

Apex X2 HE

Apex X3 HE

Installation and User Instructions

**FRAMELESS AND INTEGRATED SUITE
INSTRUCTION ARE SEPARATE AND MUST BE READ
IN CONJUNCTION WITH THESE INSTRUCTIONS
BEFORE INSTALLATION STARTS**

All instructions must be handed to user for safekeeping
This is not a DIY product and must be installed by a Gas Safe
registered installer

Edition B 10/15

Country(s) of destination - GB/IE

INSTALLATION INSTRUCTIONS

These Notes Must Be Read Before Installation

The appliance is designed to fit most types of fireplaces with a natural draught flue as listed in the Installation Requirements.

The appliance must be installed by a competent person in accordance with the Gas Safety (Installation and Use) Regulations 1998.

A Gas Safety Registered installer must be used for this purpose.

Read all these instructions before any installation takes place and in conjunction with the appliance on site.

This appliance must be installed in accordance with the rules in force and only used in a sufficiently ventilated space.

This appliance is factory set and tested for operation on the gas type, and at the pressure stated on the appliance data plate.

After a new gas appliance (excluding flueless cookers) has been fitted, the Building Regulations in England and Wales require that the installation must be notified to your Local Authority.

Your Gas Safe registered engineer needs to do this, failure to register the appliance may affect your warranty.

Prior to installation, ensure the local distribution conditions (identification of the type of gas and pressure) and adjustment of the appliance are compatible.

OPENING THE APPLIANCE

Stand the carton the right way up, open the box from the top.

Read all the instructions before continuing to unpack or install this appliance.

Remove the bags containing ceramic components such as coals or gravel etc. Remove the cardboard packing pieces, and any other bags or boxes containing fittings or other parts.

When all loose parts have been removed, the appliance may be unsecured from wooden pallet and lifted out.

Check that the components supplied correlate with the component checklist below.

If for some reason any of the listed components are missing or damaged do **NOT** commence with this installation, in doing so will invalidate your warranty.

Please dispose of all the packaging materials at your local recycling centre.

CONTENT CHECK LIST

Qty	Description
1	Firebox and Burner Tray
1	Decorative Trim/Frame (may be in separate carton)
1	Fuel Bed
1	Set of manufacturer's instructions and warranty card.
4	Fixing Screws
4	Raw Plugs
	Remote control handset and battery holder pack (for Remote Option)
1	Mains adaptor (suite and frameless options only)

If using the frameless option to be plastered in or for use with marble slips including the integrated steel back panel option then you must read all instructions prior to commencing this installation.

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Section 1: IMPORTANT NOTES

This fire is an Inset Live Fuel Effect Gas Fire providing radiant and convected heat, it is designed to operate on Natural Gas.

It is the LAW that all gas appliances and fittings are installed by a competent person such as a Gas Safe Registered fitter and in accordance with the Gas Safety (Installation and Use) Regulations 1998, the relevant British Standards for Installation, Codes of Practice and in accordance with the manufacturers' Instructions.

The installation shall also be carried out in accordance with the following regulations:

The Building Regulations issued by the Department of the Environment, the Building Standards (Scotland) (Consolidation) Regulations issued by the Scottish Development Department.

BS 4543 part2

BS 5440 parts 1&2

BS 5871 part 2

BS 6461 parts 1&2

BS 6891

BS 8303

Failure to comply with these regulations could lead to prosecution and deem the warranty Invalid.

This appliance must be installed in accordance with the rules in force and used only in a sufficiently ventilated space.

Consult all instructions before installation and use of this appliance.

The appliance must be registered once commissioned with the regulatory governing body.

This appliance is free from any asbestos material. Refractories and coal bed are constructed from ceramic fibre.

Note - For Republic of Ireland, reference should be made to the relevant standards governing installation, particularly in regard to flue sizing and ventilation. See IS813, ICP3, IS327 and any other rules in force.

Section 2: INSTALLATION REQUIREMENTS

This appliance **MUST NOT** be installed into a bathroom or shower room, or where steam may be present.

An extractor fan must not be fitted in the same room or space as the appliance as this can affect the safety of the appliance.

The fire has been designed to fit into a fireplace or builders opening (and meeting certain dimensional requirements), or a suitable flue box complying with the constructional requirements of BS 715.

A natural draught flue system is required, and if previously used for solid fuel or oil burning, the flue and chimney must be swept prior to appliance installation.

The flue must be checked before installation by using a smoke pellet or similar to ensure proper draw and that leakage is not evident at any joints. Repair and re-test as necessary before the appliance is installed.

Any flue box used must be installed onto a suitable non-combustible insulating surface at least 12mm thick, covering the entire base area of the box.

The flue must have an effective height of at least three metres, as measured from the hearth to the top of the flue.

Any flue damper plates or restrictors must be removed and no other restriction fitted to the flue. Where removal is not practical, the restriction must be fixed in the fully open position.

The flue must be connected to only one fireplace, and the flue must not vent more than one appliance.

There must be no opening in the flue apart from the one that the appliance is installed into, and the one venting the gases into the air. A suitable terminal may be fitted, such as class GC1, as regulations allow.

In accordance with BS1289 part 1, pre-cast flues built with directly plastered faces (front or rear) are not correctly installed as to ensure proper operation with any type of gas fire.

Depending on the flue construction, on occasions the temperature reached can cause cracking of the surface plaster through no fault of the appliance.

An air gap or some form of insulation material should be installed to prevent normal flue temperatures from damaging wall surfaces.

This appliance is suitable for use with a surrounding area or back panel of 150C minimum rating.

Section 3: APPLIANCE INFORMATION

Apex Cirrus X2 & X3	
Gas Group	G20 Natural Gas CAT I2H
Inlet Pressure	20 mbar
Max Input (gross)	5.0 / 5.6 (6x6)
Min Input (gross)	2.3 / 3.0 (6x6)
Setting Pressure	20 mbar
Gas Inlet connection	8mm Compression
Overall Height	514 (X2) / 674 (X3)
Overall Width	742
Overall Depth	320
Recess Height	452 (X2) / 612 (X3)
Recess Width	603
Recess Depth	290
Air Vent	N/A*
Remote Valve	TESCO01 RF868-15
Remote Pilot Assembly & Thermocouple	ERTA OXP-PG-82-650
Injector Stereomatic	410
Efficiency X2	79.18% Net class1 71.30% Gross
X3	76.97% Net class1 69.31% Gross
NO _x	Class 3
Appliance Dimensions	X2 H514 x W742 x D320 X3 H674 x W742 x D320
Appliance weight	35kg

***Not normally required might be required following spillage test see section 13**

Section 4: VENTILATION

This Appliance does not normally require purpose provided ventilation. However, a second appliance operating within the same room or space must be taken into consideration when assessing ventilation.

When commissioning the appliance spillage is detected, then amongst other problems there may be insufficient natural ventilation for correct operation of the flue. If spillage is detected with windows closed, but the appliance does not spill with the windows open, this demonstrates a lack of natural ventilation.

If spillage is still detected with the windows open, the flue is at fault. Installation of an air brick is the best solution to lack of ventilation.

Any ventilation fitted must comply with BS 5871 part 2 and BS 5440 part 2.

Air Vents fitted under or within the immediate vicinity of the appliance must not be used as adverse effects to the operation of the Flame Safety Device (FSD) may occur. Spillage detected during commissioning is almost always a result of poor flue performance that cannot be corrected by any amount of ventilation.

For Republic of Ireland ventilation may be required, see IS 813, ICP3, IS 327, and any other rules in force.

Section 5: SITE REQUIREMENTS

The fireplace opening should be inspected and repairs made where necessary.

The dimensional requirements for debris collection space and spigot clearances must be met. See diagram below.

This appliance requires a natural draught flue system which may be one of the following;

225mm x 225mm (9in x 9in) brick or stone

125mm (5") Minimum diameter flexible flue liner conforming to BSEN 1856-2

125mm (5") minimum diameter twin wall flue conforming to BSEN 1856-1: 2009

A minimum of 600mm flue height from the appliance is required before any bend in the flue, no bend greater than 45° must be used.

The area immediately above the outlet must form a smooth path into the flue.

Any existing draught device situated under the fireplace must be sealed off. The opening area must be non-combustible, for low height properties such as bungalows a spinning cowl or similar device may be recommended to help induce the correct pull from the flue.

It is recommended that a tactile barrier should be placed on the floor in front of the appliance to stop the elderly, infirm or Children from direct contact with the hot surfaces of the appliance.

The appliance can only be used in a no hearth application if the installation complies with BS 5871-2:2005 and appliance is installed so that the height from the base of the fireplace opening to the floor is no less than 300mm.

From the appliance to underneath of a Shelf with a depth of 150mm is 350mm add 12.5mm in height for every 25mm increase to the projection of the shelf depth.

As with all heating appliances, any decorations, soft furnishings, and wall coverings (i.e. flock, blown vinyl and embossed paper) positioned too close to the appliance may discolour or scorch.

Due to the high efficiency of this type of appliance combined with the variations of plaster conditions and thicknesses from property to property, we recommend that a heat proof plaster be used.

An area of 600mm above plus 300mm on either side and below should be finished with a heat proof plaster, it may be required to use a heat proof screed under the finish, please see contact details below of possible supplies of these goods for your reference.

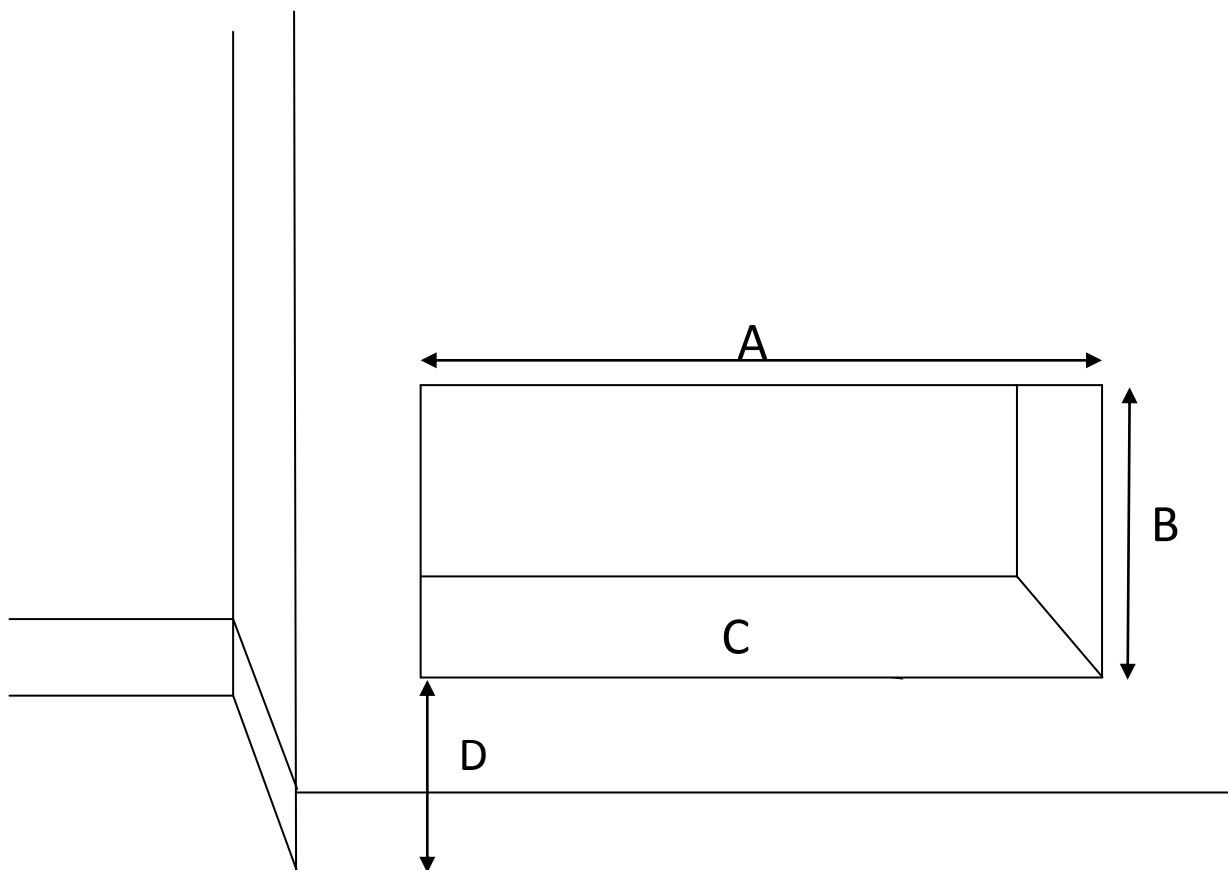
The Greener Company

Huddersfield Road, Elland, WEST YORKSHIRE HX5 0EE
www.thegreenercompany.com

Vitcas

8 Bonville Road, Brislington, Bristol BS4 5NZ
<http://www.vitcas.com>

Opening Requirements		MM
A	Width	610-645mm
B	Height	455-470mm (X2) 615-630mm (X3)
C	Depth	340mm minimum
D	From Floor	300-Minimum



Section 5.1: PREFABRICATED FLUE BOXES

These appliances can be fitted to a prefabricated flue system, a chamber to enclose the appliance should be created with the prefabricated flue placed and sealed at the top of the chamber and construction should be of a non-combustible material.

If a false chimney breast is required for the appliance to be housed in, this will need to be constructed of a non-combustible material or any combustible material within 350mm must be clad with a non-combustible board, the correct clearances to combustible materials (i.e. false chimney breast etc.) must be adhered to.

A flue box may also be used if conforming to the correct clearances, the manufacturer of the prefabricated box's instructions for fitting the prefabricated box must be complied with at all times.

Please ensure the firebox of the appliance does not obscure the flue box outlet.

It is important that the sealing requirements of the appliance are met at all times and that the flue box is sealed to any back or infill panel.

Section 6: CLEARANCES / DEBRIS SPACE

Appliance requires a minimum of **50mm** clearance (BS 5771: part 2-11.6) to the flue or any surface behind the appliance outlet.

In accordance with BS 5871 part 2, minimum debris collection volumes are required behind the installed appliance.

UNLINED FLUE OR CHIMNEY WHICH HAS BEEN PREVIOUSLY USED FOR A SOLID FUEL OR OIL BURNING APPLIANCE

Appliance recessed depth + 60mm

Section 7: INSTALLATION OF THE APPLIANCE

Always ensure that the gas supply is isolated before commencing installation of the appliance.

The fireplace opening and environment must be in compliance with specifications laid down in the appropriate sections of these instructions.

Remove the appliance from its carton as described previously and stand on a dust sheet, place the coals, ceramics and fixings safely to one side.

IF USING FRAMELESS OPTION PLEASE READ SEPARATE INSTRUCTIONS, ADJUSTMENTS MUST BE MADE TO THIS APPLIANCE THE APPLIANCE ACCORDINGLY

Remove the burner from the assembly by using a **hand held screw driver** remove the 2 x Screws at the top of the glass panel, with the glass door dropped down you can lift the door off its hinges to allow

ease of access to the fire box and the burner, start by removing the ceramic pads over the burner and gently put this to one side to avoid any damage.



Next remove the screws in each corner,



Next undo the nut connecting the burner to the isolation valve and tray will now lift free of the firebox.

Section 7.1: PREPARING THE OPENING

Before installing the fire, check the flue for correct operation using a smoke pellet, all of the smoke should be drawn up the flue and exit correctly from the terminal. If problems are found **DO NOT** fit the fire until corrective measures have been completed.

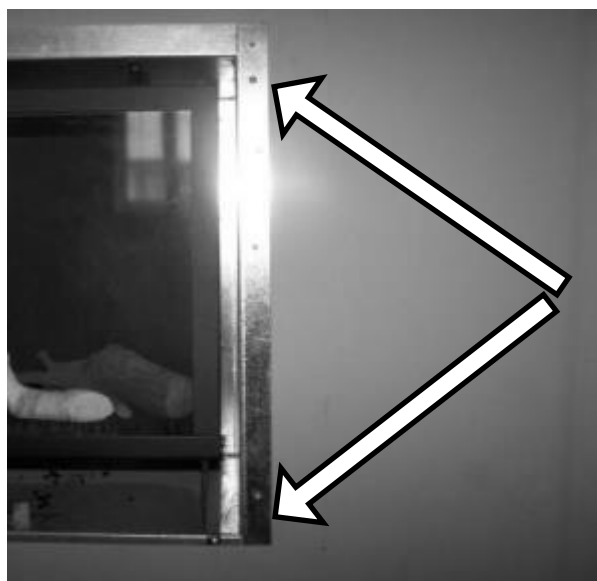
Section 7.2: USING A FLUE LINER

The fireplace opening will be required to have a sealing plate fitted (horizontal register plate) and sealed at the base of the flue with the liner fixed and sealed within it. Ensure the appliance does not restrict the flow to the flue and a space of no less than 50mm is required from the top of the appliance prior to the gather of the flue area.

Section 7.1: PREPARING THE OPENING Cont.

Before running the gas supply into the opening, offer up the fire box to the fireplace to check the fit is good, ensure that it slides in correctly, the sealing face sits flat and square to the wall and that the base is level, apply the self-adhesive sealing strips around the edge of the rear of the firebox frame, approximately 5mm in from the edge.

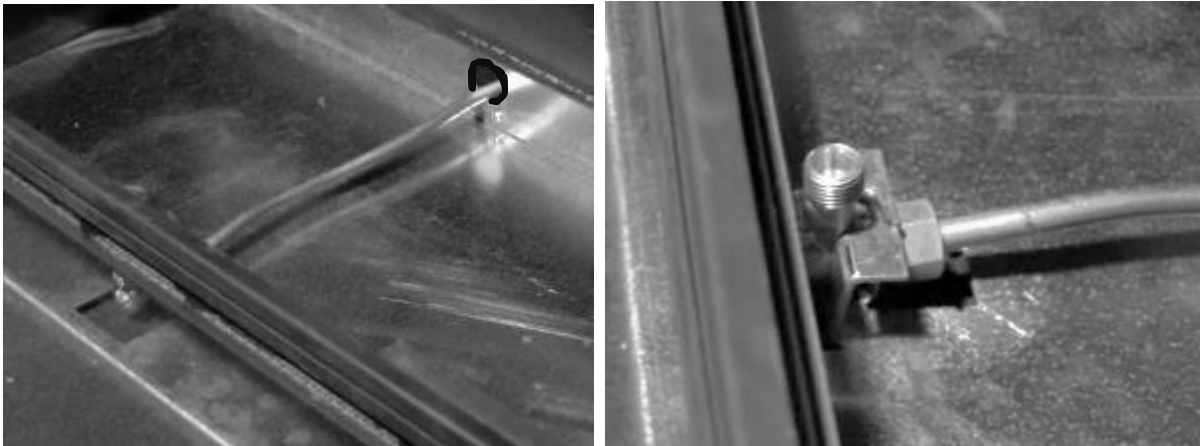
Mark and drill the fire frame in the relevant 4 points on the wall and place rawplugs in place, alternatively you can use the tensioning cable fixing kit supplied (see separate fixing instructions with the kit)



Note: Fibre Rawlplugs might be preferred rather than plastic Rawlplugs as the heat from the fire might affect their efficiency.

IF USING THE FRAMELESS OR INTEGRATED SUITE OPTION THE MAINS ADAPTER LEAD CAN BE ROUTED THROUGH ALONG WITH THE FEED PIPE

Whilst the opening is ready for installation of the fire, the gas supply can be routed and when in the correct position can be connected to the isolation tap via the 8mm compression fitting.



- DO NOT install or use the appliance without this seal in place.
- Failure to fit this seal correctly will cause the flue suction to act upon the area under the burner tray resulting in poor performance, and overheating of this area.
- In no circumstance should you use soft soldered connections to or underneath the burner tray.
- The gas pipe must be suitably protected where it passes through fireplace openings. Any sleeving should be sealed to the pipe at its end.

Section 7.3: FITTING THE BURNER TRAY

This process is a simple, reverse of the previous instructions on how to remove the burner tray.

WHEN FIXING THE GLASS BACK INTO POSITION PLEASE PUT ALL THE SCREWS IN HALF WAY AND THEN TIGHTEN FULLY INTO PLACE TO AVOID TWISTING THE FRAME



Section 9: FITTING THE DECORATIVE FRAME

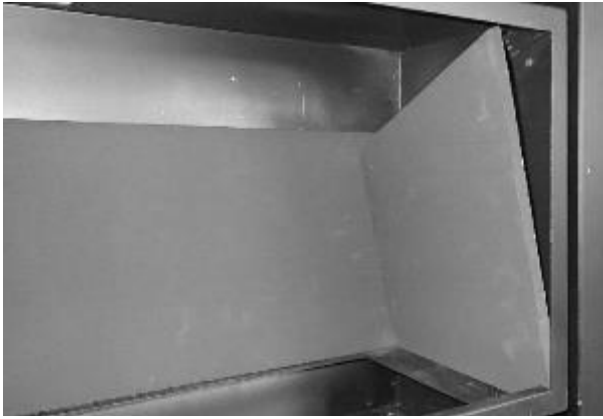
Fit the two brackets supplied to each side of the firebox with self-tapping screws supplied the simple lift the trim into place.



Section 8: LINING REPLACEMENT

To remove the lining for colour change or replacement, with the tray removed the top place can be removed by the two brackets in place on either side, then gentle remove the side sections and the back to fit simply reverse the process.

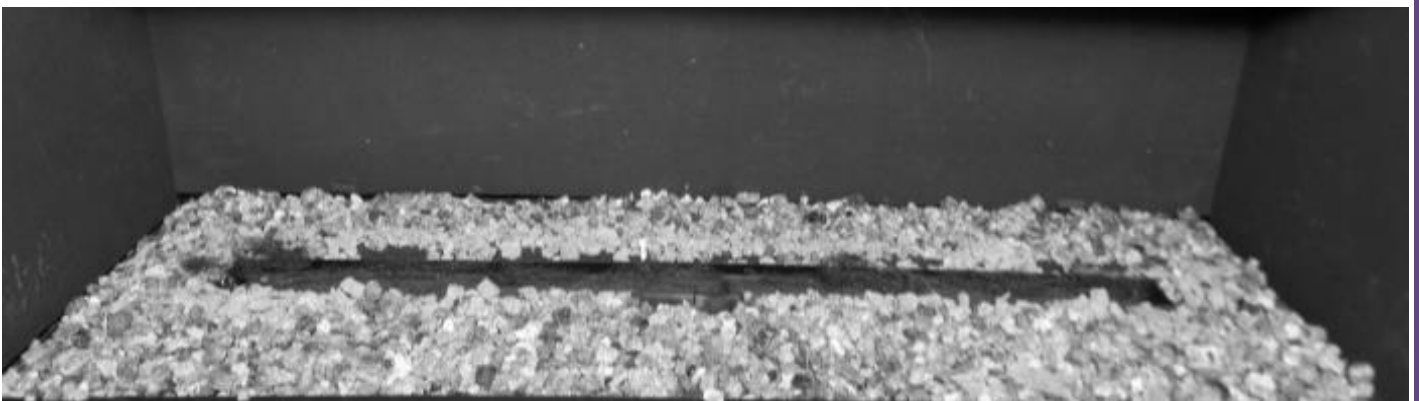




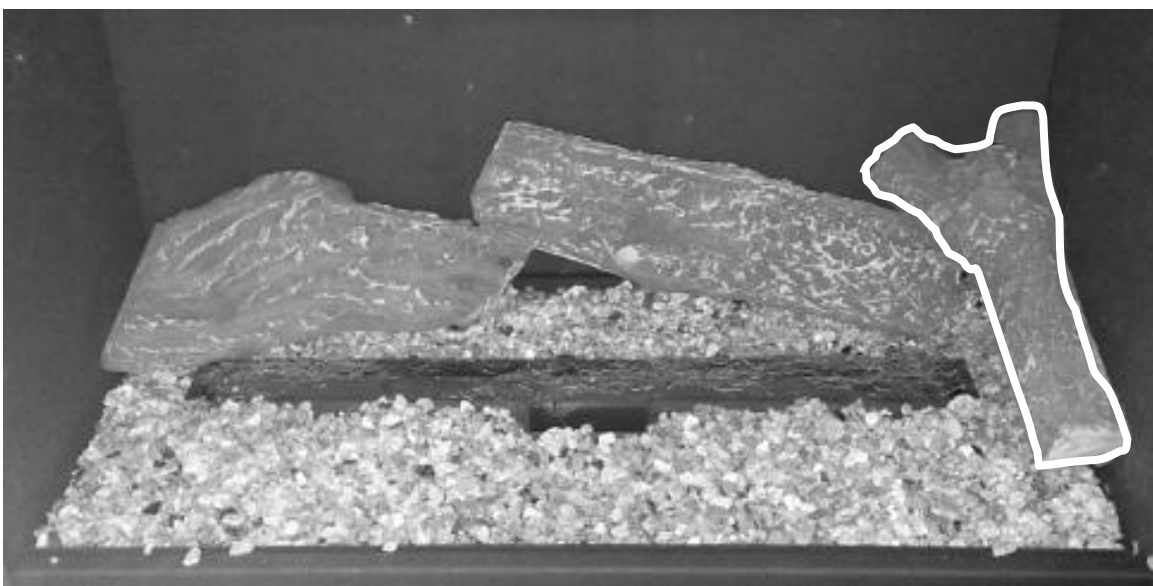
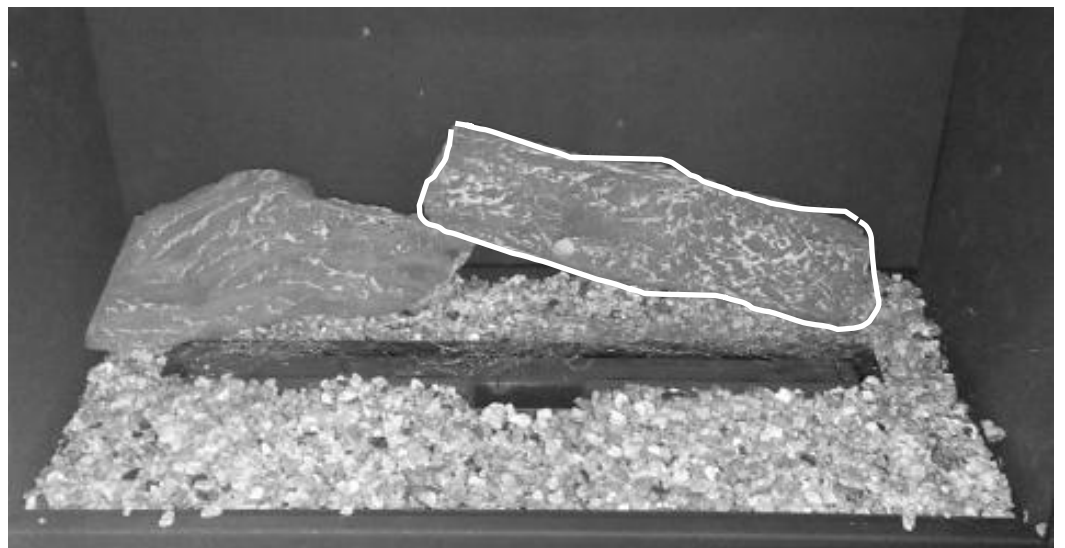
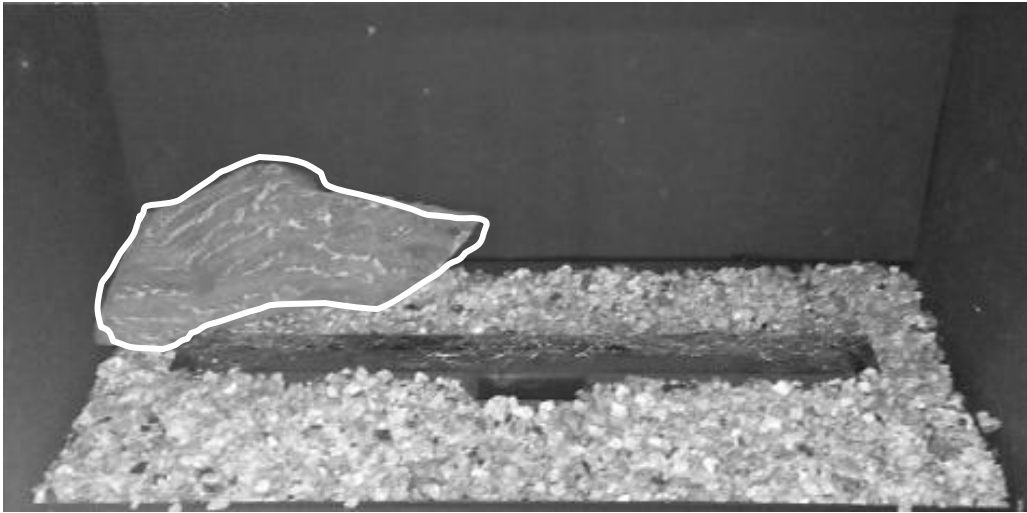
Section 8.1: FUEL BED LAYOUT

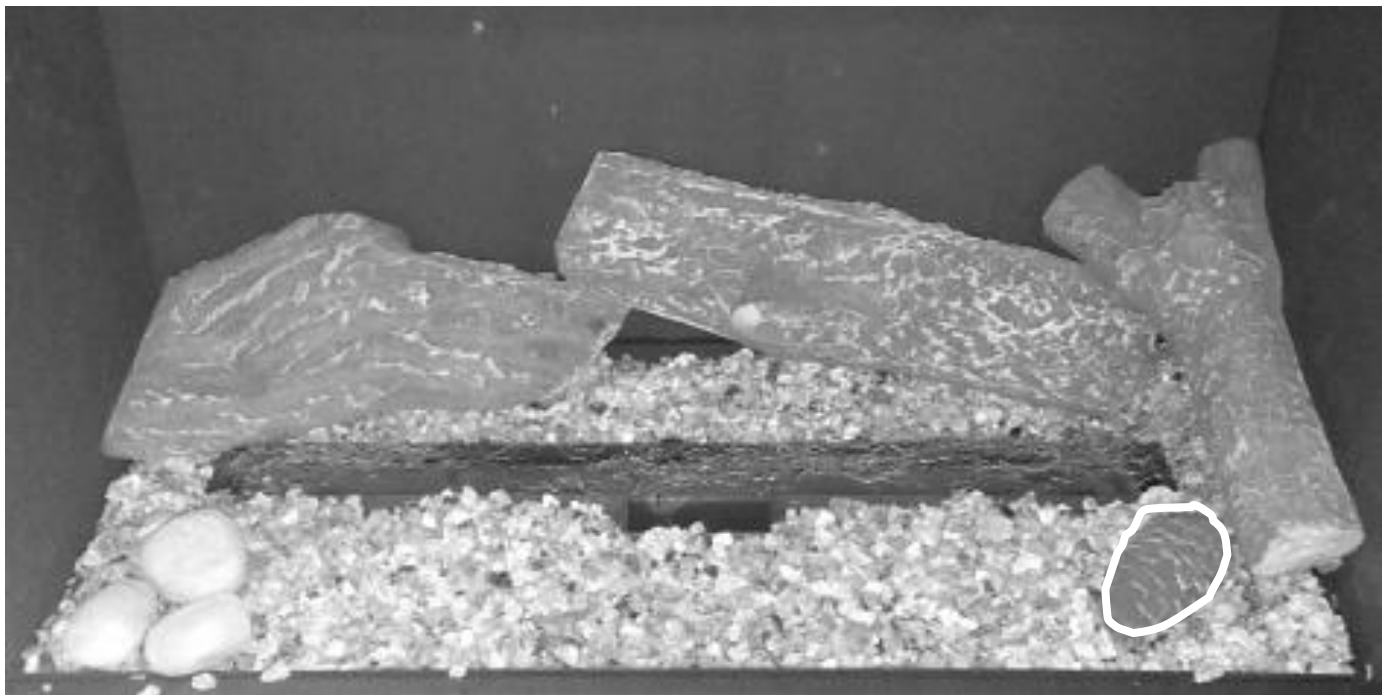
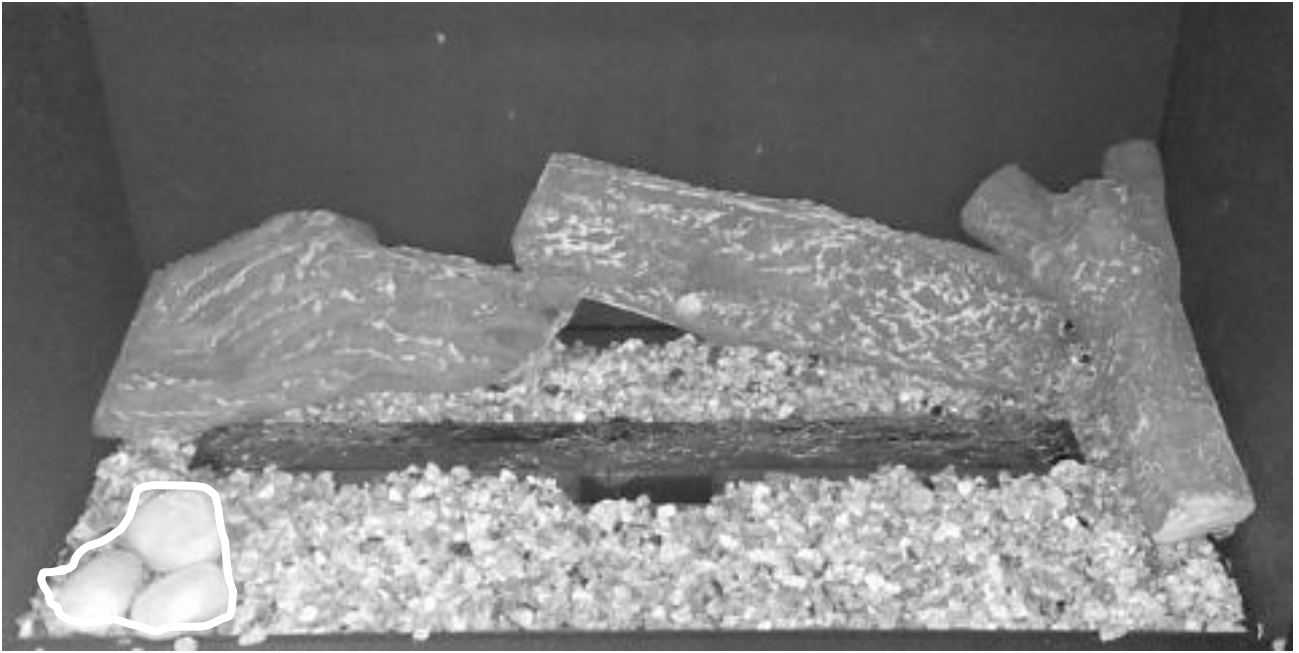
Cover the base with Vermiculite provided making sure not to block the burner outlets and keeping an area around the pilot clear to help when cross lighting of the fire.

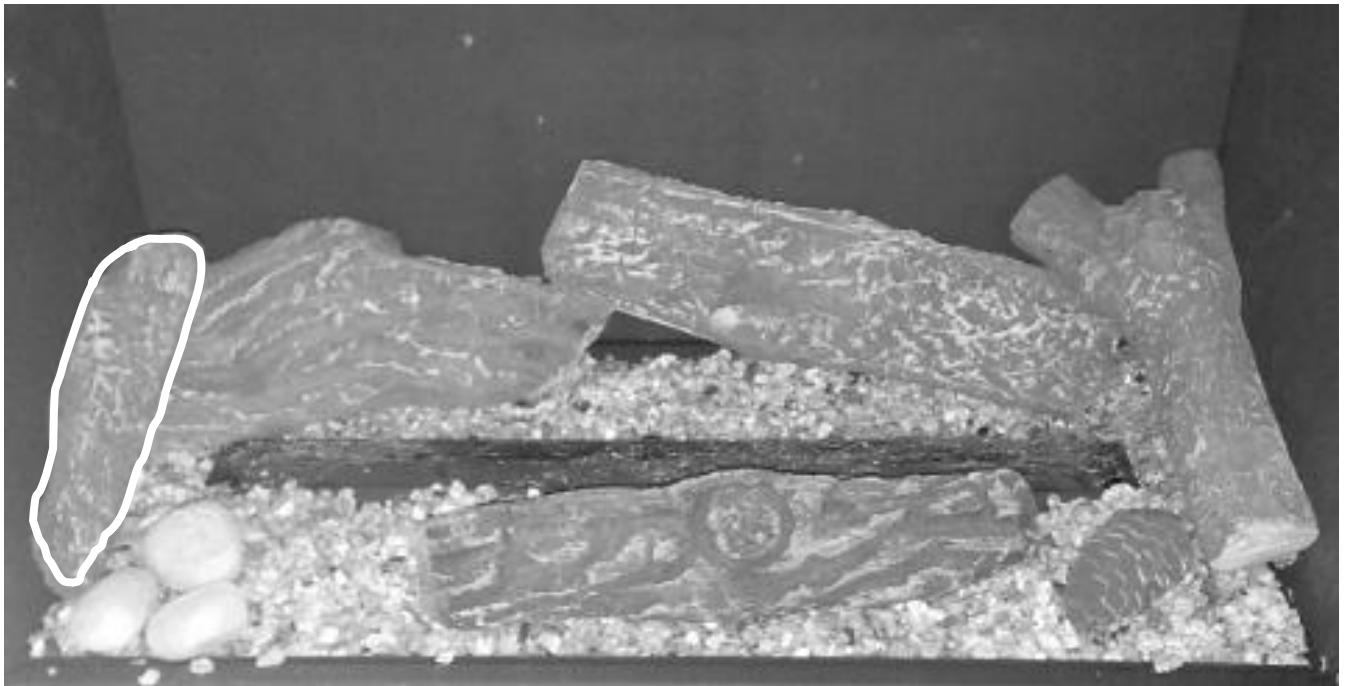
Evenly place a layer of the stainless steel wool provided over the burner loosely to give the burning embers effect

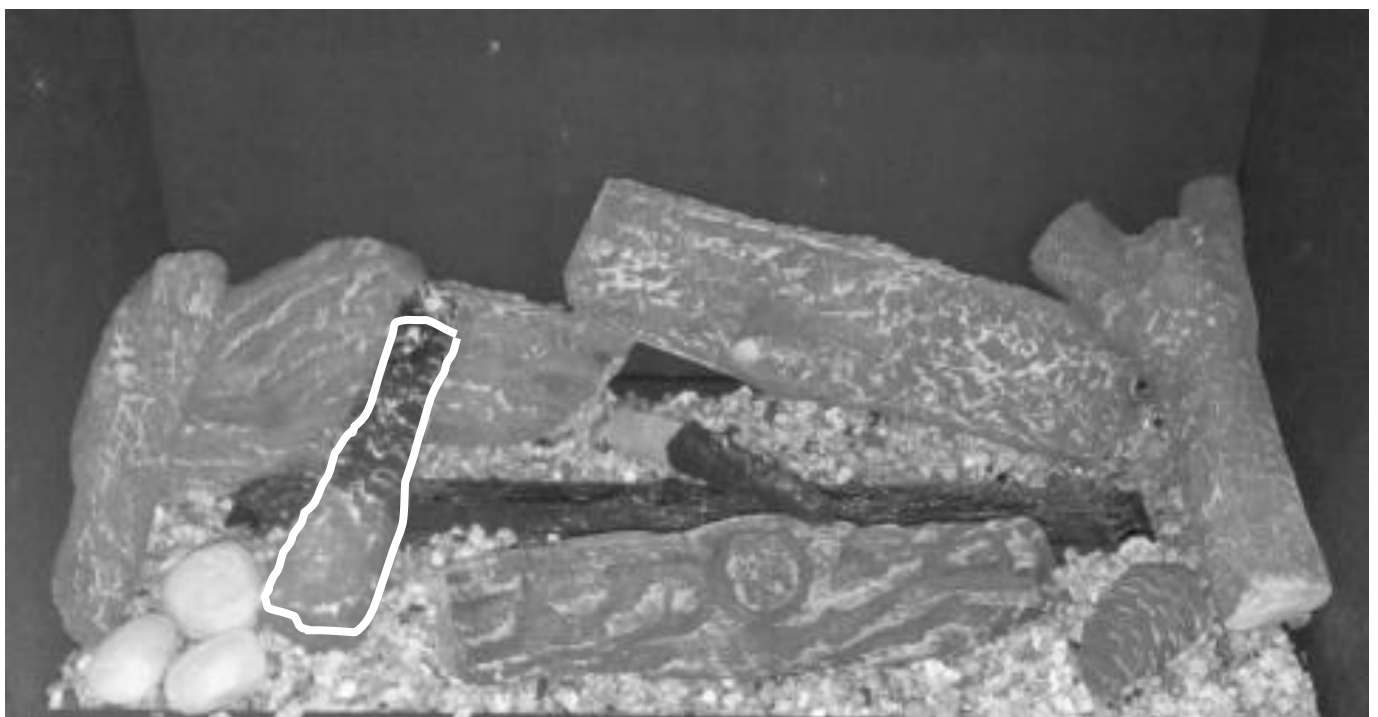
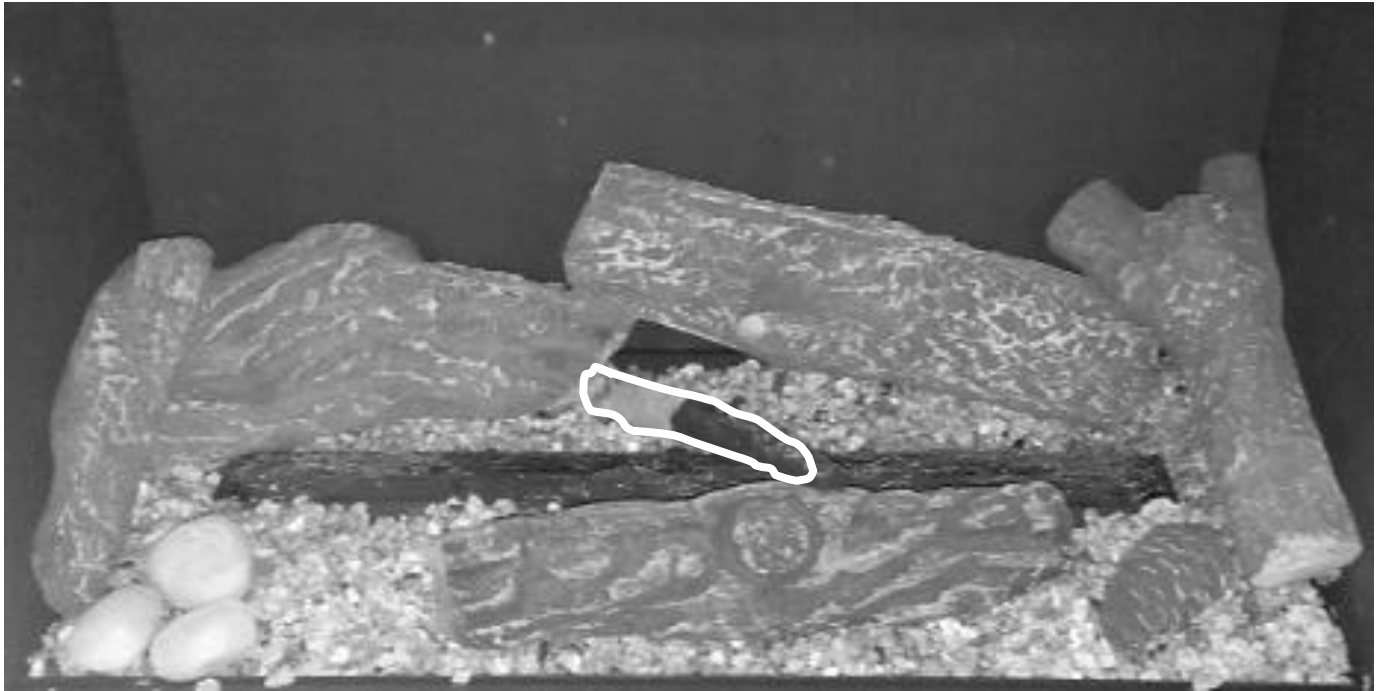


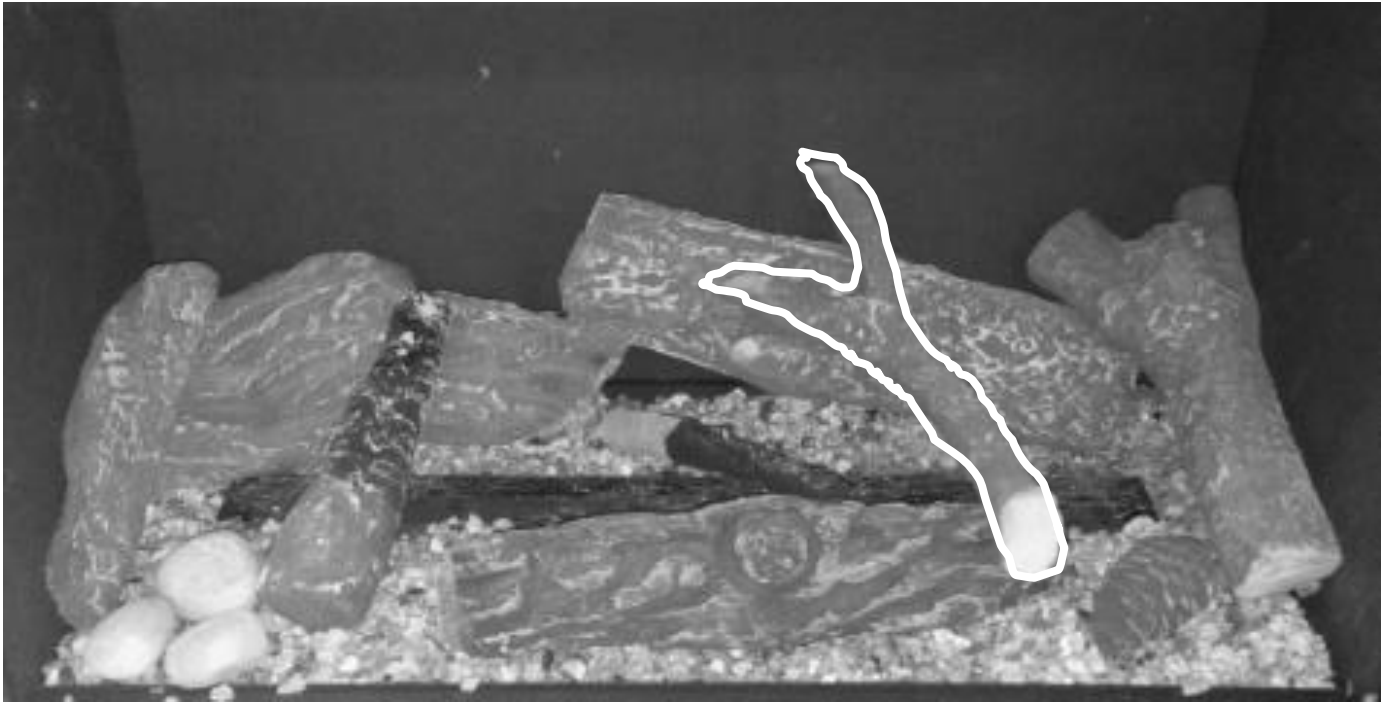
Now place each piece as per the pictures some adjust will be needed to ensure the flames go in between the pieces and not to be placed directly above the flames as this will create carbon deposits.











Remember some adjustment will be needed to ensure the flames go in between and around the pieces and are not to be placed directly above the flames as this will create carbon deposits.

WHEN FIXING THE GLASS BACK INTO POSITION PLEASE PUT ALL THE SCREWS IN HALF WAY AND THEN TIGHTEN FULLY INTO PLACE TO AVOID TWISTING THE FRAME

Section 10: COMMISSIONING THE APPLIANCE

Turn on and test the gas supply up to the fire for any leaks, in accordance with current Approved Codes

Section 10.1: OPERATING THE APPLIANCE

(See Section 16: Users Instructions)

Section 10.2: SPARK FAILURE

The gap between the spark electrode and the pilot should be 3.5 - 4.5mm to produce a good spark. There should be no need to adjust this.

If under any circumstances the electric spark fails, the pilot may be lit manually by proceeding with the ignition sequence as previously described, and after turning the control knob through the spark position, the knob should be held in and the pilot lit with a taper.

Note: Please ensure that the electrode spark igniters' gap on the manual version has not been misaligned during the handling of the burner in this installation the gap should be 5mm from the burner.

Section 11: SETTING THE GAS PRESSURE

Remove the pressure test point sealing screw from the isolation elbow and attach a suitable pressure gauge.



Check that the inlet gas pressure is at 20 mbar / Working Pressure at 20 mbar (+/- 1 mbar)
Light the pilot and check the correct operation of the burner at all the flame settings.

Always check that the gas has stopped flowing even if you hear the FSD valve close within the 3-minute period.
Turn OFF the appliance and the gas supply and refit the pressure test point sealing screw.

SECTION 12: FLUE SPILLAGE MONITORING SYSTEM

This fire is fitted with a flue spillage safety device (ODS), if the fire shuts down during use for no apparent reason then several things may be suspected, if a door or window has been opened creating a draught, then pilot disturbance is the problem, and removal of the draught should resolve this.

The gas pressure reaching the fire must also be checked (again, recalls your installer to check and rectify any problem). The thermocouple connection into the back of the gas control valve may also have worked loose during installation, simply get the installer to tighten.

If pilot disturbance is not the cause, then the ODS safety system may be in operation. Switch the appliance OFF, check the flue and carry out any remedial work required. Relight the fire and carry out a spillage test, DO NOT allow the appliance to be used if it continues to fail a spillage test.

The aeration hole of the pilot must be carefully cleaned out on each annual service to ensure continued function of the ODS.

The spillage monitoring system shall not be adjusted, modified, or put out of operation by the installer. Any spare parts fitted MUST be of a type supplied for the purpose by the appliance manufacturer. If the fire is not spilling, then further guidance should be sought, using the Troubleshooting section as a guide.

SECTION 13: TESTING FOR SPILLAGE

CHECKING FOR CLEARANCE OF COMBUSTION PRODUCTS

Close all doors and windows in the room light the fire and allow to run for approximately 5 minutes on high position.

After approximately 5 minutes, hold a smoke match just inside and below the centre of the lower front edge of the top of the fire, as shown below in Fig 1.

All smoke generated should be drawn back into the flue, If slight spillage occurs or if in doubt, repeat the test after a further 5-10 minutes. If the test indicates that spillage is occurring and the flue restrictor baffle has been fitted, it should be removed and the test repeated after the fire has cooled, if spillage persists, the flue is not functioning correctly and a fault exists.

If, after investigation the fault cannot be traced and rectified, the fire must be disconnected from the gas supply and expert advice obtained.

After ensuring that the fire is safe to use it should be left on high position to fully warm up. During this time a slight odour may be noticed, this is due to the "newness" of the fire and will soon disappear.

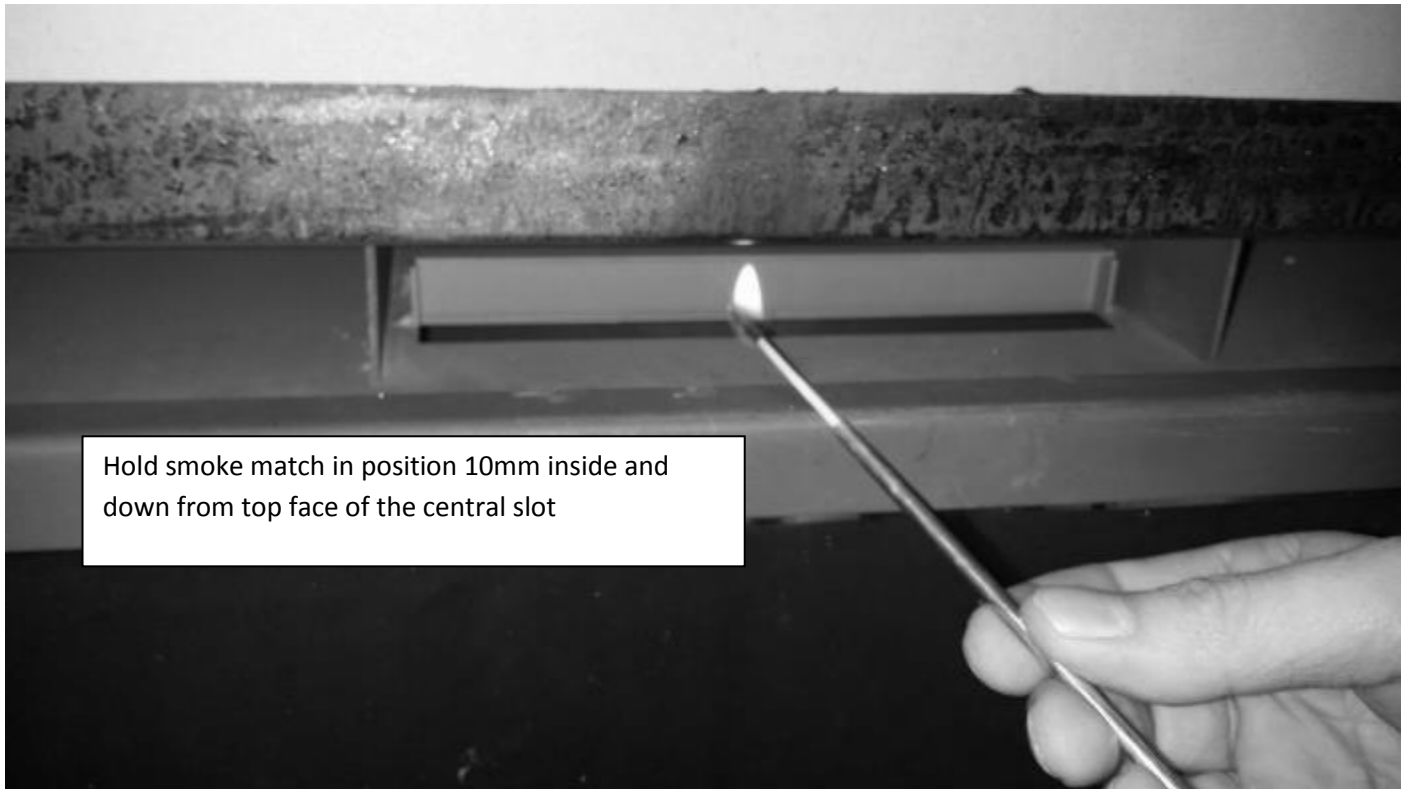


Fig 1

When the test has been completed satisfactorily, repeat with any extractor fans in the premises running on the highest setting, and any communicating doors open, finally, repeat with all doors open.
DO NOT allow the fire to be used until the test is satisfactorily passed.

SECTION 14: BRIEFING THE CUSTOMER

- All instructions must be handed to the user for safekeeping.
- Show the customer how to light and operate the fire.
- After commissioning the appliance, the customer should be instructed on the safe use of the appliance and the informed for the need of regular servicing.
- Frequency of service depends on usage, but **MUST** be carried out at least once annually.
- Cleaning of the fire may be achieved when the fire is cold using a damp cloth and mild detergent on most surfaces, with the exception of the ceramic fuel bed.
- A soft brush i.e. paint brush may be used to clean the ceramic fuel bed taken care not to use excessive pressure.
- Scratched and other superficial damage to the matt black paintwork of the appliance can be covered with matching heatproof spray.
- Use only the manufacturers' recommended spray paint.
- Paint only when the fire is OFF and cold. Always mask off the surrounding area to prevent contamination with overspray.
- Ventilate the room during the use of the spray. DO NOT attempt to spray paint the coals or ceramics, or wash them in water.
- Advise that the fire will emit a "newness" smell for a time after initial commissioning and that extra ventilation may be needed during this time.
- Advise that the fire is fitted with a spillage safety device (O.D.S.). If the fire shuts down, this system may be in operation.
- **If spillage is suspected, SWITCH APPLIANCE OFF and call in the installer to investigate any problems.**

SECTION 15: SERVICING

First Isolate the fire from the gas supply and ensure that the fire is fully cold before attempting service.

- Lay out the dust sheet and tools required.
- Remove Trim and Glass if applicable.
- Carefully remove the ceramic components
- Remove the screws that retain the tray in place and disconnect from the isolation tap.
- Remove the burner tray and other components as required (i.e. remote control box)
- Disconnect the gas supply, to the appliance and disconnect the isolation tap
- Remove convector box, Check the fireplace opening for rubble accumulation and remove, if debris is excessive, and initiate remedial work on the flue.
- Check the flue with smoke pellet for correct operation.
- Refit convector box using new seals where necessary
- Strip off the burner pipes and clean thoroughly.
- Clean out the injector, pilot assembly and burner tube. DO NOT remove the pilot injector.
- Re-assemble and re-fit the burner tray.
- Turn on the gas supply, and leak test.
- Refit the decorative casting and ceramics.
- Check any purpose provided ventilation is un-obstructed.
- Light the fire and test for spillage.
- Check setting pressure and safe operation of the appliance.

SECTION 16: USER INSTRUCTIONS

IMPORTANT NOTES

The installation of this fire MUST only be carried out by a competent person (such as a Gas Safe registered fitter) in accordance with the Gas Safety (Installation and Use) Regulations 1998, the relevant British Standards, Codes of Practice, the Building Regulations and the manufacturers' instructions.

- Failure to comply with the above recommendations could lead to prosecution and invalidate the appliance warranty.
- Please ensure you are handed all of the manufacturer's documents on completion of the installation. This will include these instructions.
- Always keep a note of the installer's name and address, the original purchase receipt and the date of installation for future reference.
- The fire and flue should be serviced regularly to ensure continued safe operation.
- See the servicing section for further details.
- Frequency of service will depend on use, but MUST be carried out at least once annually.
- Parts of this appliance become naturally hot during use.
- It is recommended that a suitable fire guard conforming to BS8423 is used, especially where young children, the elderly, or infirm are concerned.
- Combustible items, such as flooring and furniture, and soft wall coverings (such as blown vinyl or embossed paper) may discolour if fitted too close to the fire.
- See relevant section for further details on clearances to combustibles.
- No combustible material or flooring should protrude onto the hearth.

- DO NOT burn any foreign material on this fire, the coals must be of the correct type and lay out in accordance with the relevant section of these instructions.
- Failure to do so could create a hazard or lead to sooting.
- Before the appliance is installed, the chimney should be swept.
- All flues should be checked by the installer to ensure there are no defects or obstructions that may prevent the flow of combustion products.
- The fire is only suitable for use with the gas type for which it is supplied.
- This fire is supplied with a particular style of fire front/fret.
- Use of the fire front/fret will ensure an adequate airflow under the fire bed for the correct functioning of this appliance.
- Compliance with safety standards cannot be guaranteed if another style of front is used.
- A combustible shelf may be fixed to the wall above the fire, providing that it complies with the dimensions given in section 3 site requirements.
- No purpose provided ventilation is normally required for this appliance.
- The requirements of other appliances operating in the same space or room, and the results of a spillage test must be taken into consideration when assessing ventilation requirements; this will have been carried out by your Gas Safe registered installer.
- **The appliance is fitted with an atmospheric sensing device designed to shut off the fire in the event of the flue being partially or completely blocked causing a build-up of combustion products in the room that the appliance is operating, if the fire repeatedly turns itself off then contact a gas safe installer to investigate the fault.**

For Republic of Ireland, ventilation may be required, see IS 813, ICP3, IS 327, and any other rules in

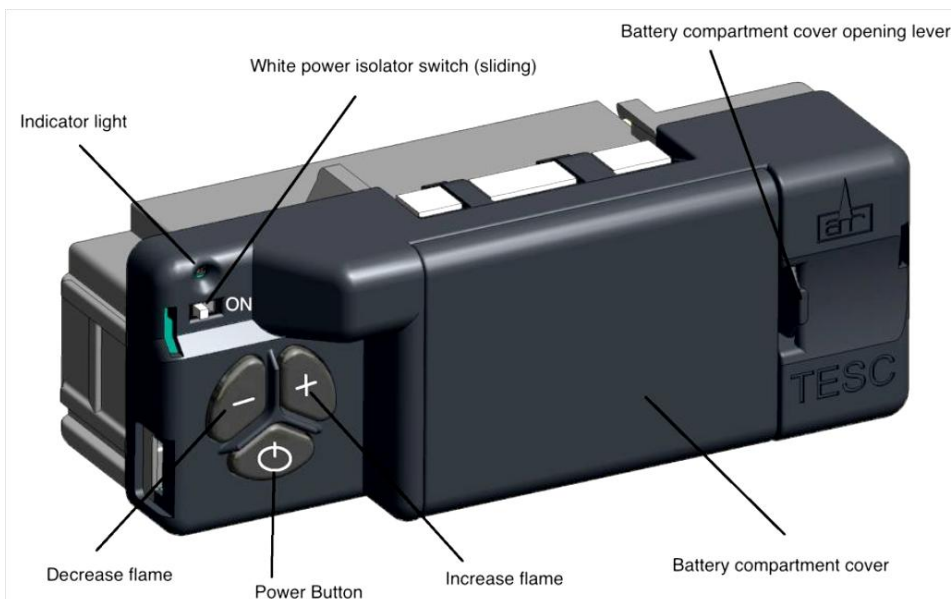
SECTION 17: OPERATING THE APPLIANCE (Remote Control)

The Remote Control with this appliance has already been paired at the Factory

Quick start user instructions

Fire Control

This control is situated on your fire. The drawing shows the main features of the control. The control required **3 x AA size alkaline batteries** to be inserted under the battery compartment cover. The orientation of these is shown moulded into the battery compartment.



After fitting the batteries and replacing the cover the fire can now operate. Slide the slide switch to the right to the ON position.

To start the fire, press the power button and hold for 1 second then release. The burner will within around 1 to 2 seconds, adjust to the maximum power setting,

The power of the burner can be adjusted up and down by pressing the – or + buttons.

To stop the fire, simply press the power button again and the burner will stop.

If you are not intending to use the fire for a long period (i.e. over summer time months), the battery life can be extended even more by sliding the white isolator switch to the left (away from the on position).

IF USING THE MAINS ADAPTOR THIS IS FITTED INTO THE VALVE AT THE BOTTOM LEFT HAND SIDE

Ensure the very small white slider switch on the front corner of Fire Control is in the on position.

Grasp around the handset to unlock its functions. The green unlock light will illuminate to show when the handset is unlocked and ready to accept commands. (N.B. Keep a grip of handset to keep it unlocked, to continue to operate the command buttons.)

For your safety, the fire is fitted with a Flame Supervision Device (FSD), which will shut off the Gas supply if for any reason the pilot is extinguished.

The Valve and Handset Have Already Been Paired

First set up the hand set, cup the handset **the green unlock light will illuminate**. Keep it held to keep the control unlocked, to enable operation of the buttons.



3) Setting the time the display will be as shown, as the time is not set yet and will progress automatically to the next screen shown below.



Note: the indicator at the bottom shows the battery condition of both the batteries in the hand set and in the fire control within the fire.

RC = Remote Control / FC = Fire Control.

The control is designed to get the most out of the batteries but when eventually the display shows they are spent (when the battery indicator is empty, we recommend you change the batteries in the handset before they are flat, to avoid having to re-program the time of day in again. N.B. Pairing is not lost, even if the batteries are removed or flat.

4) Setting the display for 12 or 24 Hour display

As always when pressing the remote control buttons keep the control held to keep the green light on and therefore handset safety feature, unlocked. The H indicates that it is time to set the timer to either 24 hour display or 12 Hour (AM or PM) display. Press the + or – button on the handset to toggle between the two settings. When you are ready to confirm the setting you want press the "SET" button to progress to setting the day of the week.



Setting the day of the week

Press and release the + and – buttons until the correct day of the week is shown on the display.
(Mo = Monday, Tu= Tuesday, We=Wednesday, Th=Thursday, Fr=Friday, Sa=Saturday and Su=Sunday).
Press "SET" to accept the day of the week and to progress to setting the Hour of the day.
Note: Whilst doing this setup pressing "SET" advances to the next display and pressing "MODE" will return you to the previous display setting.



Setting the Hour

Press and release the + or – button to change the hour to the correct hour and press set to store and to move to setting the minute. Repeat this for setting the minutes.



Setting the temperature display to Celsius or Fahrenheit.

Press and release the + or - button to toggle between C and F.
When the display shows the desired symbol, press and releases the "SET" button to store.
As the important settings above have now been done. Press and hold (not releasing straight away) the "SET" button for a few seconds and this will exit the setup menu.
The control is now ready for use with the Fire Control.



Quick start user instructions

First set up the hand set, cup the handset **the green unlock light will illuminate.** Keep it held to keep the control unlocked, to enable operation of the buttons.



Then with the other hand touch and keep your finger on the power button for about 5 seconds. (Upon touching the power button the green light will do a **single flash** to show command is recognized – after 5 seconds the green light will flash for a second time, at which you should release your finger). The Fire should be lit within a few seconds. (N.B. If power button is held for more than a few seconds after second flash/beep, the command ignored for safety reasons. With this system, the control has been designed to ensure that only intended ignition of the fire occurs.)

To stop – with handset held to unlock it, press then release power button.

Mode
Man = Manual
Zzz = Snooze
Therm = Thermostat
Timed

In Range of the fire
If missing out of range or fire switched off

Day of the Week

Time (12 or 24hr)

Fire Status

Battery Indicator
RC = Handset
FC = Fire Control

Light Sensor (for Display Backlight)

To Change Mode

Press to Decrease

Power Button



Room Temperature

Handset Unlocked if Illuminated

To Change Settings see handbook

To Increase Flame

Operating instruction (Detailed)

1) Upon successful insertion of the batteries in the Handset (if the handset has not previously paired) the display will be as shown if it has been paired already then go to No 3.



1a) If display is not as above the handset may well need to be reset before pairing. Press and Hold "Set" Button, to enter Programing menu When Set Up is flashing, press and release set to enter Setup Mode.



Press and Release the "Set" button several times until you see CAO displayed. Then press and release "+" button once to change display to CA1 Press and Release the "Set" button once more to display TESC, handset is now ready to pair.

2) Pairing the Handset to the Fire Control

After fitting the batteries as above (and with the isolator slide switch on the TESC Fire control in the ON position), simultaneously press and hold the – and + buttons on the fire control (i.e. not the handset) until the handset makes a noise and the display shows the pattern as shown here.



Hold the handset in one hand so your fingers wrap around the back of the operating buttons area of the handset. A green unlock light will illuminate when the handset has detected your hand. The

green light must be illuminated in this way for any of the command buttons to accept commands to operate the fire control. Whilst the display is as shown, and holding the handset as described, press the "SET" button with the other hand to finish off the pairing of the handset to the Fire

Control and to enter to setup the time of day on the handset. N.B. If the display returns to the one shown above with the word "TESC" shown, then too much time has passed before pressing "SET" and so the handset has not paired yet. Simply repeat pairing again.

Advanced settings Menu

In the event that you may want to change the other pre-set settings of the control features. Do not do a long press and hold above but a normal short press and release will take you into the advanced settings area.

Advanced settings options are:-

- Back light –
 - o A = Automatic (default setting). The back light comes on in the dark but not in the light.
 - o 0 = Light never comes on.
 - o 1 = Light comes on whenever handset is unlocked.
- Display contrast – 8 levels from 0 to 7 (default level 4).
- P = pairing with other devices other than the fire control.

The hand set can pair with other modules to:-

- o L= Operate an electric light – which is the dimmable in 9 steps
- o F= operate an electric fan –which can have 9 speed levels
- o A= operate an auxiliary contact to operate another device.

Note:

Fitting the batteries incorrectly could lead to damaging your Valve.

Different types of batteries or old and new batteries are not to be mixed.

Only batteries of the same or equivalent type as recommended are to be used.

Batteries are to be inserted with the correct polarity.

Exhausted batteries are to be removed from the fire.

The supply terminals are not to be short-circuited.

Do not use rechargeable batteries.

Non-re-chargeable batteries are not to be recharged.

Do not mix old and new batteries.

Do not mix alkaline, standard (carbon zinc) or re-chargeable batteries.

SECTION 17a: Remote Error Trouble Shooting Guide

Code	Comment	Appearance	Possible Cause	Action	
E00	TESC locked due to failed ignition	Red Led is permanently on TESC unit (and E00 on handset, if used)	Temporary air disturbance around pilot burner	Reset control by pressing start button for 1 second and releasing. The press again the same way to attempt a normal start command. Repeat up to 10 times as necessary to see if this overcomes the issue as it may resolve itself eventually.	
			No gas on appliance inlet	Check to see if gas is present at gas appliance inlet. (Check gas supply is on, the gas line purged of air and the supply pipework is free of blockages or contamination)	Rectify and perform start cycle to clear the Error code. Try to light the fire as normal.
			Pilot contaminated with lint or other materials	Clean the pilot fee of any dirt, dust carbon granules or lint, especially around the brass body of the Bunsen burner and its gas and electrical connection and the area around the flame ports and the spark plug and electrode tip. Check the electrode gap is 3- 4 mm.	Rectify and perform start cycle to clear the Error code. Try to light the fir as normal. Replace pilot if necessary
			No Spark at Electrode (fire not igniting pilot burner)	Check ignition cable for damage and listen and watch for tracking out of spark to see if it is present but not making it to the electrode tip on the pilot burner.	If cable damaged, replace cable. Reset error by performing a normal start cycle and try to start again. Replace pilot if necessary.
			Pilot pipe or pilot injector could be blocked	Clear pipe and consider changing pilot	
	Low current from thermocouple but flame: possibly CO alarm	Flashing Red LED on TESC Control	Pilot pipe blocked - no gas reaching pilot burner	Check pilot pipe, check flame appearance of pilot flames	
E01			Chimney blocked causing Co / Co2 to build up in the room	Check flue	
			Pilot thermocouple defective / old	Change pilot or thermocouple	
			Possible temporary air disturbance on pilot flame	Clear error and restart to check ignition ok	

Code	Comment	Appearance	Possible Cause	Action	
E02	too high ambient temperature (>73 °C) around control		Negative flue pull or blocked flue or similar	Occurs if started ok then subsequently loss of thermocouple current. Check for flue problems. Fire cuts out to prevent over heating	Reset and try again
			Blocked flue	Check and clear	Reset and try again
			Poor position of Ceramic parts	Check manual for correct placement	Reset and try again
E03	no, defective, or bad connected thermocouple		Bad connection	Check if connected are correct and terminals are sound	Reset and try again
			defective thermocouple	Replace Pilot	Reset and try again
E04	false flame signal		occurs during stopping fire	Sensing flame on pilot when no flame should be there. Investigate.	Reset and try again
E05	false flame signal		Flame sensing on pilot before start of ignition sequence or after valve has shut off. Contamination of electrode to ground	Check if and clean around the area of the pilot for lint and other contamination and clean. Check where the thermocouple connect to the TESC control for the same contamination. Clean these areas.	Reset and try again
E06	too low voltage on power supply to start the burner		Weak or old or defective batteries	Replace batteries	Reset and try again
E07	power supply breakdown during peak current consumption		Check/change all the batteries or check power adaptor. : Note always change all batteries together never only 1 or 2	Replace batteries / power adaptor	Reset and try again
E08	error caused by external pressure switch		Check the pressure switch	Replace if necessary	Reset and try again
	Jumpers on back of valve missing		Check to see if jumpers are in 10 way connector		Reset and try again
E09	error caused by external pressure switch		pressures switch action connection or jumpers missing or not connected properly	Check pressure switch connections, check to see if jumpers are in place on back of TESC.	Reset and try again
E10	error caused by external pressure switch		pressures witch action connection or jumpers missing or not connected properly	Check pressure switch connections, check to see if jumpers are in place on back of TESC.	Reset and try again

Code	Comment	Appearance	Possible Cause	Action	
E11	short circuit on wired thermostat (if used)		Check switch	Check switch for damage, contamination across terminals or damaged wiring. Disconnect wired thermostat if fitted and try a start, if it works replace thermostat	Reset and try again
E12	open circuit on wired thermostat (if used)		Check wiring and thermostat	Check switch for damage, contamination across terminals or damaged wiring. Disconnect wired thermostat if fitted and try a start, if it works replace thermostat	Reset and try again
E13	wired thermostat is out of tolerance		Check wiring and thermostat	Check switch for damage, contamination across terminals or damaged wiring. Disconnect wired thermostat if fitted and try a start, if it works replace thermostat	Reset and try again
E14	button (-) sticks either on TESC or on wired control panel (if used)		Check for contamination around buttons	Clean as necessary. Replace switch panel as necessary if damaged or too contaminated. Disconnect wired control panel and try again – if it works replace wired control panel	Reset and try again
E15	button (+) is shorted to other buttons either on TESC or on wired control panel (if used)		Check for contamination/ damage -	Clean as necessary. Replace switch panel as necessary if damaged or too contaminated. Disconnect wired control panel and try again – if it works replace wired control panel	Reset and try again
E16	button (ON/OFF) is shorted to other buttons either on TESC or on wired control panel (if used)		Check for contamination / damage and replace wired switch panel if necessary	Clean as necessary. Replace switch panel as necessary if damaged or too contaminated. Disconnect wired control panel and try again – if it works replace wired control panel	Reset and try again
E17	button (-) is shorted to other buttons either on TESC or on wired control panel (if used)		Check for contamination / damage and replace wired switch panel if necessary	Clean as necessary. Replace switch panel as necessary if damaged or too contaminated. Disconnect wired control panel and try again – if it works replace wired control panel	Reset and try again
E18	button (AUX) is shorted to other buttons on switch panel		Check for contamination / damage and replace wired switch panel if necessary	Clean as necessary. Replace switch panel as necessary if damaged or too contaminated.	Reset and try again
E19	Infrared receiver defective (if used)		Check connection of IR or damage - replace if necessary IR eye	Check if wired correctly and replace IR eye if necessary	Reset and try again
E20	Incorrect setup parameters		Check connection of IR or damage - replace if necessary IR eye	Check if wired correctly and replace IR eye if necessary	Reset and try again

Code	Comment	Possible Cause	Action	
E21	tried to config a TESC as Cluster slave while a wired thermostat is connected	Factory assembly warning on setup configuration not a maintenance error	Usually only a factory assembly error. Could happen if done in error in servicing.	Reset and try again
E22	tried to calibrate TESC with TESCeasytest while a wired thermostat is connected	Not field error	Disconnect thermostat before attempting to use Easy test unit.	Reset and try again
E23	warning: end of life is near, should be replaced soon	Not field error	Indicated that control has performed a high number of operations and so fire should be serviced and control replacement should be considered as preventative maintenance. (Should not really occur before 10 years from new, depends upon usage).	Reset and try again
E24	Thermocouple doesn't reach final current - damaged or aged	Replace Pilot	Check and correct Thermocouple wiring. Replace thermocouple if necessary	Reset and try again
		Check pilot connections	Check and correct Thermocouple wiring. Replace thermocouple if necessary	Reset and try again
		Pilot pipe may be blocked completely	Clear pipe, replace pilot as necessary	Reset and try again
E25	Poor thermocouple signal	Tired or bad connection of thermocouple or bad or unstable flame on pilot or poor grounding return	Check pilot thermocouple connections and connections to TESC	Reset and try again
E26	defective or wrong wired USB-power supply	try again and if repeatedly fails replace	Replace with new USB power supply of the correct type.	Reset and try again
E48	short circuit on thermocouple, or thermocouple reversed polarity	Wrongly wired	Check and correct Thermocouple wiring. Replace thermocouple if necessary	Reset and try again
E49	false flame signal	Flame detected during operation of fire when it should not be detected - contamination of electrode circuit to ground	Check if and clean around the area of the pilot for lint and other contamination and clean. Check where the thermocouple connect to the TESC control for the same contamination. Clean these areas.	Reset and try again
E50	internal error	Flame detected during operation of fire when it should not be detected - contamination of electrode circuit to ground	Check if and clean around the area of the pilot for lint and other contamination and clean. Check where the thermocouple connect to the TESC control for the same contamination. Clean these areas.	Reset and try again
E51	error caused by external pressure switch		Check pressure switch connections, check to see if jumpers are in place on back of TESC.	Reset and try again

SECTION 18: CLEANING THE COALS

- Open the glass door
- Remove the ceramic components.
- Gently clean in the open air using a dry paint brush.
- Be careful not to create dust from the ceramics.
- Where necessary replace damaged components with genuine spares.
- Seal scrap ceramic components in plastic bags and dispose at proper refuse sites as directed.
- Re-fit the ceramics by referring to the relevant section of these instructions.

GENERAL CLEANING

- Before carrying out any of the following operations, ensure that the fire is OFF and completely cold.
- Debris that may form on the fire bed should be periodically removed by a competent person. Large deposits could indicate deterioration of the flue. This should be repaired by a competent person, and the fire serviced before further use.
- FIRE FRONT/FRET - Any dust accumulating in the fire front may be removed using a vacuum cleaner or dry cloth. Heavy stains may be removed by using a damp cloth and mild household detergent.
- Brass parts of the fire front may be cleaned using a suitable brass cleaner.
- Replace the front centrally against the fire after cleaning.
- PAINTED AREAS - These can be cleaned using a dry cloth.
- GLASS - Remove the Glass panel as shown on page 10 and 11 please follow the instructions carefully and clean glass with a glass cleaner and a lint free cloth or Microsoft cloth, if white haze or carbon discolouration is still apparent the a metal polish such as Hotspot or Peek can be used to remove these stubborn particles, **when securing the glass in place please secure all screw half way before fully tightening the glass to avoid twisting the glass door.**