

Studio Electric 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:

Studio 1	Studio 2	Studio 22
223-802	223-837	223-884

With the following frame options

Verve Frame						Glass Frame	
Model	Graphite	Metallic Blue	Metallic Red	Metallic Bronze	Ivory	Model	Black Glass
Studio 1	923-900	923-900BL	923-900RD	923-900BZ	923-900IV	Studio 1	923-908
Studio 2	923-926	923-926BL	923-926RD	923-926BZ	923-926IV	Studio 2	923-933
Studio 22	923-952	923-952BL	923-952RD	923-952BZ	923-952IV	Studio 22	923-947

User Instructions.....3

1. Important Information & Health and Safety.....3
2. Operating Instructions.....3
3. Anti Vibration Clips.....8
4. Fitting the Frames.....8
5. Maintenance.....9

Installation Instructions.....10

- Technical Specifications.....10
- Appliance Dimensions.....10
- Frame Dimensions.....11

Installation.....12

1. General.....12
2. Fitting the Appliance.....12

Servicing.....15

Spare Parts List.....25

Wiring Diagram.....26

Information Requirement.....27



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 col-
lection 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



HANDLE WITH CARE:
THE PAINT SURFACE OF DECORATIVE FRAMES
CAN MARK WHEN HANDLING.
ALWAYS WEAR THE GLOVES PROVIDED
DURING INSTALLATION.

- 1.1 **Read all of the instructions carefully before using the appliance.**
- 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 firmly fixed to flat internal wall. Ensure that furniture, curtains etc. are positioned no closer than 500mm to the appliance.
- 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 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.

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 Instructions



WARNING! Do not operate the appliance if it is damaged or has malfunctioned. If you suspect the appliance is damaged or has malfunctioned call a qualified service engineer to inspect the appliance, and replace any part of the electrical system if necessary, before reuse.

Do not disconnect the power at the mains supply whilst the appliance is running. Use the functions on the remote to turn the fire off and ensure the mains switch has been moved to the off position before disconnecting.

GENERAL

- 2.1 The appliance can be operated by the radio frequency handset or the manual controls.



NOTE: To use both remote and manual functions the manual on/off switch must be in 'ON' position. In order to prevent the product becoming too hot, there is 10s delay when turning on the heater and a 10s delay when turning off the heater fan.

The manual button controls basic functions, not a full range of controls. Use the remote hand set to carry out all functions.

User Instructions

PREPARATION BEFORE USE

Batteries:

- 2.2 Ensure that the handset batteries are new and inserted correctly.
- 2.3 Dispose of old batteries at an appropriate recycling facility.

LOCATION OF POWER SWITCH

- 2.4 The mains power switch is located on the control panel located on the right-hand side of the appliance, see Diagram 1.

Wall Mounted

Access from the right hand side of the decorative front.

Semi Recessed Installation

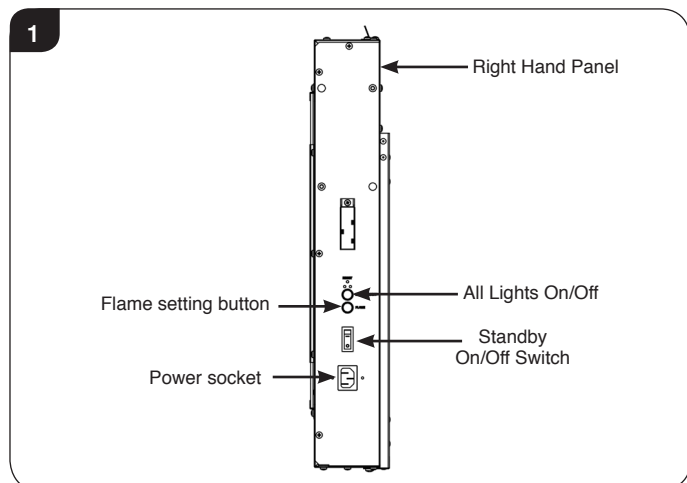
Remove the decorative front. The switch can now be accessed through the cutout in the recess bracket.

The appliance must be isolated from the mains supply.

- 2.5 Switch ON (—) before operating either the remote or manual controls.
- 2.6 A beep is heard to indicate the fire is ready for use.

2a. Manual Control Panel

- 2a.1 The manual controls are on the right hand side of the outer casing behind the decorative front, see Diagrams 1 & 2.



- 2a.3 Turning on the appliance with the main power switch on '—' position. A long beep will be heard.
- 2a.4 Press "LIGHTS ON/OFF" to turn on or turn off both the flame and fuel bed at the same time.
- 2a.5 There are 3 flame colour options:

Press "FLAME" button to select the colour of flame (3 kinds of flame colour with flame) or return to the OFF position.

Note: The appliance will lose the memory for the light functions when the switch is set to the Off Position or the remote runs out of power.

Heater Running Indicators (see Diagram 1)

- 2a.6 When the fan heater is used in conjunction with the flame or fuel bed effects the heater running indicators will light up for 10 seconds.

The LEDs will illuminate for 10 seconds if the flame or fuel bed effect is On.

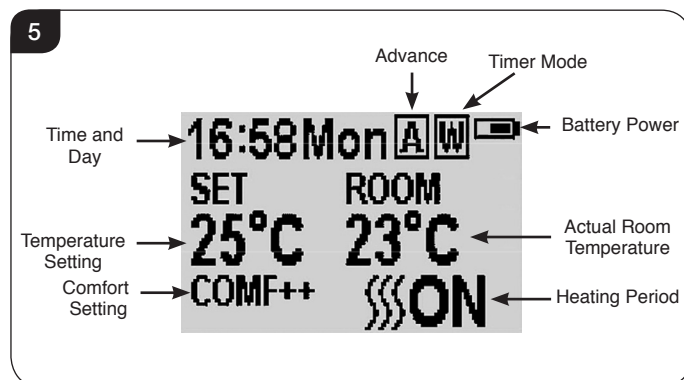
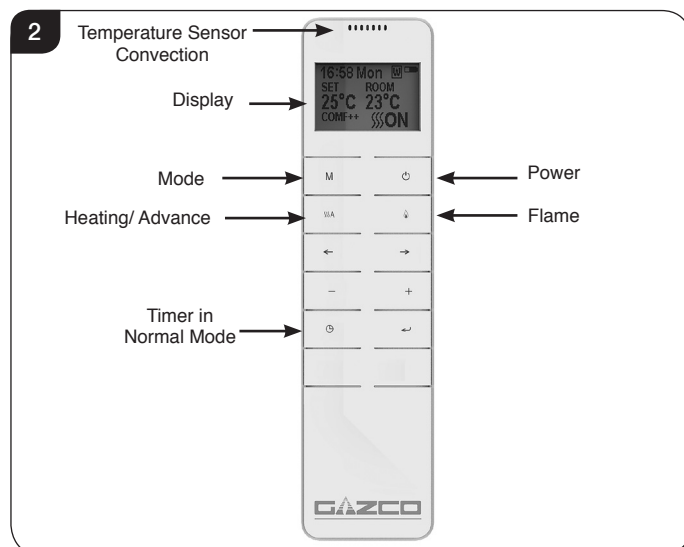
If the fan heater is used independently, the heater running indicators will stay on.

Reset Button for Remote Control

- 2a.6 If the handset loses signal or needs to be replaced then, see Section 19 in Servicing Section for details.

2b. Remote Controls

The remote control should be left on a flat surface in the room where the appliance is installed and away from any direct flow of hot air.



User Instructions

Signal Code

- 2b.1 The remote control works by radio signal.
The handheld transmitter is configured in the factory with a unique signal code.

IMPORTANT: If the handset loses signal or needs to be replaced then, see Section 19 in Servicing Section for details.

Turn on/off.

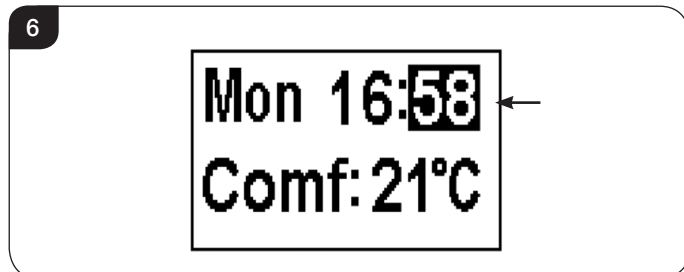
- 2b.2 Press  button to turn on the flame effect.
- 2b.3 Press  button to turn off all the functions under the normal heating control mode including flame effect and fan heater.
- 2b.4 Press  button to turn off the flame effect under daily and week timer heating mode.

Week Days/ Time/ Comfort Temperature and Unit Setting

On activation it is recommended that the clock is reset to the correct time to ensure accuracy of the appliance operation.

- 2b.5 Hold the **M** button for 3 seconds to enter the setting screen.
- 2b.6 Press the '←' or '→' button to choose setting to change.

The selected character will be highlighted, see Diagram 6.



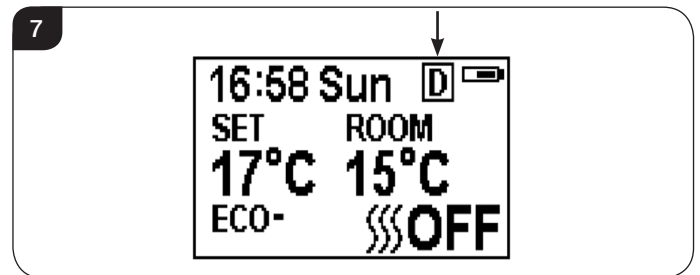
- 2b.7 Press the '+' or '-' button to adjust the number.
- Time: 24-hour system.
Select Comfort temperature from 15-25°C.
Temperature unit: °C/°F.
- 2b.8 Press the  button for 3 seconds or wait 10 seconds to save and exit the week, time and heating temperature setting.

Daily Timer Heating

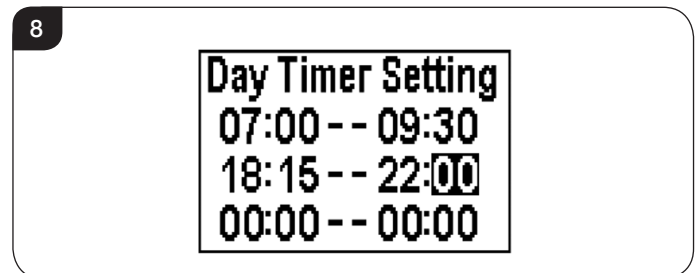
- 2b.9 The following heating periods have been preset, these can be altered if desired:

06:00 until 08:00
17:00 until 22:00

- 2b.10 Press **M** until **D** shows at the upper right corner of the screen to enter the daily timer heating mode.



- 2b.11 Hold the  button for 6 seconds to enter the daily heating setting.
A maximum of 3 timed heating periods can be set per day.
- 2b.12 Press '←' or '→' to choose hour or minute,
- 2b.13 Press '+' or '-' to set the number.
The minute increment / decrement by 15min per press.



- 2b.14 Hold the  button for 3 seconds or wait for 10 seconds to save and exit the heating time period setting.
- 2b.15 Check the timer setting. Press  to check the daily timer mode.
- 2b.16 If the heating needs to be turned off, it will be necessary to go back to the Normal Control Mode to it turn off.

When in Daily Timer Mode switching the appliance off with the remote will stop the light output. The heat output will continue according to the timer settings.

Adjusting the Set Temperature

- 2b.17 Press the '+' or '-' button to increase or decrease the temperature on the basis of COMF temperature.

COMF means the actual temperature is the same as setting.

ECO means the actual temperature is 2°C lower than the setting temperature.

ECO- means 4°C lower, COMF+ means 2°C higher.

COMF++ means 4°C higher.

Adaptive start control

According to room temperature and set-pointed temperature, the heater will automatically determine the appropriate time to heat to ensure that it will reach the set-pointed temperature in the set time (up to 45 minutes prior to the set time).

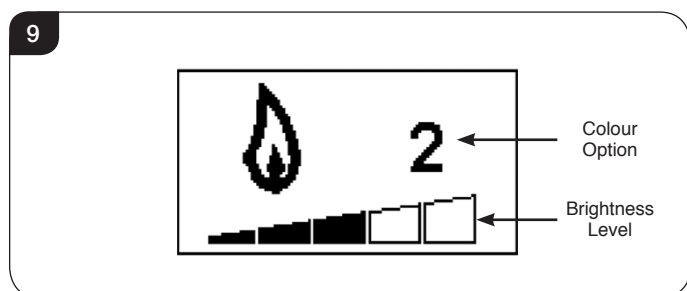
User Instructions

Flame Colour Adjustment

2b.18 Press  button to enter the flame adjustment screen.

There are 3 flame colour options, indicated by the number shown in Diagram 7.

There are 6 levels of brightness, including off. This is indicated by the bar, with the blank bar indicating off, see Diagram 9.



2b.19 Press the '←' or '→' button to cycle through the flame colour options.

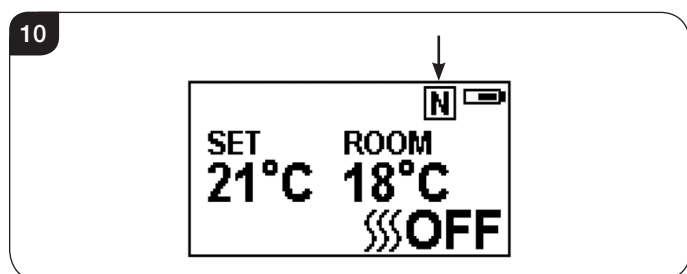
2b.20 Press the '+' button to increase the flame brightness.

Press the '-' button to decrease the flame brightness until off.

Normal Control Mode

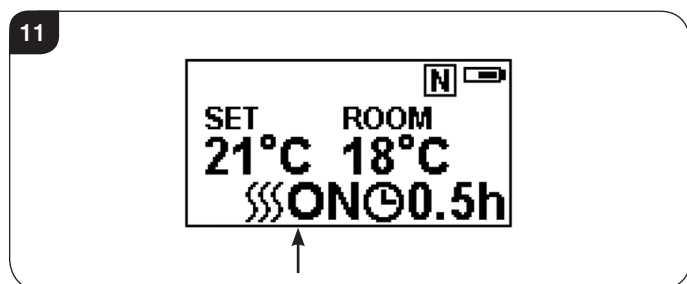
2b.20 Normal Control Mode is the default setting.

Alternatively press **M** button until the **N** logo is shown at the upper right corner of the screen, see Diagram 10.



2b.21 Press the '+' or '-' button to adjust the setting temperature from 17 °C to 25°C.

2b.22 Press  **A** button to turn the heat on/off,  ON or  OFF will show at the lower right corner of the screen, see Diagram 11.



Note: It is normal for the fan heater to stop running for periods of time. This happens if the room temperature is higher than the temperature set on the control.

The heater indicator will be turned off after 10s if the flame is switched ON. The heater indicator will stay ON if only the heating function is used.

When in Normal Control Mode switching the appliance off with the remote will stop both the light and heat output.

Count Down Timer

This setting is only in normal heating control mode. It allows the appliance to be returned to Standby after a set period of time. The heater must be switched on to use this function.

2b.23 Press  to cycle through the setting from Off and 0.5 hours to 9 hours. Timer logo and remaining time will show on the screen.

The heater of appliance can be automatically run by using daily timer and weekly timer on the remote.

Battery

The battery power level is indicated at the top right of the remote control screen, see Diagram 3.

	Battery Full	No action required
	Battery Half Power	Ensure new batteries are available.
	Battery Empty	Replace batteries immediately

Battery replacement is recommended after 1 year. The Remote requires two 1.5V alkaline AAA batteries.

Changing the batteries will not affect the Timer Mode settings, however, the clock may need adjusting.

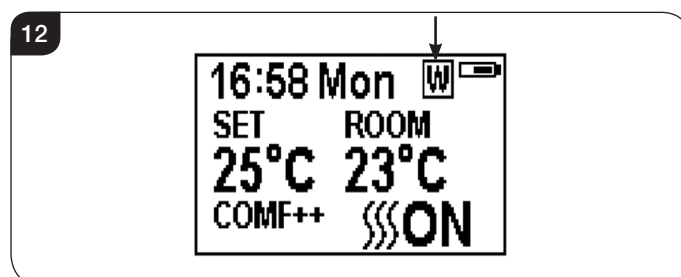
Week Timer Heating

2b.24 The following heating periods have been preset, these can be altered if desired:

From Monday to Friday
06:00 until 08:30
17:00 until 22:00

From Saturday to Sunday
06:30 until 09:30
11:00 until 13:00
17:00 until 22:00

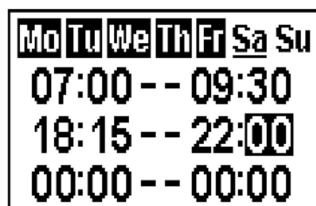
2b.25 Press **M** until **W** shows at the upper right corner of the screen to enter the week heating mode.



User Instructions

- 2b.26 Hold the  button for 6 seconds to enter the week timer heating mode setting.
- 2b.27 Press '' or '' to move the cursor (a flashing underline).
- 2b.28 Press the  button in the corresponding week position to select (the character is highlighted) or cancel (the character is displayed normally) the current setting, the same time period can be selected together.

13



- 2b.29 Press the '' button to move the cursor to the time period setting area.
- 2b.30 Press '' or '' button to choose hour or minute.
- 2b.31 Press '+' or '-' to set the number.
- A maximum of 3 timed heating periods can be set per day.
- Minute increment / decrement by 15min per press.
- 2b.32 Press  to set the heating time for the selected day and return to the week line.
- 2b.33 Hold the  button for 3 seconds or wait for 10 seconds to save and exit the heating time period setting.
- 2b.34 Press  '' or '' to check the timer setting for the week timer heating mode.
- 2b.35 If the heating needs to be turned off, it will be necessary to go back to the Normal Control Mode to it turn off.

When in Weekly Timer Mode switching the appliance off with the remote will stop the light output. The heat output will continue according to the timer settings.

Adjusting the Set Temperature

- 2b.36 Press the '+' or '-' button to increase or decrease the temperature on the basis of COMF temperature.
- COMF means the actual temperature is the same as setting.
- ECO means the actual temperature is 2°C lower than the setting temperature.
- ECO- means 4°C lower.
- COMF+ means 2°C higher.
- COMF++ means 4°C higher.

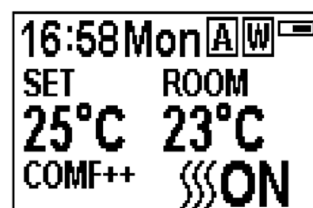
Adaptive start control

According to room temperature and set-pointed temperature, the heater will automatically determine the appropriate time to heat to ensure that it will reach the set-pointed temperature in the set time (up to 45 minutes prior to the set time).

Advance mode

- 2b.41 The heating state can be advanced to the next period is under both the daily and week timer heating mode.

14



If the heater is on in the current period, pressing the button will turn the heater off.

If the heater is off in the current period, pressing the button will turn the heater on.

Whether the actual heating will be on/off also depends on the room temperature and setting temperature.

- 2b.37 Press  A to enter the Advance mode under the daily and week timer heating mode,  A will show at the upper right corner of the screen.
- 2b.38 Press  A again or timer period ends will exit the Advance mode.

Window open detecting

- 2b.39 When the transmitter detects a rapid drop in room temperature, it will be judged as an open window: the warning icon will be displayed and the heating will be turned off automatically.

15



- 2b.40 After indoor temperature rise or manual intervention (by operating remote control), it will return to normal working state.

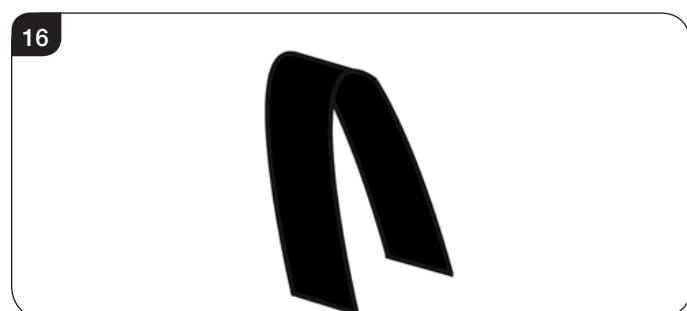
User Instructions

3. Anti Vibration Clips

In order to improve the performance of the appliance the addition of rubber mounts that reduce any possibility of vibration noise occurring when a frame has been attached have been designed.

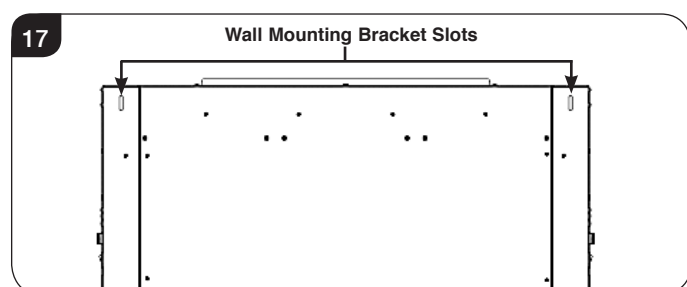
The appliance is supplied with six rubber mounts that cushion the frames when fitted.

- 3.1 The rubber mounts are U-Shaped in order to fit into the slots in the appliance, see Diagram 16.

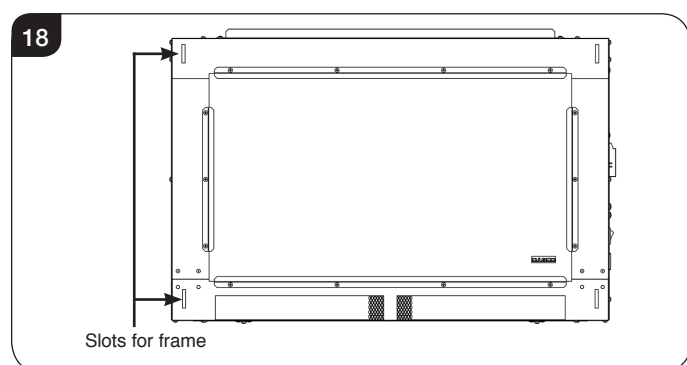


- 3.2 To install the clips fit them over the slots in the Studio appliance.

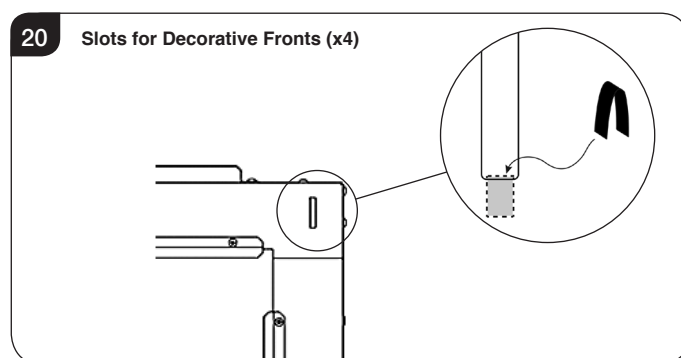
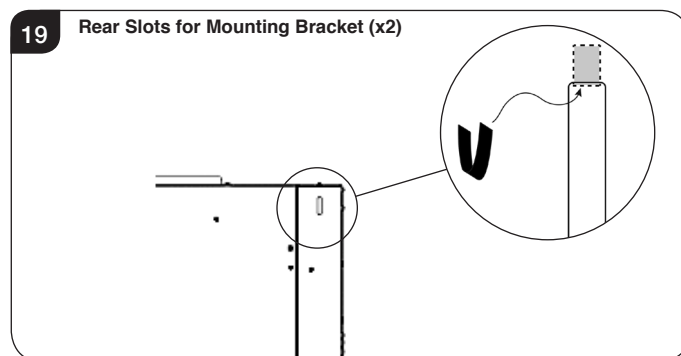
- 3.3 There are 2 slots on the rear of the appliance for the hooks on the wall mounting bracket, see Diagram 17.



- 3.4 There are 4 slots on the front of the appliance for the hooks on the decorative frame, see Diagram 18



- 3.5 The mounts must be fitted before the installation of the appliance and frame, see Diagram 19 & 20.

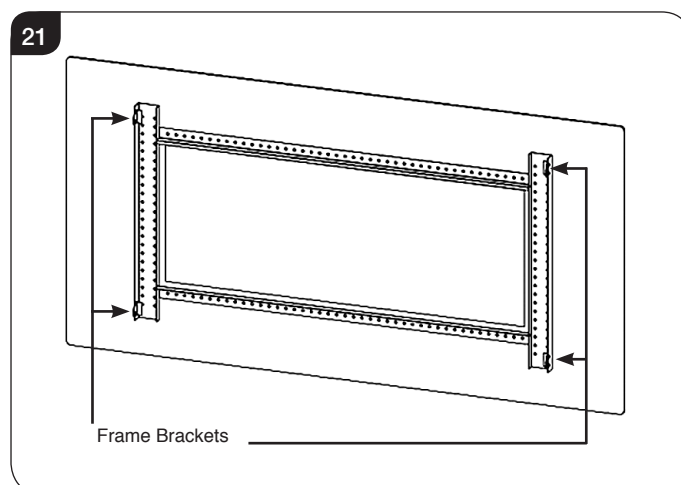


4. Fitting Frames



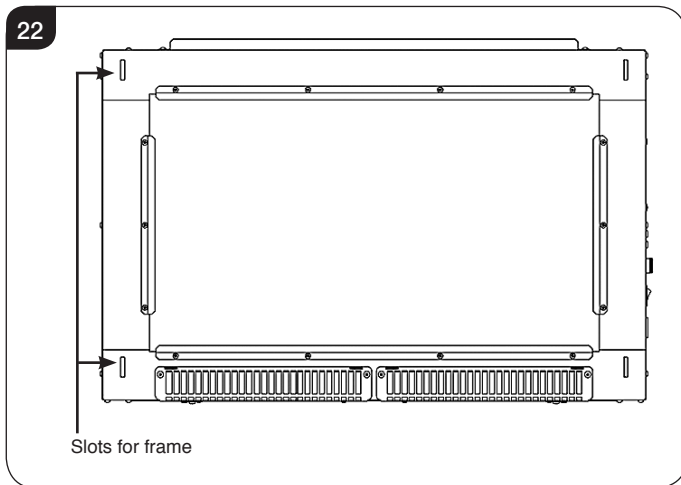
HANDLE WITH CARE:
THE PAINT SURFACE OF DECORATIVE FRAMES
CAN MARK WHEN HANDLING.
ALWAYS WEAR THE GLOVES PROVIDED
DURING INSTALLATION.

- 4.1 The frame options are secured to the appliance by 4 hooked brackets, see Diagram 21.



User Instructions

The hooks locate in the 4 slots on the front of the appliance, see Diagram 22.



4.2 To remove the frame lift carefully and pull forward.

Fitting the frame is the reverse of this procedure.

5. Maintenance

5.1 **ALWAYS UNPLUG FROM MAINS SUPPLY BEFORE CLEANING OR UNDERTAKING ANY MAINTENANCE.**

GENERAL CLEANING

5.2 Only clean the outer casing when it is cold. Do not use abrasive cleaners.

CLEANING FRONTS

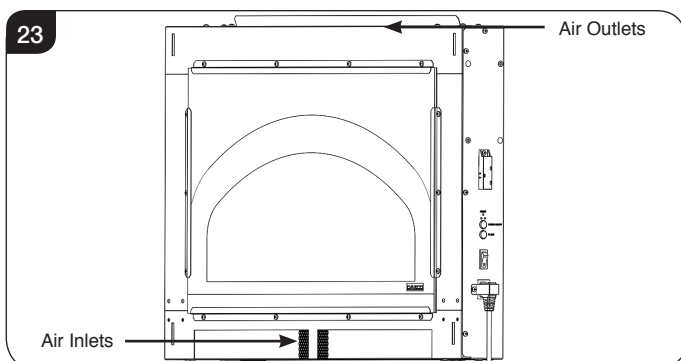
5.3 Wipe the front with a damp cloth and buff with a lint free duster.

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

CLEANING AIR INLETS

5.4 Ensure the appliance is unplugged.

5.5 Clean the air inlet and outlet grilles regularly with a soft cloth or the nozzle of a vacuum cleaner.



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

5.6 Keep the area around the appliance clean and free of fluff, dust or pet hair.

5.7 In particular, build-up of dust etc. can occur around the heater area at the top of the appliance. Take particular care to keep this area free from such particles on a regular basis to prevent build-up.

BATTERY REPLACEMENT

5.8 When the remote batteries are low they must be changed immediately. Install correct replacement and dispose of the old batteries carefully.

Installation Instructions

Technical Specification

These instructions cover the following models:

Studio 1	Studio 2	Studio 22
223-802	223-837	223-884

A 230V 13Amp 50Hz supply is required.

Maximum power consumption:

Studio 1 & 2: 1800 watts

Studio 22: 900 watts

THIS APPLIANCE MUST BE EARTHED

A 1.8 metre lead with plug containing a 13 amp fuse is supplied. Only use a 13 amp fuse with this appliance.

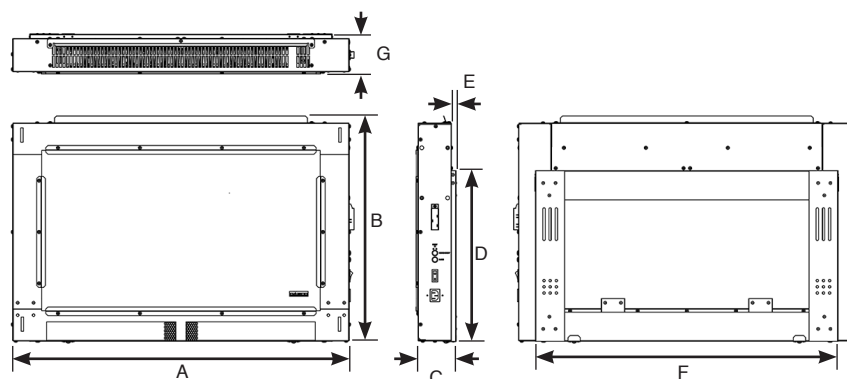
Remote control handset batteries (2 x AAA).

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.

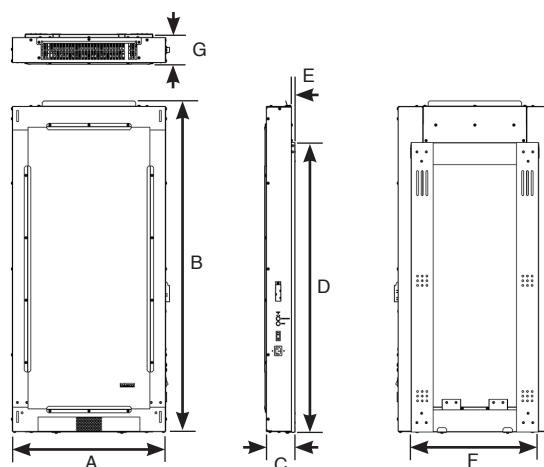
PACKING CHECKLIST

Appliance Description	Fixing Kit containing:
Studio 1 Studio 2 Studio 22	1 x Instruction Manual 1 x Power Cable 4 x Screws 4 x Rawl plugs 1 x Handset 2 x Retention screws 2 x AAA Battery 6 x Anti Vibration Clips 1 x Power Cord Cover 1 x White Stone Effect

STUDIO 1 & 2



STUDIO 22



Model	A	B	C	D	E	F	G
Studio 1	822	548	93	416	12	739	98
Studio 2	1045	548	93	416	12	961	98
Studio 22	492	1062	93	929	12	409	98

Installation Instructions

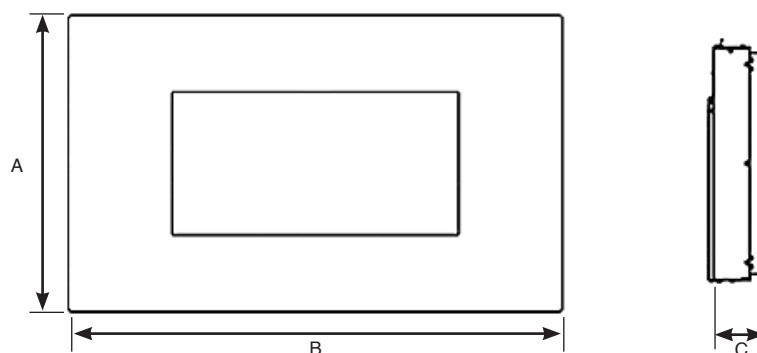
Technical Specification

Control System Technical Data			
	Main Control Board	Remote Receiver Board	Remote Control
Hardware	RC01-040A04 V2	RF290B V1.2	RF290A-TX V1.3
Software	RC01-040A04 V2	-	RF290C V06.0.HEX
Frequency	-	-	ASK/OOK 433.92MHz
Maximum Transmit Power	-	-	10mW

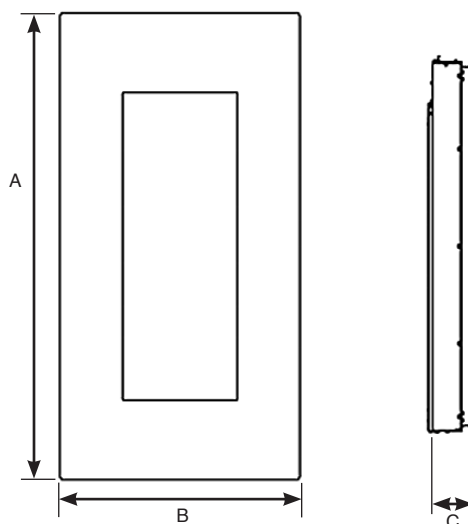
Dimensions

These dimensions cover the following frame models:

STUDIO 1 & 2



STUDIO 22



Verve Frame

Model	A	B	C
Studio 1	640	1320	155
Studio 2	240	1520	160
Studio 22	1320	676	156

Glass Frame

Model	A	B	C
Studio 1	675	1120	118
Studio 2	675	1320	118
Studio 22	1320	675	118

Installation Instructions

1. General

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 Open the packaging carefully and remove the polystyrene. Remove and discard the plastic bag. 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



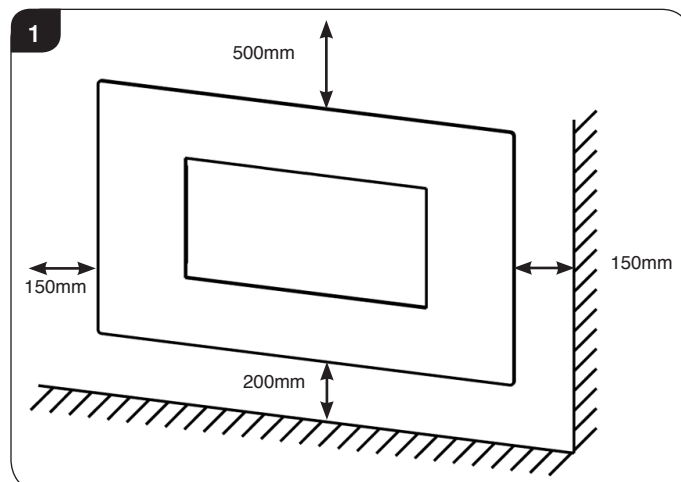
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ALWAYS WEAR THE GLOVES PROVIDED
DURING INSTALLATION.**

2.1 Locating the Studio Electric

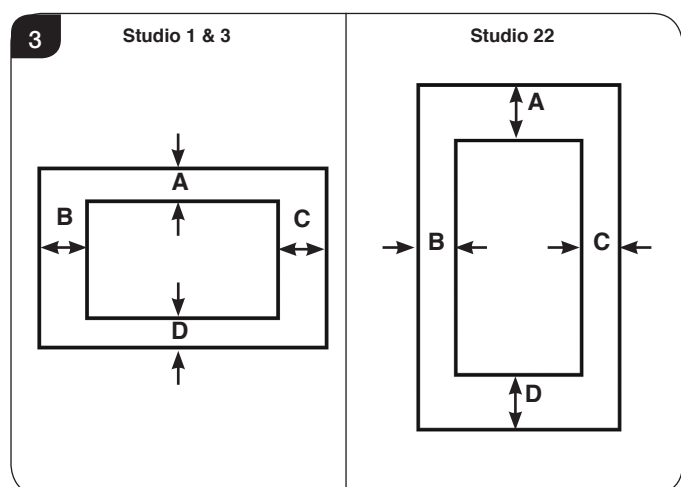
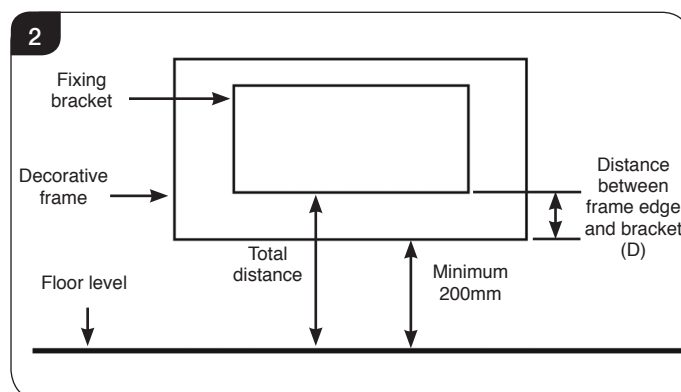
Your new Studio Electric may be installed virtually anywhere in your home. However, when choosing a location ensure that the general instructions are followed.

- 2.2 For best results, install out of direct sunlight.
- 2.3 If the power cord is damaged, it must be repaired by the manufacturer, its authorized service centre or professional person.
- 2.4 The appliance should be located close to a suitable mains socket to enable connection. The electrical socket must be easily accessible to allow disconnection when the appliance is fitted.
- 2.5 The Studio comes with the wall mounting bracket attached. It is held on by two screws on the bottom of the appliance which need to be removed before the bracket can be detached.

- 2.6 Prior to installation ensure the minimum clearances are observed, see Diagram 1.



- 2.7 Decide on the height from the floor level to the bottom of the decorative frame (minimum of 200mm). Add the desired distance between the bottom of the frame and floor level to the frame dimension 'D' in Diagram 3 (see table over page) to achieve the total distance in Diagram 2. This will give the required height to the underside of the wall mounting bracket.



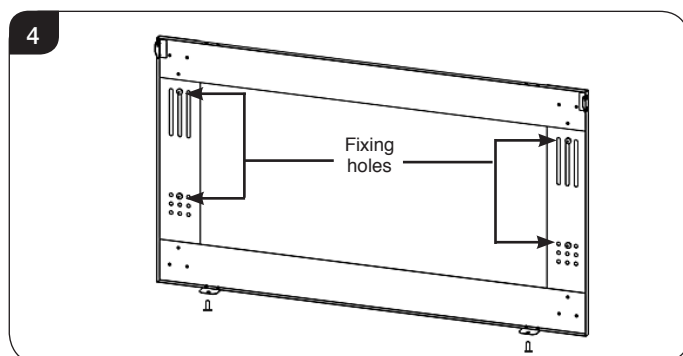
Installation Instructions

Verve Front (in mm)				
Model	A	B	C	D
Studio 1	45	250	250	55
Studio 2	45	240	240	55
Studio 22	155	95	95	155

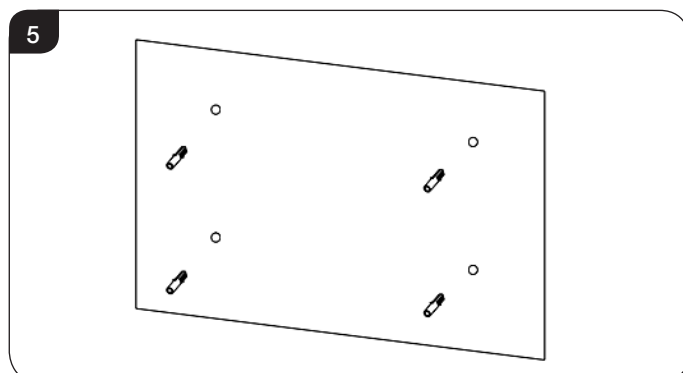
Glass Front (in mm)				
Model	A	B	C	D
Studio 1	75	150	150	75
Studio 2	75	150	150	75
Studio 22	145	95	95	145

2.8 To prepare the installation measure the distance from floor level and draw a line on the wall using a spirit level.

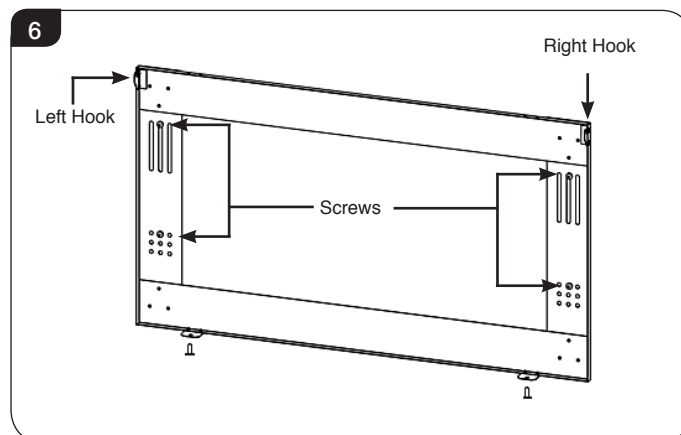
2.9 Position the wall mounting bracket so that the bottom edge is level with the line drawn on the wall. Mark the position of the four fixing holes on the wall, see Diagram 4.



2.10 Drill the 4 holes and insert the rawlplugs provided. Note: The rawlplugs supplied are suitable for solid wall applications. If it is intended to mount the appliance onto plasterboard or hollow walls suitable fixings must be used, see Diagram 5.

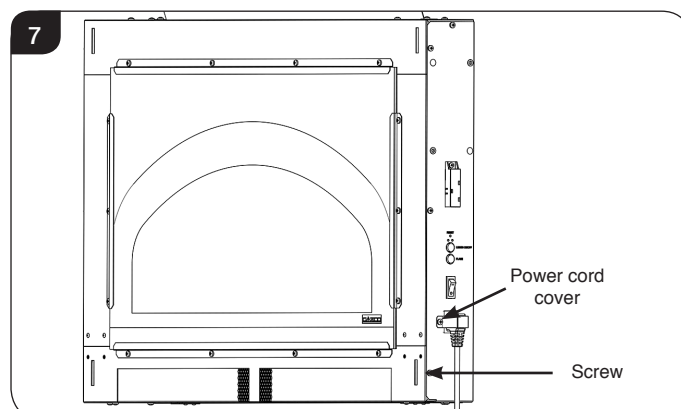


2.11 Attach the bracket to the wall using the screws provided ensuring the hooks are at the top, see Diagram 6.



2.12 Lift the engine onto the bracket. Insert the hooks into the slots on the back of the engine and secure with two screws at the base of the bracket.

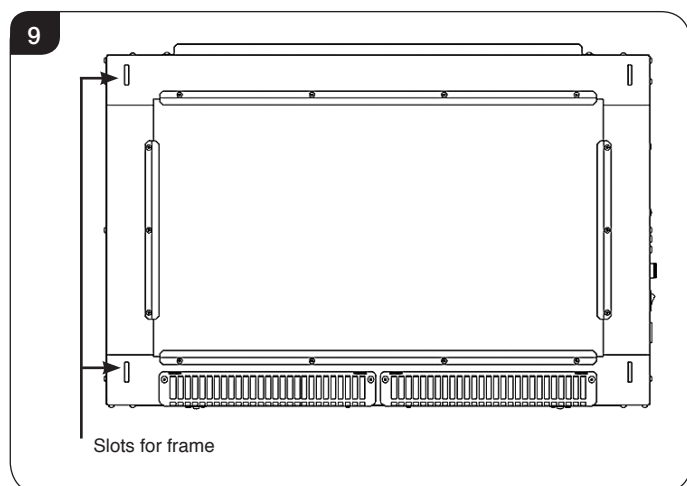
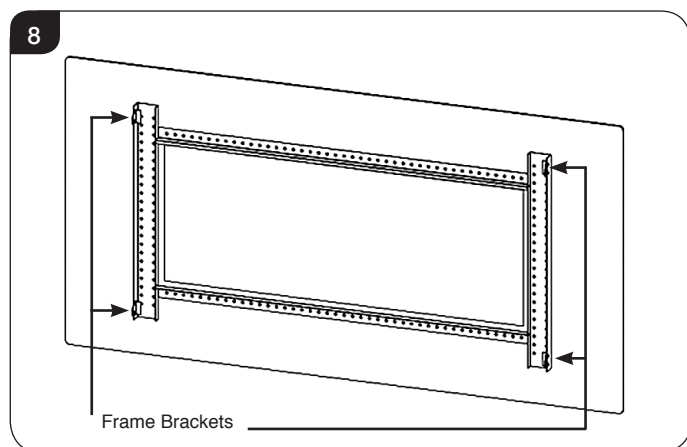
2.13 Attach the power cord to the engine and secure the power cord cover with the screws provided, see Diagram 7.



HANDLE WITH CARE:
THE PAINT SURFACE OF DECORATIVE FRAMES
CAN MARK WHEN HANDLING.
ALWAYS WEAR THE GLOVES PROVIDED
DURING INSTALLATION.

Installation Instructions

- 2.14 Insert the hooks on the back of the frame into the slots on the front of the engine and lower to secure in place, see Diagrams 8 & 9.



Verve Frame:

The Verve frame is supplied with a bag of optional decorative stones.

These may be placed on the lip at the bottom of the frame in front of the effects screens and do not affect the operation of the appliance.

Servicing Instructions

1. Fault Finding

No illumination or uneven lighting:

- 1.1 First change the BS1362 13A fuse for one known to work. If the appliance still does not work, check the socket by plugging in a working appliance. If this too fails to operate, call in a competent electrician to check the socket.
- 1.2 One or more of the LED boards will need replacing. This must be undertaken by a suitably qualified person (see *Servicing Requirements*).

Illumination but no heat:

- 1.3 The safety cut-out has operated to protect against overheating (see *User Instructions, Section 2*). Ensure the air inlet and outlet grilles are free of dust or any other obstruction.
- 1.4 The thermostat control may be set too low. Increase the setting by pressing the thermostat button on the remote control until the heater turns on.

Remote control fails to work:

- 1.5 Check that the batteries are new and correctly fitted. Replace if necessary.
- 1.6 Ensure that the handset is pointed towards the fire.

2. How to wire a plug

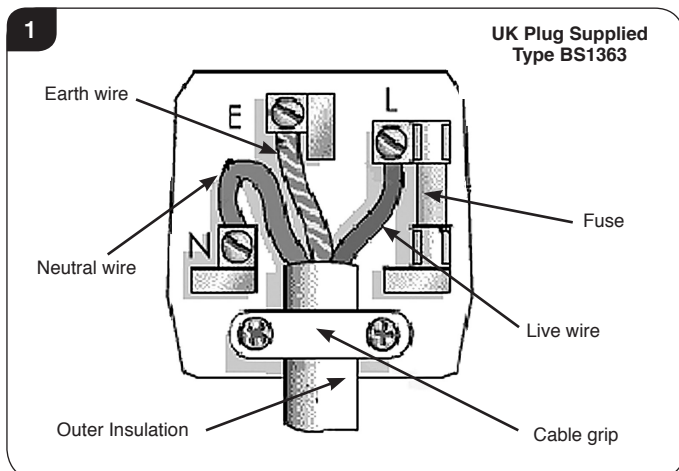
To change the plug supplied with this appliance, follow the instructions below. The instructions assume that the wire has been cut.



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.

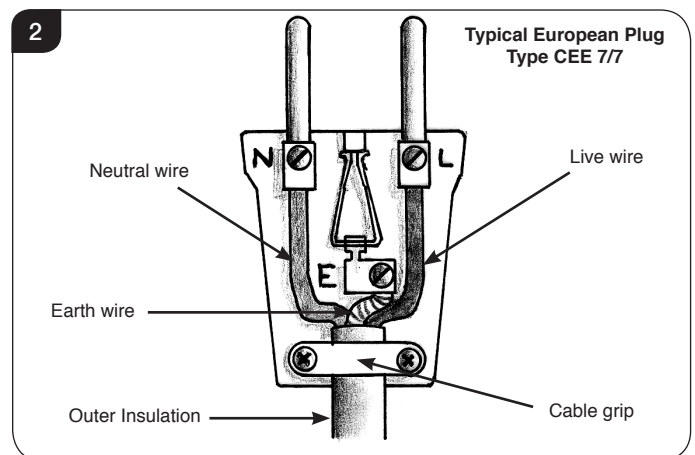


Live Wire	Brown	Terminal L / RED
Neutral Wire	Blue	Terminal N / BLACK
Earth Wire	Green & Yellow Stripes	Terminal E /  / GREEN or GREEN & YELLOW

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.



- 2.1 Dispose of the old plug safely. Ensure the new plug has the relevant approval marking and is not cracked or chipped.
- 2.2 Expose 4cm of the coloured wires and trim to the correct lengths so that they comfortably reach the correct terminals.
- 2.3 Ensure that the Earth wire has more slack than any of the other wires.
- 2.4 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.
- 2.5 Twist the strands of the wire together.
- 2.6 Loosen the screw heads above each terminal.
- 2.7 Push the metal wire into the hole beneath each screw head or, dependent on plug design, wind the metal wire around the screw.
- 2.8 Ensure that the insulation reaches right up to each terminal as illustrated and there are no loose strands of wire.
- 2.9 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.
- 2.10 Refer to *Technical Specification* for fuse rating and fit the appropriate fuse into the plug (UK Only).
- 2.11 Attach the plug cover.

Servicing Instructions

3. Servicing 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.

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

3.2 Remote Handset Battery Replacement

Replace with a 2 x AAA batteries. Make sure the battery is installed correctly in the remote control.

3.3 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.

3.4 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 fire 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 (Manual On/Off switch) and leave for approximately 10-15 minutes.

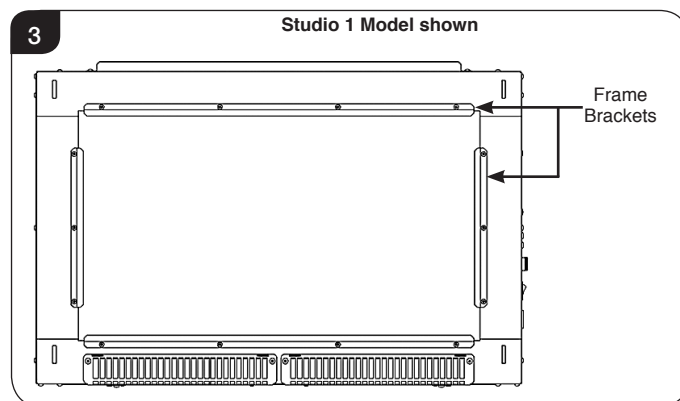
Remove any obstruction to the fan heater outlet or other internal parts.

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.

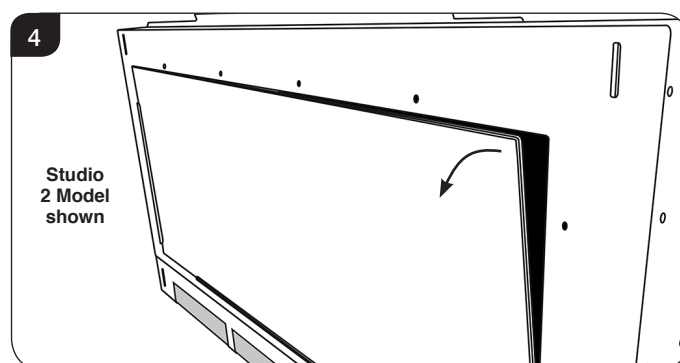
4. Removing the Screens

All Models

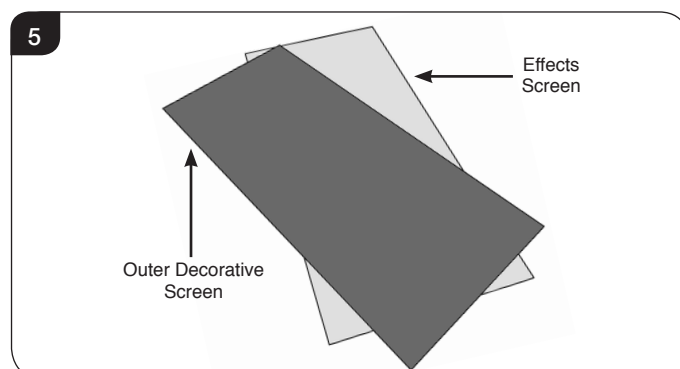
- 4.1 Unscrew one of the side brackets and the top bracket that hold the screens in place on the front of the engine, see Diagram 3.



- 4.2 Loosen or remove the remaining brackets if necessary to allow easy removal of the 2 screens. Pull the exposed corner away from the appliance in order to remove carefully, see Diagram 4.
The screens can be removed together or individually. Do not bend the screens at an extreme angle as this may cause them to break.



- 4.3 There are 2 screens:
The Outer Effects Screen has a screen print pattern which must face the appliance when replacing.
The Inner Effects Screen has a matt finish on one side which must face inwards to the appliance when replacing.



- 4.4 Carefully set screens to one side to avoid damage.

Servicing Instructions

5. Removing the Silk Effect

All models

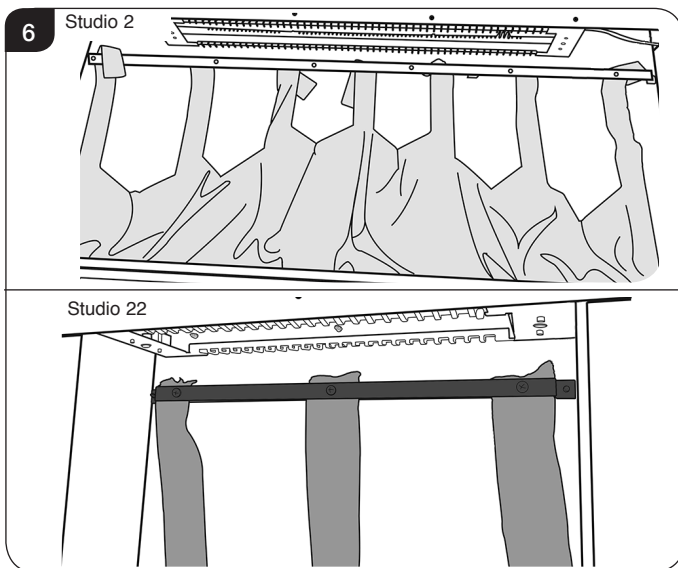
In order to access and carry out servicing to many internal parts it is easier to remove the Silk Flame Effect.

NOTE: If it is possible to easily remove the appliance from the installation, there are two screws which can be accessed from the rear of the unit. These screws enable the removal of the silk clamp leaving the Flame Effect attached ensuring the tension and positions are retained.

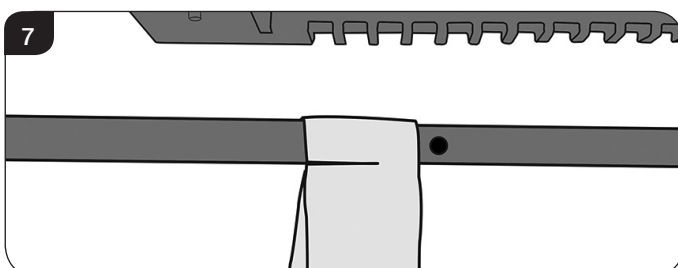
If this is not possible the camp and silk will have to be removed from the front.

To do this:

- 5.1 First remove the effects screens, see Section 4. It is now possible to access the interior of the appliance.
- 5.2 The silk is held by a clamp at the top of the appliance. Remove the screws securing the top part of the clamp (number will vary depending on appliance), see Diagram 6.



- 5.3 Lift off the top part of the clamp and place carefully to one side.
- 5.4 The Silk Effect is stuck to the bar. This can be easily pulled off. Note: There is a mark on the silk to denote the position it must be replaced on the bar to correctly produce the flame effect. It is vital the silk is replaced exactly as it was removed, see Diagram 7.

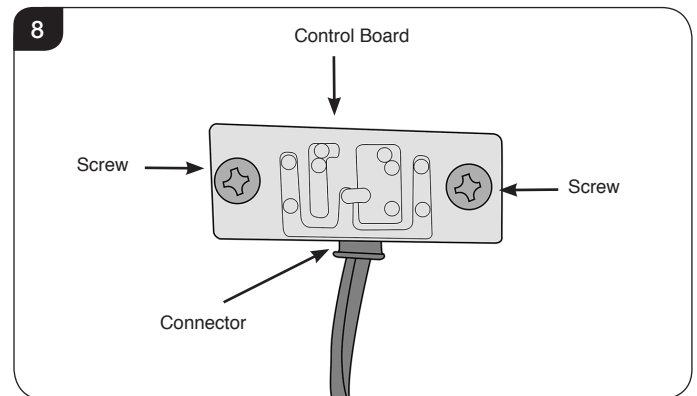


- 5.5 Once the silk has been freed from the bar it can be placed at the bottom of the interior of the appliance whilst work is carried out on the various components.

- 5.6 Refit the silk in reverse ensuring the mark lines up with the bottom of the bracket.

6. Replacing the Manual Control Board

- 6.1 Follow Sections 8, 9, 11 and 12 to access the Control Board.
- 6.2 Undo the screws on the back of the board, see Diagram 8.
- 6.3 Unclip the connector to remove the board.

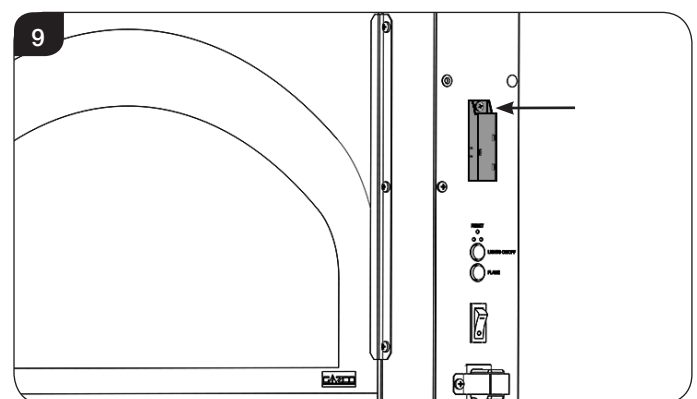


- 6.4 Replace in reverse order.

7. Replacing the RF Receiver

The RF Unit is mounted on the side of the appliance, see Diagram 9.

- 7.1 Undo the screw securing the RF Receiver, see Diagram 12.



- 7.2 Slide the RF Receiver right and lower out of its location.
- 7.3 Remove the PCB.
- 7.4 Disconnect to remove.
- 7.5 Replace in reverse order.

Servicing Instructions

8. Accessing the Internal Components

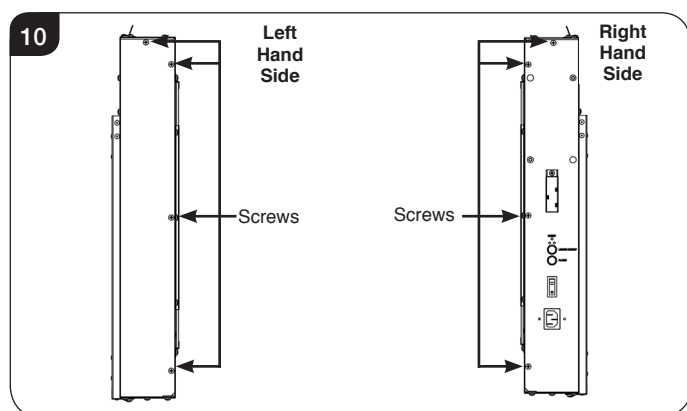
All Models

Depending on the part requiring service it may be necessary to remove one or both sides of the unit.

- 8.1 To access it will be necessary to remove the decorative screens - see Section 4.

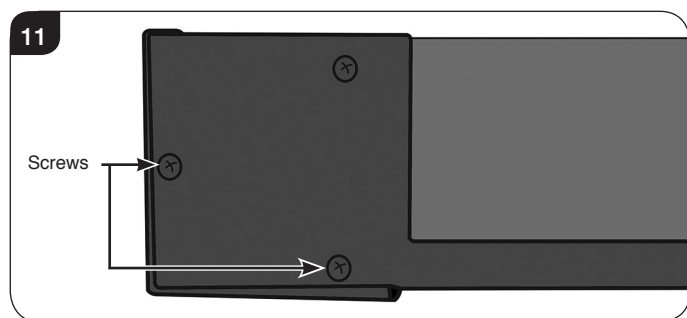
To remove the Right Hand Side, it may also be necessary to remove the RF Receiver Unit, see Section 7.

- 8.2 Remove the screws securing the side panels (note the Studio 22 has 5 screws compared to the other models which have 4, see Diagram 10).

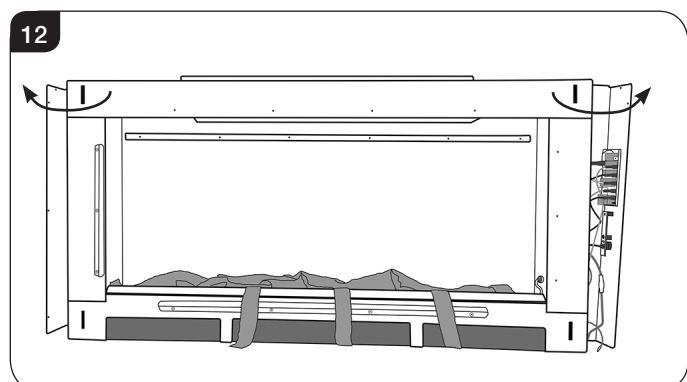


- 8.3 Remove the single screw at the top of the appliance on the outer edge of each side.

- 8.4 Carefully lie the appliance on its back and remove the screw on top and 2 screws on each side of the bottom edges, see Diagram 11.



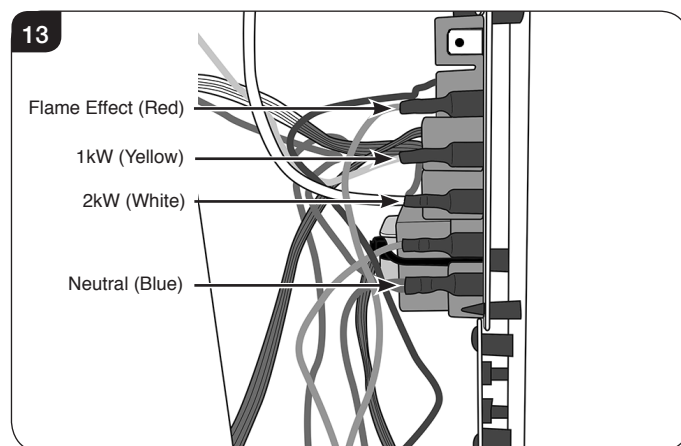
- 8.5 Stand the appliance back up right and carefully open the 2 sides outwards to reveal the electronics, see Diagram 12.



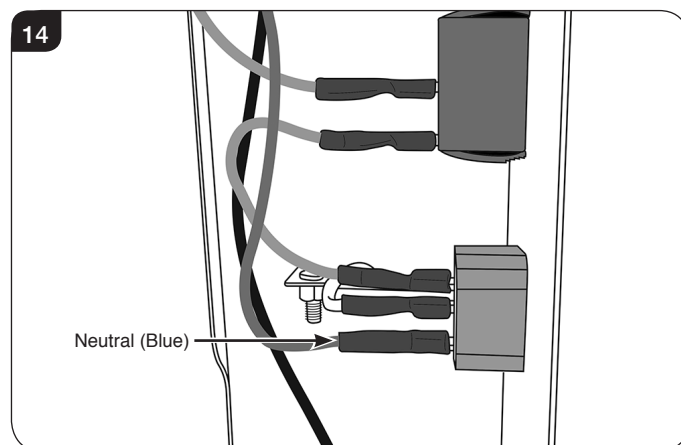
The left hand side is empty and can be placed to one side. The right hand side contains the PCB, Thermostat Control Board and connecting wires, these must be disconnected before servicing the fans and LEDs.

- 8.6 Disconnect the following cables from the PCB:

1kW Heater
2kW Heater
Flame effect
Neutral
See Diagram 13.



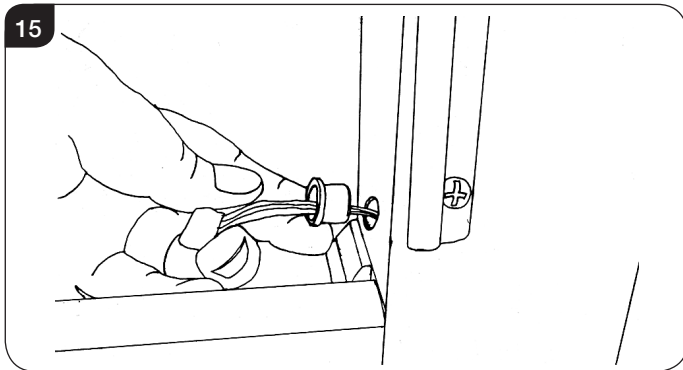
- 8.7 Disconnect the following cable from the rear of the Plug Socket:
Neutral, see Diagram 14.



- 8.8 Feed the Remote Sensor through the opening at the top of the appliance and let it hang loose with the other wires attached to the PCB.

Servicing Instructions

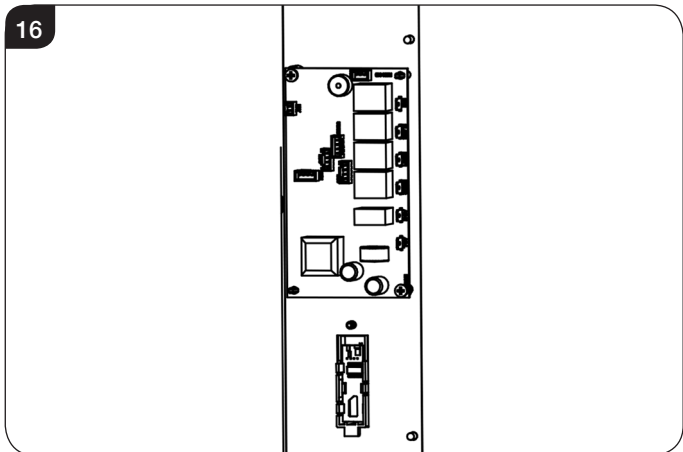
- 8.9 Disconnect the wire from the right hand side of the LED boards and feed through the grommet in the appliance casing, see Diagram 14.



- 8.10 It is now possible to remove the right hand side to service the PCB and Thermostat control.

9. Replacing the PCB Unit

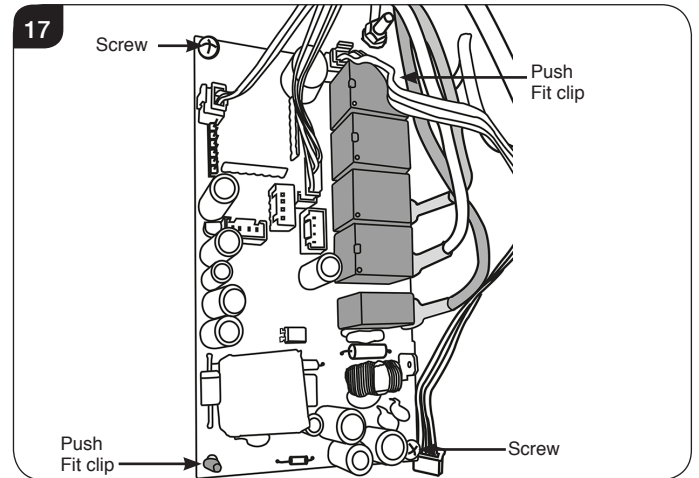
- 9.1 Remove the screws on the side of the unit with the control panel and open to reveal the PCB unit and the thermostat control board, see Diagram 16.



IMPORTANT: Make note of the wiring positions and ancillary moxex component connectors before removing any connections.

- 9.2 Carefully release the spade connectors and plugs to remove the wires from the PCB unit.

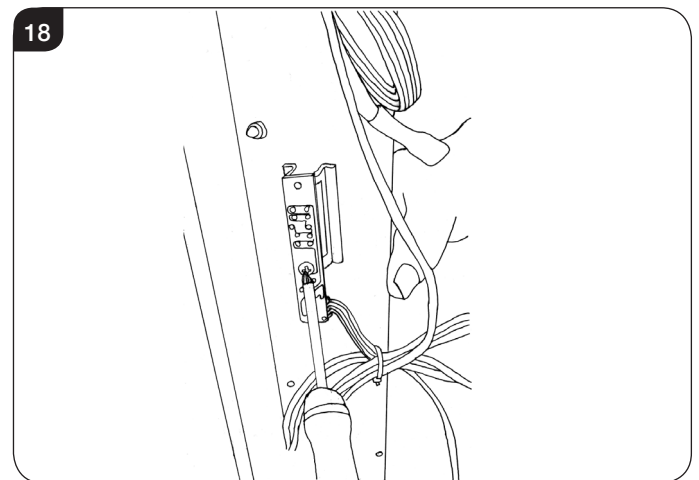
- 9.3 Unscrew the 2 diagonal fixings and 2 push fit fasteners then carefully remove the PCB unit, see Diagram 17.



- 9.4 Replace in reverse order ensuring the connections are put back in exactly the same configuration as was originally found.

10. Replacing the Thermostat Control Board

- 10.1 Remove the screws on the side of the appliance with the control panel and open to reveal the PCB unit and the thermostat control board.
- 10.2 Undo the screws on the back of the board and unclip the connector to remove the board, see Diagram 18.



- 10.3 Replace in reverse order.

Servicing Instructions

11. Accessing the Lower Assembly Bracket

The appliance has several effects which may need to be serviced including LED Boards and fans which are housed in the lower assembly bracket.

Before being able to access the effects it is necessary to remove:

The Effects Screens, see section 4.

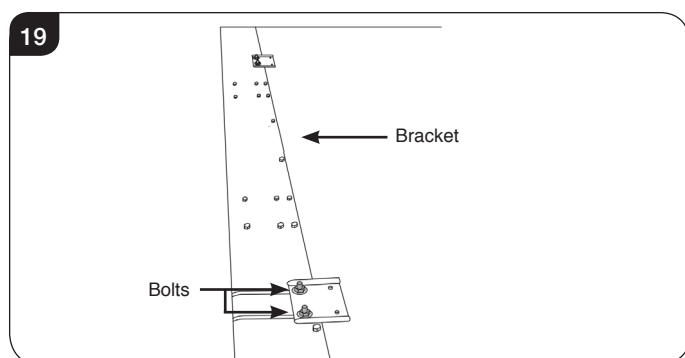
The Silk Effect, see Section 5.

Disconnect the Remote Sensor, see section 6.

The appliance sides, see section 7.

Once these have been removed carefully lie the appliance face down with the top facing away.

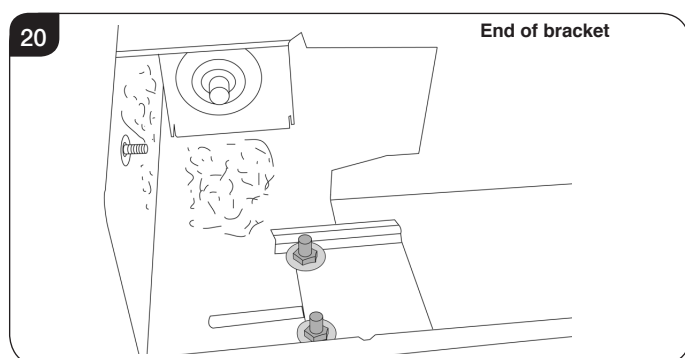
- 11.1 The Silk Flame effect and the LED boards and fans are held to the body of the appliance by several bolts and brackets, see Diagram 19.



- 11.2 The number of brackets will vary depending on the Studio model purchase:
The Studio 1 and 22 have 2 brackets.
The Studio 2 has 3 brackets.

Remove the bolts and washers and place safely to one side.

- 11.3 There is an additional set of brackets on each side of the appliance, see Diagram 20.



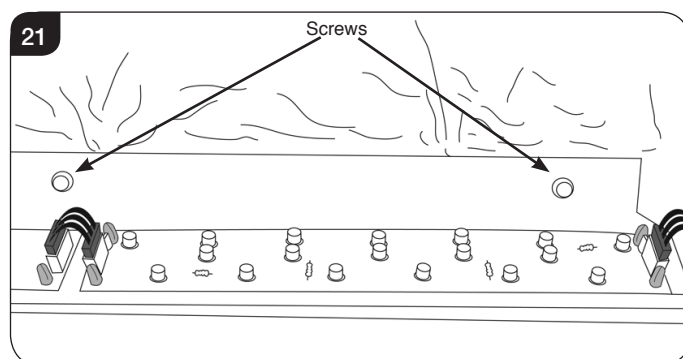
Remove the bolts and washers from these brackets and store carefully with the others.

- 11.4 Turn the appliance over.
It is now possible to remove the Fan, Silk and LED assembly.

Take care not to trap the silk when refitting the assembly, it is delicate and can be easily damaged.

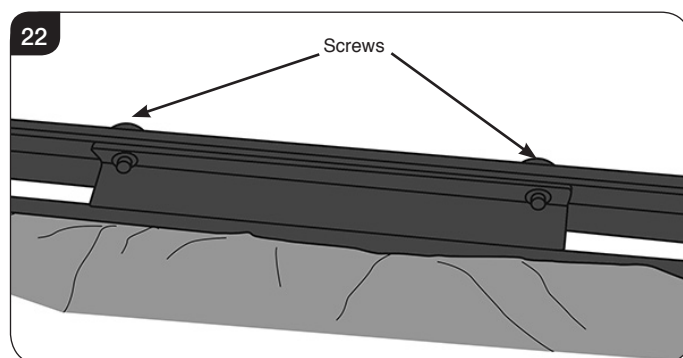
12. Removing the Silk Bracket

- 12.1 The bracket holding the silk effect and the LED boards is attached to the lower assembly bracket by screws. This number will vary depending on the appliance, see Diagram 21.



Note: The Studio 2 has air deflectors that are part of this bracket assembly. The deflectors are held in place by the screws that hold the silk bracket to the lower assembly bracket.

When removing the screws it will be necessary to support the air deflectors and then place safely to one side before continuing, see Diagram 22.



- 12.2 Once the screws are removed it is now possible to lift the silk assembly off the lower assembly bracket revealing the fans.

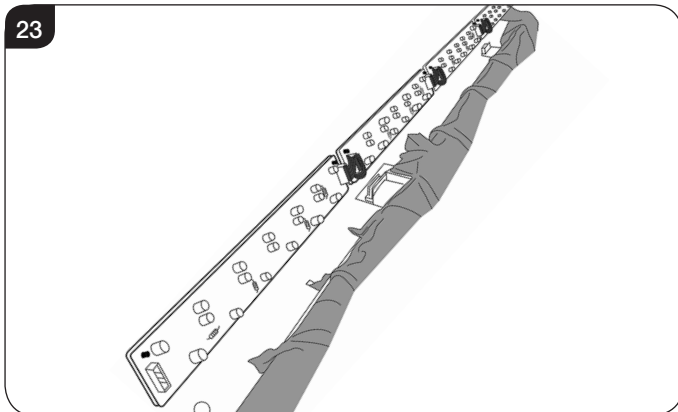
Replace in reverse order.

Servicing Instructions

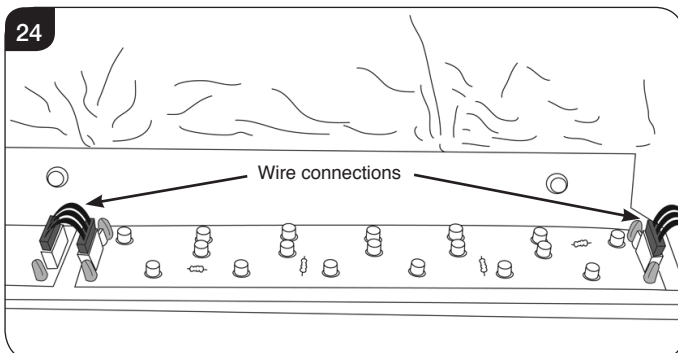
12a. Replacing the LED Effect Boards

To remove the lower assembly follow the steps in Section 10.

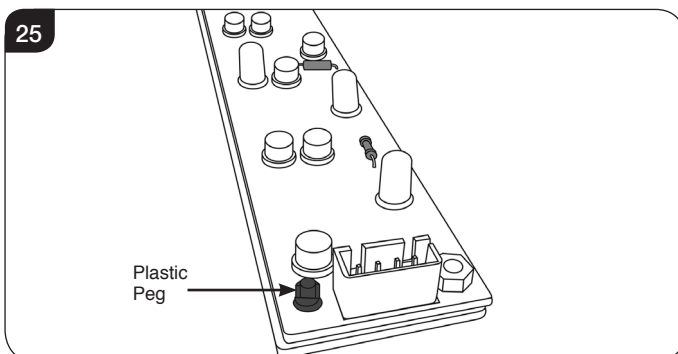
The LED boards are mounted in front of the Silk Effect, see Diagram 23.



- 12.3 Disconnect the wire connectors and push down in the centre of each plastic pegs to release the board from the bracket, see Diagram 24.



- 12.4 The boards are held on by plastic pegs, see Diagram 25.



Pressing down the middle of these pegs with a pointed tool will release the board.

- 12.5 Fit in the reverse order.

12b. Replacing the Silk Effect

The silk flame effect is factory set.

It is not possible to adjust the position of lower fixings.

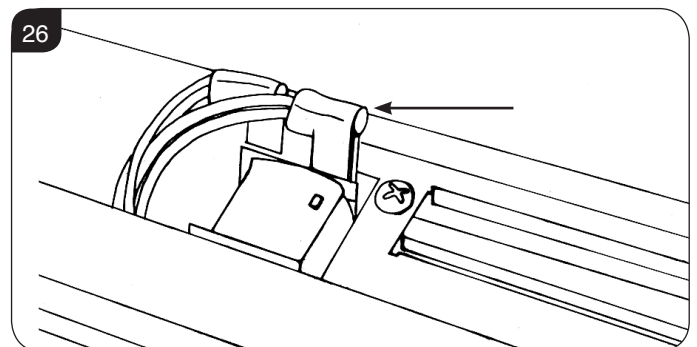
Do not remove the effect from the clamp.

12c. Replacing the Fans

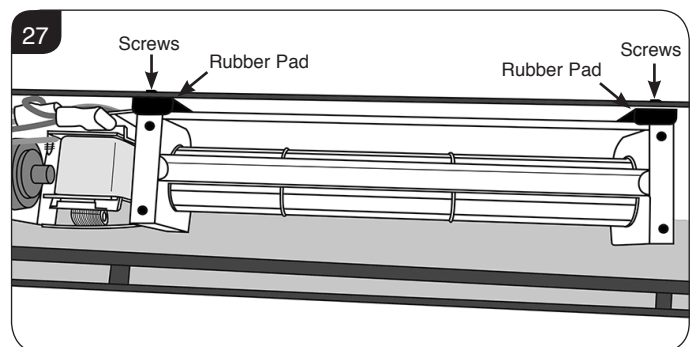
To access the fan housing it is necessary to carefully follow Section 10 to remove the lower assembly bracket.

With the Silk Assembly removed the fans can now be replaced.

- 12.6 To remove the fans it is necessary to first unplug the connectors that link them together. Carefully pull off the cable and leave to one side, see Diagram 26.



- 12.7 Each fan is secured to the lower assembly bracket by 4 screws. To remove the fan remove the screws, see Diagram 27.

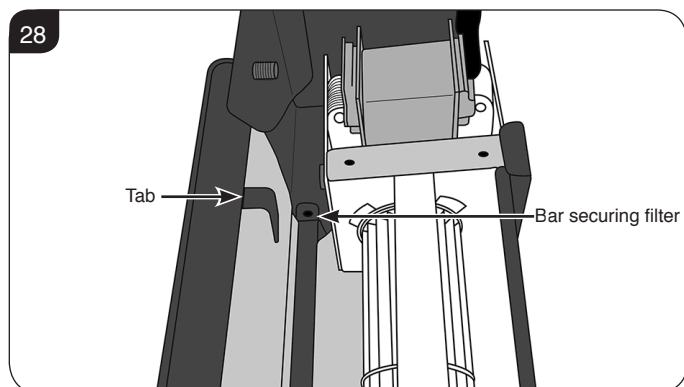


Note: There are rubber pads between the fans and the lower assembly bracket to dampen any vibration. These are held by the same screw that attaches the fan to the bracket. The pads must be carefully removed and replaced with the new fan.

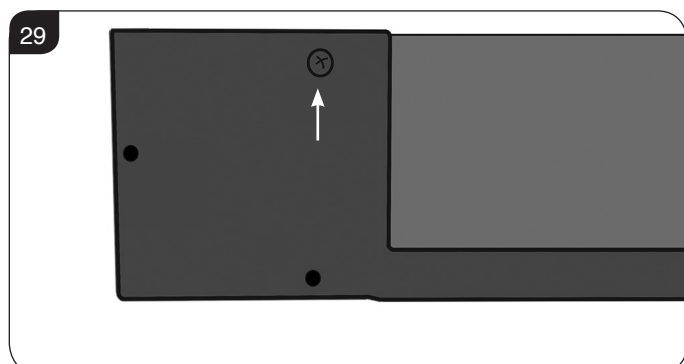
Servicing Instructions

13. Replacing the Foam Filter

- 13.1 With the fans exposed it is possible to also replace the protective foam filter at the front of the lower assembly bracket.
- 13.2 The foam filter is held in place by a bar at the bottom of the assembly and tabs on the sides, see Diagram 28.



- 13.3 The bar holding the filter is secured by 2 screws on the base of the lower assembly bracket, see Diagram 29.

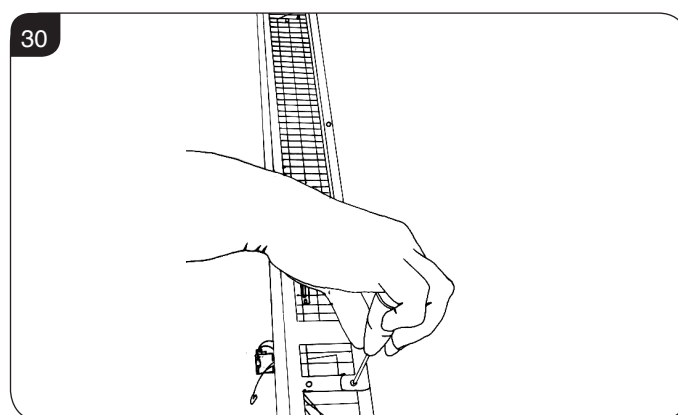


- 13.4 With the screws removed, lift the bar off and unhook the foam filter from under the tabs.
- 13.5 Replace in reverse order.

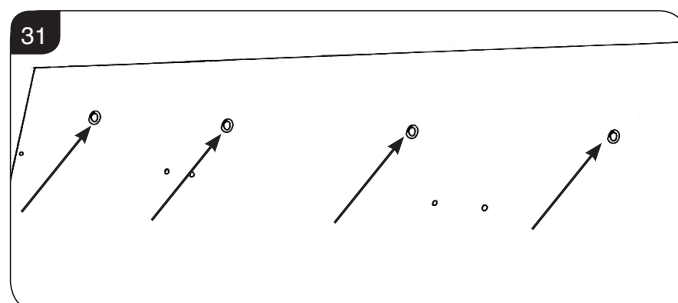
14. Replacing the Heating Element

All Models

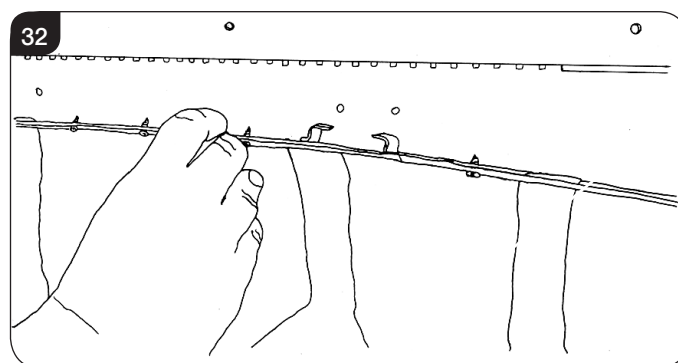
- 14.1 Before removing the element follow Section 4 - Removing the Decorative Screens and remove the top screen bracket.
- 14.2 Open the side panels - Section 7.
- 14.3 Remove the 4 screws on the top which secure the element cover, see Diagram 30.



- 14.4 Remove the screws on the back which secure the flame effect bracket, see Diagram 31.



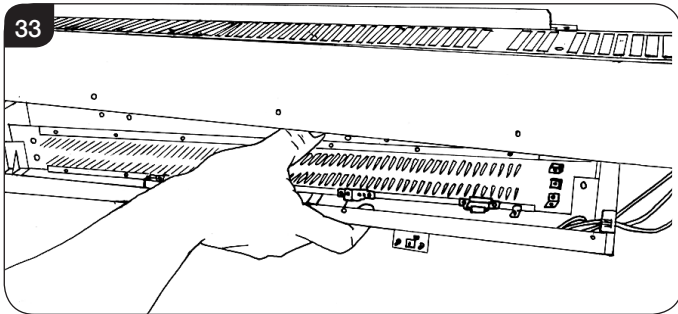
- 14.5 The flame effect can now be detached from the back of appliance and placed out of the working area, see Diagram 32.



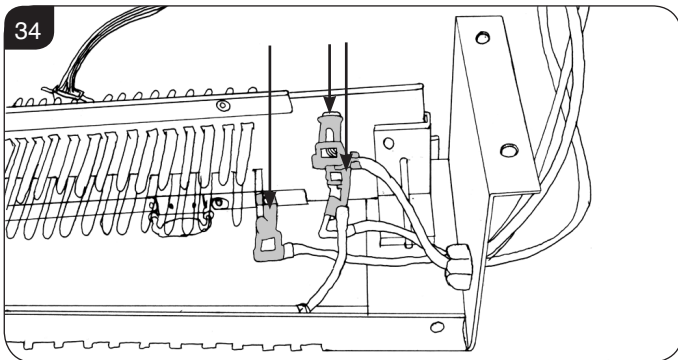
- 14.6 Lie the appliance flat on it's back once more and remove the 2 screws in the front of the appliance that hold the element in place.

Servicing Instructions

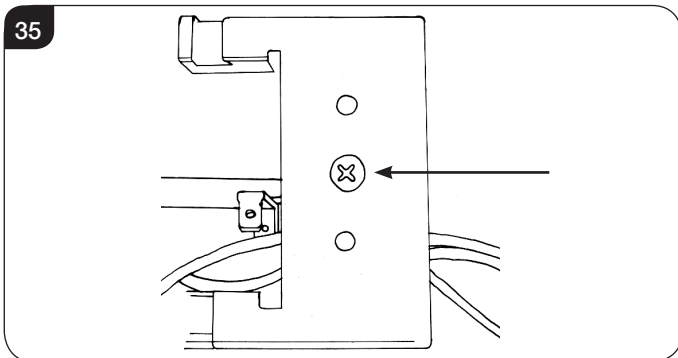
- 14.7 Ensure that the element is supported lift the appliance upright and lower the element bracket, see Diagram 32.



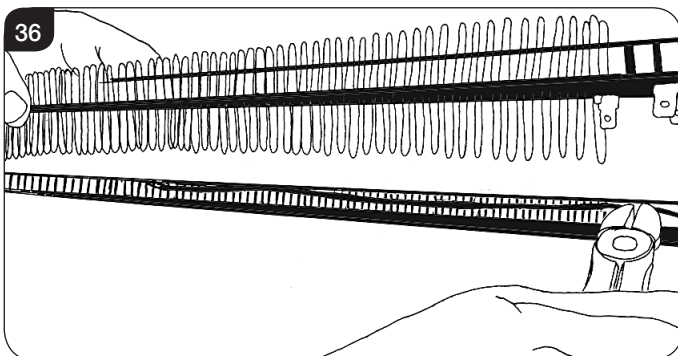
- 14.8 Carefully remove the wires on the right hand side using long nosed pliers making note of the wiring positions, see Diagram 34.



- 14.9 Remove the 2 screws on the underside of the element bracket (1 at each end), see Diagram 35.



- 14.10 Taking a wire cutter carefully cut the 3 cable ties that hold the black wire of the element in place, see Diagram 36.
CAUTION: DO NOT CUT THE WIRE.

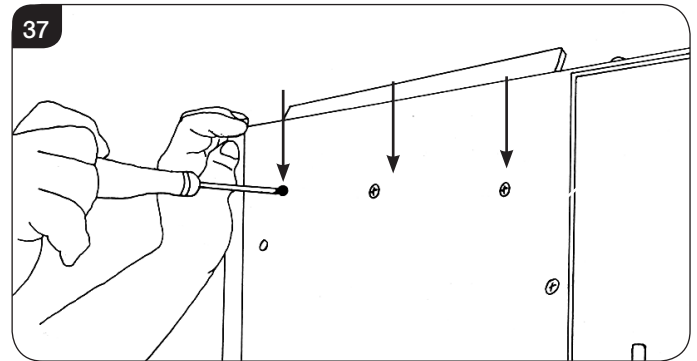


- 14.11 Remove the element.

- 14.12 Replace in reverse order.

Studio 22

- 14.13 Remove the 3 screws on the back which secure the flame effect bracket, see Diagram 37.

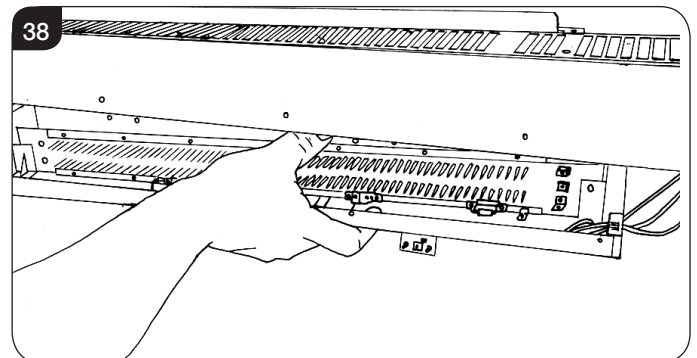


- 14.14 The flame effect can now be detached from the back of appliance and placed out of the working area.

- 14.15 Remove the screws that secure the side panel and the top 4 screws that hold the element in place.
IMPORTANT: You must support the element.

- 14.16 Open the side panel and pull the wires through carefully. Make a note of the wiring positions on the PCB unit and remove the wire. (Feed wires through and detach neutral).

- 14.17 Ensure that the element is supported lift the appliance upright and lower the element bracket, see Diagram 38.



Servicing Instructions

15. Pairing the Remote Control to the Appliance

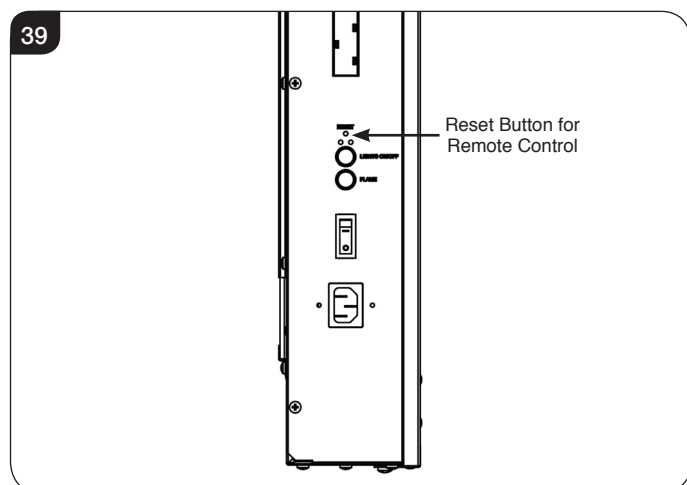
Signal Code

The below operations should be carried out before coding when changing to a new remote or the unit cannot be controlled by the remote:

The reset button is located on the control panel located on the right-hand side of the viewing window, see Diagram 39.

- 15.1 Press the reset button for 3 seconds (a pen point may be needed) until 3 short beeps sound from the unit, release the button.

Within 10 seconds, press the  button on remote. The coding is finished when 1 long beep sounds from the unit.

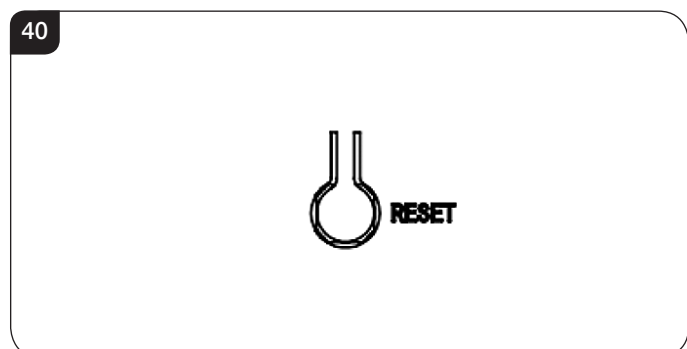


Resetting of the remote control is necessary if the appliance operates wrongly due to external interference signal and the remote control is not in use.

16. Resetting the Remote

Resetting the Remote may necessary if the appliance operates incorrectly under the signal from the Remote, or if the Remote does not operate correctly.

- 16.1 Open the back cover of the Remote.
- 16.2 Press the Reset button for 3 seconds and reset the coding, see Diagram 40.

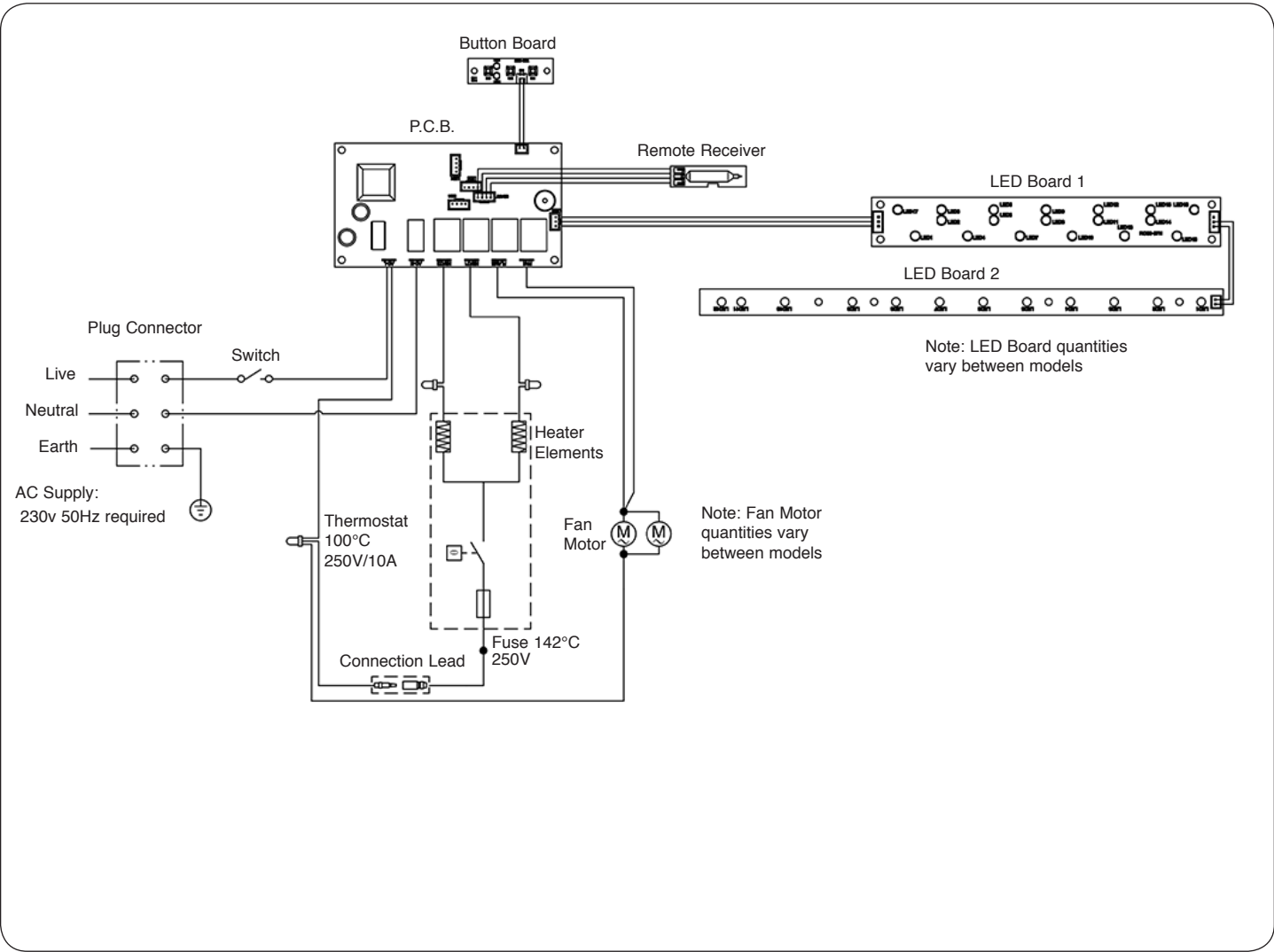


Spare Parts List

17. Basic Spare Parts List

Parts Description	Studio 1	Studio 2	Studio 22	
Main Front Screen (Outer Decorative Screen)	PL0120	PL0122	PL0124	
Front Backing Screen	PL0121	PL0123	PL0125	
Top Heater Element	EL0518		EL0532	
Light Effect LED	EL0520		EL0529 (Lower) EL0530 (Upper)	
LED Spacers	FA0667		FA0667	EL0531
Main PCB	EL0471			
RF Receiver Unit	EL0735			
Power cable (UK only) Right Angle	EL0552			
Remote Battery	EL0062 (x2)			
Remote Handset	EL0491			
Fan Assembly	EL0519 (left Hand) EL0527 (Right Hand)	EL0519 (Central) EL0525 (left Hand) EL0525 (Right Hand)	EL0527	
Rubber Fan Mount	FA0670			
White Granite Chippings (For Verve Frame)	CE0982	CE0983	CE0981	

Wiring Diagram



Information Requirement - Electric Heaters

Information Requirement for Electric Local Space Heaters

Model		Studio 1	Studio 2	Studio 22
Heat Output	Nominal Heat Output - P_{nom}	1.8kW	1.8kW	0.9kW
	Minimum Heat Output - P_{min}	1.8kW	1.8kW	0.45kW
	Maximum Continuous Heat Output - $P_{max, c}$	1.8kW	1.8kW	0.9kW

Auxiliary Electricity Consumption	At Nominal Heat Output - $e_{l_{max}}$	12.5W	12.5W	12.5W
	At Minimum Heat Output - $e_{l_{min}}$	12.0W	12.0W	12.0W
	In Standby Mode - $e_{l_{sb}}$	0.49W	0.49W	0.49W

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

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

Type of heat output/room temperature control

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

Other control options (multiple selections possible)

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

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