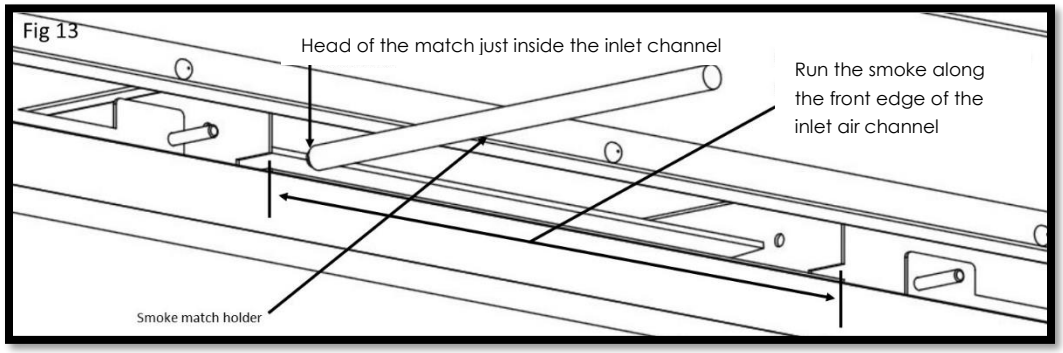


Spillage Test Procedure.

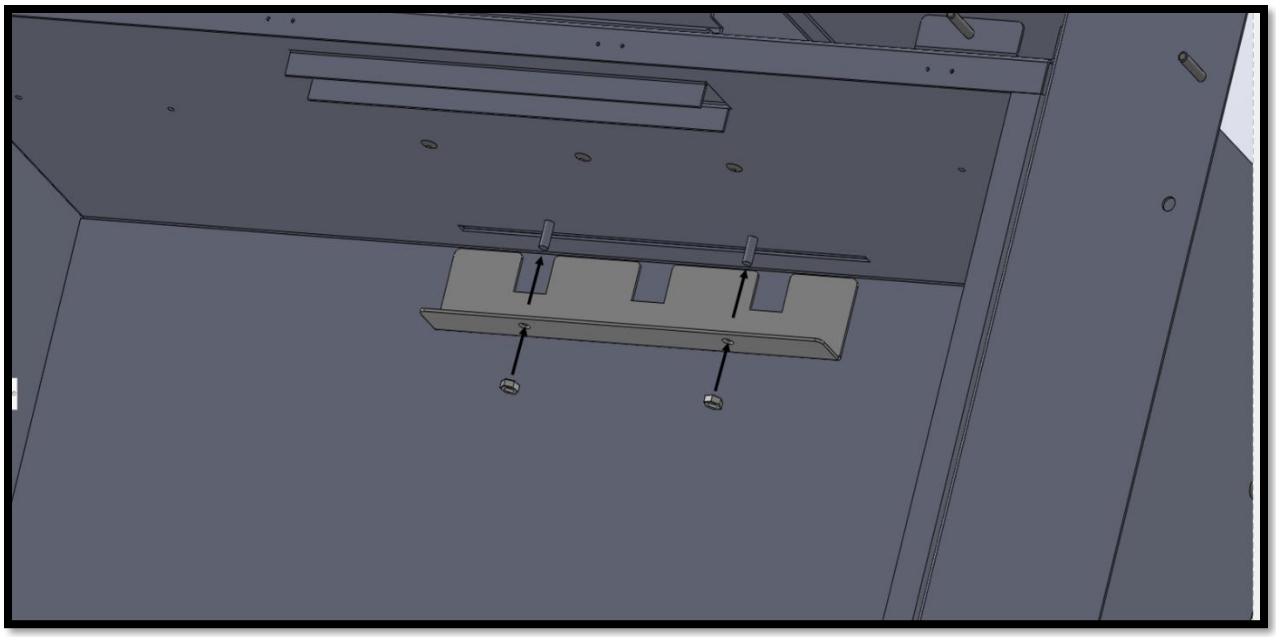
Light the appliance on maximum setting.

Close all the doors and windows.

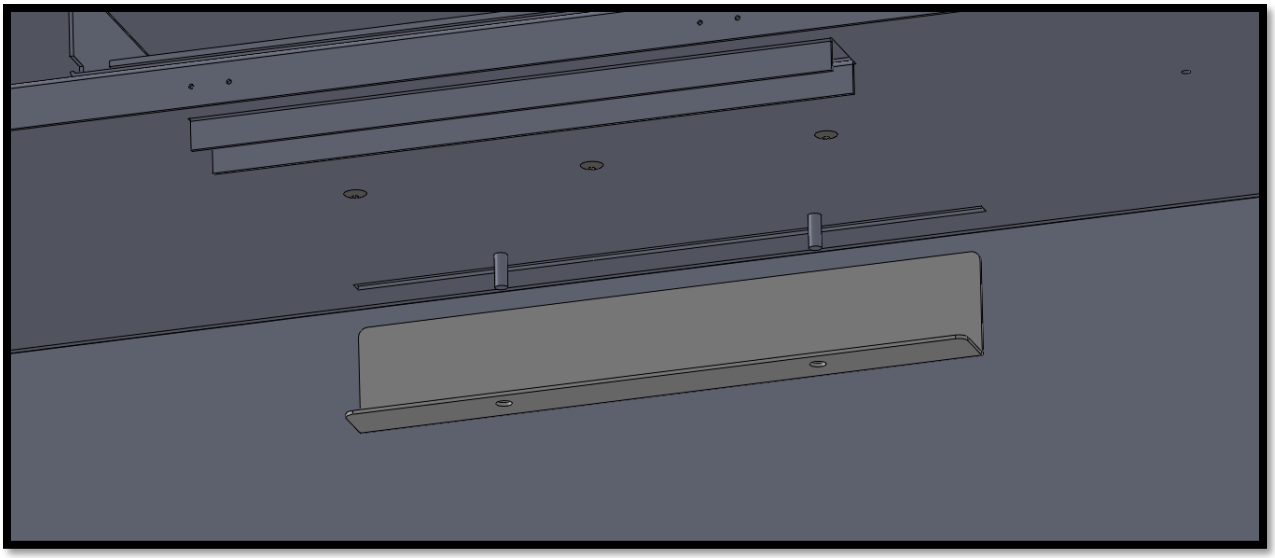
After five minutes fit the smoke match within match holder and position as illustrated in Figure 13 with the head of the match just inside the draft diverter. All the smoke must be drawn into the flue. If spillage occurs allow a further 5 minutes and repeat the test.



If spillage still occurs the factory fitted restrictor plate needs to be removed from the roof of the firebox assembly.



Please fit the 16mm restrictor plate provided with the appliance and repeat the spillage test procedure.



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.

Advise The Customer.

The glass front of this fire acts as a dress guard conforming to BS 1945 (1997) and satisfies the heating appliance regulations (1991) however; a fireguard conforming to BS6539 (1997) must be used to protect young children, the elderly, or infirm.

During initial "burn off", an odor may be evident during the first few hours of use. This is due to the surface coating on the metal work "burning off". The odor produced is harmless and will disappear after a short period of time.

Any debris should be cleared from the appliance.

The appliance should be serviced annually by a Gas Safe registered engineer in accordance with the Service instruction section.

Point out the position of the power source for the appliance, plus demonstrate using the additional battery holder and adaptor lead, the battery backup option. ("C" cell batteries not included within this appliance).

Demonstrate the lighting and extinguishing procedures to the user and the removal and refit of the glass panel for cleaning and the fitting of the battery back-up kit.

Hand this instruction over to the user along with the battery holder, adaptor lead plus M4 nut runner for the removal of the glass panel.

Please be aware that the non-reflective glass may in some lights and from some angles have a blue tinge to it this is perfectly normal. Also be aware that if the glass liners are fitted in the fire with the non-reflective glass, you will still have a reflection in the glass liners.

Annual Service Requirement.

General

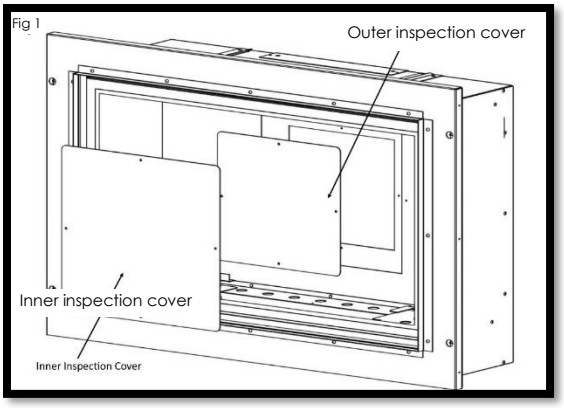
Servicing should be carried out annually by competent person whose name appears on the gas safe register. All Gas Safe engineers should possess an ID carrying the logo below.

Before commencing any service or replacement of part, turn off the gas supply to the fire. After servicing check for gas soundness.

When ordering spare parts please quote the appliance name and serial number.

Check for debris

At least once a year check for debris in the catchment area behind the fire and in the flue way. To undertake this, check the following procedure should be followed.



Remove the four M4 nuts fixing the glass clamp to the glass panel. (See Fig 8 – page 9). With the nuts removed, pull the glass clamp clear of the four studs. Finally lift the glass panel out of the bottom glass fixing.

Remove the log shapes.

Remove the burner assembly following the guidance on page 39 of the maintenance instructions.

Shut off the restrictor elbow and disconnect the 8mm inlet nut.

Switch off the mains supply from the main supply plug socket.

Undo the M3 nut retaining the ECU unit and remove the connection bracket plus disconnect the mains supply cable from ECU.

Take out the four screws retaining the burner tray assembly and lift out of the firebox shelf taking care not to damage the panels.

Remove the two-side liner fixing bracket LH & RH which are situated in the roof of the firebox assembly.

Carefully remove the LH & RH side panels.

Remove the rear panel from within the firebox.

Finally remove the eight screws from the inner and outer inspection covers. (Please see figure 1)

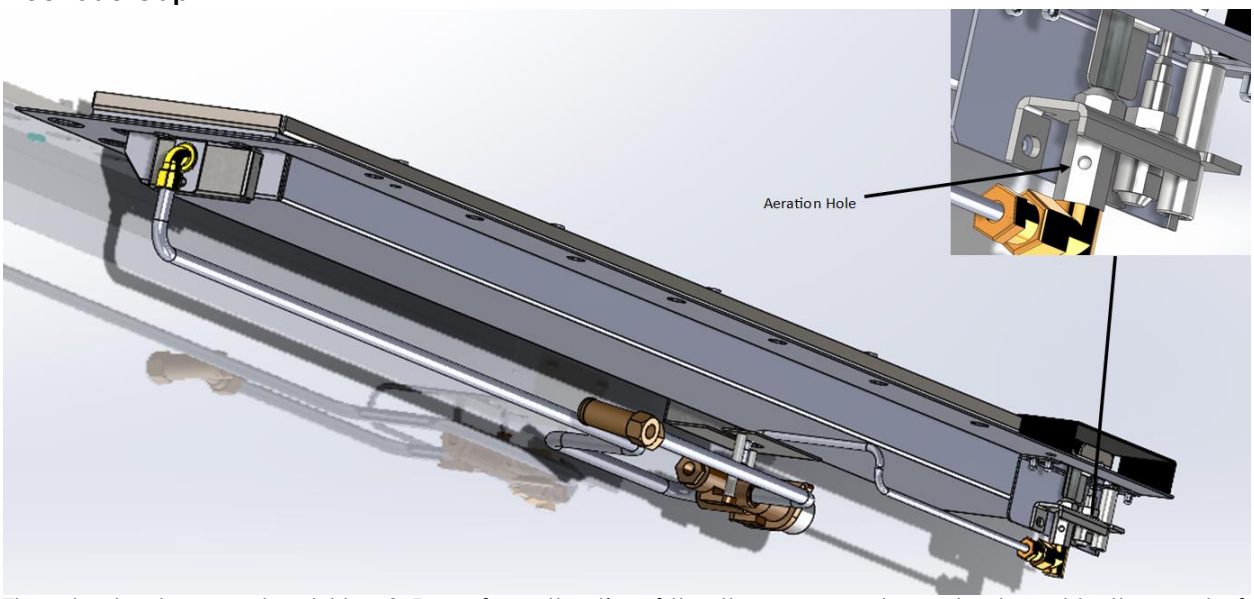
With the covers removed. The catchment area at the rear of the firebox can now be inspected for debris. With the aid of a mirror via the back of the box check the path of the flue for any restrictions.

Re-assemble in reverse order.

Pilot Linting

Check the pilot aeration hole for linting, use a vacuum clearer nozzle taking care not to damage the pilot head. Do not blow compressed air into the pilot as this can lodge debris in the pilot body.

Electrode Gap

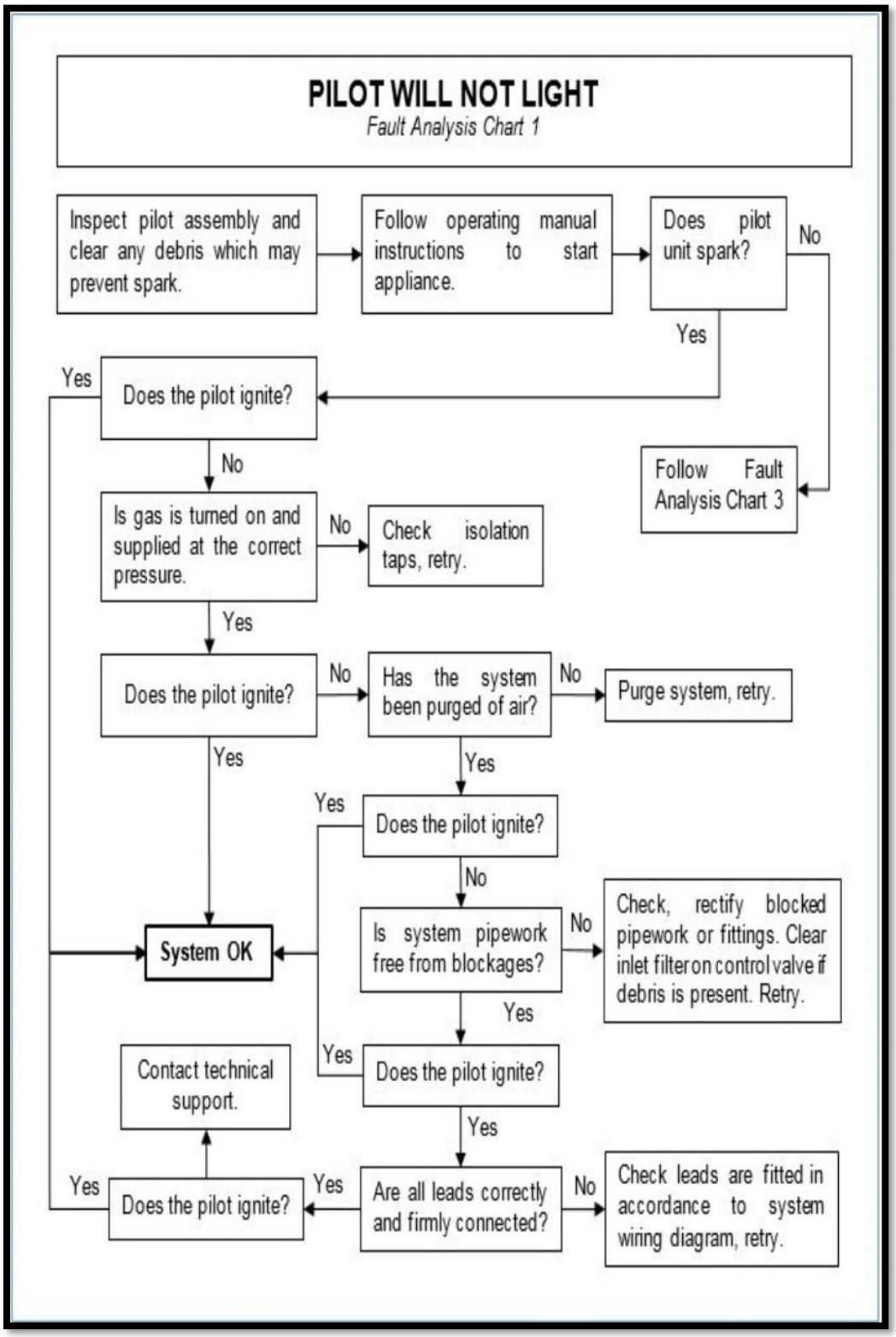


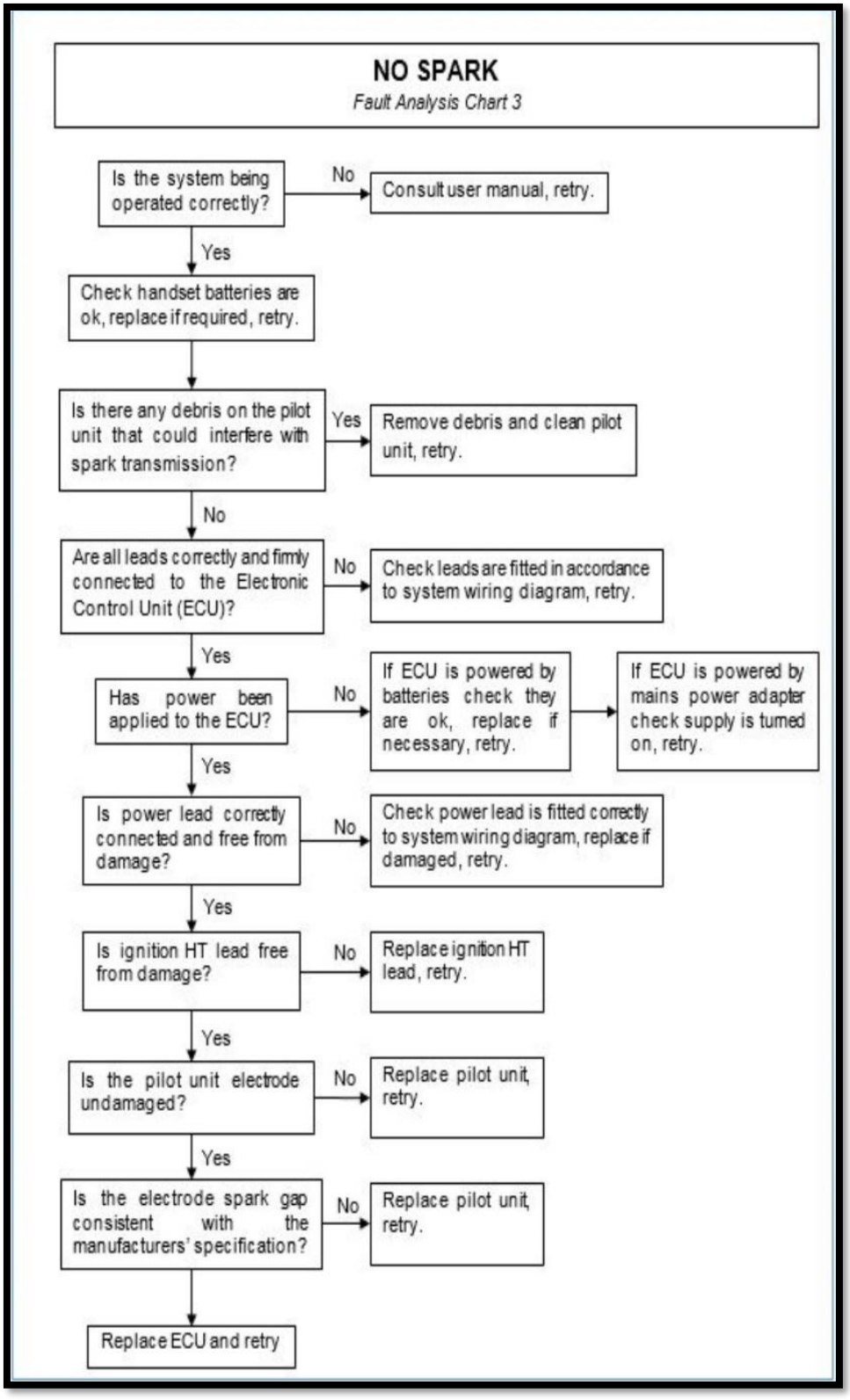
The electrode gap should be 3.5mm from the tip of the thermocouple probe head to the end of the electrode wire.

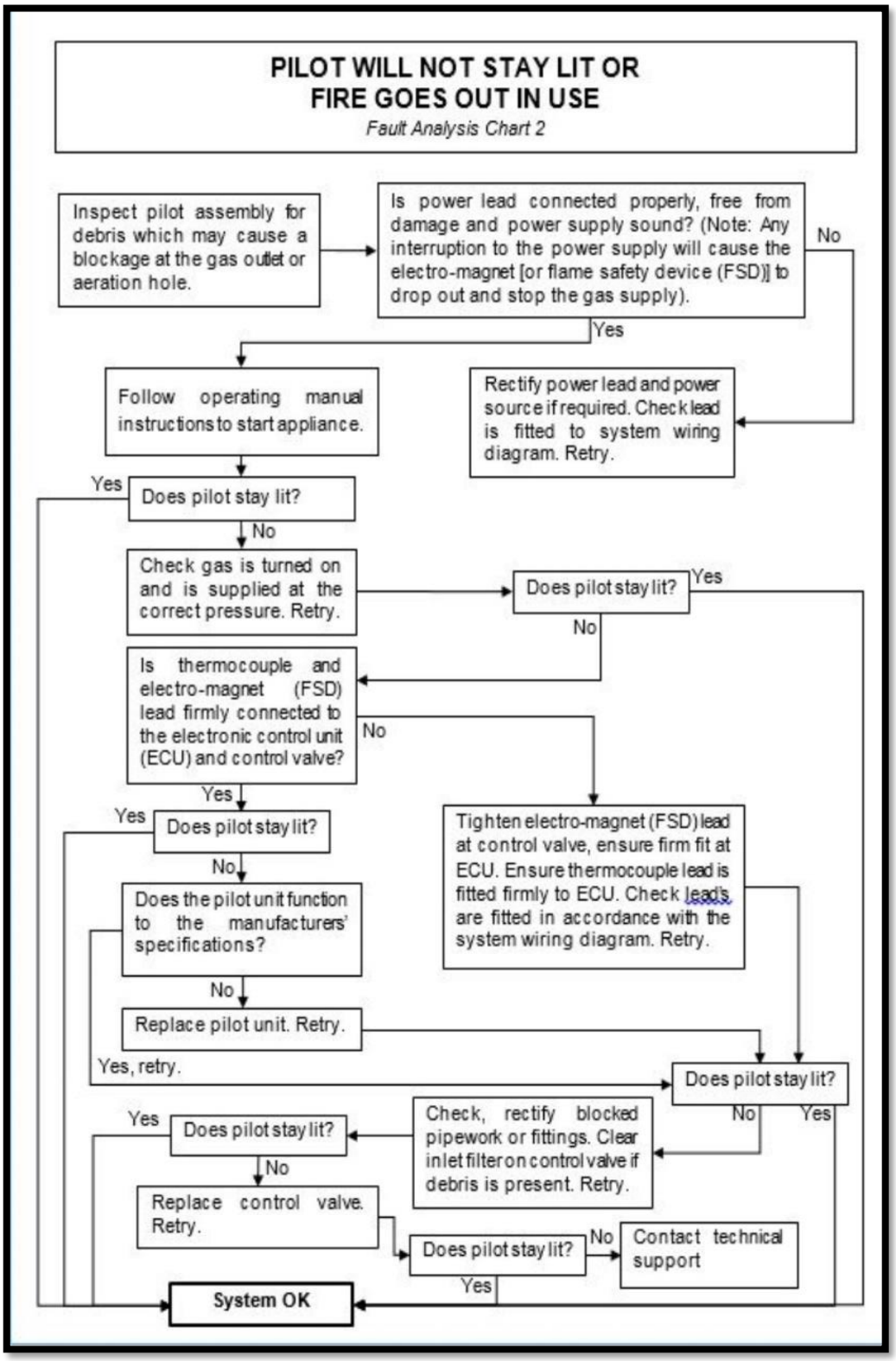
Spillage test

Follow the procedure stipulated on page 34 of the installation instruction section.

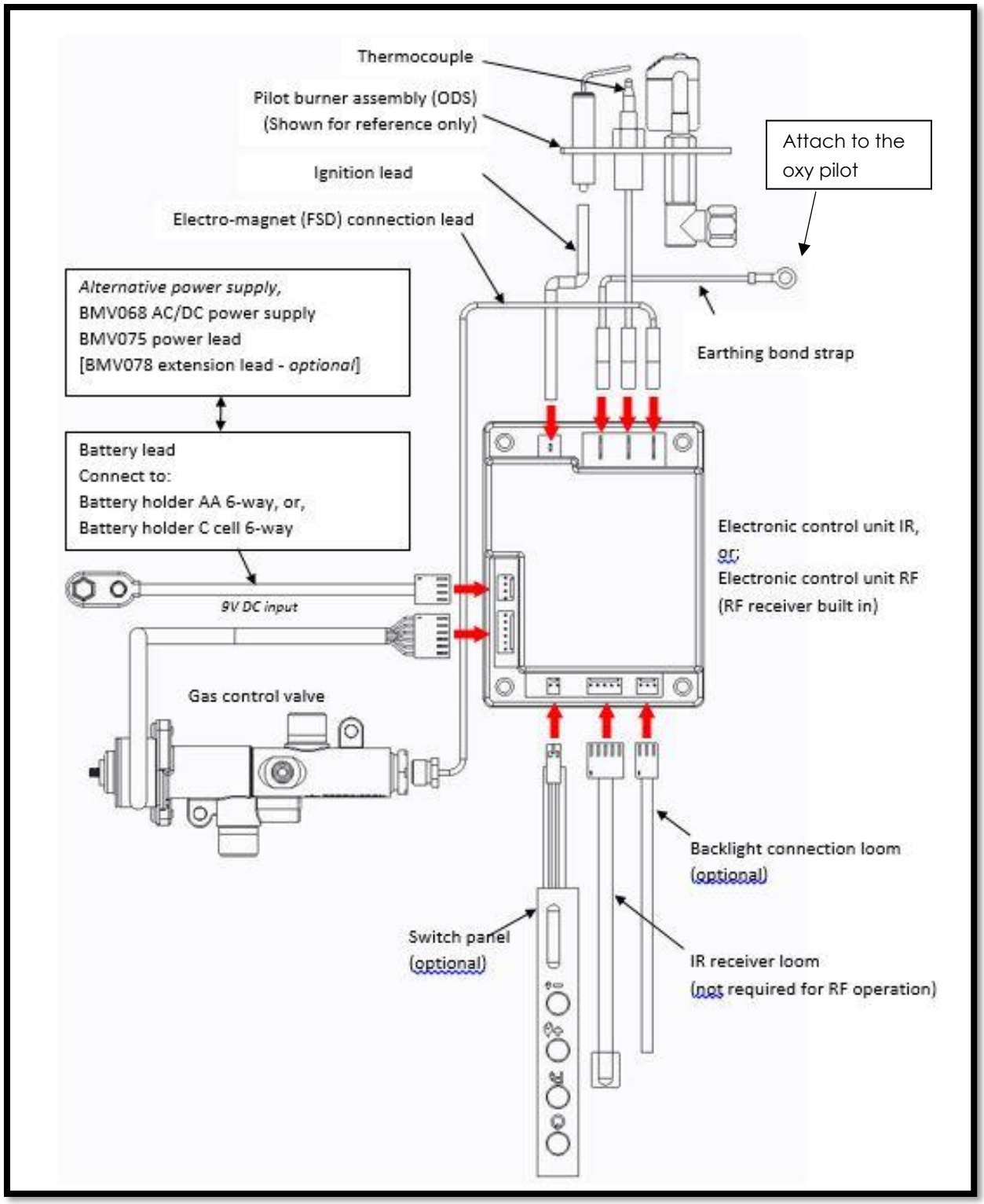
Fault Finding Charts




NO SPARK
Fault Analysis Chart 3
Is the system being operated correctly?
No
Consult user manual, retry.
Yes
Check handset batteries are ok, replace if required, retry.
Is there any debris on the pilot unit that could interfere with spark transmission?
Yes
Remove debris and clean pilot unit, retry.
No
Are all leads correctly and firmly connected to the Electronic Control Unit (ECU)?
No
Check leads are fitted in accordance to system wiring diagram, retry.
Yes
Has power been applied to the ECU?
No
If ECU is powered by batteries check they are ok, replace if necessary, retry.
If ECU is powered by mains power adapter check supply is turned on, retry.
Yes
Is power lead correctly connected and free from damage?
No
Check power lead is fitted correctly to system wiring diagram, replace if damaged, retry.
Yes
Is ignition HT lead free from damage?
No
Replace ignition HT lead, retry.
Yes
Is the pilot unit electrode undamaged?
No
Replace pilot unit, retry.
Yes
Is the electrode spark gap consistent with the manufacturers' specification?
No
Replace pilot unit, retry.
Replace ECU and retry


PILOT WILL NOT STAY LIT OR
FIRE GOES OUT IN USE
Fault Analysis Chart 2
Inspect pilot assembly for debris which may cause a blockage at the gas outlet or aeration hole.
Is power lead connected properly, free from damage and power supply sound? (Note: Any interruption to the power supply will cause the electro-magnet [or flame safety device (FSD)] to drop out and stop the gas supply).
No
Yes
Follow operating manual instructions to start appliance.
Rectify power lead and power source if required. Check lead is fitted to system wiring diagram. Retry.
Yes
Does pilot stay lit?
No
Check gas is turned on and is supplied at the correct pressure. Retry.
Does pilot stay lit?
Yes
No
Is thermocouple and electro-magnet (FSD) lead firmly connected to the electronic control unit (ECU) and control valve?
No
Yes
Yes
Does pilot stay lit?
Tighten electro-magnet (FSD) lead at control valve, ensure firm fit at ECU. Ensure thermocouple lead is fitted firmly to ECU. Check lead's are fitted in accordance with the system wiring diagram. Retry.
No
Does the pilot unit function to the manufacturers' specifications?
No
Replace pilot unit. Retry.
Yes, retry.
Does pilot stay lit?
No
Yes
Yes
Does pilot stay lit?
Check, rectify blocked pipework or fittings. Clear inlet filter on control valve if debris is present. Retry.
No
Replace control valve. Retry.
Does pilot stay lit?
No
Contact technical support
Yes
System OK

Wiring Diagram

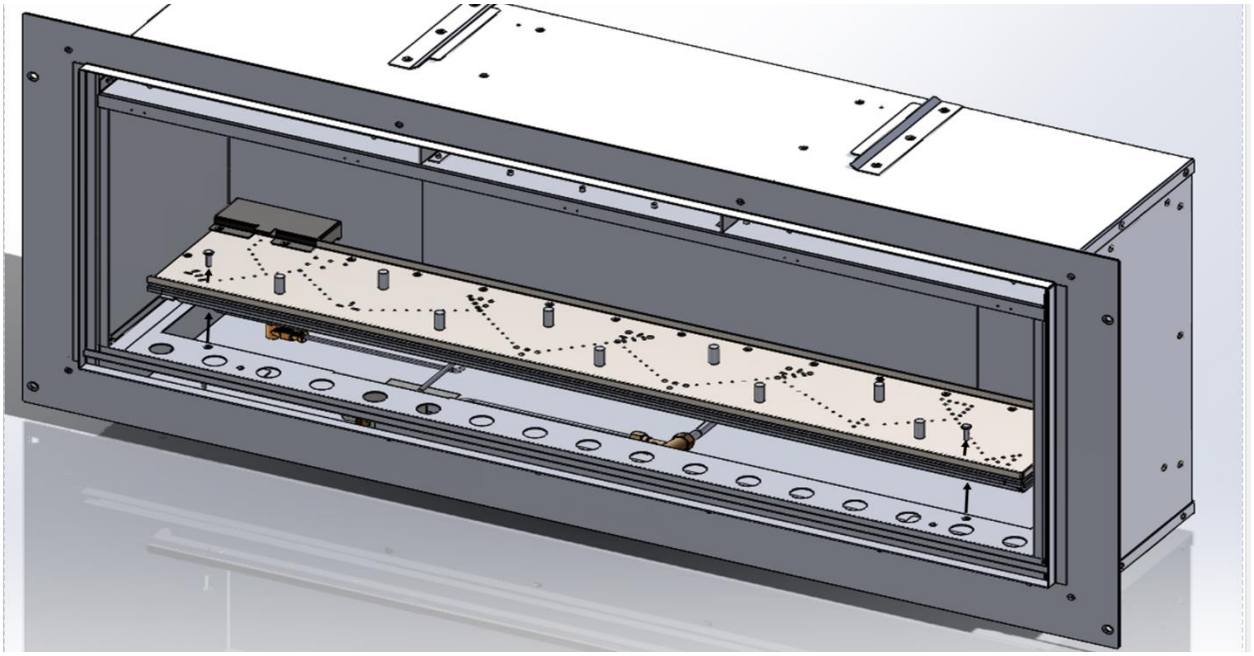


Maintenance

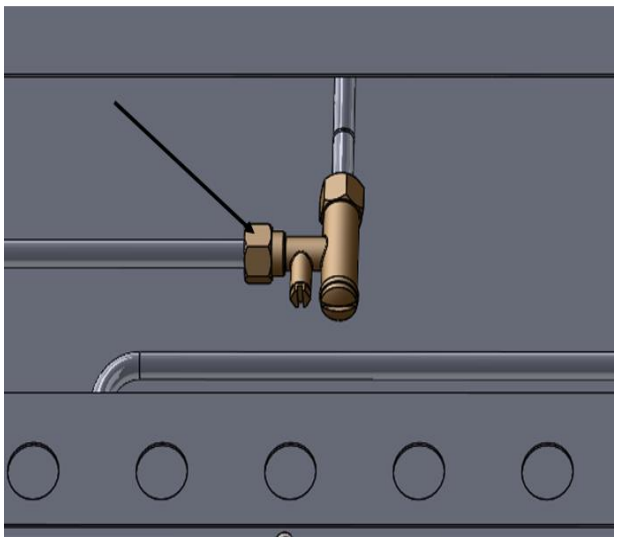
To Remove the Burner Carrier Assembly

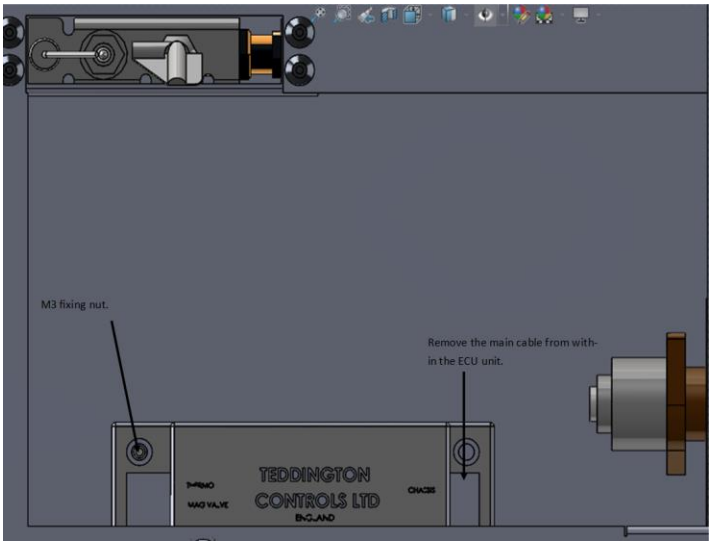
Remove the glass panel as described on page 9 of the user's instruction section.

Remove the two M4 fixing screws and remove the complete burner assembly.

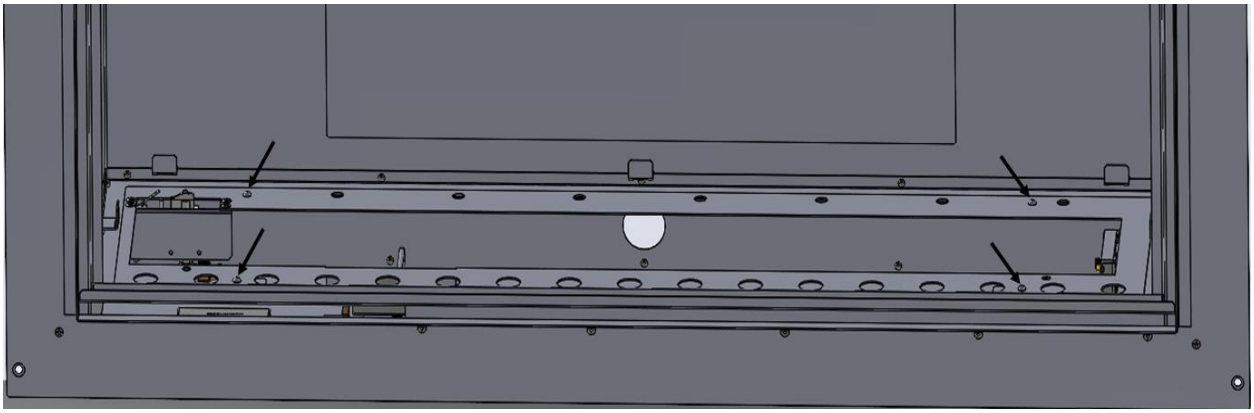


Disconnect the gas supply from the isolation elbow. Remove the M3 fixing nut securing the ECU to the firebox base plate, disconnect the white mains lead from within the ECU unit.

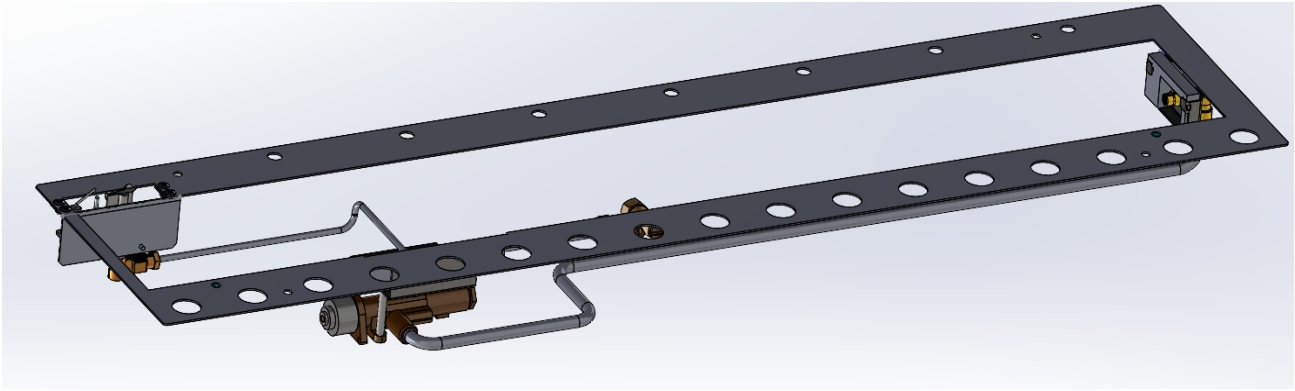




Remove the 4 screws as shown below.

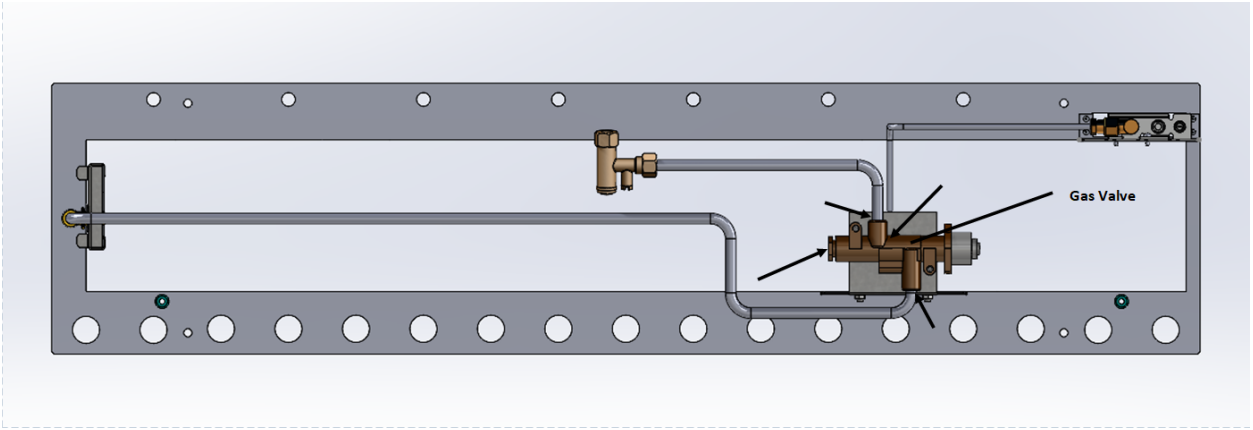


Carefully remove the burner tray from the firebox.



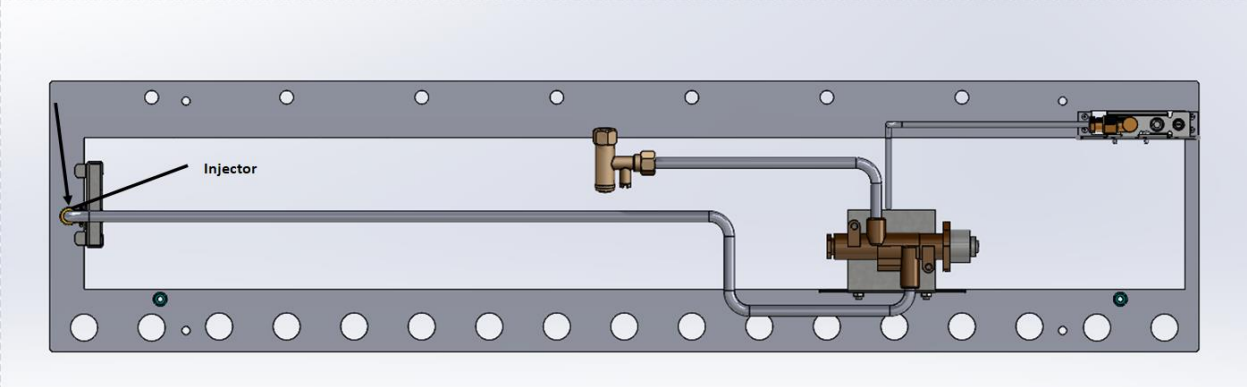
Replacement of the Gas Valve

With the removal of the burner tray, remove the pilot supply nut, the gas inlet tube nut, the main burner outlet nut, the thermocouple nuts and two M3 nuts.



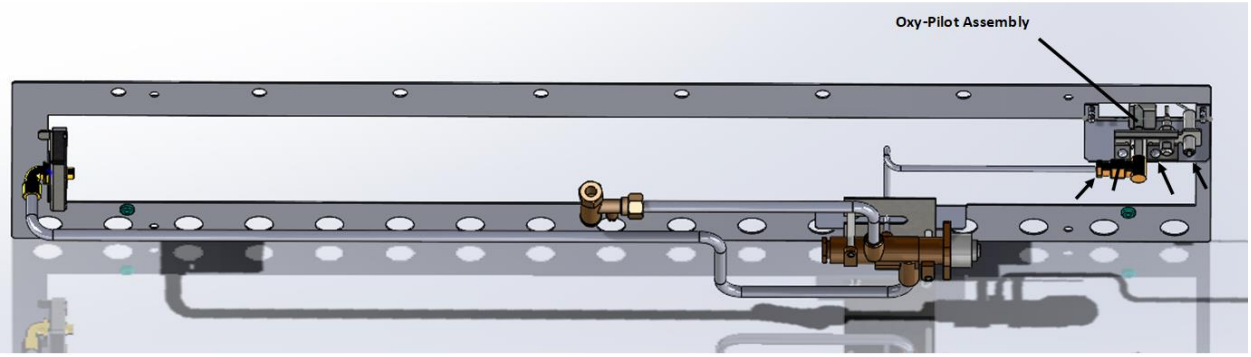
Replacement of the injector.

With the removal of the burner tray. Remove the injector nut plus the locking nut.



Replacement of the Oxy-pilot Assembly.

With the removal of the burner tray, remove ODS gas supply nut, ignition lead from ODS unit, the thermocouple lead harness from the ECU and the 2 screws as shown in the picture below.



Replacement of the Electronic Control Unit (ECU)

Remove the burner assembly following the guidance on page 23 of the installation instructions.

Remove the M3 nut securing the ECU to the firebox base plate pictured below.

Lift the ECU unit clear of the firebox shelf.

Remove the power lead harness, the valve lead harness. Detach the magnet valve connection, thermocouple connection, chassis connection and ignition lead.

The new ECU will now need pair to the current handset. Please follow the pairing process on page 39 of the maintenance instructions "Deleting pairing" and Pairing handset".

Repairing the appliance.

If the EDU Unit or Handset are changed on the appliance the following procedure should be followed to repair the handset.

Press ⏻ to wake the handset if necessary. Press PAIR (see Fig 13) to start pairing. The handset will start searching for the fire control unit (see Fig 14). Why the handset is searching connect the mains power to the appliance. When the remote has paired successfully the id's will be displayed (see fig.15) for a few seconds before returning to the neutral screen.

If the remote fails to pair, switch off the fire for 1 minute, then switch it on and re-try.

You will now have to set the time and day to complete the setup.

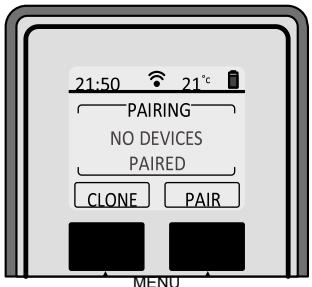


Fig.13

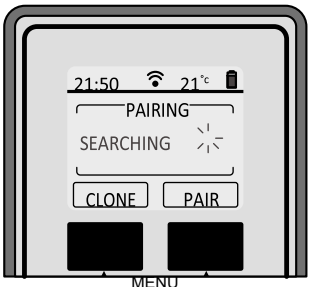


Fig.14

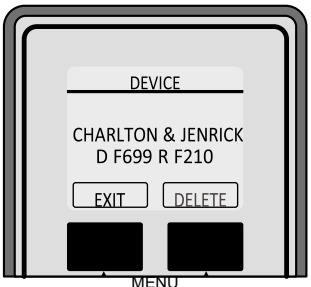
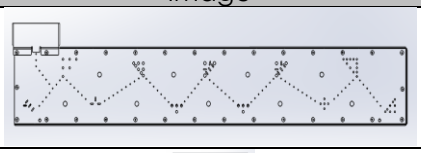
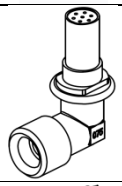
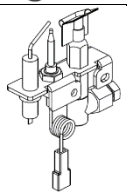
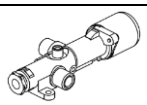
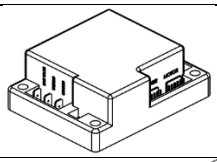
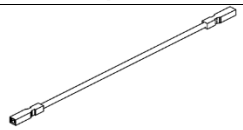
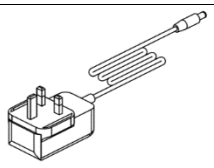
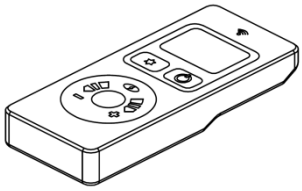
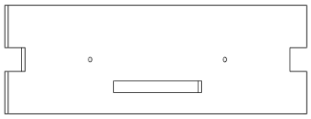


Fig.15

Short spares list

Image	Component	Part No
	Burner Bar	9687
	Silencer	8076
	Injector Mrk 460 A NG	2799
	ODS Unit/ oxy pilot	7280
	Control Valve	6590
	Electrical Control Unit (ECU)	10212
	Ignition Lead	6646
	Earth lead	6593
	9V transformer	7145
	Handset RF	10213

	Glass Panel	7177
	Top liner	7524
	Brick liner set (full set only)	7515
Vermiculite liner set		
	Rear liner	7669
	Side liner	7668
Glass liner set		
	Rear liner	Glass: 7729 Ceramic liner behind the glass liner: 7727
	Side liner	Glass: 7730 Ceramic liner behind the glass: 7728

Your Three Years Parts Extended Warranty

890 HD WARRANTY DETAILS

Please read it carefully and ensure your installer has filled in the gas commissioning checklist, keep it in a safe place so that it is available when your Gas Safe engineer carries out the annual service.

This in no way reduces your statutory rights.

The warranty commences from the date of your purchase you must retain your receipt or invoice as proof of purchase.

This extended warranty specifically excludes glass and soft refractory components and any batteries.

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 service log must be correctly filled out and record of annual services 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 Registration form must be correctly filled out and returned.
7. The appliance has not been subject to misuse or accident or been modified or repaired by any person than the authorized representative of Charlton and Jenrick Ltd.
8. The registration form must be returned within 1 months of purchase.

For further information please contact the Infinity help desk on 0845 5195991 or visit our web site www.CharltonandJenrick.co.uk.

Important
For future reference 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.
Model 890 HD

Serial No									

This information can be found on the label attached to the packaging and on the data badge, which is located on the appliance----------.

Retailer Name:----------

Address :----------

:----------

:----------

Date of Puchase						

Four Year Service Log Details

The following information must be completed to support by receipts as part of the conditions of the extended three-year parts warranty and the appliance must be registered by completing and return the registration document (last page of this booklet) to Infinity Fires.

Date of first service						

Engineers Name :_____

Gas Sate no								

_____

Date of second service						

Engineers Name :_____

Gas Sate no								

_____

Date of third service						

Engineers Name : _____

Gas Sate no								

_____

Date of fourth service						

Engineers Name :_____

Gas Sate no								

GAS FIRE COMMISSIONING CHECKLIST

This Commissioning Checklist is to be completed in full by the competent person who commissioned the gas fire as a means of demonstrating compliance with the appropriate Building Regulations and then handed to the customer to keep for future reference.

Failure to install and commission according to the manufacturer's instructions and complete this Benchmark Commissioning Checklist will invalidate the warranty. This does not affect the customer's statutory rights.

Site Requirements	Yes	N/A
Was the chimney checked to ensure it only serves one flue/fire, has no obstructions and is continuous?		
Has any debris at the base of the chimney been removed?		
For brick chimney installations is there enough depth for 12 litres of debris, or precast flues 2 litres of debris? (see instructions for debris gap details)		
Have damper and register plates been removed or locked in the fully open position ensuring correct size of flue is maintained?		
If previously used for solid fuel has the chimney been thoroughly swept?		
If the chimney is pre-cast has the inside of the flue been checked for extruded cement / sealant which must be removed?		
Has the fire place been checked for under-floor air supply which must be sealed off?		
Has the chimney been inspected prior to fitting the gas fire to ensure that it is in good condition?		
Has the structure of the chimney been checked for leakage using a smoke pellet test? (See BS5440-1 for details).		
Ventilation		
Does the installation require any additional ventilation requirements as detailed in the manufacturer's instructions?		
Hearth Requirements- where fitted		
Is the hearth constructed from non -combustible material?		
Is the hearth a minimum of 12mm thick with a minimum floor to top surface of 50mm?(BS5871) or as per manufacturer's instructions?		
Is the hearth for open fronted fires a minimum of 760mm wide and has 300mm projecting from the fire opening (BS6871) or to manufacturer's instructions?		
Mounting height (where applicable) has the fire been installed to the correct mounting height- as per manufacturer's instructions?		
Firebox and Fuel Bed		
Has the fuel bed, coals, pebbles etc. been fitted to manufacturer's instructions?		
Gas Supply		
Has an isolation tap/restrictor inlet elbow been fitted for servicing?		
Has the gas supply been thoroughly purged prior to connection to remove any debris?		
Has a gas tightness test been completed prior to breaking into the gas supply and following completion of installation?(IGEM/UP/1B)		
Record burner gas pressure reading? If only the supply pressure is available a gas rate must be undertaken.(GSIUR REG26/9C)		
Record dynamic inlet gas pressure (working pressure) reading (all gas appliances running)		
Spillage test		
Installation passes smoke match test with any extractor fans turned on (see manufacturer's instructions)		
Installation		
Has the gas fire been installed and commissioned in accordance with manufacturer's instructions?		
Has the fire been installed with the correct clearance to combustible materials, as per manufacturer's instructions?		
The operation of the appliance and controls have been demonstrated to the customer including battery replacement where applicable?		
The manufacturer's literature, including Benchmark Checklist and Service record has been explained and left with the customer?		
Has the appliance been registered with the Local Authority as detailed on the Gas Safe web site and is a legal requirement and forms part of the warranty?		
Customer's Signature: (To confirm satisfactory demonstration and receipt of manufacturer's literature)	Commissioning Engineer's Signature:	

* All installations in England and Wales must be notified to be Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer.

Register Your 24 Month Warranty with Us Today

To register your appliance at www.charltonandjenrick.co.uk/warranty.

Installer Details

Name _____

Company name _____

Gas safe number _____

Date of installation _____

Your Details

Name _____

Address _____

_____

_____

Post Code _____ Telephone No _____

Product Details

Model : 890 HD Serial No _____

Date Of Purchase _____

This information can be found on the label attached to the packaging and on the data badge.

Where did you purchase this product :

Name _____

Address _____

_____

_____

Post Code _____ Telephone No _____

Infinity 890 HD Packing List

890 HD NG	A-1009 – Glass liners fitted	Pre- Fix **UY**
Data badge and plate added		
Burner tray / firebox assembly		
Air test completed		
Glass warning label (1409)		
Grommet (1092)		
Silicone sealing strip (4818)		
Liners fitted (sides/rear/top)		
AAA Batteries x 4		
Remote control handset		
Handset holder (7191)		
Top glass retaining bracket fitted		
7mm nut spinner (5435)		
Glass tape added to all liner tabs (Only on glass liner version)		
Side liner retaining brackets and spacers fitted		
Oxy pilot gap checked (3.5mm)		
Power lead fitted		
Restrictor plate		
Emberglow (**NATURAL GAS ONLY**)		
C cell battery holder and warning label		
9v Transformer		
Bag of fixings		
Serial No		
Inspector		

Charlton and Jenrick Ltd

Unit D

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Shropshire

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