



Fire Your Imagination

Riva2 & Studio

Electric Inset Range



Instructions for Use, Installation & Servicing

For use in GB & IE (Great Britain & Republic of Ireland).



IMPORTANT

**THE HEATER OUTLET GRILLE BECOMES VERY HOT WHILST IN OPERATION.
DO NOT COVER THE OUTLET GRILLE OR ANY PART OF THE APPLIANCE.**

For use with 230V 50Hz electricity supply only.

Please read these instructions carefully before installation and keep them in a safe place.

They will be needed when maintenance or servicing is required.

THIS APPLIANCE MUST BE EARTHED

Contents

Covering the following models:

Riva2		Studio Inset		
55R	70R	80R	105R	150R
234-243	234-255	223-414	223-431	223-446

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To receive your Extended Warranty your Gazco appliance must have been purchased from our Expert Retailer Network and registered within one month of purchase or installation. Please note that all warranties are effective from the date of purchase. Any Gazco product purchased outside of our Extended Retailer Network, or not registered within the stated time will carry a standard 12 month warranty.

Full terms and conditions are detailed in the Warranty Statement on the Gazco website www.gazco.com. In the event of any conflict of information the wording on the website shall prevail.

Important Note: Should any problems be experienced with your product, claims must first be submitted to the Expert Retailer where the appliance was purchased from who will offer immediate assistance or contact Gazco on your behalf.



Registration No WEE/DH1656ZW
In accordance with European Directive 2012/19/ EU, waste electrical and electronic equipment (WEEE) must not be disposed of with household waste.

At the end of its useful life please take this product to an appropriate recycling centre or collection point. You can find your nearest recycling centre by using the bank locator at www.recycle-more.co.uk for UK customers, www.weeeireland.ie for customers in the Republic of Ireland, or by contacting your local authority.

User Instructions

1. Important Information and Health and Safety

- 1.1 **Read all of the instructions carefully before using the appliance.**

Instructions are available online at www.Gazco.com.

- 1.2 **Remove all packaging and dispose of at an appropriate recycling facility.**

- 1.3 Do not locate this appliance immediately below a fixed socket outlet.

- 1.4 Do not use this appliance in the immediate surroundings of a bath, shower, swimming pool or any other area where the appliance could come into contact with water or humidity, e.g. a bathroom.

- 1.5  **WARNING! DO NOT COVER**

Do not allow the appliance to be covered or let the air inlet/outlet become obstructed as the appliance may overheat. Please note the warning symbol on the appliance (see above).

- 1.6 **For indoor use only.** This appliance is not suitable for use outside the house.

- 1.7 Keep the power cord away from hot surfaces and hot conditions. Do not route the power lead in front of the appliance.

- 1.8 This appliance must be installed in a purpose built studwork enclosure. Ensure the appliance is level and that furniture, curtains etc. are positioned no closer than 1m.

- 1.9 When the appliance has been installed the position of the plug must be accessible.

- 1.10 Where the electricity supply cable has to pass through a masonry wall, stone surround etc. ensure suitable rubber bushes are fitted at possible wear points.

- 1.11 If the electricity supply cable is damaged do not use the appliance until it has been replaced. For safety reasons the replacement has to be carried out by a Gazco service agent or a similarly competent electrician.

- 1.12 **CAUTION:** In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.

- 1.13 Do not operate the appliance if it is damaged.

- 1.14 Repairs of electrical appliances must only be performed by an electrical engineer. Should the appliance fail to operate, or in case of any damage, please contact the retailer from whom the appliance was purchased.

- 1.15 **CAUTION:** Some parts of this product can become very hot and cause burns. Particular attention must be given where children and vulnerable people are present.

- 1.16 This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children of less than 3 years should be kept away unless continuously supervised.

User Instructions



CHILDREN AGED FROM 3 YEARS AND LESS THAN 8 YEARS SHALL ONLY SWITCH ON/OFF THE APPLIANCE PROVIDED THAT IT HAS BEEN PLACED OR INSTALLED IN ITS INTENDED NORMAL OPERATING POSITION AND THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE IN A SAFE WAY AND UNDERSTAND THE HAZARDS INVOLVED. CHILDREN AGED FROM 3 YEARS AND LESS THAN 8 YEARS SHALL NOT PLUG IN, REGULATE AND CLEAN THE APPLIANCE OR PERFORM MAINTENANCE.

However Gazco recommend:

This appliance is not intended to be used by persons under the age of 12, persons with reduced physical, sensory or mental capabilities or persons with lack of experience and knowledge in the safe operation of the appliance.

The appliance may be operated by persons above the age of 12 provided they have been instructed in the safe use of the appliance and that they understand the hazards involved. Persons above the age of 12 may also operate the appliance under the supervision of a responsible adult.

Parts of this appliance become hot whilst in operation and under no circumstances should persons under the age of 12 be left alone with the product when it is in operation unless a suitable fireguard is used to protect them against the possibility of coming into direct contact with the appliance.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

2. Operating the Appliance

2.1 The appliance can be operated by the radio frequency handset only.

The following functions can be controlled using the remote handset:

- On/Off - Flame effect
- Heat settings
- Brightness of the fuel and flame effect

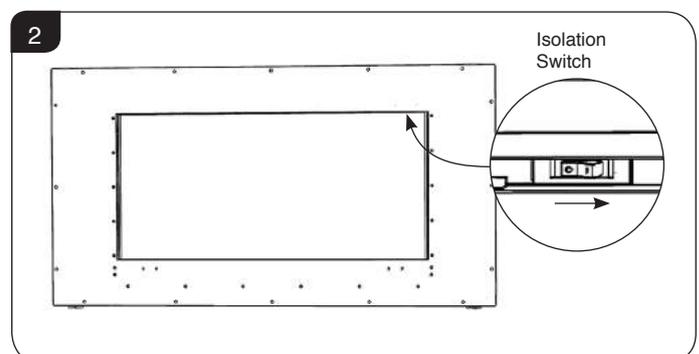
2.2 The flame effect can be turned off using the remote, returning the appliance to Standby.



When carrying out any operations using the remote handset it is likely that it will go into Sleep Mode. Press the power button to reactivate.

Standby On/Off

2.3 The appliance is in Standby mode when the power is switched on via the isolation switch. The power supply must be switched ON (—) before using the remote control.



User Instructions

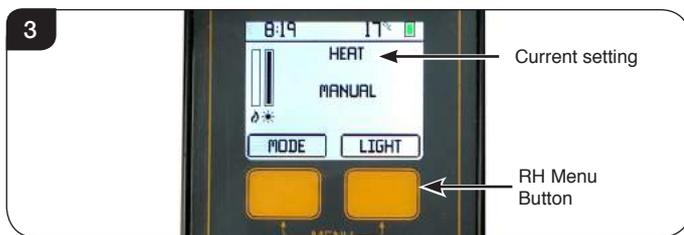
Turning On the Appliance

- 2.4 Turn the appliance on and off by using the remote handset. Press the Power Button to Exit Sleep mode. Once out of Sleep Mode press the Power Button again to turn on.

Flame Settings

When turned on the appliance automatically defaults to the last setting selected.

- 2.5 **To adjust Light Level:**
Ensure 'Light' setting is selected, See Diagram 2.

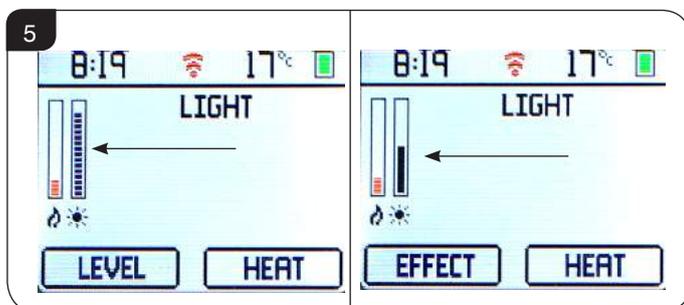


Rotate finger on touch dial:
Rotate clockwise to increase.
Rotate anti clockwise to decrease.



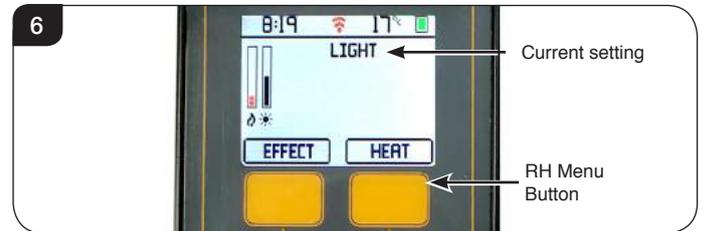
- 2.6 **To adjust Flame Effect:**
Select 'Effect' setting.
The LH Menu button will switch the effect on.
Rotating the dial or pressing the menu buttons will exit the Effect Mode.

The Effect mode is indicated by a dashed bar, the Light Level is indicated by a solid bar.

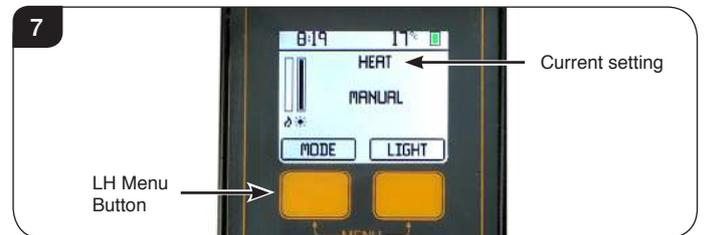


Heat Settings

- 2.7 Press the RH Menu button to select the heat.



Press the LH Menu button to switch between the 3 modes:
Mode 1 Manual
Mode 2 Thermostatic
Mode 3 7 Day Timer



Manual Mode (manual displayed on screen)

The heat setting is indicated by a red bar.
Adjust heat by rotating finger on the touch dial. Clockwise increases the temperature and anti clockwise decreases the temperature until heat is turned off.



Thermostatic Mode

When set in thermostatic mode just a temperature is displayed on screen. Rotate touch dial clockwise to increase temperature setting and anti-clockwise to decrease temperature setting. The heater will automatically maintain the set temperature.

7 Day Timer

In 7 day timer mode the current temperature and the next time and temperature is displayed, see Menu Settings..

User Instructions

Menu Settings

- 2.8 Press both Menu buttons until a menu appears at top of screen. 4 screen options will appear.



To select options rotate dial until highlighted in RED and press select.

Set Clock

- 2.9 To set the clock:
Select Clock in the option menu and rotate touch dial until desired time is displayed.



By pressing select it changes from hours, Minutes and Days.
When correct time has been set press the RH Menu button to save.

Device

Used to disconnect the remote from the fire, see separate instructions.

Advanced

Used to turn on or off the Dimmer, 7 Day Timer, and Adaptive Heat functions.

7 Day Timer

Used to set the 7 Day Timer.

- 2.10 To set the 7 Day Timer:
Rotate the touch dial and press the LH Menu button to select the desired day (highlighted in red).

Use the touch dial to alter the selected heating period (available in 10 minute increments).

Press the LH Menu button again to set the time and use the touch dial to alter the selected temperature. Press the LH Menu button to set the temperature.

Repeat for remaining heating periods.

- 2.11 Once completed, press the LH Menu Button to confirm heating periods for that day. The day will be highlighted in red.

Use the touch dial to select the next day you wish change.

Press the LH Menu button to apply a new set of heating periods.

Press the RH Menu button to copy the same settings entered for the previous day.

NOTE: Pressing the RH Menu button will automatically advance the 7 Day Timer menu 1 day.

- 2.12 Once settings for all 7 days have been entered, rotate the touch dial to move passed Sunday until the prompt to save and exit appears.

Use the LH Menu button to select save and exit.



NOTE: To return and alter your selected settings ignore the prompt and continue rotating the touch dial.

Other Functions

Dimmer

- 2.13 This function dims the screen of the handset.

To dim or lighten the screen press both Menu buttons until the menu option appears. Press hold the power button **at any time whilst in the menu.**

To enable or disable the dimmer function enter the menu function and select the Dimmer option and press Set.



Adaptive Heat

- 2.14 If switched on the appliance saves power by predetermining the optimum time to switch on the heat and the level of heating required to reach a pre set temperature at a chosen time.

This function only works within the 7 Day Timer mode.

- 2.15 The remote control works by radio signal. The handheld transmitter is configured in the factory with a unique signal code.

User Instructions

IMPORTANT: If your handset loses signal or needs to be replaced then the frequency will need to be reprogrammed.

Thermal Safety Cut Out

The appliance is fitted with a thermal safety cutout, which operates if it overheats. If this happens:

- 2.16 Unplug the appliance and allow it to cool for up to 2 hours.
- 2.17 Check the outlets for any obstruction and clear if necessary (see Maintenance, Section 3.7).
- 2.18 Plug in appliance and switch it on. The cutout will re-set and the appliance should function correctly. If this is not the case:
- 2.19 Unplug once more and have the fire checked by a competent electrician.

Pairing the remote to the Appliance

To pair a handset (existing or new) to the appliance the current pairing program must be deleted.

To delete the Handset:

- 2.20 Access menu by holding both menu buttons. Scroll to device menu and press select.
- 2.21 This gives details of the appliance and also gives the option to delete the appliance from the remote handset.

Press and hold the delete option until the bar is filled to remove the handset.

Pairing remote to appliance

- 2.22 Ensure appliance is switched off using switch top right of glass panel.
- 2.23 Touch power button on the remote to bring up the pairing options.
- 2.24 Touch Pair on remote.
- 2.25 Switch on appliance using switch top right of glass panel. The remote screen will show STANDBY when successfully pair.

3. Maintenance

IT IS VERY IMPORTANT THAT THE AIR INLET GRILLES ON THE UNDERSIDE OF THE APPLIANCE ARE UNOBSTRUCTED AND ADEQUATE SPACE IS LEFT TO ALLOW FREE CIRCULATION OF AIR AROUND THIS AREA.

- 3.1 **ALWAYS UNPLUG FROM MAINS SUPPLY BEFORE CLEANING OR UNDERTAKING ANY MAINTENANCE**

GENERAL CLEANING

- 3.2 Only clean the glass panel when it is cold. Do not use abrasive cleaners.

- 3.3 Use a proprietary non abrasive glass cleaner and buff to a clear finish with a lint free duster.

Caution: Do not use abrasive cleaners on the glass panel. Do not spray liquids directly onto any surface of the unit.

CLEANING THE FUEL EFFECT

To access the fuel effect it will be necessary to remove the glass viewing panel, see Servicing Section.

- 3.4 Ensure the appliance is unplugged.
- 3.5 Remove and wash the fuel effect to remove any dust particles. Alternatively clean with a lint free duster. **Ensure that the effect is dry before replacing.**

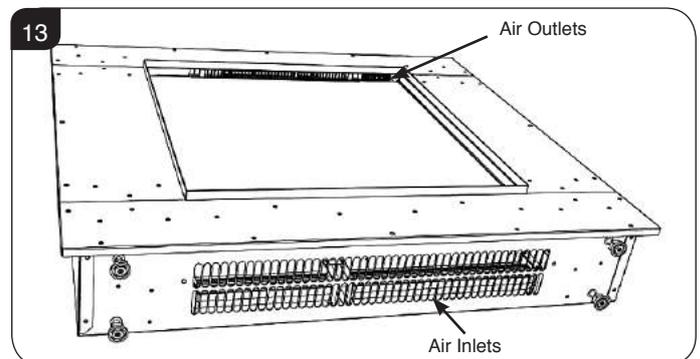


Note: It is advisable to replace the lower magnetic trim when removing and replacing the glass effect to prevent it from falling into the appliance casing.

- 3.6 Replace the glass following the instructions in reverse order.

CLEANING AIR OUTLETS

- 3.7 Ensure the appliance is unplugged.
- 3.8 Clean the air outlet grilles regularly with a soft cloth or the nozzle of a vacuum cleaner, see Diagram 13.



Dust build-up can inhibit efficient performance of the fan and lead to the safety cut-out operating.

- 3.9 Keep the area around the appliance clean and free of fluff, dust or pet hair.
- 3.10 In particular, build-up of dust etc. can occur around the heater area. Take particular care to keep this area free from such particles on a regular basis to prevent build-up.

BATTERY REPLACEMENT

- 3.11 When the remote batteries is low it must be changed immediately. Install correct replacements and dispose of the old batteries carefully.

Installation Instructions

Technical Specification

Covering the following models:

Riva2		Studio Inset		
55R	70R	80R	105R	150R
234-243	234-255	223-414	223-431	223-446

Model		Riva2 Electric		Studio Electric Inset		
		55R	70R	80R	105R	150R
Weight - kg (without surround or packaging)		34.4	43.4	34.9	42.9	54.2
Voltage		230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz
Battery Hand Transmitter		12 V MN 21/23	12 V MN 21/23	12 V MN 21/23	12 V MN 21/23	12 V MN 21/23
Electricity Consumption	Decorative Position	13 Watt	15 Watt	25 Watt	35 Watt	50 Watt
	Heating element	1000 Watt	2000 Watt	2000 Watt	2000 Watt	2000 Watt
Supply Cord		BS1363 UK13A	BS1363 UK13A	BS1363 UK13A	BS1363 UK13A	BS1363 UK13A

THIS APPLIANCE MUST BE EARTHED

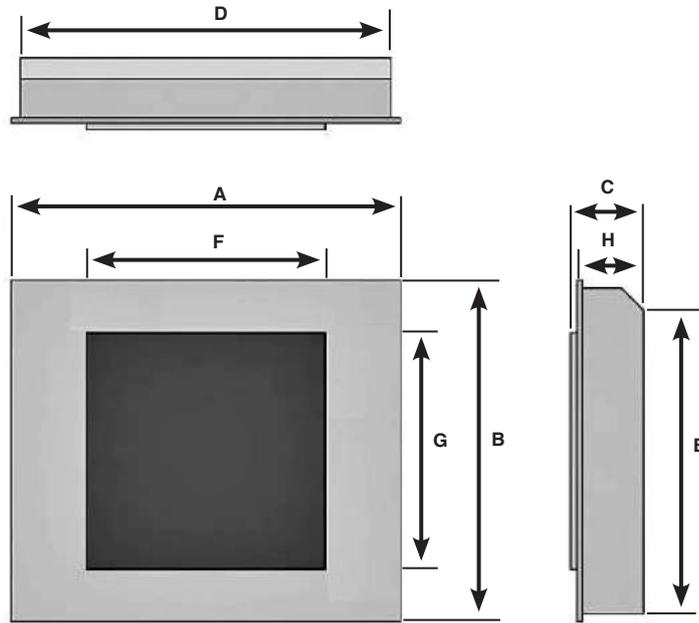
This appliance has been certified for use in countries other than those stated. To install this appliance in these countries, it is essential to obtain the translated instructions and in some cases the appliance will require modification. Contact Gazco for further information.

Appliance Description	Fixing Kit containing:-
Riva2 Electric 2 55R	1 x Instruction Manual
Riva2 Electric 2 70R	4 x Screws
Studio Electric Inset 80R	4 x Rawl plugs
Studio Electric Inset 105R	1 x Handset
Studio Electric Inset 150R	2 x Retention screws
	4 x AAA Batteries

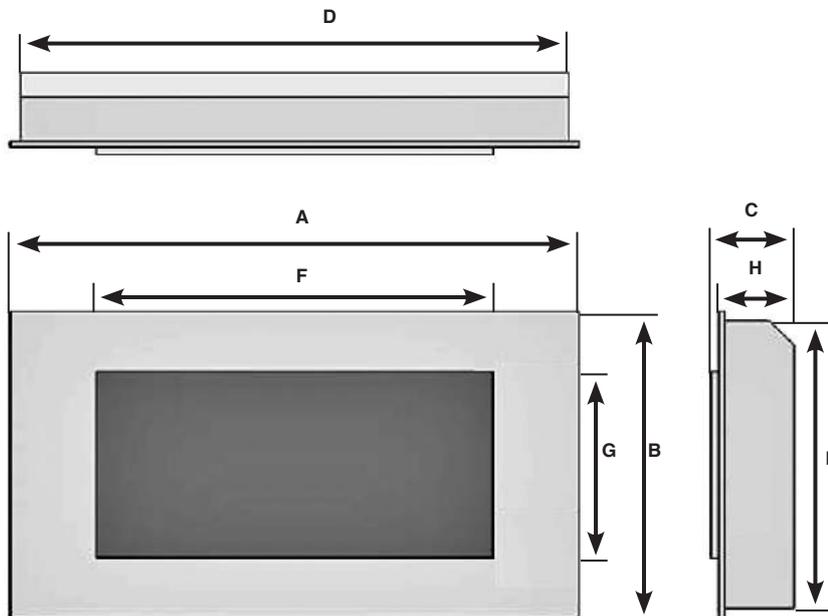
Installation Instructions

Technical Specification

RIVA 2 ELECTRIC



STUDIO ELECTRIC INSET



Model	A	B	C	D	E	F	G	H
Riva2 Electric 55R	895	792	236	852	755	550	550	221
Riva2 Electric 70R	1045	902	236	1002	865	700	650	221
Studio Electric Inset 80R	1145	622	206	1102	585	800	380	191
Studio Electric Inset 105R	1460	622	206	1417	585	1050	380	191
Studio Electric Inset 150R	1877	622	206	1834	585	1500	380	191

Installation Instructions

1. General



IT IS VERY IMPORTANT THAT THE AIR INLET GRILLES ON THE UNDERSIDE OF THE APPLIANCE ARE UNOBSTRUCTED AND ADEQUATE SPACE IS LEFT TO ALLOW FREE CIRCULATION OF AIR AROUND THIS AREA.

1.1 TOOLS REQUIRED

A Screw Driver, Spirit Level and Drill will be needed.

1.2 UNPACKING THE FIREPLACE

WARNING! DO NOT use this appliance if any part has been exposed to water.

Immediately call a qualified service technician to inspect and to replace any part of the electrical system if necessary.

1.3 Carefully unpack the appliance.

Take care not to damage the surface of the appliance or the installation area.

Keep plastic wrapping away from children.

Be responsible when handling the packing materials.

1.4 Check all parts and accessories are removed before disposing of any packaging.

If necessary keep the original packaging for future transport and/or storage.

2. Fitting the Appliance

Take care when lifting the appliance, obtain assistance if required and always follow safe manual handling techniques.

There are two methods of installation:

- 1) **Riva2 Electric 55R & 70R** - installation into a mantel piece or surround.
- 2) **All Models** - installation using 'Hidden Door' concept.

When in doubt consult your retailer or suitably qualified person.

2.1 Locating The Appliance

Your new appliance may be installed virtually anywhere in your home. However, when choosing a location ensure that the general instructions are followed.

The positioning of the heater should ideally be fitted into/onto a flat wall of block/brick construction or an internal wooden frame plaster board wall. The fixings provided are for use on brick walls ONLY. Please ensure that suitable fixings are used when securing to any hollow or cavity walls.

2.2 Always ensure the appliance is adequately supported and sits on a firm structure when mounting above floor level.

2.3 Ensure that curtains and furniture are not positioned close to the chosen position, as this would create a potential fire hazard or block the heater outlet ducts.

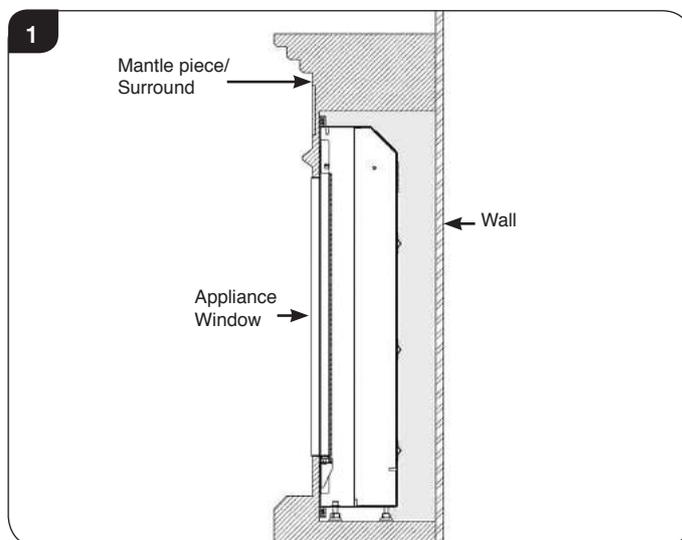
2.4 For best results, install out of direct sunlight.

2.5 If the power cord is damaged, it must be repaired by the manufacturer, its authorized service centre or professional person.

2.6 The appliance should ideally be located close to a suitable mains socket to enable connection. An extension could be run from an existing socket outlet but this must be carried out by a suitably qualified electrical engineer. The electrical socket must be easily accessible to allow disconnection when the appliance is fitted.

WARNING! KEEP ANY FURNISHINGS OR COMBUSTIBLE MATERIALS AT LEAST 1M FROM THE FRONT OF THE ELECTRIC FIREPLACE.

Installation into a Mantel piece/Surround

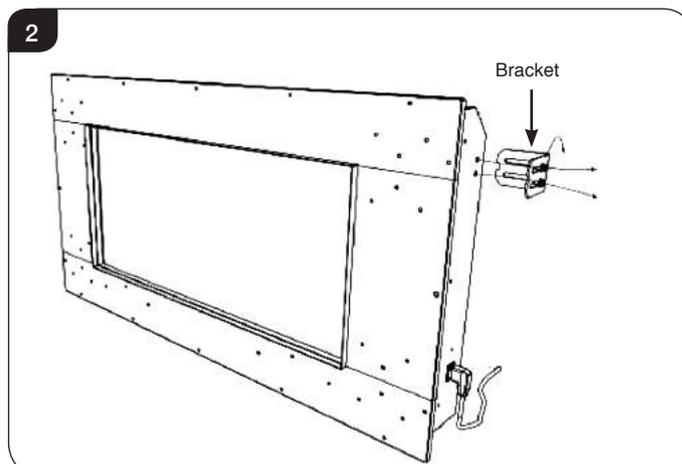


2.7 Do not insulate the appliance. For the heater to function it requires air to circulate.

2.8 Ventilate the mantel piece/surround by allowing vents above and below.

2.9 The positioning of the appliance should ideally be on a flat surface or floor, or situated within a cavity secured using the brackets provided.

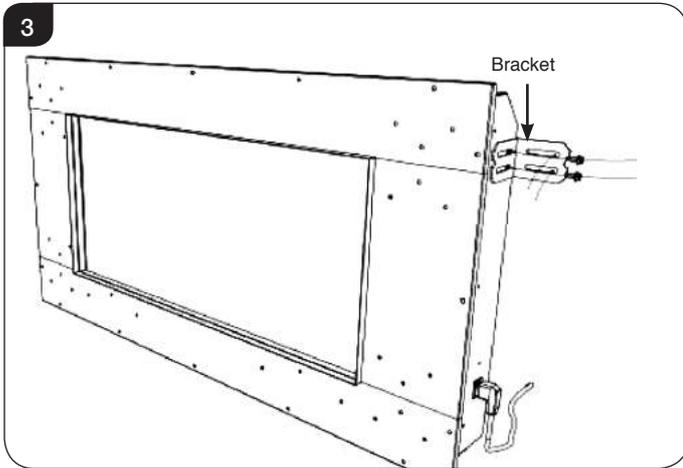
2.10 Remove retaining screws and brackets (L/R), see Diagram 2.



Installation Instructions

- 2.11 Re-attach the brackets (L/R) in reverse position and secure using the fixings provided, see Diagram 3.

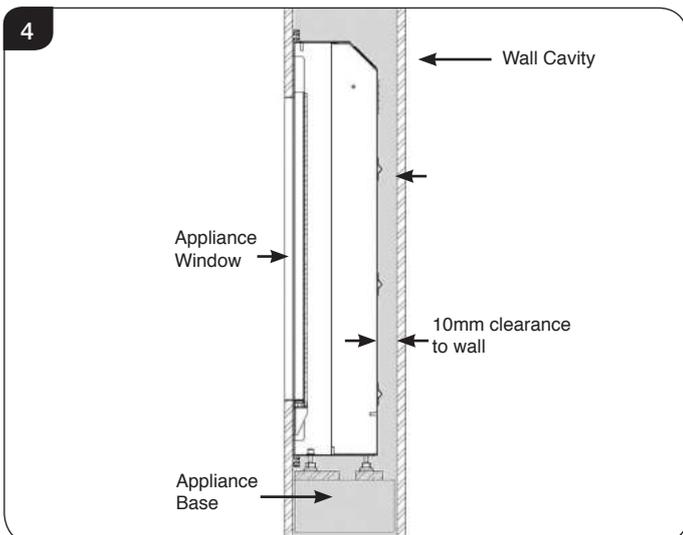
The fixings provided are for use on brick walls ONLY. Please ensure that suitable fixings are used when securing to any hollow or cavity walls.



- 2.12 Place any decorative infill panel into place ensuring the cutout fits neatly around the 'Edge' frame leaving the edge returns visible. Place the rebated mantel into place and secure to the wall in accordance with the manufacturers instructions.

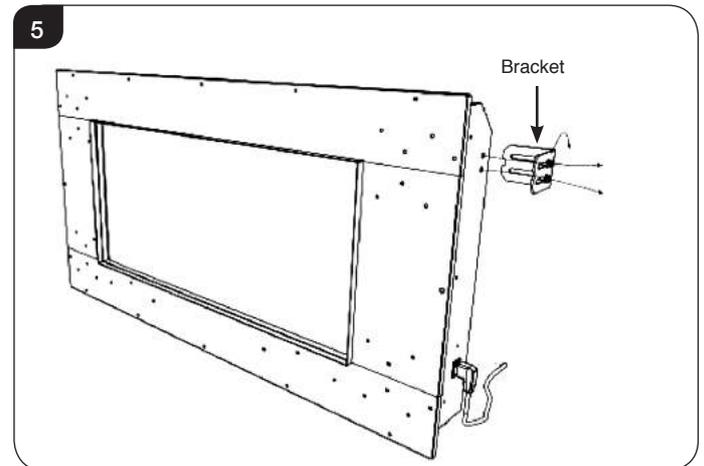
- 2.13 Ensure that curtains, furnishings and combustible materials are not positioned closer than 1 metre to the appliance as this could create a potential fire hazard.

Installation using the 'Hidden Door' method

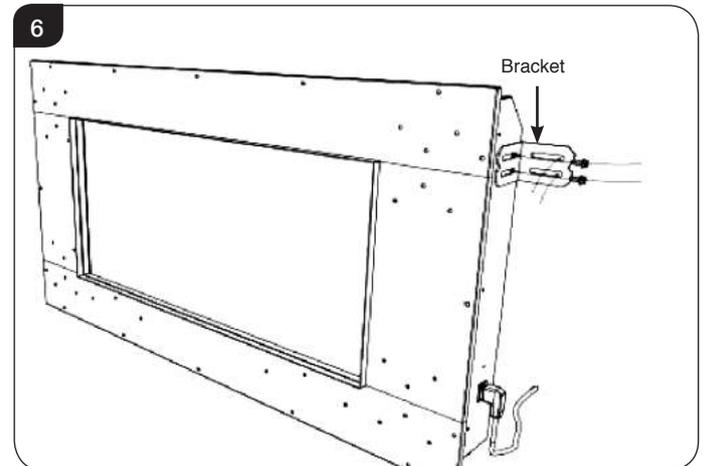


- 2.14 Do not insulate the appliance. For the heater to function it requires air to circulate.
- 2.15 Ventilate the cavity by allowing vents above and below to allow air to circulate.
- 2.16 The positioning of the appliance should ideally be on a flat surface or floor, or situated within a cavity secured using the brackets provided. The fixings supplied are for brick walls only.

- 2.17 Remove retaining screws and brackets (L/R), see Diagram 5.



- 2.18 Re-attach the brackets (L/R) in reverse position and secure using the fixings provided, see Diagram 6.



- 2.19 Construct a studwork enclosure around the appliance to the desired width and height. Finish the enclosure in the chosen material ensuring the panels are pushed up to the 'Edge' frame leaving the edge returns visible. Finish the wall as desired.

- 2.20 Ensure that curtains, furnishings and combustible materials are not positioned closer than 1 metre to the appliance as this could create a potential fire hazard.

- 2.21 Remove the glass window, see Servicing Section 6 and spread the glass fuel effect on the fuel bed.

i Note: It is advisable to replace the lower magnetic trim when removing and replacing the glass effect to prevent it from falling into the appliance casing.

- 2.22 Replace the glass window and the trims.

3. Connecting to the Mains Supply

- 3.1 Check whether the mains circuit can accommodate the additional load of 1000 or 2000 Watt.
- 3.2 Connect the appliance to an earthed socket.
- 3.3 Do not clamp the electrical lead.

Servicing Instructions

1. General Requirements

THIS APPLIANCE MUST ONLY BE SERVICED BY A SUITABLY QUALIFIED PERSON.

BEFORE UNDERTAKING ANY WORK ON THE APPLIANCE: SWITCH OFF THE APPLIANCE AND ISOLATE IT FROM THE MAINS BY UNPLUGGING THE UNIT.

- 1.1 Wait for at least 10 minutes until the appliance has cooled down.

1.2 Remote Handset Battery Replacement

The remote control handset, uses 4 x AAA batteries for power operation, these will need replacing over a period of time.

For replacement:

- Open the battery compartment cover on the rear of the handset.
- Remove the old batteries and replace observing the correct polarity (+ & -) as marked upon the batteries and handset remote control.
- Replace the handset cover.

1.3 Maintenance of Motors

The motors used on the fan and flame effect are pre-lubricated for extended bearing life and require no further lubrication. However, periodic cleaning/vacuuming of the fan/heater unit is recommended.

1.4 Resetting the Thermal Cutout Switch

The appliance is fitted with an Electronic Safety Control (E.S.). This is a safety device which switches off the heat only if, the appliance overheats for any reason e.g. when covered.

If the heater stops operating whilst the flame effect continues normally, this indicates that the E.S. Control is in operation.

The E.S. Control can only be re-set after the appliance has cooled down.

To re-set the E.S.:

Switch off the appliance (Isolation switch) and leave for up to 2 hours.

Remove any obstruction to the fan heater outlet or other internal parts.

Switch on appliance and the E.S. Control will re-set. Ensure that the appliance is functioning correctly. If the E.S. Control operates again, the appliance should be checked by a competent Electrician.

- 1.5 If the power supply is interrupted (power failure) or the appliance is turned off at the isolation switch whilst the heater is on, it will be necessary to disconnect the appliance from the mains supply and leave for 5 minutes in order to discharge the electronics before attempting to turn the appliance on.

2. Fault Finding

Operate appliance before commissioning

- 2.1 Click on the Remote Handset power button. If the appliance does not function, then, follow points 1, 2, 3, 4 and 5 respectively.

1. Check the power connection to the mains switch on the wall is in the ON position.

2. Check the Isolation switch on the appliance (see sticker on the appliance). The switch must be set to the "I" position

3. Check the batteries in your handset. Check if the batteries are in the correct position and refit if necessary.

4. If after checking 1, 2, 3 still nothing happens, then it may be necessary to repair the handset to the appliance, see Servicing Section.

5. If after checking 1, 2, 3 & 4 nothing still has happened, then disconnect the power from the mains (unplug from socket), and wait for 60 seconds, then plug it back in and repeat steps 1 to 4. If you do not have access to the mains switch, because it is built-in, then disconnect from the fuse board.

6. On cold days or if the appliance is fitted in a conservatory, the flame effect may move slowly (or appear to stick slightly), when you first start it. Turn on the heating by clicking on the bottom button for few minutes. This will generate a stronger pull and will warm up the glass.

7. The heating does not turn-on when you select heating mode but the flame effect is running.

a). Check the batteries in your hand set. The red LED must be showing brightly.

b). Try selecting heating mode again, but closer to the appliance.

c). Turn off appliance, then turn it on again. Wait for 10 seconds, then select heating mode again.

d). If after checking a, b & c the heating still does not turn on then follow point number 5.

Servicing Instructions

3. How to wire a plug

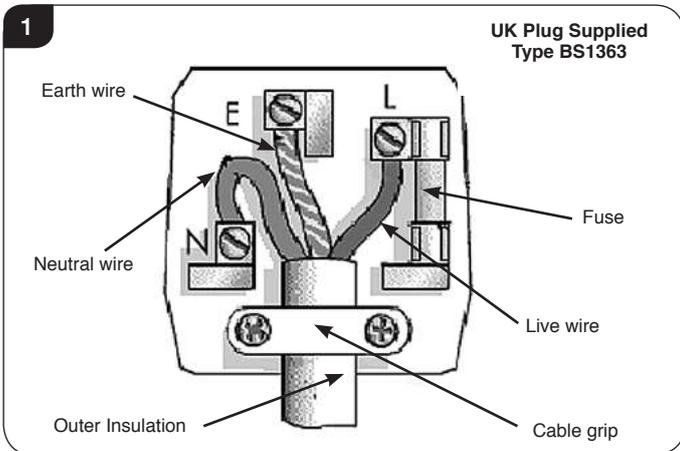
To change the plug supplied with this appliance, follow the instructions below. The instructions assume that the wire has been cut.



WARNING – FAILURE TO CONNECT THE WIRES CORRECTLY COULD PUT PEOPLE AT RISK FROM ELECTRIC SHOCK OR FIRE. IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.

UK Plug

Suitable for use in Cyprus, Malta, Ireland & Great Britain.

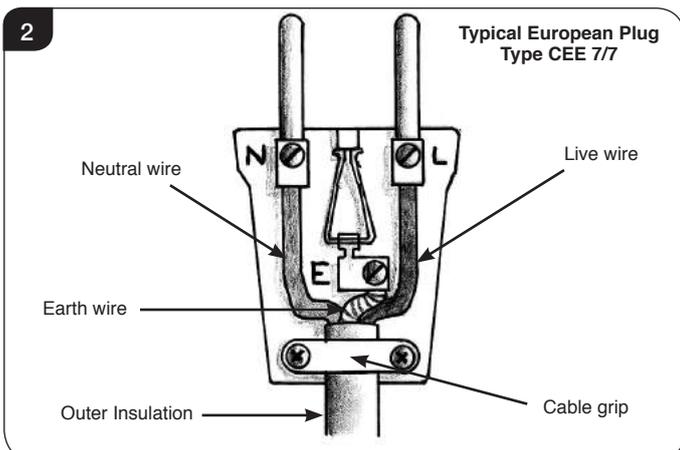


Live Wire	Brown	Terminal L / RED
Neutral Wire	Blue	Terminal N / BLACK
Earth Wire	Green & Yellow Stripes	Terminal E /  / GREEN or GREEN & YELLOW

THIS APPLIANCE MUST BE EARTHED

European Plug

Suitable for use in Austria, Belgium, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Germany, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain & Sweden.



- 3.1 Dispose of the old plug safely. Ensure the new plug has the relevant approval marking and is not cracked or chipped.
- 3.2 Expose 4cm of the coloured wires and trim to the correct lengths so that they comfortably reach the correct terminals.
- 3.3 Ensure that the Earth wire has more slack than any of the other wires.
- 3.4 Remove some of the insulation to leave about 6mm (screw terminals) to 12mm (winding around screw) of exposed metal core on each wire, taking care not to damage or remove the metal strands.
- 3.5 Twist the strands of the wire together.
- 3.6 Loosen the screw heads above each terminal.
- 3.7 Push the metal wire into the hole beneath each screw head or, dependent on plug design, wind the metal wire around the screw.
- 3.8 Ensure that the insulation reaches right up to each terminal as illustrated and there are no loose strands of wire.
- 3.9 Ensure the cable sits correctly under the cable grip and tighten to secure, taking care that the connecting wires inside the plug are not strained.
- 3.10 Refer to *Technical Specification* for fuse rating and fit the appropriate fuse into the plug (UK Only).
- 3.11 Attach the plug cover.

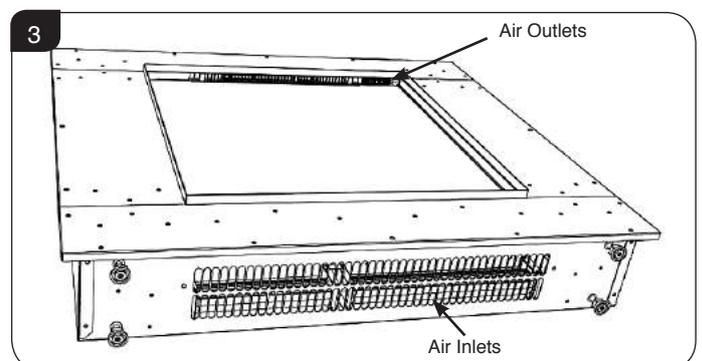
4. Servicing Requirements

4.1 CLEANING AIR OUTLETS

It is essential to regularly clean the air outlets and any accessible inlets to aid the performance of the appliance.

Ensure the appliance is unplugged.

Clean the air outlet grilles regularly with a soft cloth or the nozzle of a vacuum cleaner, see Diagram 3.



Dust build-up can inhibit efficient performance of the fan and lead to the safety cut-out operating.

Servicing Instructions

4.2 To service the appliance please follow the steps as detailed:

- 4.2.1 Turn on the Flame Effect. If appliance does not work, then follow the Troubleshooting guide.
- 4.2.2 If it works then operate heat setting at various levels.
- 4.2.3 Turn on the Effect Mode for the flames, make sure the flame effect goes from MAX brightness to a minimum and then start cycling up and down.
- 4.3 If steps 4.2.2 & 4.2.3 are OK, then use your handset to turn off the heat, turn off effect mode and turn off the fire. Turn off the switch on the fire. The Isolation switch on the appliance must be set to the "0" position.
- 4.4 Turn off power connection mains switch on the wall to OFF position. If you do not have an access to the MAIN'S ON/OFF switch, because it is built-in, then disconnect from MAIN'S fuse board.
- 4.5 Once these steps have been followed:
 - 4.5.1 Change the Batteries in the hand set.
 - 4.5.2 Remove the glass trims attached with magnets. Gently remove the glass from the fire, See Section 6.
 - 4.5.3 Gently remove the effects screen and outer screen from the fire.
 - 4.5.4 Remove ONLY the Centre clip with the silk hanger (Note its original position first)
 - 4.5.5 Wipe and clean the back of the fire, with screen cleaner and cloth and wait about 2 minutes to dry.
 - 4.5.6 Spray anti static on the back of the fire behind the screen and on the silk. Attach the silk and clip back into its original position.
 - 4.5.7 Clean the effects screen and outer screen with screen cleaner and cloth.
 - 4.5.8 Clean the glass with glass cleaner and cloth.
 - 4.5.9 Connect / restore mains electricity and ON/OFF switch back to 1 position. Run the fire while the screen and glass unattached following steps 1, 2 and 3, for 5 minutes.
 - 4.5.10 Turn off the fire from your Handset.
 - 4.5.11 Attach screen and then attach the glass.
 - 4.5.12 Fit the magnetic trims.
 - 4.5.13 Run the fire while the screen and glass in place following steps 4.2.1, 4.2.2 and 4.2.3, for 3 minutes.

5. Cleaning

- 5.1 Do not use water, detergents, abrasive cleaning powders or polish of any kind on the body of the appliance. Lightly dust using a dry duster or a medium soft brush.

To clean the glass use glass or window cleaner.

6. Removing the Glass



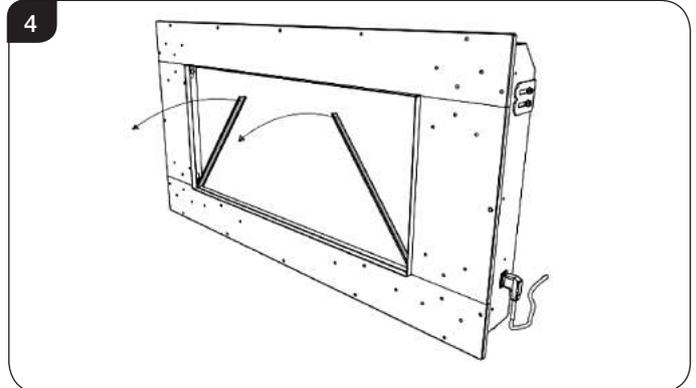
WARNING: REMOVING THE GLASS SHOULD ONLY BE UNDERTAKEN WHEN ABSOLUTELY NECESSARY. IF REQUIRED PLEASE CONTACT YOUR DEALER FOR FURTHER SUPPORT.

CAUTION: BROKEN GLASS CAN CAUSE SERIOUS INJURY. TAKE EXTRA CARE WHEN HANDLING THE APPLIANCE WINDOW

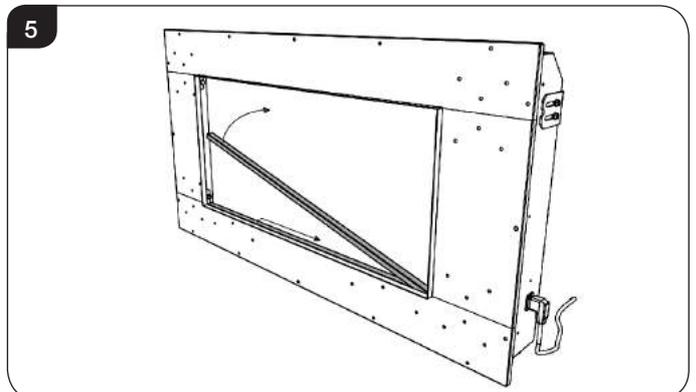
- 6.1 **DO NOT OPERATE THE APPLIANCE WITHOUT THE GLASS WINDOW INSTALLED.**

- 6.2 **Removing the Hidden Door brackets:**

Lean side brackets inwards from magnets and lift away from the appliance, see Diagram 4.



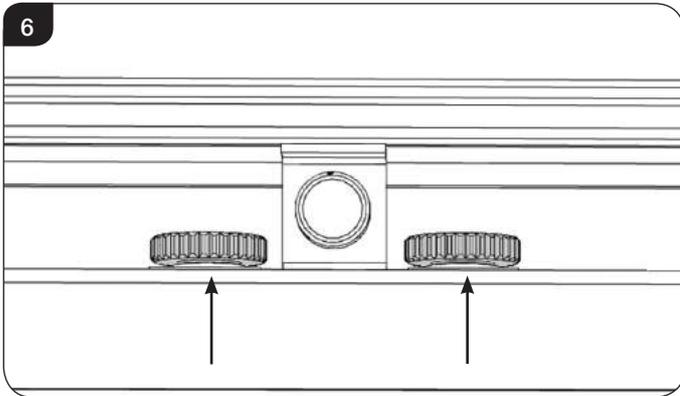
- 6.3 Slide bottom bracket across and lift end upwards. Lift bracket away from the appliance, see Diagram 5.



Servicing Instructions

6.4 **WARNING: Although the glass panel has been treated with safety edges please take care when handling the glass. Avoid contact with corners and if necessary wear protective gloves. Two people may be required to remove the glass.**

6.5 Loosen the finger screws on the Trim Magnets at the front of the appliance viewing aperture, see Diagram 6.

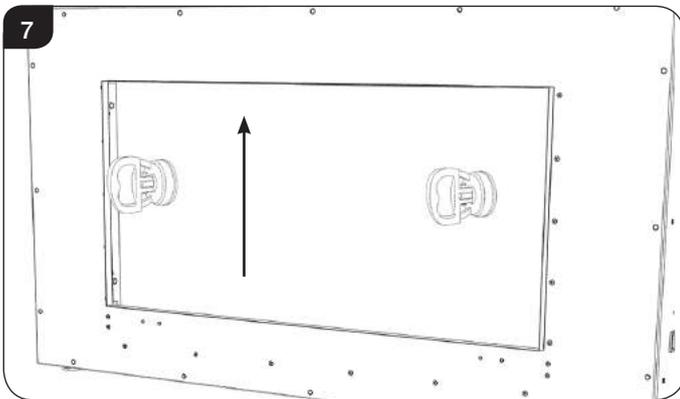


6.6 Lift off the Trim Magnet from the loosened finger screws and place carefully to one side.

6.7 To grip the glass lower the central handle of the suction pad to loosen its hold.

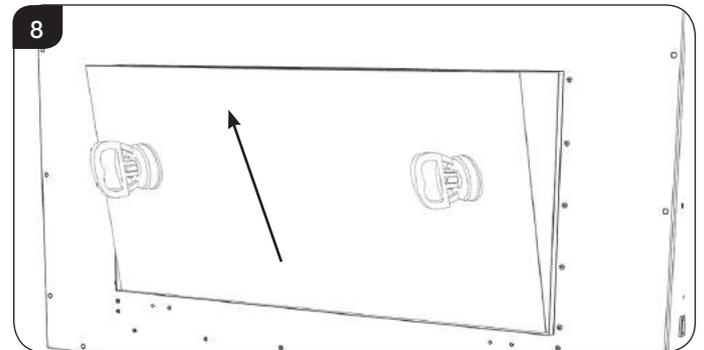
Place in position on the glass and move the central handle back to the upright position. The pad should grip the glass.

6.8 Lift the gripped glass upwards, raising it out from its seated position into the roof of the appliance, see Diagram 7.



6.9 Once lifted, manoeuvre the bottom of the glass forward and carefully lower into the magnet trim channel.

6.10 The glass can now be lifted out of the appliance by gripping tipping forward and sliding up through the window, see Diagram 8.



6.11 Clean glass panel and re-install following the instructions in reverse.

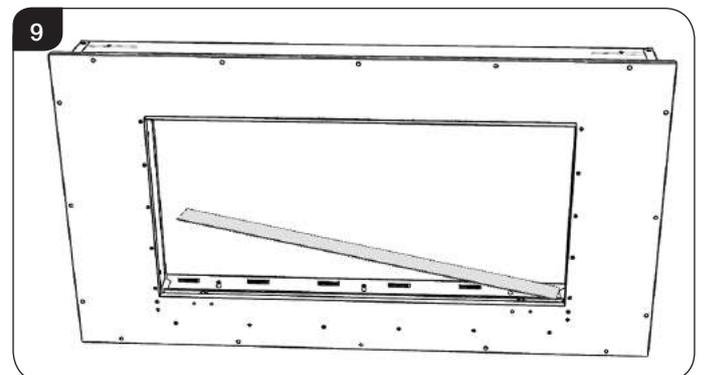
7. Replacing Fuel Bed LEDs

To access the fuel bed it will be necessary to remove the glass as detailed in Section 6.

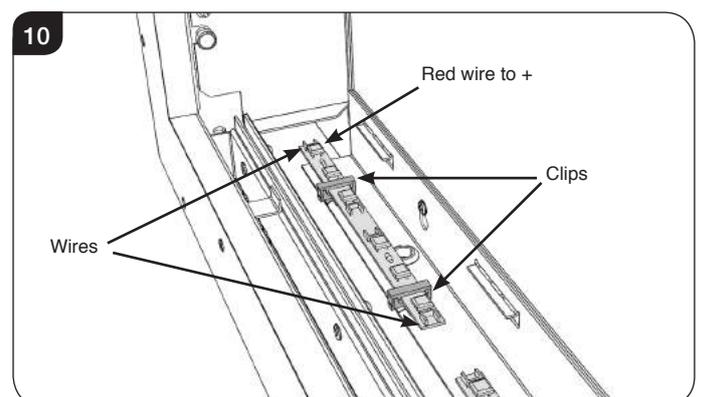
7.1 Remove the fuel effect carefully from the appliance and place to one side.

i Note: It is advisable to replace the lower magnetic trim when removing and replacing the glass effect to prevent it from falling into the appliance casing.

7.2 Hook a finger under the edge of the fuel bed and gently lift from the support ledges, see Diagram 9.



It is now possible to access the fuel bed LED boards, see Diagram 10.



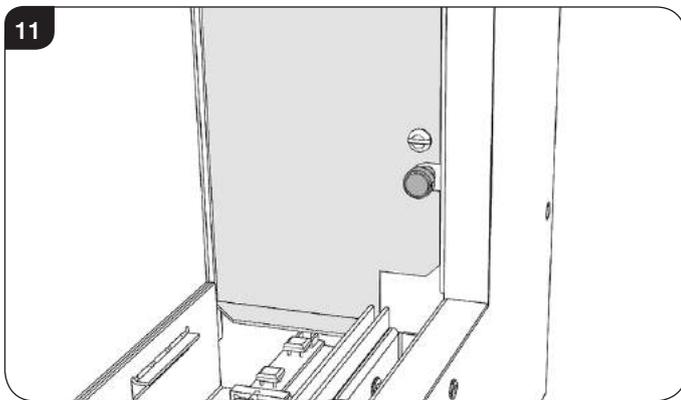
Servicing Instructions

- 7.3 The individual boards can be replaced by disconnecting the wires at each end of the board and opening the retaining clips, see Diagram 9.

NOTE: When replacing the LED board ensure the positive symbol on the board is in the correct orientation, see Diagram 9.

8. Replacing the Flame Effect LEDs

- 8.1 Remove the side pieces from behind the Trim Magnets on the sides of the appliance.
NOTE: When replacing the side pieces these are Left and Right Handed to fit around the magnets. Ensure the Fuel bed support brackets are facing inwards towards the viewing aperture, see Diagram 11.



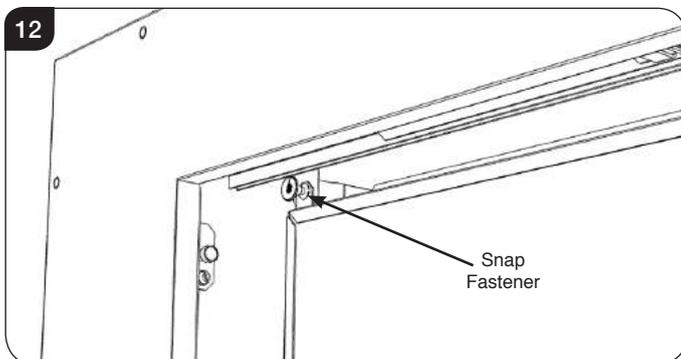
This will now give easy access to all the cables and the flame effect LEDs.

9. Removal of the Inner Screen

To access the flame effect curtain, the PCB and the Heater Assembly it is necessary to remove the Inner Screen.

80R ONLY: Remove the Fuel Bed LED Bracket.

- 9.1 Remove the inner screen assembly by pulling the LH & RH upper snap fasteners towards you, see Diagram 12.



- 9.2 Pull the screen forward to clear the securing brackets and lift screen to disengage from the lower retention channel. Lower the screen into the gap at the front of the appliance.

The screen can now be removed from the appliance by sliding it to one side, then tilting forward and sliding it out, leading with the top corner exiting the appliance first.

TAKE CARE NOT TO SCRATCH THE SCREEN.

10. Removing the Powerbar Assemblies

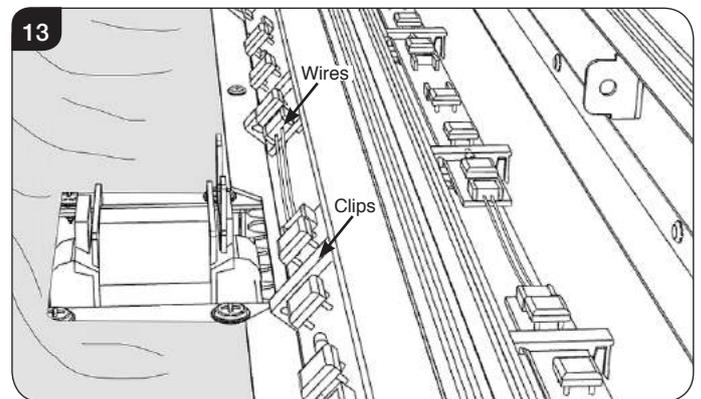
The Effect fans, Fuel bed LEDs, Flame Effect LEDs and Effect fans are all attached to assemblies that can be removed to replace the individual components. It will be necessary to remove the Effect curtain at the same time to do this.

Removing the Flame Effect LEDs

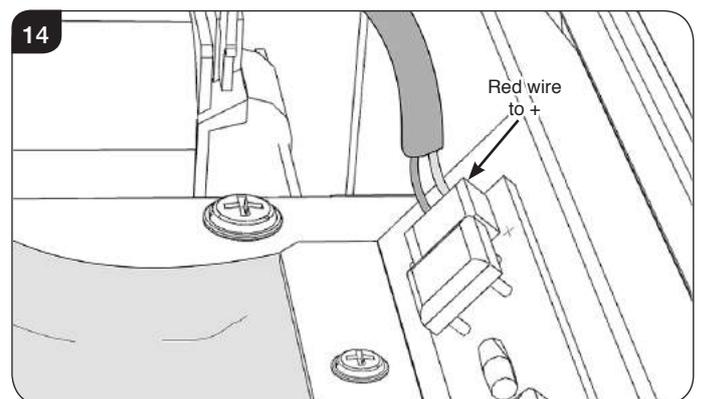
The Flame Effect LEDs are serviceable individually and can be removed as a unit if access to the Flame Curtain or the fan units are required.

Individual LED Boards

- 10.1 The individual boards can be replaced by disconnecting the wires at each end of the board and opening the retaining clips, see Diagram 13.



NOTE: When replacing the LED board ensure the positive symbol on the board is in the correct orientation, see Diagram 14.

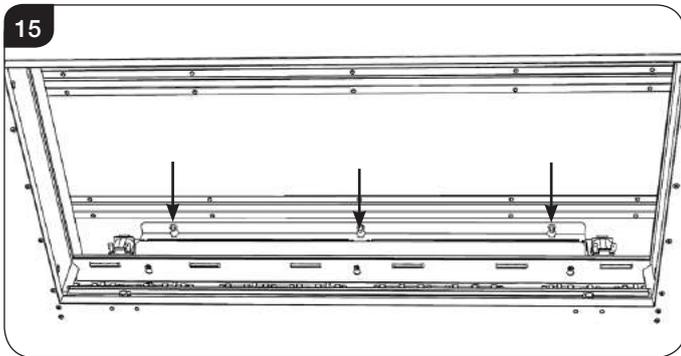


LED Board Bracket

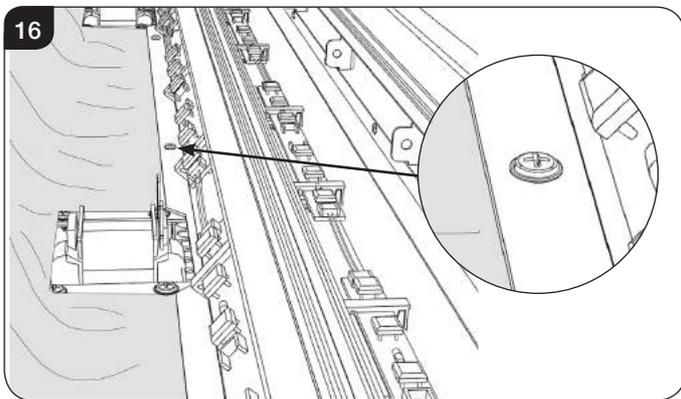
- 10.2 Disconnect the LEDs from the PCB at the right hand side of the fire.

Servicing Instructions

- 10.3 To remove the LED Board bracket loosen the screws on the front above the Fuel Bed LEDs, see Diagram 15.
Note number of screws may vary depending on model.



- 10.4 Remove the screws securing the effect curtain from the rear base of the LED bracket, see Diagram 16.



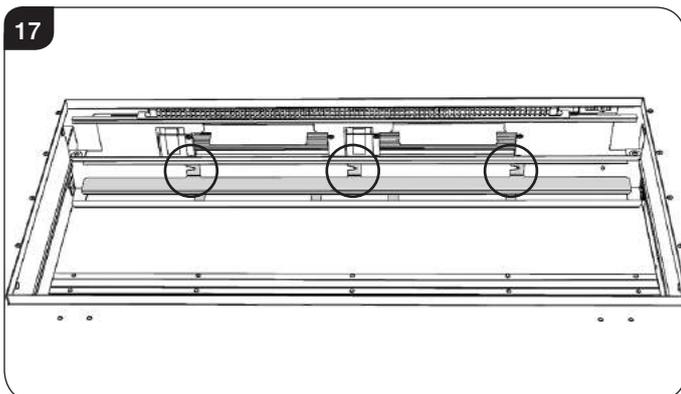
- 10.5 Lift the LED Bracket up and free the front screws from the keyhole slots and rotate forward slightly to withdraw from the viewing aperture.

It is now possible to access and service the entirety of the bracket.

- 10.6 Replace in reverse order.

Removing the Effect Curtain

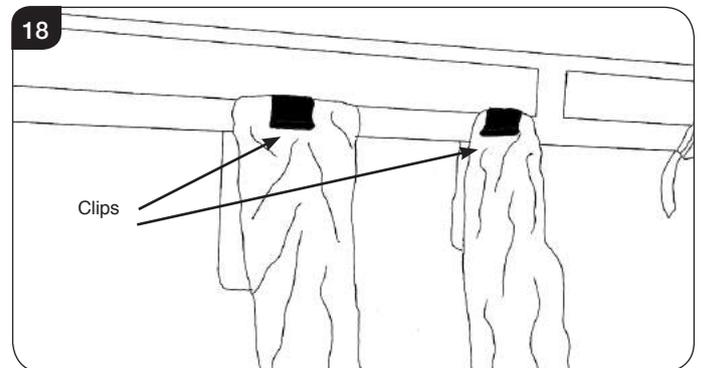
- 10.7 Remove the LED bracket as described.
10.8 Loosen the screws in the roof of the appliance that are located in the Heater Assembly, see Diagram 17.
Note number of screws may vary depending on model.



- 10.9 Slide the flame curtain bracket to the right and lower to remove.

To replace

- 10.10 Mark the position of the silk on the retaining bar to aid replacement.
10.11 Unclip the silk from the top retaining bar by removing the clips.
10.12 Lay the new silk assembly flat and apply a fine film of antic static spray to the material.
10.13 Position in the base of the appliance and fix into position using the previously removed screws. Replace the silk on top of the retaining bar in the position previously marked. The indicator line on the top of the silk ribbons should be aligned with the top edge of the retaining bar. Fold the silk over and replace the clip, see Diagram 18.



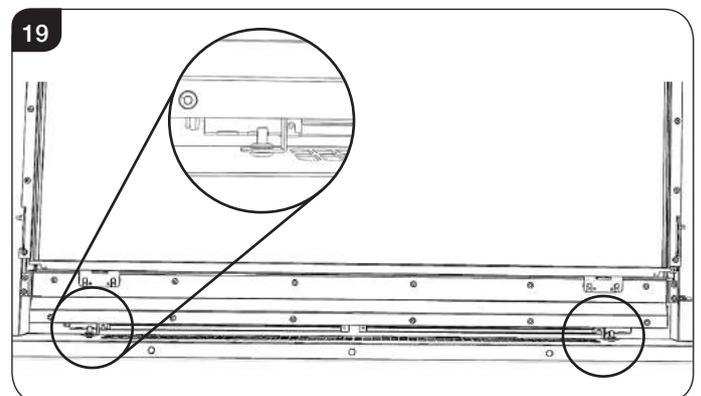
- 10.14 Replace remaining components in reverse order.

Removing the Effect Fans

Remove the LED bracket assembly and the flame effect curtain to access the fan bracket assembly.

Removing the effect Fan Assembly

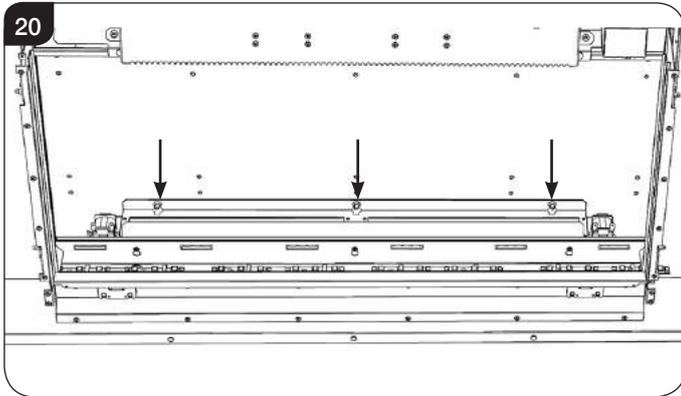
- 10.15 Remove the nuts from each end of the bracket assembly. These are located in the base of the appliance and will require a 7mm spanner to remove, see Diagram 19.



Depending on the model there may be additional nuts located centrally on the bracket.

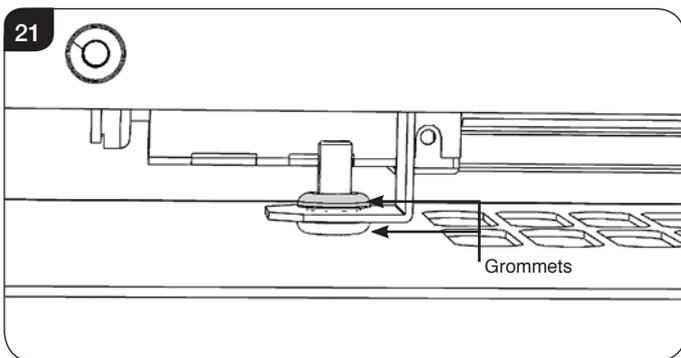
Servicing Instructions - Replacing Parts

10.16 Loosen the 3 nuts at the back of the bracket, see Diagram 20.



Lift the bracket off the nuts by sliding the over the keyhole slots and rotate forward to withdraw. It is now possible to access the fans.

When replacing bracket assembly take care to not overtighten the nuts on the base to avoid crushing the grommet as this provides anti-vibration dampening, see Diagram 21.

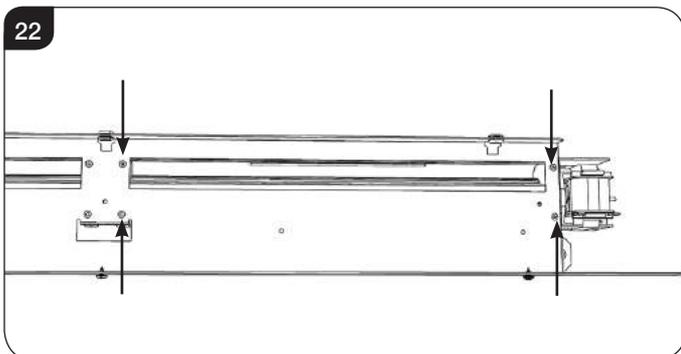


Removing Individual Fans

The fans are secured to the assembly by 4 screws on each fan. Gazco recommend replacing one fan at a time if multiple units need replacing.

10.17 Unclip the wires from the fan.

10.18 Remove the 4 screws holding the fan, see Diagram 22.



The fan can now be replaced.

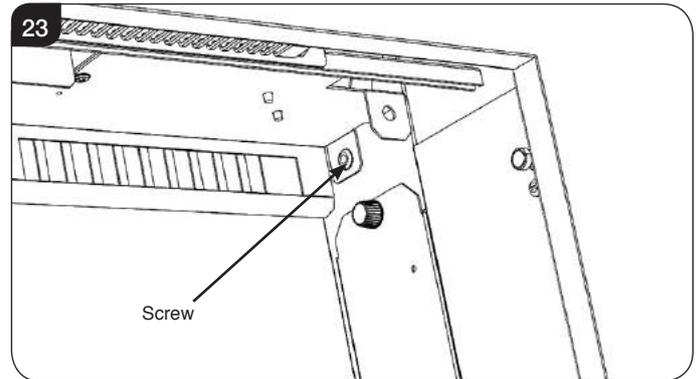
10.19 Reassemble in reverse order using the other fans as a guide for the wiring orientation.

11. Replacing the Heater Unit

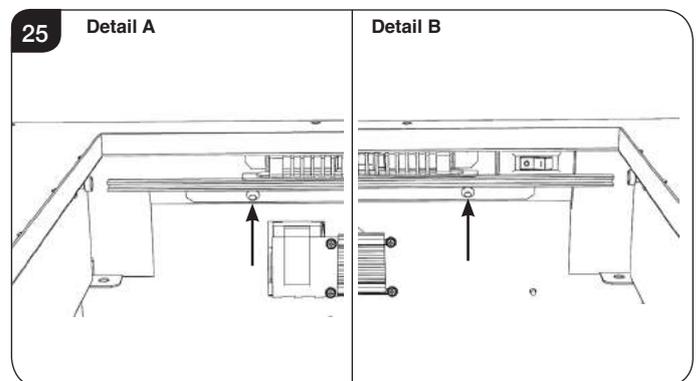
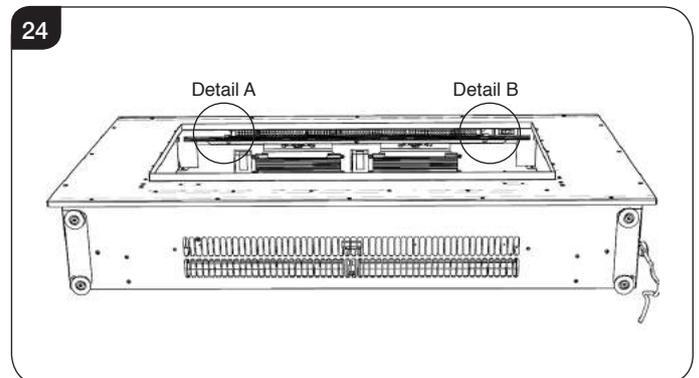
11.1 It will be necessary to remove the flame curtain bracket from the back of the view aperture, see Section 10.7 - 10.9 to remove.

11.2 Lay the silk carefully on the LED bracket assembly.

11.3 Remove the 2 screws at the sides of the heater assembly bracket, see Diagram 23.



11.4 Remove the two nuts at the top of the fire box with a socket and extension piece, see Diagrams 24 & 25.
NOTE: Take care to support the heater assembly when removing the bolts.

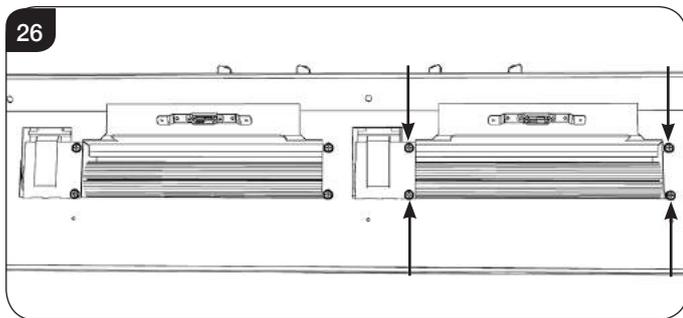


11.5 Lower the heater assembly and unclip the wiring loom on the right hand side from the PCB.

The fans can now be accessed. The fans are secured to the assembly by 4 screws on each fan. Gazco recommend replacing one fan at a time if multiple units need replacing.

Servicing Instructions - Replacing Parts

11.6 Remove the 4 screws holding the fan, see Diagram 26.



The fan can now be replaced.

11.7 Reassemble in reverse order using the other fans as a guide for the wiring orientation.

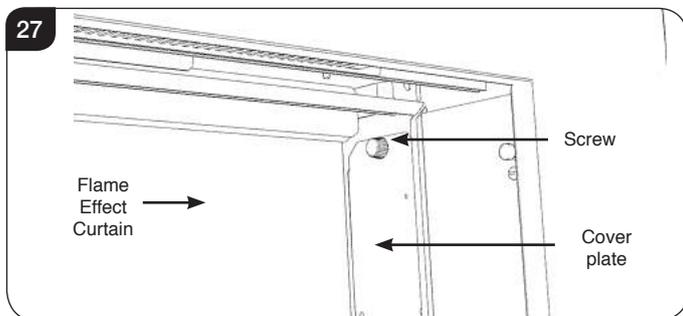
11.8 A faulty heater element will require the assembly bracket to be replaced.

12. Replacing the PCB or Driver

12.1 To access the Electronics Cover Plate it will be necessary to remove the glass front, and the inner screen assembly.

12.2 The Electronics Cover Plate is located on the right hand side of the Flame Effect. Loosen the screw to access the PCB on the rear of the cover, See Diagram 27.

Take care when opening the Cover Plate not to damage the wires attached.

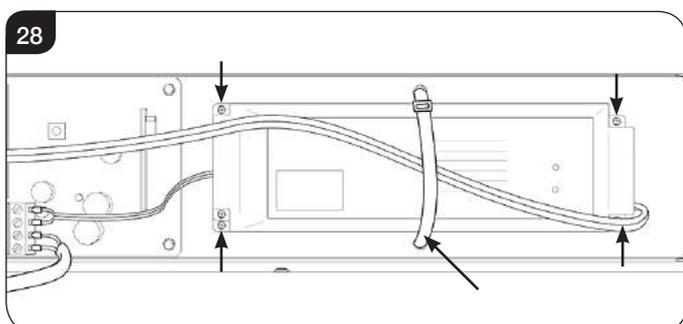


The Electronics cover plate can then drop down into the viewing aperture.

It may be useful to take a picture of the wiring orientation for reference when reassembling.

LED Driver

12.3 The driver is secured by a cable tie and 4 screws. Unplug the cable from the PCB, remove the screws and cut the cable tie to replace, see Diagram 28.



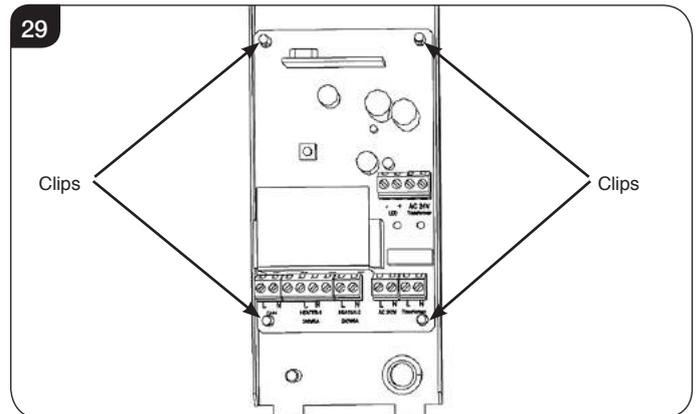
12.4 Replace in reverse order, ensuring the wires are replaced correctly.

PCB

12.5 To replace the PCB remove all the wires.

12.6 The board is secured by 4 clips - one in each corner, see Diagram 29.

Use a pair of long nosed pliers to squeeze the clips and release.



13. Pairing the Remote Control to the Appliance

To pair a handset (existing or new) to the appliance the current pairing program must be deleted.

To delete the Handset:

13.1 Access menu by holding both menu buttons. Scroll to device menu and press select.

13.2 This gives details of the appliance and also gives the option to delete the appliance from the remote handset.

Press and hold the delete option to remove the handset.

Pairing remote to appliance

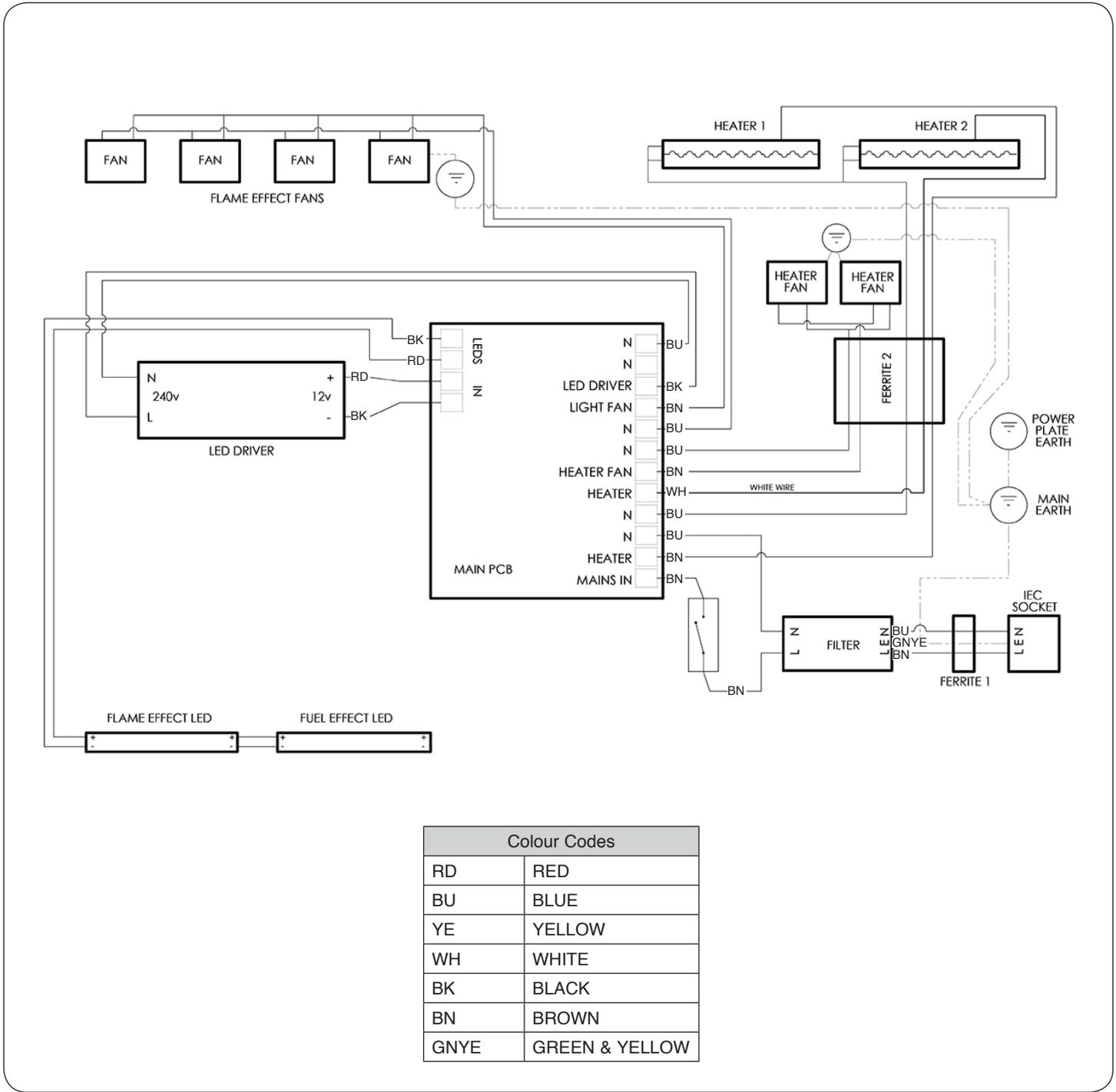
13.3 Ensure appliance is switched off using switch top right of glass panel.

13.4 Touch power button on the remote panel.

13.5 Touch pair on remote.

13.6 Switch on appliance using switch top right of glass panel. The remote screen will show STANDBY when successfully paired.

Wiring Diagram

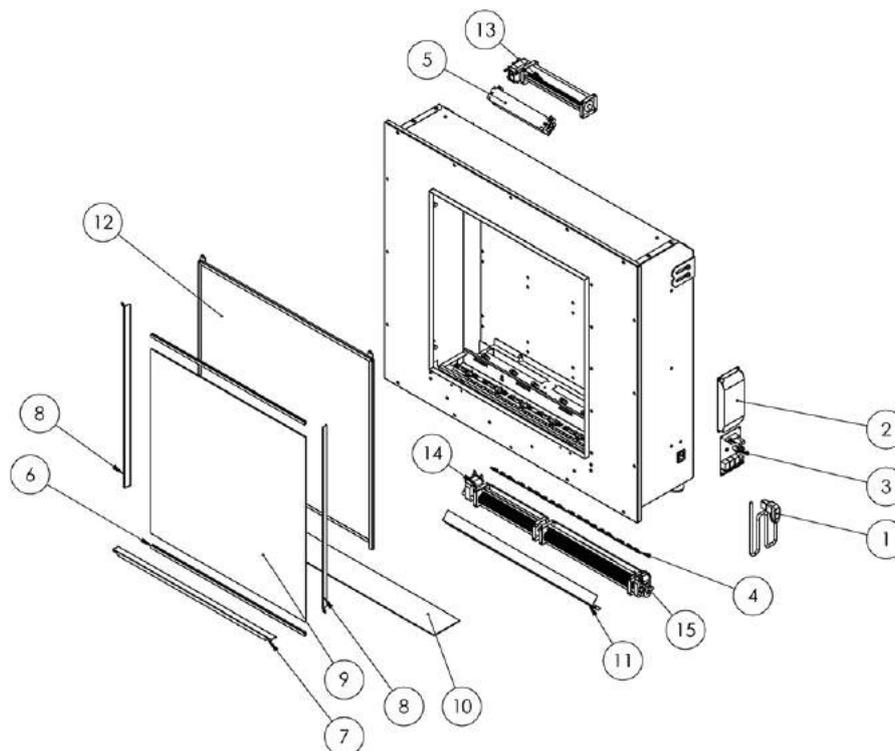


Colour Codes	
RD	RED
BU	BLUE
YE	YELLOW
WH	WHITE
BK	BLACK
BN	BROWN
GNYE	GREEN & YELLOW

Spare Parts List

Spare Parts List

Covering the following models:



No.	Component	Riva2		Studio Inset		
		55R	70R	80R	105R	150R
1	Mains Power Cable (UK Plug)	EL0755	EL0755	EL0755	EL0755	EL0755
2	LED Driver	EL0756	EL0756	EL0756	EL0756	EL0756
3	PCB Unit	EL0757	EL0757	EL0757	EL0757	EL0757
4	LED Board	EL0758	EL0758	EL0758	EL0758	EL0758
5	Heater Unit	EL0759	EL0759	EL0759	EL0759	EL0759
6	Glass Rubber Edging	EL0760	EL0760	EL0760	EL0760	EL0760
7	Bottom Trim	GZ15180	GZ15181	GZ15182	GZ15183	GZ15184
8	Side Trim	GZ15185	GZ15186	GZ15187	GZ15188	GZ15189
9	Front Glass	CE1969	CE1970	CE1971	CE1972	CE1973
10	Fuel Bed	PL0208	PL0209	PL0210	PL0211	PL0212
11	Silk Screen	EL0766	EL0767	EL0768	EL0769	EL0770
12	Effect Screen	PL0213	PL0214	PL0215	PL0216	PL0217
13	Heater Fan	EL0761	EL0761	EL0761	EL0761	EL0761
14	Effect Fan 1	EL0762	EL0765	EL0765	EL0763	EL0763
15	Effect Fan 2	EL0763	EL0763	EL0763	EL0764	EL0764



Due to continual technical improvements please check online or with your Gazco retailer for the most up to date parts lists.

Only use Genuine Gazco spares when servicing your appliance.
All of our essential spare parts and consumable items are available to purchase from our webshop at www.gazcospares.com.

Information Requirement - Electric Heaters

Information Requirement for Electric Local Space Heaters

Model		Riva2 55R	Riva2 70R	Studio 80R	Studio 105R	Studio 150R
Heat Output	Nominal Heat Output - P_{nom}	1000W	2000W	2000W	2000W	2000W
	Minimum Heat Output - P_{min}	250W	500W	500W	500W	500W
	Maximum Continuous Heat Output - $P_{max, c}$	1000W	2000W	2000W	2000W	2000W

Auxiliary Electricity Consumption	At Nominal Heat Output - e_{lmax}	17W	17W	17W	29W	40W
	At Minimum Heat Output - e_{lmin}	17W	17W	17W	29W	40W
	In Standby Mode - $e_{l_{sb}}$	0.9W	0.9W	0.9W	0.9W	0.9W

Type of heat input, for electric storage local space heaters only

Manual heat charge control, with integrated thermostat	No	No	No	No	No
Manual heat charge control with room and/or outdoor temperature feedback	No	No	No	No	No
Electronic heat charge control with room and/or outdoor temperature feedback	No	No	No	No	No
Fan assisted heat output	No	No	No	No	No

Type of heat output/room temperature control

Single stage heat output and no room temperature control	No	No	No	No	No
Two or more manual stages, no room temperature control	No	No	No	No	No
With mechanic thermostat room temperature control	No	No	No	No	No
With electronic room temperature control	No	No	No	No	No
Electronic room temperature control plus day timer	No	No	No	No	No
Electronic room temperature control plus week timer	Yes	Yes	Yes	Yes	Yes

Other control options (multiple selections possible)

Room temperature control, with presence detection	No	No	No	No	No
Room temperature control, with open window detection	No	No	No	No	No
With distance control option	No	No	No	No	No
With adaptive start control	Yes	Yes	Yes	Yes	Yes
With working time limitation	No	No	No	No	No
With black bulb sensor	No	No	No	No	No

Contact:	Gazco Ltd, Osprey Road, Sowton Industrial Estate, Exeter, EX2 7JG
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