

# **GD13**

# Installation Guide Operating Instructions Warranty

# **GD13 Installation Guide, Operating Instructions & Warranty**

#### **IMPORTANT!**

This gas appliance must be installed to **AS/NZS 5601.1:2013** by a qualified person and in accordance with these instructions. Failure to install the appliance correctly will void your warranty and may cause a fire. This appliance should not be modified under any circumstances.

Under no circumstances should any combustibles such as paper, wood or coal be used in this appliance.

It is recommended that you have this appliance serviced annually by a qualified technician.

Warranty repairs must be carried out by a 'The Fire Dept.' authorised technician.

This appliance must ALWAYS terminate/flue outdoors.

Young children, elderly or infirm should be supervised to ensure that they are careful with the appliance.

Clothing and other flammable materials should never be placed near the appliance.

Never switch the appliance on without the glass in place.

Please note that parts (near the flame) of this appliance, particularly the steel surrounding, glass panels to the face or the door, become extremely hot during operation and can result in serious injury and burns if touched. It is therefore recommended that a fireguard complying with BS 8423:2002 is used in the presence of young children, the elderly or infirm.

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Information in this installation guide may be subject to change without notice. Please ensure that you have the current version before beginning installation.

If you have any queries, please contact 'The Fire Dept.' on 0800 888 550

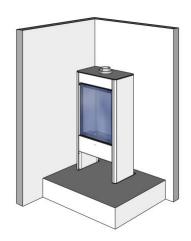


# Step 1: Unpack and ensure all components are correct and undamaged

- · Appliance.
- · Box of firebed mediums.
- Flue kit.

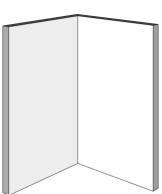
#### Step 2: Install plinth (if required)

- If the appliance is to sit on a plinth, ensure it is capable of supporting a 150kg load.
- There is no clearance requirement for the base of the appliance.
   It may safely sit directly upon combustible (eg. timber)
   and non-combustible (eg. concrete) materials.



# Step 3: Install appliance into position

- Before installation, confirm all minimum clearances from the outside surfaces of the appliance to the surrounding enclosure is no closer than 100mm from combustible materials and non-combustible materials.
- The exception to these minimum clearances is the base, the base can safely sit directly upon combustible (eg. timber) and non-combustible (eg. concrete) materials.
- The appliance is supplied with a 1000mm long braided stainless steel gas
  hose with a male gas bayonet connector that will plug into a gas bayonet
  socket (gas bayonet socket not supplied). Refer to appropriate 'The Fire Dept.' product specification for
  specific gas bayonet location requirements.
- The appliance is supplied with a 1000mm long electrical 3 core cable and 3 pin plug that will plug into the electrical wall socket (electrical wall socket not supplied). Refer to appropriate 'The Fire Dept.' product specification for specific wall socket location requirements.
- Locate appliance into position and ensure that it complies with the minimum clearances required (100mm for combustibles) to the surrounding enclosure. The exception to these minimum clearances is the base, the base can safely sit directly upon combustible (e.g. timber) and non-combustible (e.g. concrete) materials, refer to the appropriate appliance specification for the correct clearance requirements. Ensure the framing is capable of supporting a 150kg load.
- The base has 2 x 10mm holes at the back of each side.
- Mark out and drill fixing holes through the 10mm holes in the base. Ensure holes are drilled in the centre of the holes. Clear out any debris from drilling.
- Ensure the appliance is level and pack up corners to suit where necessary. Fix bolts / screws into floor. Check and ensure unit is level.
- If the electrician and/or gas fitter is available at this stage the electrical supply and gas supply can be connected and tested/commissioned (see steps 5 & 6).





#### **Glass Removal Process**

- Carefully remove glass, which is held in place by retaining clips at the top sides of the glass and powerful magnets in each lower corner.
- Remove the top retaining clips by undoing the 4mm Allen head cap screws.
- Gently pull at the top corners in a forward motion. The glass will tilt forward.



 In one movement gently pull the glass up and away from the appliance to break the magnetic connection. Take care that the glass doesn't fall completely off once it's free from the fixing magnets.

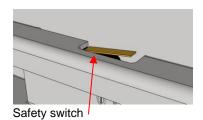


• Lift glass away from appliance and lay flat in a safe place with insulating material facing down to protect glass.



#### **Glass Installation Process**

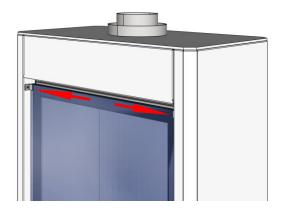
- Note: Check all glass edges and surfaces for damage. Do not install the glass if it is damaged. Check that the insulating material (ladder rope around the outer edge of the glass and around the opening of the appliance) is complete and undamaged. Do not install the glass if the insulating material is damaged or missing.
- Carefully install the glass, which is held in place by retaining clips at the top sides of the glass and powerful magnets in each lower corner.
- On the back corners of the glass there are 3mm steel magnet panels. In one
  movement, gently lower the glass down allowing the steel magnet panels to
  catch the top front face of the magnetic. Take care lowering the glass
  completely down into position. The glass will lower onto a 3mm safety
  switch. There is a safety switch at the left base of the glass panel.



Gently push the top corners of the glass back into position.



 Tighten the 4mm cap screws that hold the glass retaining clips in position. Make sure the retaining clips sit flat onto the glass surface.



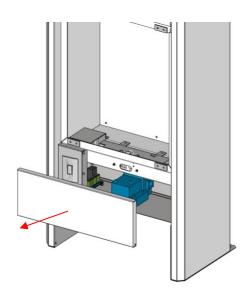


# Step 4: Install flue and connect to appliance

- Flue installation must meet the requirements of AS/NZS 5601.1:2013 and comply with all local council requirements and be installed and certified by a suitably qualified person.
- · Refer to appropriate 'The Fire Dept' product specifications for specific minimum requirements.
- A 25mm clearance from combustible materials, 75mm clearance from wiring and plastic pipes and a
  minimum of 5mm from non-combustible materials is required when installing a flue system for any appliance
  supplied by 'The Fire Dept.'.
- The flue installation requires a restriction free cavity from the top of the firebox (flue spigot) to the outside atmosphere.
- Air flow must be unobstructed from the firebox to the inner flue and from the heat shield to outer casing allowing air to circulate from the firebox to the flue casings to the atmosphere.

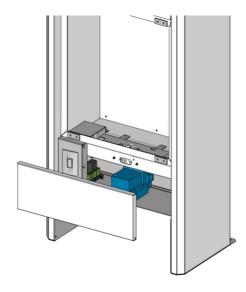
#### **Front Cover Removal Process**

Carefully remove the front cover panel, which hangs on bolts.
 Carefully lift the front panel up 10mm and pull it away from the front of the appliance in one movement.



#### **Front Cover Installation Process**

Fit the front cover, which hangs on bolts. In one movement carefully
push the panel until it meets the fixing bolts under the front opening
of the appliance.





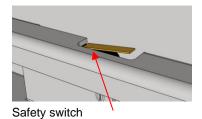
# Step 5: Connect and test electrical supply

- All electrical connections must meet the requirements of AS/NZS 3000 standards and be installed and certified by a suitably qualified person.
- The appliance is supplied with 1000mm of 3-core cable to a 3 pin plug that will plug into the electrical wall socket (electrical wall socket not supplied).
- The appliance can also be hard-wired into the building if required.
- In order to access the electricals, it is necessary to first remove the glass and the front cover.
- Follow the 'Glass Removal Process' and the 'Front Cover Removal Process' in this guide.
- With the front cover removed the electrical connections in the appliance can be seen.
- Following these connection details, using the 3-core cable from the appliance, remove the 3-pin plug and hard wire the cable into the building.
- IMPORTANT: Before testing, ensure the gas valve is turned OFF.





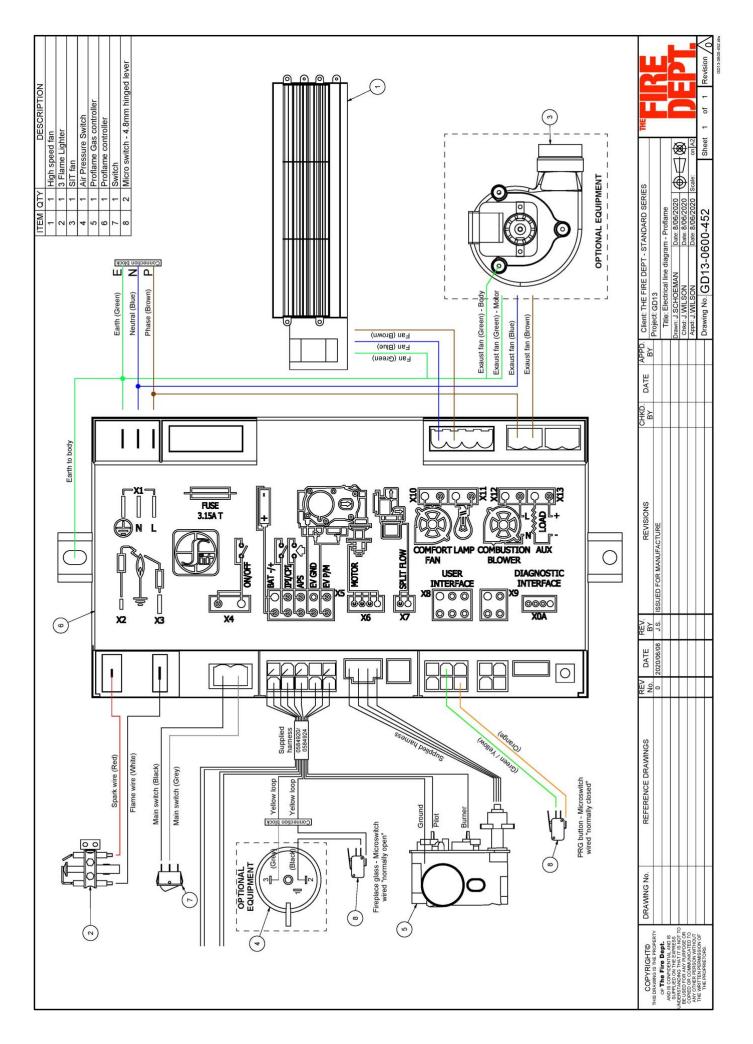
 GD13 models have a glass failure safety switch at the base of the opening. The safety switch turns the appliance off if the glass is not in position. The safety switch will need to be held down to complete electrical testing. It is recommended that masking tape is used to hold the safety down.



NOTE: The masking tape must be removed once testing is completed.

- Test electrical functions by switching the wall isolation switch to the appliance ON.
- Using the remote control, switch the appliance ON, following the 'GD13 Operating Instructions' in this
  guide.
- The fan will start and after approximately 25 seconds, the pilot will spark. Because the gas supply is turned off, the pilot will spark for approximately 25 seconds then automatically switch off.
- Using the remote control switch the appliance OFF, following the 'GD13 Operating Instructions' in this guide.
- Switch the wall isolation switch to the appliance OFF. Electrical testing is complete.
- Install the front cover by following the 'Front Cover Installation Process' in this guide.
- NOTE: The masking tape must be removed once testing is completed.
- Carefully install glass by following the 'Glass installation process' in this guide.



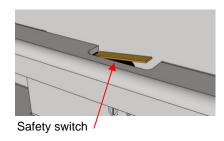




## Step 6: Connect gas supply and commission

- Gas installation, connection and commissioning must meet the requirements of AS/NZS 5601.1:2013 and be installed and certified by a suitably qualified person.
- In order to access the testing area, it is necessary to first remove the glass and the front cover.
- Follow the 'Glass installation process' in this guide.
- Remove the front cover by following the 'Front Cover Removal Process' in this guide.
- Connect the braided stainless steel gas hose with a male gas bayonet connector into a gas bayonet socket (gas bayonet socket not supplied).
- Leak test all joints.
- GD13 models have a glass failure safety switch at the base of the opening. The safety switch turns the appliance off if the glass is not in position. The safety switch will need to be held down to complete commissioning. It is recommended that masking tape is used to hold the safety switch down.
- NOTE: The masking tape must be removed once testing is completed.
- Switch the wall isolation switch to the appliance ON.
- Using the remote control, switch the appliance ON, following the 'GD13 Operating Instructions' in this guide.
- Test pressure against rating plate specifications.







- The GD13 has an input of 15-20MJ/h from one gas injector at the pilot side of the burner tray.
- Using the remote control, switch the appliance OFF, following the 'GD13 Operating Instructions' in this guide.
- Install the front cover by following the 'Front Cover Installation Process' in this guide.
- · Using the remote control, switch the appliance ON
- In the unlikely event that the rating plate is not attached, **Do Not** commission the appliance and contact The Fire Dept. immediately.
- Note: due to lack of firebed and glass, it may be necessary to manually light burners.



**Burner exposed** 



**Burner with vermiculite** 

- Using the remote control, switch the appliance OFF following the 'GD13 Operating Instructions' in this
  quide.
- · Switch the wall isolation switch to the appliance OFF
- Lay firebed in accordance with instructions in Step 7 of this guide.
- NOTE: The masking tape must be removed once testing is completed.
- Carefully install glass by following the 'Glass installation process' in this guide.
- Send gas certificate to appropriate person.



# Step 7: Lay the firebed

- The GD13 has a River Rocks firebed.
- Particular care should be taken when placing the firebed mediums into the burner tray. Failure to place the medium correctly may result in the fire performing inefficiently.
- Open the firebed cardboard box and identify firebox mediums.

#### River Rocks have two firebed mediums:

Vermiculite – 1 bag.

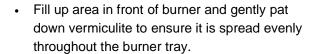
White rocks - large and small.

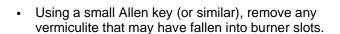


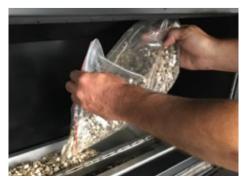


# How to lay Vermiculite

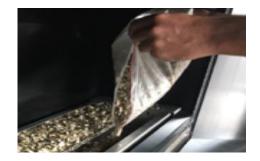
- In order to access the burner, it is necessary to first remove the glass.
- Follow the 'Glass removal process' in this guide.
- · Lift glass away from the appliance and lay flat in a safe place with insulating material facing down.
- Beginning in the middle at the back of the burner, carefully empty the bags of vermiculite into the burner tray.
- Ensure not to spill any vermiculite in cavities in front of and behind burner tray.
- Do not pour vermiculite directly into burner slots.
- Fill area behind burner up to top of burner tray.
   Use hand to spread out and push under burner.













· Vermiculite layer complete.





# How to lay River Rocks

Lay large rocks first, in these positions.



· Lay small rocks next, in these positions.



 With glass still removed, the safety switch held down with masking tape, using the remote control, switch the appliance ON, following the 'GD13 Operating Instructions' in this guide to check how flame looks. The flame will take 20-25 seconds to light fully.



- IMPORTANT: the flame effect should look natural and non-uniform, running the entire length of the burner.
- · Common flame effect issues are:
  - o Flame touching edge of burner tray.
  - Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance OFF and slightly repositioning rocks at the problem areas. Follow the 'GD13 Operating Instructions' in this guide.
- Repeat this switching On/Off and repositioning until a natural and non-uniform flame effect is achieved.
- Once a natural and non-uniform flame effect is achieved, switch the appliance to the lowest setting and ensure the flame effect, although smaller, still looks good.
- Switch the appliance OFF, remove masking tape over safety switch and carefully install glass by following the 'Glass installation process' in this guide.
- Switch the appliance ON and then down to the lowest setting to check that flame effect still looks natural and non-uniform.
- Using the remote control, switch the appliance OFF following the 'GD13 Operating Instructions' in this
  guide.
- · Switch the wall isolation switch to the appliance OFF.
- Note: It is normal for the glass to mist a little when the appliance is first switched ON. This will quickly disappear.



# Step 8: Show owner how to operate appliance

- Following the GD13 Operating Instructions on the next page, show the owner how to switch the appliance ON and OFF using the remote control and how to switch between HIGH and LOW settings.
- If the owner is not available, leave this manual by the appliance.

**NOTES:** 



#### **GD13 OPERATING INSTRUCTIONS**

#### **READ THIS FIRST**

First of all, thank you for choosing a Fire Dept. appliance. We're sure you'll be very happy with it.

Taking just a little time to understand how to 'drive' your remote control will be highly useful.

#### Your remote control has three modes:

- 1. Thermostat OFF (a manual mode, where you have maximum control over flame height and fan speed/noise)
- 2. Thermostat ON
- 3. Thermostat SMART

Heat output is provided by a combination of flame height and comfort fan speed (that's the fan inside your appliance). Put simply, the higher the flame height and the faster the fan, the more heat output (and vice versa).

So, if like many, you'd like to heat your room up quickly, simply turn both the flame height and fan speed up. Then, once you have the room at your desired temperature and you'd still like to look at a nice flame, turn the fan speed down - not too much heat and quieter too.

**Note:** If you're using the thermostat functions, the flame may automatically switch off when your room has reached your desired temperature. If you'd like the flame back, simply switch to manual mode and switch the flame on again.

This appliance is operated by a remote control (you have a spare one too) which also functions as a room thermostat. Power to this appliance is provided by a wall isolation switch, which must have been installed by a qualified electrician.

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The remote control has the following functions:

- 1. Switching the appliance On/Off
- 2. Adjusting flame levels
- 3. Adjusting fan speeds
- 4. Adjusting thermostat levels
- 5. Adjusting 'Smart Thermostat' levels
- 6. Key lock
- 7. Low battery power detection
- 8. Selecting Continuous Pilot Ignition (CPI) or Intermittent Pilot Ignition (IPI)
- 9. Adjusting appliance dimmer lighting (not used on this appliance)
- 10. Controlling secondary burner (not used on this appliance)
- 11. Controlling auxiliary functions (not used on this appliance)
- 12. What happens if I break/lose my remote control?



The remote control has a simple button key layout and an LCD display (Fig. 1). A Mode Key is provided to move between features and a Thermostat Key is used to control thermostat functions (Fig. 1 & 2). Additionally, a Key Lock function is provided (Fig. 7).



Fig. 1: Remote Control (powered by 3 x AAA batteries)

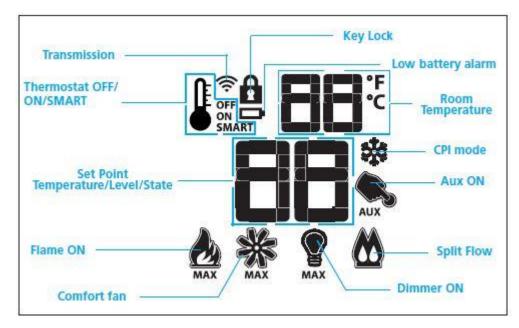


Fig. 2: Remote Control LCD Display

#### 1. Switching the Appliance On/Off

**To switch the appliance ON,** first of all, ensure that the wall isolation switch is in the 'ON' position. Then press the On/Off Key on the remote control. The appliance will 'beep', the LCD display will display several active icons/room temperature **AND WILL IGNITE AFTER 20-25 SECONDS.** 

**To switch the appliance OFF**, Press the On/Off Key on the remote control. The appliance will 'beep', immediately switch off and the LCD display will now only display the room temperature.

Note: the flue fan may continue to run for a few minutes.



#### 2. Adjusting Flame Levels

This appliance has **six** flame levels, which can be controlled in both 'OFF' and 'ON' modes (but not in 'SMART' mode). With the appliance on, and the flame level at maximum, pressing the Down Arrow Key once will reduce the flame height by one step until the flame is turned off.

The Up Arrow Key will increase the flame height each time it is pressed (Fig 3). If the Up Arrow Key is pressed while the appliance is switched on, but the flame is off, the flame will come on in the high position. A single 'beep' will confirm reception of each command.



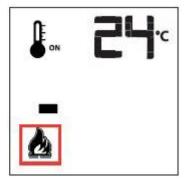


Fig. 3:

Flame Off

Flame On





#### 3. Adjusting Fan Speeds

This appliance has **six** fan speeds. To adjust the fan speed, press the Mode Key (Fig. 1) until the fan control icon appears (Fig. 4). Use the up/down Arrow Keys to switch the fan on/off or adjust the fan speed. A single 'beep' will confirm reception of each command.





Fig. 4: Fan Speed LCD Display



#### 4. Adjusting Thermostat Levels

The remote control can be used as room thermostat, which can set to a desired temperature to control the comfort level in a room. To activate this function, press the Thermostat Key (Fig. 1). The LCD on the remote will change to show that the room thermostat is 'On' and the set temperature is now displayed (Fig. 5). To adjust the set temperature, press the up or down until the desired set temperature on the LCD screen.

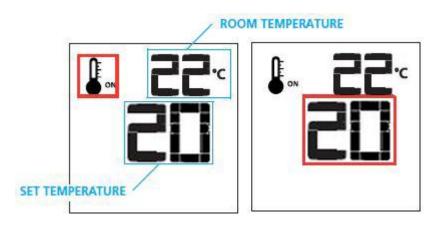


Fig. 5: Thermostat LCD Display

#### 5. Adjusting 'Smart Thermostat' Levels

The Smart Thermostat function adjusts the flame height in accordance with the difference between the set temperature and the actual room temperature. As the room temperature gets closer to the set temperature the flame will modulate down. To activate this function, press the Thermostat Key (Fig. 1) until the word 'SMART' appears to the right of the thermometer graphic (Fig. 6).





Fig. 6: Smart Thermostat LCD Display

The comfort fan will take five minutes before it starts when in thermostat 'ON' or SMART modes.

#### 6. Key Lock

This function locks the keys to avoid unsupervised operation. To activate this function, press the MODE and UP Keys at the same time (Fig. 7). To de-activate this function, press the MODE and UP Keys at the same time.



Fig. 7: Key Lock LCD Display



#### 7. Low Battery Power Detection

The lifespan of the remote control batteries (3 x AAA) depends upon various factors – quality of the batteries, number of appliance ignitions, number of thermostat set point changes, etc. When the batteries are low, a battery icon will appear the on the LCD display (Fig. 8) before all battery power is lost. When the batteries are replaced this icon will disappear. It is recommended to change the batteries as soon as the battery icon appears.



Fig. 8: Low Battery Power Detection LCD Display

#### 8. Selecting Intermittent Pilot Ignition (IPI) or Continuous Pilot Ignition (CPI)

This appliance has two pilot light settings – IPI and CPI. The default setting is IPI. If you live in a VERY cold environment, it can be changed to CPI, which allows easier lighting.

\*\* This is most-likely a feature you will never need to change from the default IPI setting. \*\*

In the unlikely event you do need to change it, with the system in the 'Off' position, press the Mode Key (Fig. 1) to arrive at the CPI mode icon (Fig. 9). Pressing the Up Arrow Key will activate the Continuous Pilot Ignition mode (CPI). Pressing the Down Arrow Key will return to Intermittent Pilot Ignition (IPI) mode.

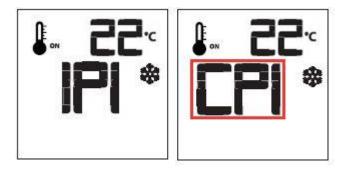


Fig. 9: IPI/CPI LCD Display

## 9. Adjusting Appliance Dimmer Lighting (Not Used on this Appliance)

This appliance does not have dimmer lighting. However, you may wish to add lighting that can be operated by the remote control by engaging a qualified electrician.

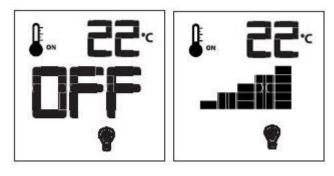


Fig. 10: Dimmer Lighting LCD Display



#### 10. Controlling Secondary Burner (Not Used on this Appliance)

This appliance does not have a secondary burner. Ignore this function.

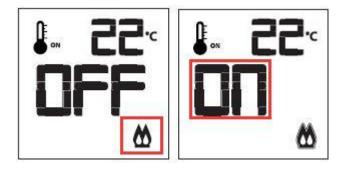


Fig. 11: Secondary Burner LCD Display

#### 11. Controlling Auxiliary Functions (Not Used on this Appliance)

This appliance does not have auxiliary functions. Ignore this function.

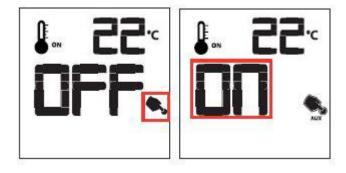


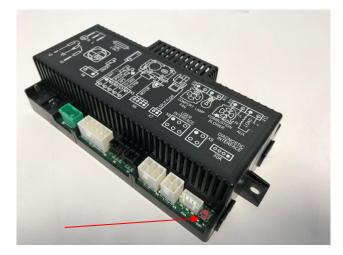
Fig. 12: Auxiliary Functions LCD Display

#### 12. What happens if I break/lose my remote control?

Use your spare remote control that was delivered with your appliance, which you will have to 'pair' to your appliance (much like pairing a Bluetooth device to a mobile phone).

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In order to pair your spare remote control, you'll need to access the control box located behind the front cover. Remove the glass and the front cover by following the 'Glass removal Process' and the 'Front Cover Removal Process' in this guide then press the red button ONCE and then switch your remote control on, then off, then on again.





# **TROUBLESHOOTING**

Problem	Probable Cause	Action
Appliance doesn't start	<ol> <li>No gas supply</li> <li>No power supply</li> <li>Low or poor pilot flame</li> <li>Signal from flame rectifier interrupted</li> <li>Signal to sparker electrode interrupted</li> <li>Incorrect sparker electrode gap</li> <li>Glass not correctly positioned</li> <li>Remote control batteries are flat</li> </ol>	<ol> <li>Check gas supply</li> <li>Check power supply</li> <li>Check flame size and pressure</li> <li>Check flame rectifier and wire to sit pack</li> <li>Check sparker gap and wire to sit pack</li> <li>Check sparker electrode gap is 3mm</li> <li>Reposition glass</li> <li>Replace batteries</li> </ol>
Appliance shuts down	Low gas supply     Low or poor pilot flame     Signal to flame rectifier interrupted	Check gas supply     Check flame size and pilot flame pressure     Check flame rectifier and wire to sit pack
Flame in not running the full length of the recessed burner	The firebed is not aligned to the burner     NG jet brass nut not adjusted correctly	Re-lay the firebed to the specific model specifications detailed earlier in this guide     NG adjustment see Burner installation process
Flame is yellow and sooty	Primary aeration ports have a blockage (LPG models only)     The firebed is not aligned to the burner	Check primary aeration ports for blockage and clear if required (LPG models only)     Re-lay the firebed to the specific model specifications detailed earlier in this guide
No flame at the pilot	Primary aeration ports have a blockage	Check primary aeration ports for blockage and clear if required



Version: August 2020

#### PRODUCT WARRANTY

**IMPORTANT**: Evidence of original purchase is required for warranty service.

WARRANTOR: 'The Fire Dept.' (Landscape Elements Ltd)

85 Newton Road Mount Maunganui

PO Box 10275, Bayfair, Mount Maunganui

#### **ELEMENT OF WARRANTY**

'The Fire Dept.' warrants to the original retail owner for the duration of this warranty, it's fireboxes, gas burner tray, lighters, (herein after referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

#### WARRANTY

This warranty will be deemed invalid if the Product is;

- (A) Installed by someone other than an authorised Fire Dept agent.
- (B) Not operated appropriately or "over-fired" in a manner resulting in the firebox operating excessively hot.
- (C) Not serviced and maintained by a certified gas fitter every 12 months.
- (D) Damaged by accident, neglect or misuse,
- (E) Repaired by someone other than an authorised Fire Dept repair agent for a defect or malfunction covered by this warranty.
- (F) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by 'The Fire Dept.'.
- (G) The product contains fire bricks and has not been subjected to the recommended first start-up and run-in procedure.
- (H) Used in conjunction with any equipment or parts or as part of a system not manufactured or supplied by 'The Fire Dept.'.
- (I) External powder-coating within 200m of the high tide mark and not lightly washed with warm soapy water every three months.

#### Indoor appliances (Gas & Wood)

'The Fire Dept.'. warrants the mild steel firebox, galvanised steel outer skin and RHS Duragal steel support frame against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 5 (five) years. Beyond normal heat-induced staining, tarnishing and mild warping, if a firebox, outer skin or support frame defect occurs, contact 'The Fire Dept.' and the defect will be repaired or replaced at our discretion with all costs covered.

'The Fire Dept.' warrants the SIT Pack (Gas regulator and controller) against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 2 (two) years.

Components including fire medium, fans, tiles, glass, remote control and glass trim are warranted for a period of 2 (two) years from the date of original purchase, against defective materials and workmanship.

#### **Outdoor appliances (Gas & Wood)**

'The Fire Dept.' warrants the Mild Steel firebox, galvanised steel outer skin and RHS Duragal Steel support frame against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 2 (two) years. Beyond normal heat-induced staining, tarnishing and mild warping, If a firebox, outer skin or support frame defect occurs, contact 'The Fire Dept.' and the defect will be repaired or replaced at our discretion with all costs covered.

'The Fire Dept.' warrants the SIT Pack (Gas regulator and controller) against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 2 (two) years.

Components including fire medium, fans, tiles, glass and glass trim are warranted for a period of 2 (two) years from the date of original purchase for domestic use, against defective materials and workmanship.

#### STATEMENT OF REMEDY

In the event that the Product does not conform to this warranty at any time while this warranty is in effect, the Warrantor, at its discretion, will repair the defect or replace the part and return it to you without charge for parts or service. This warranty does not provide for reimbursement or payment of incidental or consequential damages.

This warranty does not in any way affect your rights under the Consumers Guarantee Act (New Zealand).

