

Cast Tec

High Efficiency Remote Control

Inset Live Fuel Effect Gas Fire



Installation and Users Instructions

These instructions should be read by the installer before installation and then should be handed to the end user when the installation is complete.

This is an official requirement and is the responsibility of the fitter of this appliance.

Having installed the appliance, the installer should take the necessary steps to ensure that the user fully understands how to operate the appliance and is also made aware of the fire's basic cleaning and maintenance requirements.



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This appliance has been designed, tested and manufactured to the British Standard BS 7977-1:2002 relating to Radiant Convector Gas Appliances and **must** be installed by a qualified Gas Safe Registered Installer in accordance with the Gas Safety (Installation and use) regulations 1994 and all other relevant standards.

This appliance must be connected in accordance with the National Regulations. The appliance must be sealed into a non-combustible fireplace (Fig. 2) whose only opening must be through a Class I (7" or 175mm diameter) or Class II (5" or 125mm diameter) chimney / flue of at least three metres in height.

Before installation, ensure that the local conditions, (identification of gas type and pressure) and the adjustment of the appliance are compatible. Never place combustible material directly in front of this appliance. Floor covering such as carpet is acceptable but must be a minimum of 300mm from the incandescent flame.

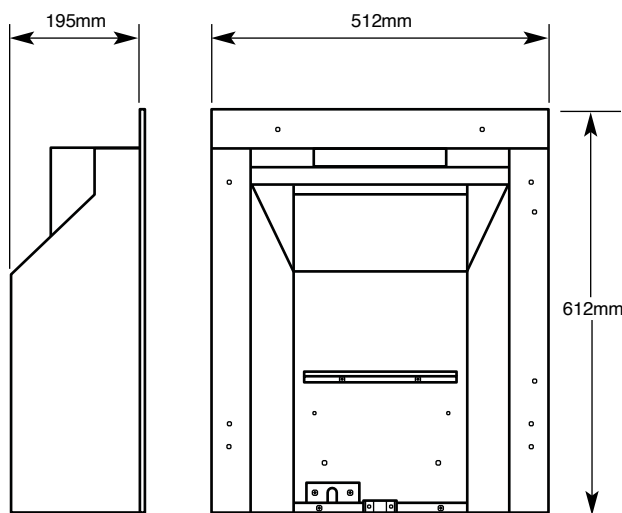


Fig. 1

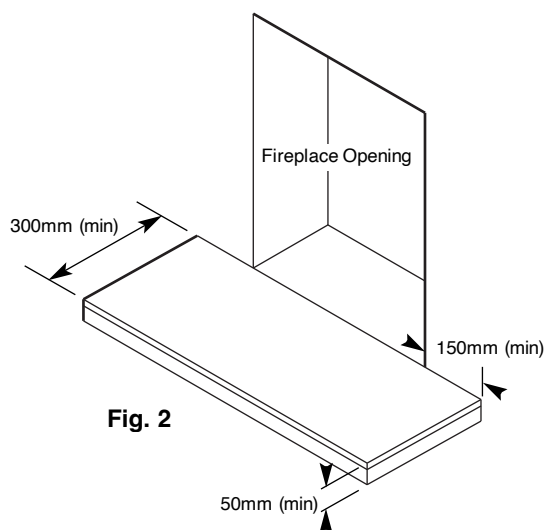


Fig. 2

This fire is a very effective heating appliance and must be fitted against a wall of non-combustible material as classified in BS 476-4:1970 (2007).

An air vent is not normally required for this application because its input does not exceed 7kW. We recommend that the chimney/flue is swept prior to installation of this appliance and that any flue restrictor or damper plate should be removed or fixed in the open position. The chimney/flue must always generate a positive up draught to ensure safe operation.

The installer must then establish that all the products of combustion are entering the flue within ten minutes of lighting from cold. This can be verified by inserting a lit smoke match into the left and right hand ducts immediately above the glass retaining strip. It should NOT be inserted into the central convector duct. This operation should be carried out before fitting the trim and louvred panel (see 'Spillage Test' page 4).

An isolation valve must be fitted adjacent to the appliance. When closed, this will allow the complete burner and control assembly to be disconnected for maintenance or repair in accordance with national regulations.

The gas supply should be provided by a semi rigid pipe with an 8mm diameter and should be no longer than 1.5 metres in length.

NOTE: When the gas supply pipe is passed through masonry or other brickwork always ensure that the end of the pipe is covered to avoid any debris passing through into the appliance controls.

The appliance is fitted with an Oxygen Depletion Sensor (ODS) that monitors the room for products of combustion. If products are detected, the ODS will automatically shut down the appliance. If this situation arises, re-light the appliance, referring to the user instructions (page 12). If shut down re-occurs, a qualified person must be called to thoroughly check the appliance. The spillage monitoring system (ODS pilot) must not be put out of operation or be tampered with or adjusted by either the installer or the user. If the unit is found to be at fault it should be replaced with the manufacturers original replacement parts.

INSTALLATION REQUIREMENTS



This appliance must only be installed in Great Britain or Ireland.

1. This fire is a natural gas appliance and has been designed for use with the following applications:

a) **Class I** - Conventional brick or stone chimney as used for a solid fuel fire with a cross sectional dimension of 225mm x 225mm (9" x 9") or a lined flue with a minimum diameter of 175mm (7"), with the fireplace components conforming to BS1251, or a builders opening a minimum of 560mm high and 406mm wide with a minimum depth of 230mm to allow sufficient volume for debris collection (unlined chimney 12 dm³ and lined 2 dm³). To obtain this depth it would not normally be necessary to remove the chair brick. Any permanent flue restrictions or variable dampers are to be removed or locked in the fully open position. The chimney should also be swept prior to installation.

b) **Oversized Void** - Where an oversized void is encountered it must be reduced in size by lining with bricks or blocks or alternatively inserting a metal flue box. The nominal dimensions of the void should not exceed 650mm wide x 475mm deep x 800mm high BS5871-2.

c) **Class II** - A double walled or insulated metal flue box built to the requirements of BS715 with an insulated flue having a minimum diameter of 125mm (5") and a minimum effective overall height of 3 metres (10').

NOTE: If the flue box is to be used with an existing brick or stone chimney, a 125mm (5") minimum diameter flue liner conforming to BS715 may be used.

2. A non-combustible hearth must be provided to comply with current building regulations. Care should be taken to prevent any damage being caused to surrounding soft furnishings or decoration, e.g. many embossed vinyl wall coverings may become discoloured if placed too close to the appliance.

3. A suitable proprietary fire surround with 100°C rating may be used with a minimum clearance from hearth to underside of shelf of 830mm, providing that the depth of shelf is 150mm or less.

4. Where the shelf depth is greater than 150mm, the minimum height clearance should be increased by 25mm increments for each additional 12.5mm of shelf depth.

5. Minimum width between vertical sides of combustible surround should not be less than 800mm provided the appliance is central to the surround and the surround legs do not exceed a 150mm profile.

6. If the 150mm profile is exceeded, the width of the surround (and the back panel) should be increased by 25mm for each additional 12.5mm of profile depth.

d) **Pre-cast Flue** conforming to BS 1289 Part 1 (It may be necessary to use a surround with a deeper rebate than usual to accommodate a flush fit with certain starter blocks. Check the appliance dimensions against individual applications.

FLUE FLOW TEST

A flue flow test (smoke test) is carried out to check the effectiveness of the flue and to ensure that there is no leakage into another part of the premises (including any loft), or as appropriate other adjoining premises (this is particularly important where a number of chimneys combine into a multiple stack).

The flue flow test should be carried out using a suitable smoke pellet which the pellet manufacturer claims to generate 5m³ of smoke in 30 seconds burn time.

These gas fires should have the flue flow test carried out with the appliance in position but not connected to the gas supply so that the smoke test can be carried out with representative flue flow conditions.

A warm flue will be more effective than a cold flue. If the flue is reluctant to draw, which can be initially assessed by lighting a smoke match at the intended position of the appliance flue connection, introduce some heat into the flue for a minimum of 10 minutes using a blow torch or other means.

Other factors, such as weather conditions and a combination of materials used to construct the flue can all influence the flue draught. The pre-heating process may require as much as half an hour before the flue behaves satisfactory as a blow torch does not represent the volume of heat consistent with the normal appliance operation.

A Flue Flow Test should be checked as follows:

1. Carry out those visual checks as indicated previously, and continue only if satisfactory.
2. Establish that an adequate air supply is available for the combustion of the appliance
3. Close all doors and windows in the room that the appliance is to be installed.
4. Light a smoke pellet at the intended position for the appliance. Place the inset fire case into position.
5. The test is satisfactory if
 - there is no significant escape of smoke from the appliance position.
 - there is no seepage of smoke over the length of the flue.
 - smoke is discharged only from the correct terminal.

VENTILATION

No special ventilation bricks or vents are required in the room containing the appliance, providing that normal adventitious room ventilation exists. The installer must determine this by carrying out a spillage test.

SPILLAGE TEST

To check for satisfactory clearance of products of combustion, close all doors and windows and leave the fire burning for ten minutes. Insert a lit smoke match into the left and right hand ducts immediately above the glass retaining strip. It should NOT be inserted into the central duct. This operation should be carried out before fitting the trim and louvred panel. All the smoke must be drawn into the flue. If spillage occurs, allow a further ten minutes and repeat the test. Should spillage still occur turn the appliance off and seek expert advice. To continue the test: If an extractor fan is situated in the room the test should be repeated with the fan running. If there is a connecting room with an extractor fan the test should be repeated with all the doors to that room open and the extractor fan running.

INSTALLATION PROCEDURE FOR STANDARD 22" X 16" OPENING



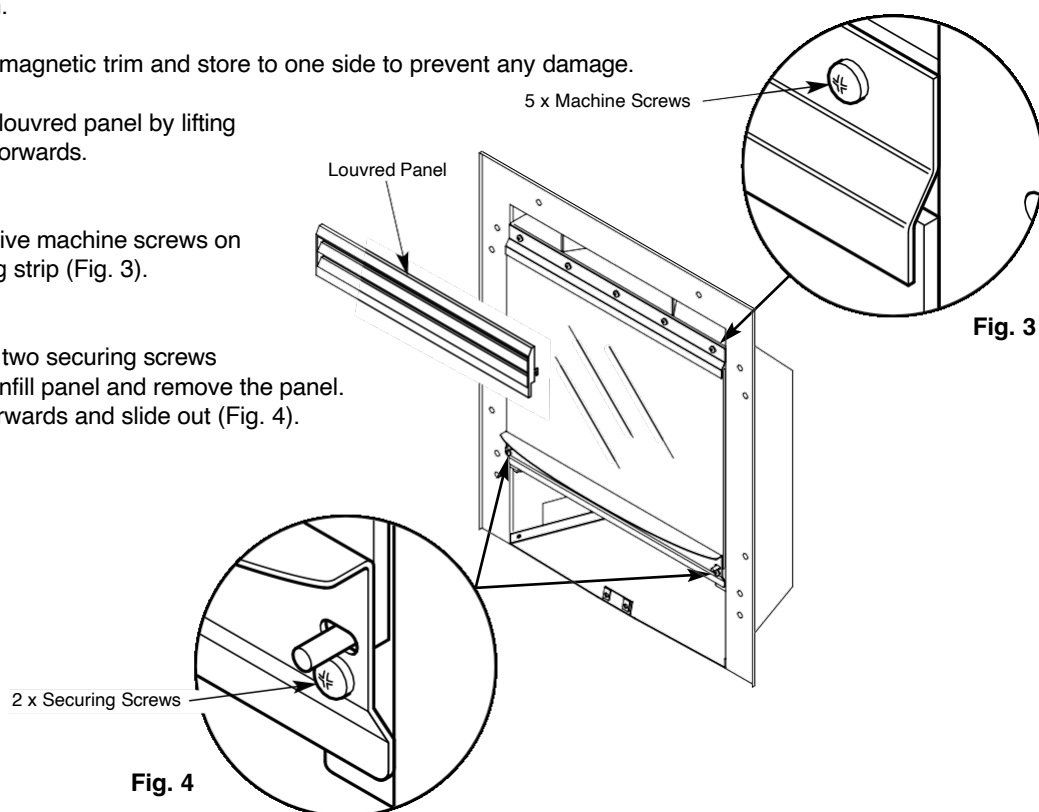
1. Carefully lift the appliance out of the packaging taking care not to damage the ceramic components in the separate carton.

2. Remove the magnetic trim and store to one side to prevent any damage.

3. Remove the louvred panel by lifting up and pulling forwards.

4. Slacken the five machine screws on the top retaining strip (Fig. 3).

5. Unscrew the two securing screws from the lower infill panel and remove the panel. Tilt the glass forwards and slide out (Fig. 4).

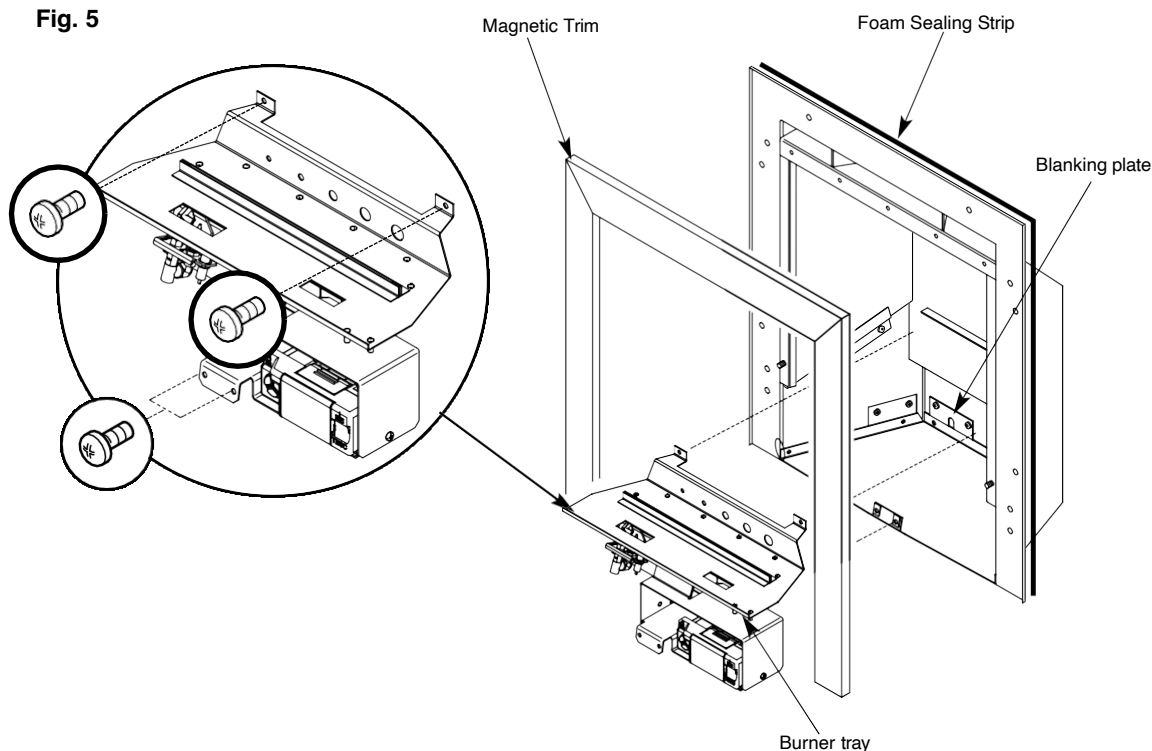


6. Cut the foam sealing strip (in plastic bag supplied) to length and stick a continuous strip down the two sides and across the top of the radiant box. When the box is placed against a flat surface the foam strip will form a seal around the boxes flange.

7. Carefully lift the appliance into position in the fireplace opening and check that the flange of the radiant box fits flush against the sealing face with no gaps present.

8. Remove the four screws that secure the burner tray to the box, two on the front leg and two at the rear of the tray. Remove the burner tray and place to one side (Fig. 5).

Fig. 5

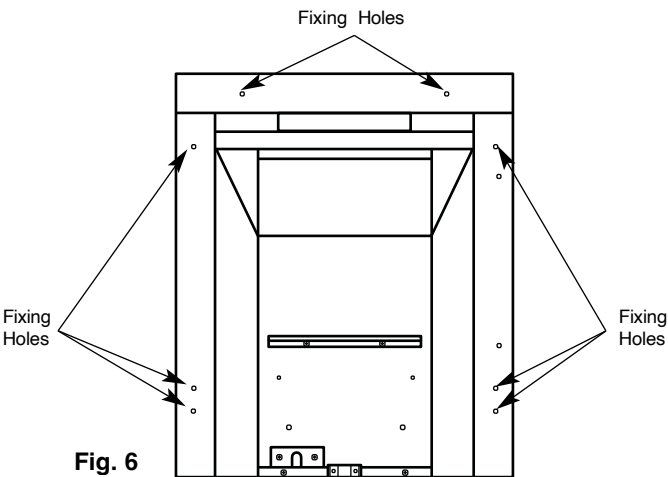




9. When the burner tray has been removed, decide which side of the appliance the gas supply will be entering the radiant box and remove the relevant blanking plate. The gas supply should be concealed as much as possible. Both blanking plates **MUST** be re-fitted or this could seriously impair performance.

10. With the radiant box placed in the opening, mark out four of the eight fixing holes. Remove the box and carefully drill and fit rawl plugs.

11. Pass the 8mm gas connection through the back of the box and secure the box into place using four screws (straight shank screws are recommended for marble). Check that the outer flange of the appliance is completely sealed against the back panel.



ALTERNATIVE FIXING METHOD

Where the drilling of the back panel is not practical, an alternative fixing method may be employed using the **optional** cable fixing kit provided. Drill four holes in the rear of the fireplace opening (Fig. 7). Securely fix the four eye bolts provided using suitable rawl plugs. Feed one cable through each of the top holes in the rear of the fire box.

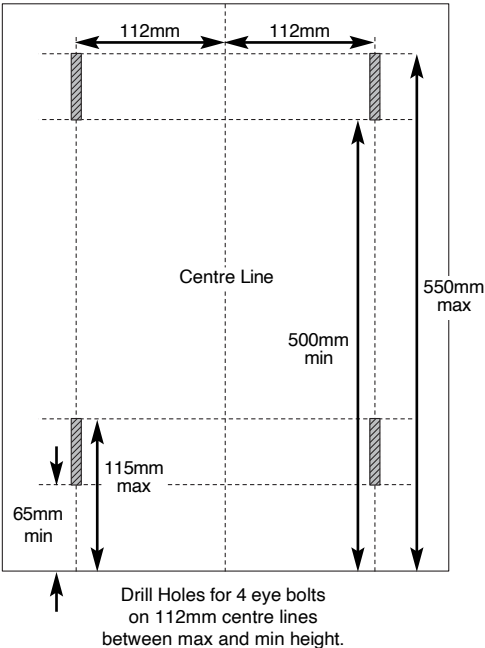
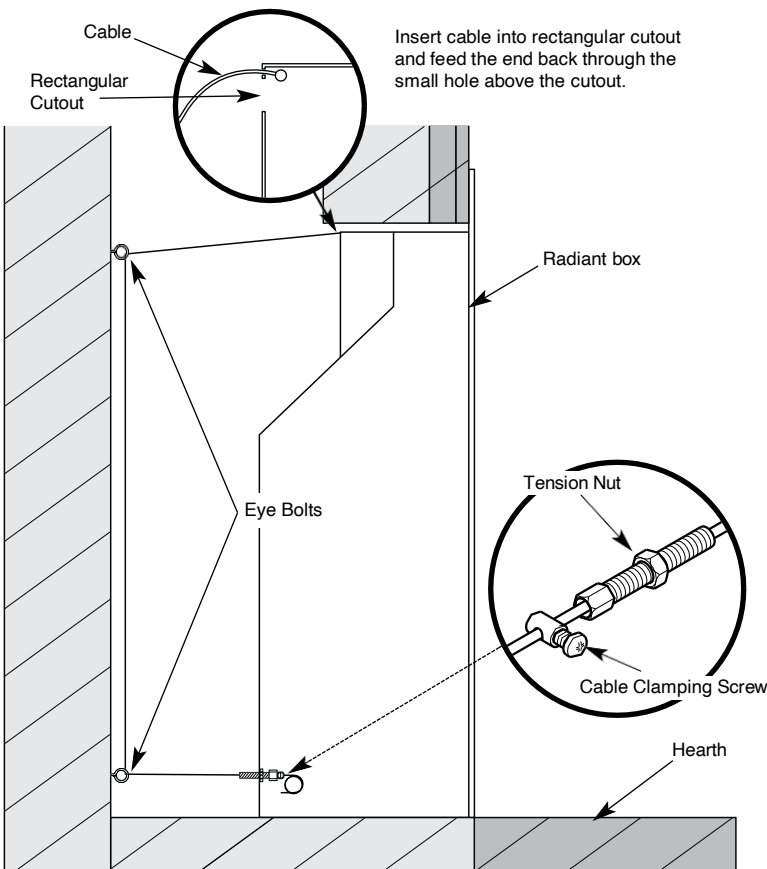


Fig. 7

Fig. 8

Fix the radiant box into the opening, securing into position using the cable fixing kit (Fig. 8). Do not cut off the loose ends as the full length is required should the radiant box need refitting at any time. Coil up and securely store underneath the burner tray.

1. Position the burner tray into the box in order to determine the length of 8mm gas supply needed and cut to length.
2. Before making the final connection, thoroughly purge the supply pipe to clear any foreign matter, i.e. masonry dust etc, as this could lead to blockages in the control valve and/or pilot assemblies.
3. Fix the burner in place using the four screws and make the gas connection. Carry out a gas soundness test.



1. Install the decorative cast surround into the fireplace opening and ensure it is fully sealed including the open area above the fire (see Fig. 9).
2. Carefully lift the fire box out of the packaging taking care not to damage the ceramic components in the separate carton.
3. Cut the foam sealing strip (in plastic bag supplied) to length and stick a continuous strip up one side, across the top and down the other side of the rear of the radiant box. When the box is placed against the cast surround the foam strip will form a seal around the boxes flange.
4. Lift the fire box on to the two studs at the top of the surround and check that the flange of the radiant box fits flush against the sealing face with no gaps present.
5. Locate the decorative frame on to the studs and secure with the two nuts provided.
6. Insert the two screws into the lower holes in the decorative frame and carefully tighten ensuring the fire box is securely clamped between the frame and the surround.

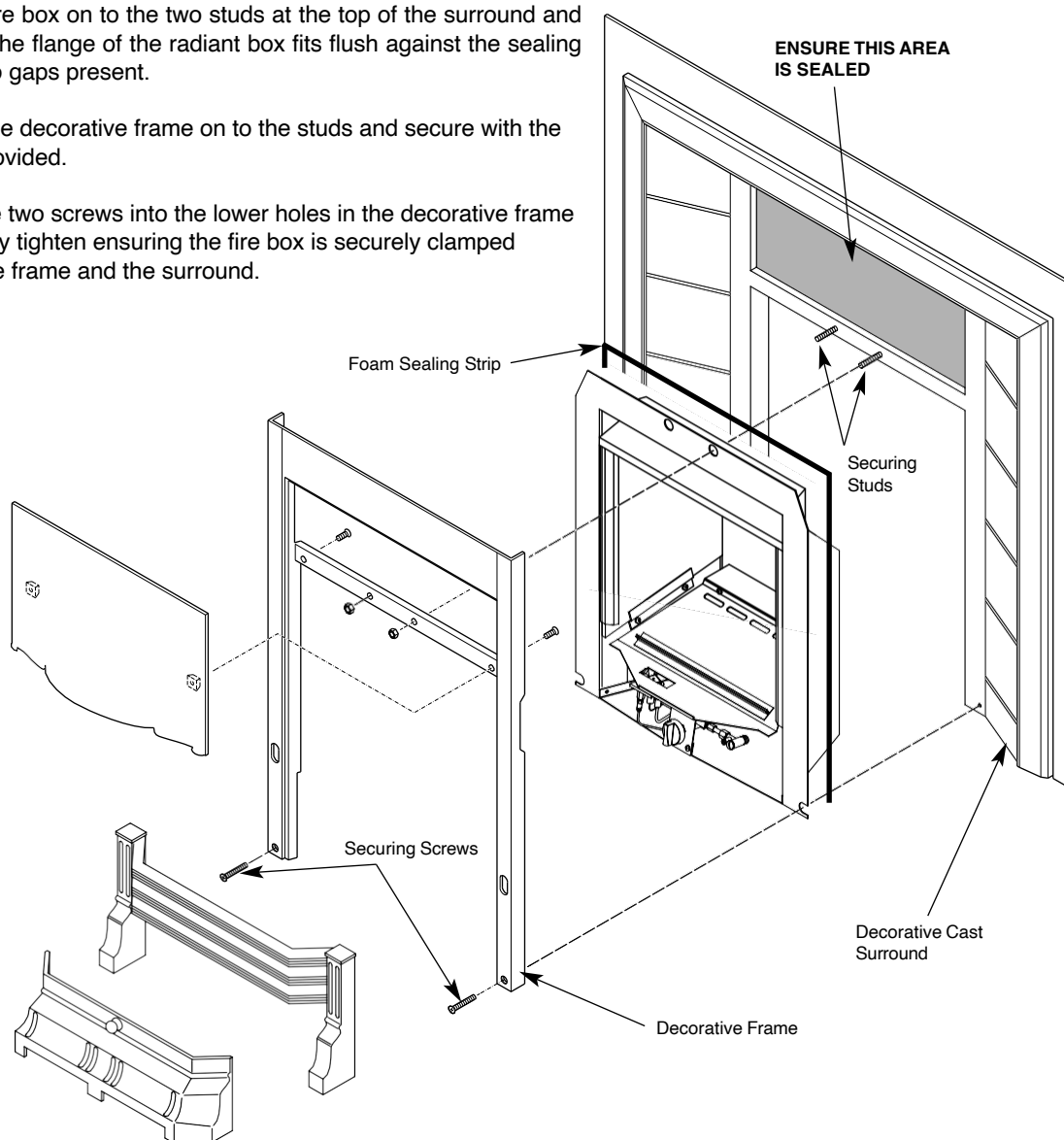


Fig. 9

COMMISSIONING



1. Unscrew the inlet pressure test point sealing screw (Fig. 10) and fit a manometer. Consult the user instructions (page 12). Ignite the appliance and turn to the high position.
2. Take a pressure reading and consult the technical data (below) to establish the correct working pressure.
3. Once the pressure has been checked and verified, turn off the appliance. Consult the ceramic component set up diagrams (pages 19-20) and fit the ceramics as per the instructions.
4. Re-install glass panel. The glass should be positioned centrally to ensure the decorative trim will fit over it.
5. Carry out a Spillage Test (page 4).

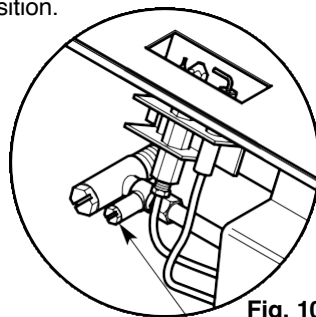


Fig. 10

Inlet Pressure
Test Point

TECHNICAL DATA

Gas Type	Natural Gas (G20) Cat I _{2H}	
Gas Connection	8mm	
Number of Injectors	One	
Injector size	Stereomatic 1.70mm	
Control Max Operating Temperature	80°C	
Inlet Pressure Cold	20 mbar	
Heat Input (Gross)	4.6 kW (Full)	3.0 kW (Reduced)
Weight	10.4 kg	
NOx Level	Class 5	

REPLACEMENT PARTS

1. **Modular Coal Set** - The ceramic coals supplied with this appliance can be replaced at service intervals depending on their condition. If the coals do require replacement, the consumer can do so provided that the Ceramic Component Layout Instructions (pages 19-20) are adhered to. Under no circumstances should additional/extra coals be added. Only genuine Legend replacement parts should be used.
Order Ref: **EVCS01**
2. **Oxygen Depletion Sensing Pilot** - In the unlikely event of a pilot failure, the pilot assembly should only be replaced by a **Gas Safe Registered Engineer**. The user must not carry out this work.
Order Ref: **LEG62**
3. **TESC Valve** - In the unlikely event of control valve failure, the assembly should only be replaced by a **Gas Safe Registered Engineer**. The user must not carry out this work. **Order Ref: ETH02**
4. **Glass Panel** - Should the glass become cracked or broken, the fire should not be used under any circumstance.
Order Ref: **LEG59**
5. **Glass Rope Seal** - The integrity of the glass rope seal should be checked on service and replaced if necessary by a **Gas Safe Registered Engineer**.
Order Ref: **LEG58**



NOTE: The purpose of the Error code is to give some information as to the potential reason for the fire not starting rather than just no flame. The appearance of an error code does not mean there is necessary a fault with the control or the appliance, it could be external factors outside the control that could cause error codes to appear from time to time and they could just be a one off event , so please check and work through the suggested service actions below before considering changing the control box. These codes are there to help with a more certain and efficient servicing of the appliance. Changing the box without working through the guide could lead to an unnecessary and expensive service and probably a repeat visit to fix the real fault.

SERVICING MUST ONLY BE CARRIED OUT BY COMPETENT PERSONAL WHO HAVE CURRENT QUALIFICATIONS AND ACCREDITATION (I.E. GAS SAFE)

NOTE: After correcting fault, perform a restart to reset error display to normal standby mode. Also depending upon the repair, air will need to be bled out of the system and it may take several start attempts to do so. E00 may appear and need to be reset a few times during the purging process, depending upon the length of supply pipe. Bleeding the supply pipe via the isolation valve pressure test point will help speed up this process.

NOTE: Before undertaking any actions on the servicing as detailed below , replace the batteries in the control and handset (if applicable) with new and know to be good batteries. Faulty batteries will cause error codes. There is a difference between old and faulty batteries and they may give false errors if the batteries are faulty.

ALWAYS CHANGE ALL THE BATTERIES TOGETHER AND NOT JUST ONE OR TWO AND ALWAYS OF THE SAME MAKE AND TYPE (I.E MANUFACTURER AND MODEL TYPE).

Generally : After replacing the batteries, to clear the error code perform a start cycle by pressing the start button as normal. Then press again in the same way to attempt a new start cycle. The error code must be cleared this way after every error code is displayed to start again.

TROUBLE SHOOTING (GAS SAFE ENGINEER ONLY)



Code	Comment	Apperance	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. Then 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 free 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 fire 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	
E01	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	
			Chimney blocked causing Co / Co2 to build up in the room build	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	
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 correctly and terminations 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 and clean around the area of the pilot for lint and other contamination. Check where the thermocouple connects 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		Pressure 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
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

TROUBLE SHOOTING (GAS SAFE ENGINEER ONLY)



Code	Comment	Apperance	Possible Cause	Action	
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	Illegal 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
E21	Tried to config a TESC as Clusterslave 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 TESC easy test while a wired thermostat is connected		Not field error	Disconnect thermostat before attempting using 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).	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 TSC 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 TSC 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
E52	Error				Reset and try again
E27	Error				Reset and try again
E28	Error				Reset and try again
E29	Error				Reset and try again
E30	Error				Reset and try again
E31	Error				Reset and try again
E32	Error				Reset and try again
E33	Error				Reset and try again
E34	Error				Reset and try again
E35	Error				Reset and try again
E36	Error				Reset and try again
E37	Error				Reset and try again
E38	Error				Reset and try again
E39	Error				Reset and try again
E40	Error				Reset and try again
E41	Error				Reset and try again
E42	Error				Reset and try again
E43	Error				Reset and try again
E44	Error				Reset and try again
E45	Error				Reset and try again
E46	Error				Reset and try again
E47	Error				Reset and try again
E53	Error				Reset and try again
E54	Error				Reset and try again
E55	Error				Reset and try again
E56	Error				Reset and try again
E57	Error				Reset and try again
E58	Error				Reset and try again
E59	Error				Reset and try again
E60	Error				Reset and try again
E61	Error				Reset and try again
E62	Error				Reset and try again
E63	Error				Reset and try again



Warnings

All parts of the appliance become hot while running and should therefore be considered to be working surfaces.

A suitable guard may be required to take account of special hazards that exist in nurseries and other places where there are young children, aged or infirm persons.

Curtains are not to be placed directly above the appliance.

It is recommended that combustible materials are not placed directly above this appliance.

This appliance should not be used if the glass door has been removed, broken or is open.

Fire Control

This control is situated on your fire. The drawing shows the main features of the control.

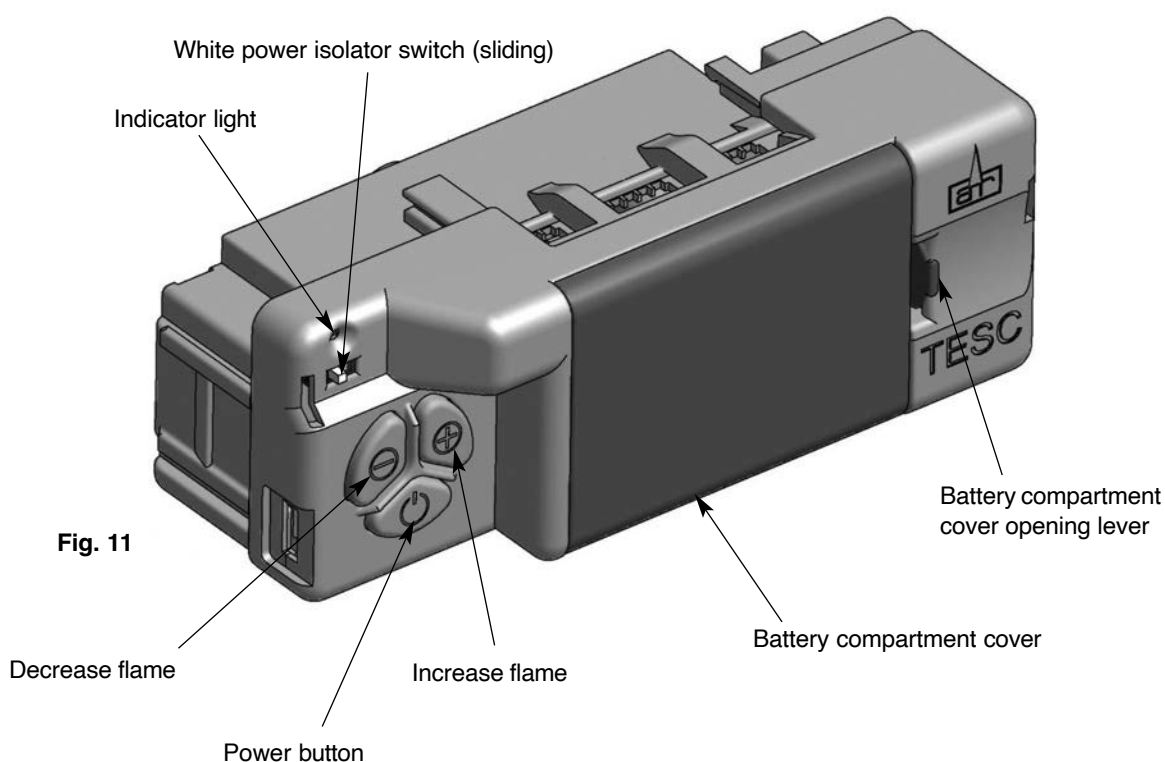


Fig. 11

Check the power isolator switch is in the On position (I).

To start the fire, press the power button and hold for 1 second then release. The burner will light within around 1 to 10 seconds, adjust to the maximum power setting.

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

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

If for any reason the fire should be switched off, either intentionally or unintentionally, no attempt should be made to re-light the gas until at least 3 minutes have elapsed.

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 to (O)).



Handset

Ensure the Power Isolator Switch on the front corner of Fire Control is in the on position (I).
Note: For safety reasons a button must be pressed and released for the command to be recognised. Keeping hold of the button when pressing (unless otherwise instructed) will not be recognised as a command press.

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.)

Mode - MAN (Manual), Zzz (Snooze), thermostat or timed.



Fig. 12

Power button – To start the fire, (after ensuring the fire control is turned on as described above), with one hand grasp around the rear of both sides of the button area control. The green unlock light will illuminate. Keep the handset held to keep the control unlocked, to enable operation of the buttons. Then with the other hand touch and hold a finger on the power button for about 3 seconds. A short beep and a flash of the unlock light will happen upon touching. When the word “pilot” appears at the bottom left hand corner of the display, immediately release the power button. 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/word pilot appears, the command is ignored for safety reasons. Similarly if it is released too soon before the word “pilot” appears, the command would also be ignored.



Operating instruction (Detailed)

THE HANDSET AND CONTROLS SHOULD ALREADY BE PAIRED AND THE DAY AND TIME SET CORRECTLY.

SHOULD ANY ADJUSTMENTS BE NECESSARY SEE INSTRUCTIONS BELOW:

Setting the time

Following pressing “SET” at pairing above, 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 legend at the bottom shows the battery condition of both the batteries in the hand set and in the fire control alternately. RC = Remote Control handset and 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 legend is a empty area, 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.



Fig. 13

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.



Fig. 14

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.



Fig. 15

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.



Fig. 16

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 release 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.



Fig. 17



Paging the handset

If you have misplaced the handset you can page it by pressing the + button only on the fire control for around 5 seconds. The handset will flash and make a noise to help you to locate it. Once you pick up the TESC it knows you hold it and so the sound stops. The flashing and sound will last for 60 seconds each time the handset is paged as described. If not found in 60 seconds, page again and so on.

NOTE: Press “+” button ONLY, NOT “+” and “-” together. This will break the handset pairing and have to reset handset to factory state and pair again.

Advanced settings Menu

In the event that you may want to change the other preset 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 –
 - A = Automatic (default setting). The back light comes on in the dark but not in the light.
 - 0 = Light never comes on.
 - 1 = Light comes on when ever 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:-
 - L= Operate an electric light – which is the dimmable in 9 steps
 - F= operate an electric fan –which can have 9 speed levels
 - A= operate an auxiliary contact to operate another device.

Other Modes than Manual Mode

Depending upon the model of Fire your handset maybe enabled to have some automatic features, namely, Thermostat mode, timed thermostat mode and snooze mode. Snooze mode can be selected to work with in conjunction with either manual or thermostatic modes. You can switch between modes at any time with the handset unlocked by pressing and releasing mode button to toggle between modes.

Note: If at any time the power button is pressed during operation, this will stop the fire and exit any automatic mode and return the handset to manual (MAN) operation mode.

Factory Reset of Display Handset (to enable handset to be paired again)

To reset a handset to factory conditions to enable it to be paired with a new control. Hold the handset to unlock. Press and hold set until handset beeps and release the set button. PROG will be at the top left corner. Press and release the mode button until the word SETUP is flashing in the top right corner. Press and release SET to enter the SETUP menu. Press and release the set button around 9 times until you see CA0 on the display. Press then release the + (or – button) to change the display to CA1 and press and release the SET button again. The word TESC will appear in the window to show that this handset is now reset and ready to pair again.

Snooze mode in manual operation

Snooze mode is a time period you can set which will turn off the fire after a certain time period has elapsed.

The snooze time period can be set before or during manual operation of the fire. Hold the handset to unlock as described previously and press the mode button as many times as necessary until the word MAN and the Zzz symbols are flashing at the top of the display. Press and release the set button and this will put the control into Manual snooze mode.

The default time period for the snooze time period is 1:00 hour. Pressing the set button again will show you the snooze time period remaining. This can be adjusted by pressing the “+” or “-“ buttons. The timer period that can be set is from 1 minute to 4:00 hours.

After adjusting the time, press set again to enter the time setting required (or if left for a few seconds this time is now stored and used).

Once this countdown timer has reached zero the fire will turn off (as if you had pressed off manually, it does not recycle).



Snooze mode in Thermostatic mode

The same thing as above can be done before or during a thermostatic mode operation (see below).

Thermostatic mode only

The handset has within it a thermostat sensor and this can be set so the fire will heat the room to match the temperature set in the handset.

There are 3 temperature types that can be set:-

-Day mode temperature that has a sun symbol on the display – the default temperature is 24 °C

- Night temperature that has a half moon symbol on the display- the default temperature setting is 18 °C

-frost protection that has a snowflake symbol on the display – the default temperature setting is 5 °C

Hold handset and press and release the mode button several times as necessary until the display has a thermometer symbol flashing at the top of the display. Press the set button to enter this mode.

Press the set button again to see the temperature setting that is set and the mode (the default is 24 C) and on the left of the display is a sun symbol showing it's the day temperature.

If a different set temperature is required, while the display is showing this set temperature , press the + and – buttons to alter the setting. When finished either press set or leave and after a few seconds the new setting will be accepted and the display will return to the time of day screen.

On the anniversary of the net minute of the clock, the set temperature will be compared to the actual temperature displayed on the handset(i.e. the room ambient temperature around the handset).

Note: If at any time the power button is operated during Thermostat mode, the control will cancel any thermostat operation and return the control to manual mode.

For ease of setting there are two other modes that can be selected as stated above. Night mode (moon symbol) and frost protection setting (a snow flake). These can be selected (and adjusted if necessary) by pressing set then mode while in thermostat mode. Pressing mode button toggles through from day to frost modes.

Note: As stated in an earlier section, snooze function can also be operated in conjunction with thermostat mode. The thermostat symbol and the Zzz symbol will be on together when in this mode.

The remote control display handset supplied with this fire will have already been factory set and should not need to be adjusted or re-paired. Read the operation instructions fully before attempting to de-pair the handset.

De-pairing and re-pairing the handset.

Note: Reading this instruction fully, will help the user to carry out the quick set-up procedure, it may take a few attempts to learn the sequence of commands due to the fast handset time-out period.

Should the handset fail to operate the fire control (and batteries are new), it may be necessary to re-pair it with the gas fire control system.

To do this the handset may need to be returned to factory settings.

1. Pick up in a grasp to activate handset and then press set button until PROG shows on top left of screen.
2. Use the mode button pressing twice to show SETUP on top right of screen.
3. Again press SET button and H24 should show, scroll through menu with 9 more presses of set button until CA0 shows, then immediately press + so CA1 shows, then again quickly press set so screen shows 7ESC r4.

The handset is now ready for repairing with the gas fire control.

The handset must be within 1 metre of the fire when pairing and must be initially held to illuminate and also initiate set up.

Simultaneously press the hold the – and + buttons on the gas fire control (i.e. not the handset) unit the red neon on top left of fire control begins to flash rapidly, then immediately release – and + quickly pressing the power button below. An audible command signal is sent out to the handset which is accepted by immediately pressing the set button (there is a 2 second time window to press the power button or – and + will have to be repeated).

The handset will make a noise and the handset will show a pattern (7- - r).

Immediately Press the Set button on the illuminated handset to accept the command for pairing.

Scroll through the menu using handset SET button, adjusting the day, time with buttons – and + then press SET button 6 times until screen shows a full display with wi- fi symbol.



Fig. 18



It is recommend that this appliance is serviced at regular 12 monthly intervals. The chimney or flue should also be checked regularly to ensure that all products of combustion are entering the flue and there is no excessive build up of soot.

It is the users responsibility to ensure that the appliance is kept in a clean serviceable condition.

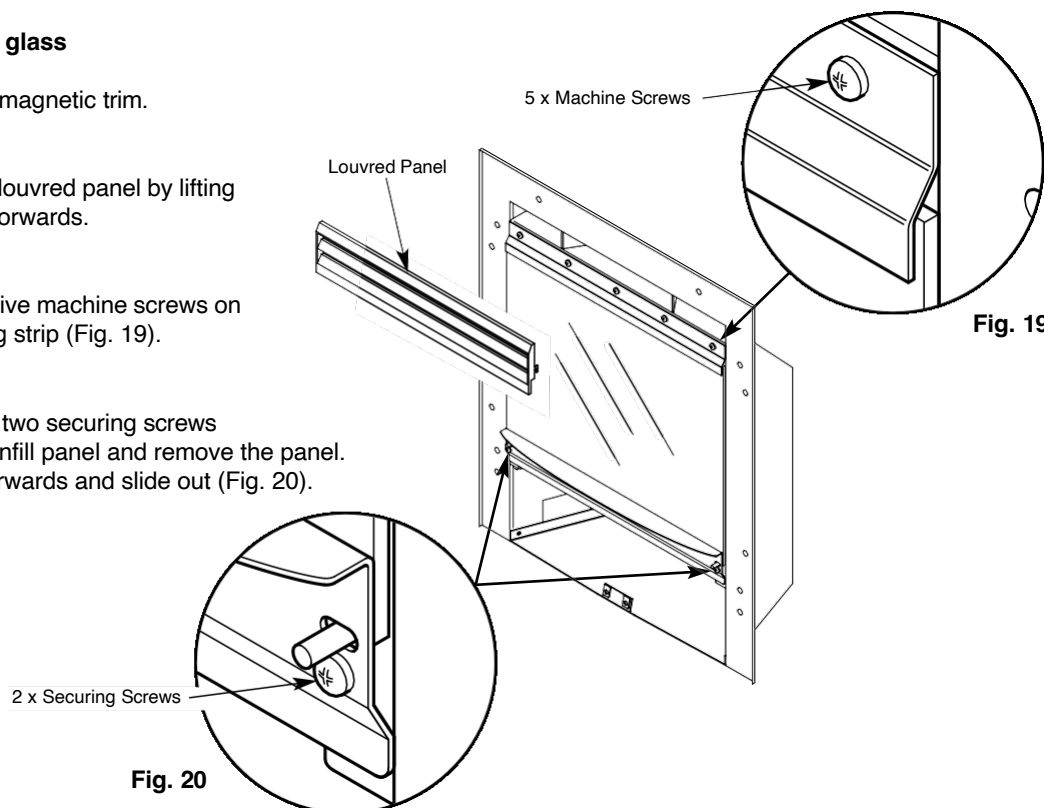
To remove the glass

1. Remove the magnetic trim.

2. Remove the louvred panel by lifting up and pulling forwards.

3. Slacken the five machine screws on the top retaining strip (Fig. 19).

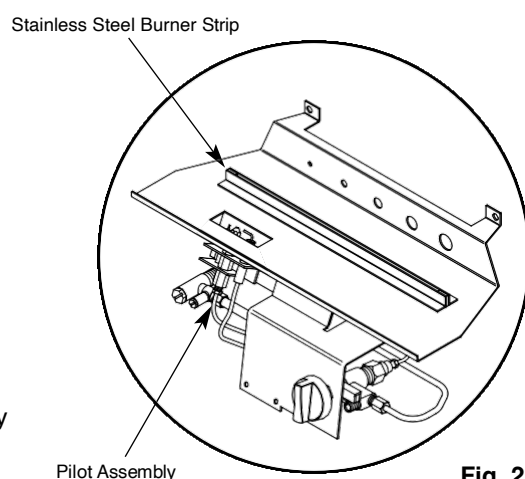
4. Unscrew the two securing screws from the lower infill panel and remove the panel. Tilt the glass forwards and slide out (Fig. 20).



5. Clean the glass with a damp cloth. For stubborn stains use a proprietary cream cleaner or ceramic hob cleaner.

Ceramic Components and Fuel Bed

Debris from any source should be removed with a soft brush. Please ensure that any debris including soot deposits are removed from the appliance and not left on the fuel bed. It is recommended that the user should, on a regular quarterly basis, carefully remove all ceramic components and thoroughly clean the stainless steel burner strip and the pilot assembly. Any build up of debris in this area could affect the operation of the appliance (Fig. 21).



NOTE: It is common to find surface cracks in the ceramic components. This is due to the expansion and contraction of the ceramic fibres caused by the intense heat that the burner generates. The cracks will not affect the safe operation of this appliance. However great care must be taken when handling the ceramic components as they will break if handled incorrectly. Do not use a vacuum cleaner to clean the ceramics.

Radiant Box Ceramic Liners - Use only a soft brush to remove any soot deposits from the ceramic liners during cleaning as this is the only method that can be used to remove deposits. The ceramic liners are very delicate and should be treated accordingly.

6. Reassemble in reverse order. The screws should be tightened enough to ensure the glass is sealed. The glass should be positioned centrally to ensure the decorative trim will fit over it.

Trims and Frets - The trim and fret should be removed from the appliance for cleaning, please ensure that the appliance has cooled thoroughly. Metal trims and frets maybe lacquer coated and therefore do not require polishing.

FIRE FRONT SPECIFICATIONS



Fire fronts are now available in many different designs and finishes. The user can now choose their own particular style of fire front to suit their individual fireplace setting, providing the fire front complies with the following dimensions -

Fire Front -	(X) Max: 210mm	Min: 190mm
Ash Pan Cover -	(W) Max: 90mm	Min: 65mm
	(Y) Max: 345mm	Min: 320mm

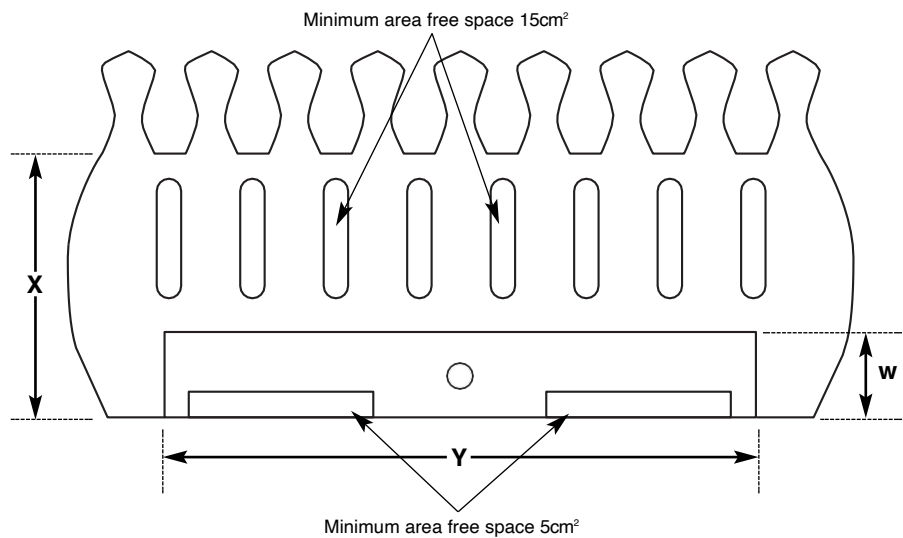


Fig. 22

SAFETY WARNING - This appliance has a naked flame and as with all heating appliances a fireguard should be used for the protection of children, the elderly and infirm. Fireguards should conform to BS 6539 (1984 Fireguards for use with solid fuel appliances). This fire is not fitted with an integral guard. In normal use consideration may be given to the use of a fireguard confirming to BS 6539, such that the approach to the naked flame is minimised.



CAUTION: The coals are extremely fragile and must be handled accordingly. Gloves should be worn and any inhalation of dust should be avoided. The coals must be kept away from children at all times. Never put additional coals on the fire. Never use coals other than those originally supplied, or genuine Legend Spare Parts.

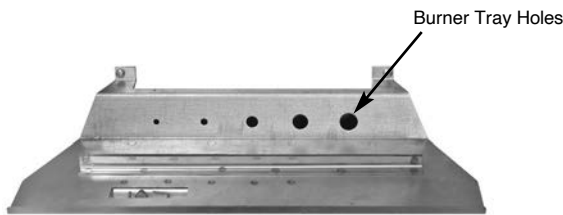


Fig. 23

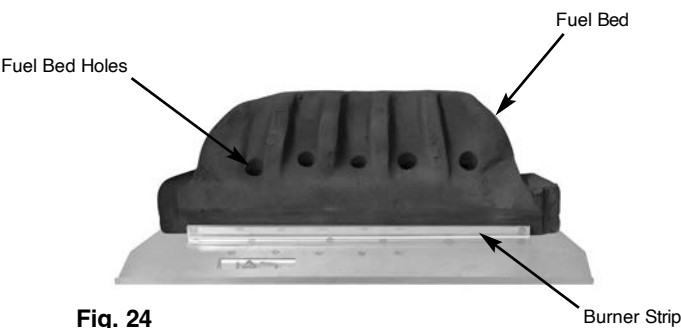


Fig. 24

1. Place the main fuel bed on to the back section of the metal burner tray. It is important that the front edge of the fuel bed is located behind the burner strip, and the holes in the fuel bed line up with the holes in the Burner tray (Fig. 24).



Fig. 25

3. Position the front coal piece on the front coal retainer, making sure that the back edge is pushed up against the front of the burner strip (Fig. 25).

4. Locate the remaining coal pieces in order as shown in Figs. 26 & 27.



Fig. 26



Fig. 27



5. Finally check that all the coal pieces are 'nested' together correctly (Fig. 28) and a close fit is achieved on the middle joint (this will stop gas surge through the gap).

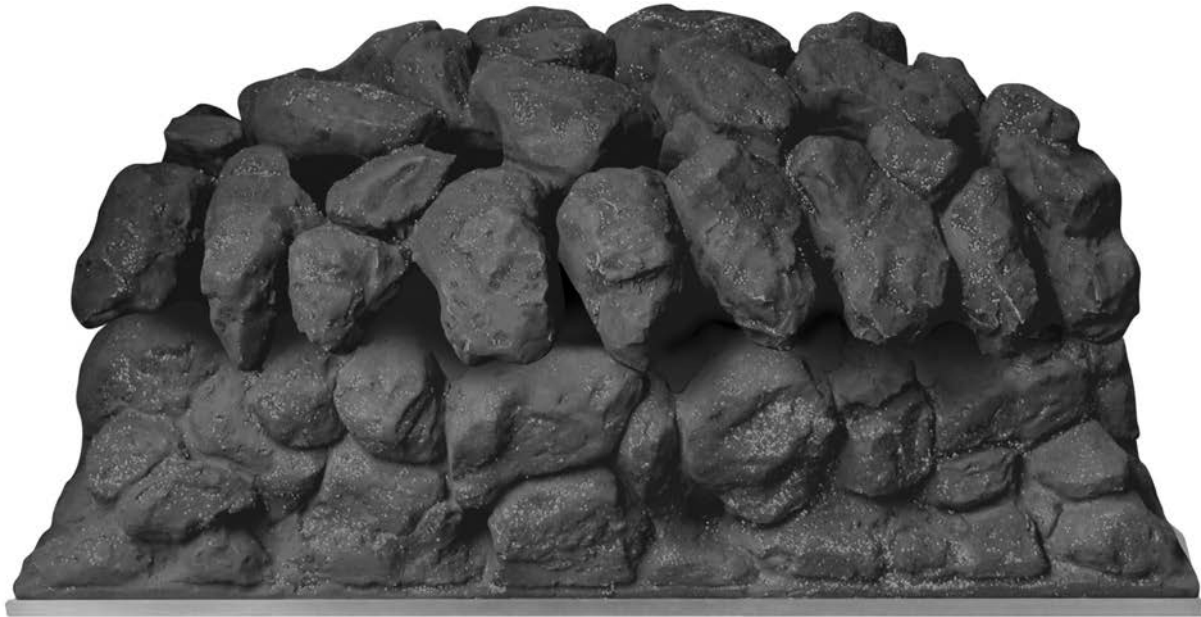


Fig. 28

It is very important that all the coals are used and arranged as shown in order to achieve the desired flame picture.

It may be necessary to remove some or all of the coals to clean them at some time.
Cleaning must only be done using a soft brush.

GUARANTEE



Your appliance is guaranteed for one year from proof of purchase. Should the appliance prove defective within that period we agree to repair or replace (at our discretion) the component or appliance provided that:

1. The user can produce a receipt for proof of purchase/installation.
2. The appliance has been supplied by an authorised stockist and has been installed by a qualified installer, all installation and operating instructions have been strictly adhered to.
3. No alterations have been carried out on the appliance or component parts without our written consent.
4. The appliance has not been used for any purpose other than those intended.
5. The appliance has not been damaged accidentally or due to fair wear and tear.

Guarantee claims should be made through your appliance supplier. The Guarantee is restricted to UK Mainland and is additional to your statutory rights.

TROUBLE SHOOTING (USER)

1. The Fire will not light.

Remove the decorative fret and ash pan door and check the pilot area for soot.
If soot is present remove all the loose coals and the front coal and thoroughly clean any debris in and around the pilot area.
If the fire will still not light contact your installer.

2. The flames appear blue - excessive soot deposits.

The ceramic components including the coal need relaying (pages 19-20).
Too much or too little room ventilation. Seek professional advice.

3. Roaring noise coming from the pilot.

The front coal is not seated correctly. Turn the appliance off and allow to cool down. Re-seat front coal, ensuring it is flat to the base of the front coal retainer (page 19).

4. All the Ceramic Components are discolouring.

The ceramic sets and liners are all manufactured from ceramic fibre. As these fibres are naturally white, dyes are used to give a realistic appearance. These dyes discolour after they have been subjected to intense heat. However the discolouration does not affect the operation of the appliance. The realistic appearance can be restored with the use of a good replacement dye that can be purchased from most good fireplace showrooms.

