

GD10

Installation Guide
Operating Instructions
Warranty

GD10 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.

Please note that parts (near the flame) of this appliance, particularly the steel surrounding, all panels to the face or around the front, 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.

During the installation of this appliance, it may be necessary to manually handle heavy components (greater than 25kg). It is the installer's responsibility to ensure appropriate manual-handling techniques are employed.

NOTE: This GD10 appliance is fitted with an Oxyprotector (Oxygen depletion) pilot. Under NO circumstances should this pilot be replaced or removed.

The GD10 installation process consists of 7 steps

	Page
Step 1: Ensure all components are correct and undamaged	3
Step 2: Install plinth (if required)	3
Step 3: Install appliance into cavity	3
Burner tray removal process	4
Burner tray installation process	5
Weather housing	6
Step 4: Connect and test electrical supply	8
Step 5: Connect gas supply and commission	10
Step 6: Lay the firebed	13
How to lay River Rocks firebed	15
How to lay Beach Driftwood firebed	17
How to lay Forest Logs firebed	19
Step 7: Show owner how to operate appliance	19
Operating Instructions.	20
Troubleshooting	20
Warranty	21

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

2

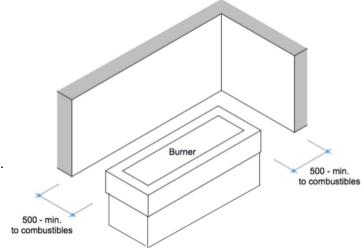


Step 1: Unpack and ensure all components are correct and undamaged

- · Appliance.
- · Weather cover.
- · Box of firebed mediums.

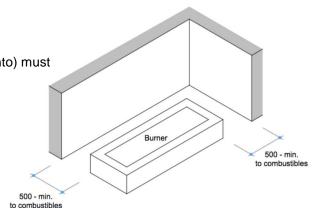
Step 2: Install plinth (if required)

- If the table is to sit on a plinth, ensure it is capable of supporting a 200kg 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

- Important: The position (that the appliance is to be installed onto) must be weather-tight and free-draining and comply with the requirements of the New Zealand Building Codes E2 (External Moisture).
- Before installation, confirm all minimum clearances from the outside surfaces of the appliance to the surrounding enclosure are no closer than 500mm from combustible materials.



- The exception to these minimum clearances is the base and the front surround panels of the appliance. The
 base can safely sit directly upon combustible (e.g. timber) and non-combustible (e.g. concrete) materials.
- Check appropriate appliance specifications for air requirements.
- If a gas supply pipe has already been run to the cavity, ensure 1000mm of 3/8 soft copper tube is available at the centre of the cavity, as this is where the copper tube with the gas supply enters the appliance.
- If an electrical supply cable has already been run to the cavity (must be a minimum of 1.0mm 4- core cable), ensure that the cable reaches the centre of the cavity, as this is where it will enter the appliance.
- In order to access the fixing slots in the base of the appliance, and the gas and electrical connections, it is
 necessary to first remove the burner tray.

Important Safety Note: It may be necessary to manually handle heavy components (greater than 25kg). It is the installer's responsibility to ensure appropriate manual-handling techniques are employed.

3

FIRE DEPT.

Burner Tray Removal Process

GD10 Pilot cover This model has one pilot Cover. GD10 Burner end caps This model has two end cap covers, one at each side of the burner. Covers, one at each side of the burner. Cover and end cap removal Pilot cover (2 x screws) at the pilot end of the pilot end of the burner end caps (3 x screws on each cap) at either end of the burner tray. Non pilot burner end. Pilot burner end. Pilot burner end.

	LPG	Natural Gas
GD10 1200 Input 35-45 MJ/h One gas injector at the pilot side of the burner tray.	 Remove the burner tray by carefully pushing it away from the pilot and lift the pilot end of the burner tray, lift the burner tray up and away from the pilot in one movement. Stand the burner tray on its end and lean against a stable surface. 	 Remove the burner tray by carefully pushing it away from the pilot and lift the pilot end of the burner tray, lift the burner tray up and away from the pilot in one movement. Stand the burner tray on its end and lean against a stable surface.
Input 45-55 MJ/h Two gas injectors one at the right and one at left hand sides of the burner tray. GD10 2000 Input 55-65 MJ/h Two gas injectors one at the right and one at left hand sides of the burner tray.	 Remove the burner tray by carefully pushing it away from the pilot and lift the pilot end of the burner tray, lift the burner tray up and away from the pilot in one movement. Ensure that the gas injector at the left hand side is not damaged as the burner tray is lifted out. Stand the burner tray on its end and lean against a stable surface. 	On the pilot side gas injector, loosen and spin back the 12mm brass nut away from the burner tray. Pilot side Gas Injector On the non-pilot side injector, loosen both the 12mm brass nuts all the way to the end of the injector. The injector will need to be pushed away from the burner tray. Non-pilot side gas Injector Remove the burner tray by carefully pushing it away from the pilot and lift the pilot end of the burner tray, lift the burner tray up and away from the pilot in one movement. Stand the burner tray on its end and lean against a stable surface.

Burner Tray Installation Process

	LPG	Natural Gas
GD10 1200 Input 35-45 MJ/h One gas injector at the pilot side of the burner tray.	 Install the burner tray by carefully lowering the end opposite from the pilot meanwhile holding up the pilot end, lower the burner tray down and move towards the pilot in one movement. Ensure the burner tray is located correctly into the burner bracket and the jets are aiming into the burner tube inlet holes. 	 Install the burner tray by carefully lowering the end opposite from the pilot meanwhile holding up the pilot end, lower the burner tray down and move towards the pilot in one movement. Ensure the burner tray is located correctly into the burner bracket and the jets are aiming into the burner tube inlet holes. On the pilot side gas injector, gently tighten (do not over tighten) the 12mm brass nut closest to the burner tray.
GD10 1400 Input 45-55 MJ/h Two gas injectors one at the right and one at left hand sides of the burner tray.	Install the burner tray by carefully lowering the end opposite from the pilot meanwhile holding up the pilot end, lower the burner tray down and move towards the pilot in one movement. Ensure the burner tray is located correctly into the burner bracket and the jets are aiming into the burner tube inlet holes.	 Install the burner tray by carefully lowering the end opposite from the pilot meanwhile holding up the pilot end, lower the burner tray down and move towards the pilot in one movement. Ensure the burner tray is located correctly into the burner bracket and the jets are aiming into the burner tube inlet holes. On the non-pilot side injector, gently tighten both the 12mm brass nuts. The injector will pull towards the burner tray.
GD10 2000 Input 55-65 MJ/h Two gas injectors one at the right and one at left hand sides of the burner tray.		On both the non-pilot and pilot side gas injectors, gently tighten (do not over tighten) the 12mm brass nuts closest to the burner tray. Non-pilot side Gas Injector Pilot side Gas Injector

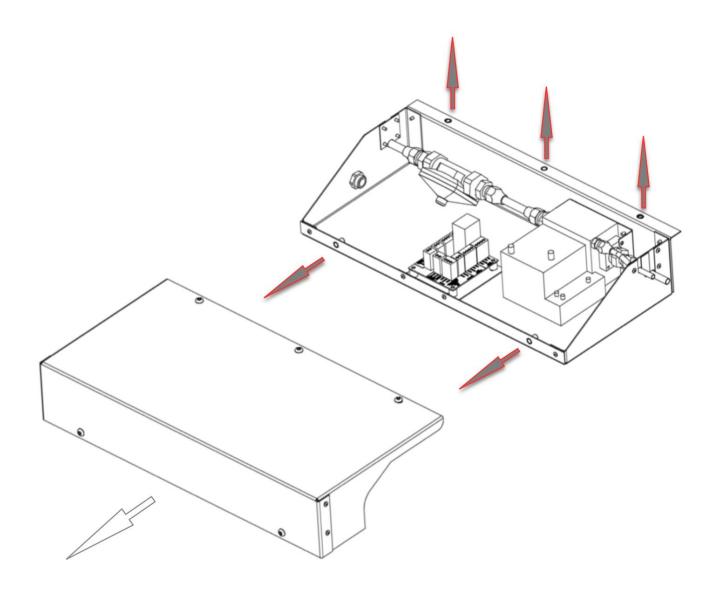
	, ,	•	•
	Cover and end cap installation		
GD10 Oxygen Depletion Pilot	Under NO circumstances should the pilot be replaced or removed.		15
		Oxygen de	pletion pilot
GD10 Pilot cover This model has one pilot cover.	Replace the stainless steel pilot cover (2 x screws) at the pilot end of the burner.	9	
		Pilot cover	
GD10 Burner end caps This model has two end cap covers, One at each side of the burner	Replace the stainless steel burner end caps (3 x screws on each cap) at either end of the burner.		
	Non pi	lot burner end cap	Pilot burner end ca

5



Weather Housing

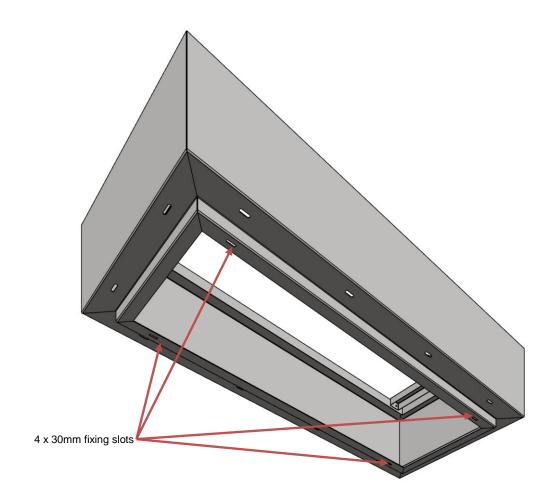
- The gas supply pipe will need to be run into the weather housing under the burner, as this is where the copper tube with the gas supply connects to the burner.
- The electrical supply cable will need to be run into the weather housing (must be a minimum of 1.0mm 4-core cable), ensure 1000mm of cable is at the centre of the cavity, as this is where it will connect to the burner.
- In order to access the gas and electrical connections inside the weather housing, it is necessary to first remove the burner.
- Remove the outer front cover (3 x screws across the top and 2 x screws across the front).
- To refit the outer front cover, simply reverse the removal process.



6



- Locate appliance into position and ensure that it complies with the minimum clearances required (500mm for combustibles) to the surrounding enclosure. The exception to these minimum clearances is the base and the front surround panels of the fire, the base can safely sit directly upon combustible (e.g. timber) and noncombustible (e.g. concrete) materials, refer to the appropriate appliance specification for the correct clearance requirements. Ensure the framing is capable of supporting a 200kg load.
- In order to provide maximum positioning flexibility, the base of the appliance has four 30mm long fixing slots at each end.
- The four fixing slots will fix the appliance into position. Mark out and drill fixing holes through the 30mm slots
 in the base of the appliance. Ensure holes are drilled in the centre of the slots to allow maximum positioning
 flexibility. Clear out any debris from drilling.



• Ensure the appliance is level and pack up corners to suit where necessary. Check and ensure unit is level.

7

- Once the appliance is level, fix bolts/screws into hearth.
- Replace the burner tray by following the 'Burner Tray Installation Process' in this guide.



Step 4: 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.
- In order to access the electricals, it is necessary to first remove the burner tray and weather housing front cover.
- Remove the burner tray and weather housing front cover by following the 'Burner Tray Removal Process' and 'Weather Housing' of this guide.
- With the burner tray and weather housing front cover removed the electrical connections between the appliance and the switch can be seen, use 4-core (minimum 1mm) cable.
- Following these connection details, using the 4-core cable that has been run at site, connect the switch to the appliance.
- IMPORTANT: Before testing, ensure the gas valve is turned off.

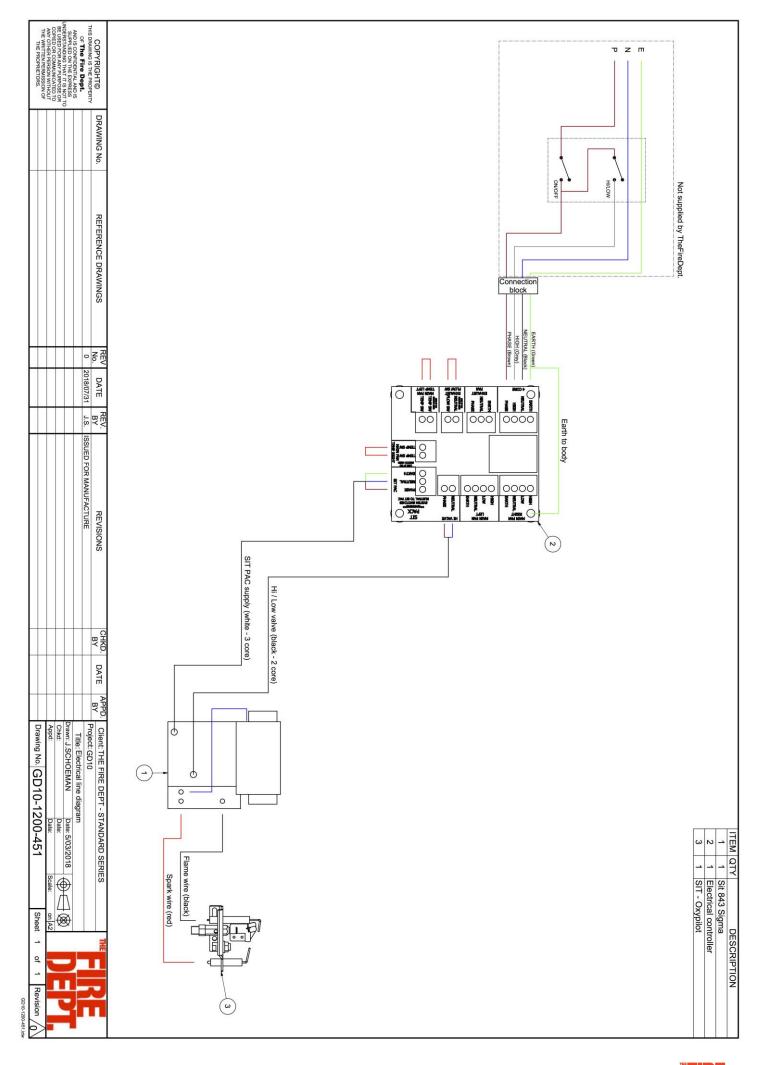




- Test electrical functions by switching the bottom High/Low switch to LOW, then switch the appliance ON using the top On/Off switch.
- After approximately five seconds, the pilot will spark. Because the gas supply is turned off, the pilot will spark for approximately five seconds then automatically switch off.
- NOTE: GD10 models have both LOW and HIGH settings.
- Switch to HIGH setting. Ensure that a red light appears on the electrical connections block.
- Switch the appliance off. Electrical testing is complete.
- Replace the burner tray and weather housing cover by following the 'Burner tray installation process' and 'Weather Housing' in this guide.

8

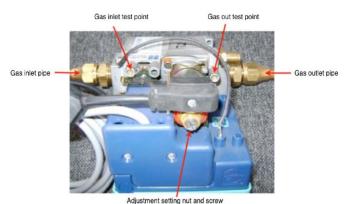




9

Step 5: 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 gas supply and testing area, it is necessary to first remove the burner tray and weather housing front cover.
- Remove the burner tray and weather housing front cover by following the 'Burner Tray Removal Process' and 'Weather Housing' of this guide.
- Connect 3/8 soft copper pipe to main valve.
- Leak test all joints.
- · Switch the appliance on.
- Test/adjust high first and then the low pressures against rating plate specifications.



- In the unlikely event that the rating plate is not attached, **Do Not** commission the appliance and contact 'The Fire Dept.' immediately.
- Switch the appliance off.
- Replace the burner tray and weather housing cover by following the 'Burner Tray Installation Process' and 'Weather Housing' in this guide.
- · Switch the appliance on.
- Note: Due to lack of firebed, it may be necessary to manually light burners.



- Switch the appliance off.
- · Lay firebed in accordance with instructions in Step 6 of this guide.
- Send gas certificate to the appropriate person.



Version: June 2019 10

Step 6: Lay the firebed

- The GD10 Recessed Burner has three firebed options: River Rocks, Beach Driftwood & Forest Logs.
- Particular care should be taken when placing the chosen firebed mediums into the burner tray. Failure to
 place the medium correctly may result in the appliance performing inefficiently.
- Open the firebed cardboard box and identify firebox mediums.

River Rocks option has two firebed mediums:

Clay balls - 3 bags.

White rocks - large and small.



Beach Driftwood option has three firebed mediums:

Clay balls - 3 bags.

White rocks - large and small.

Driftwood – large and small.



Forest Logs option has three firebed mediums:

Clay balls - 3 bags.

White rocks - large and small.

Logs - large and small.

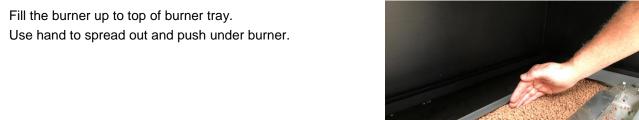




11

How to lay clay balls

- Beginning in the middle at the back of the burner, carefully empty the bags of clay balls into the burner tray.
- · Ensure not to spill any clay balls in cavities in front of and behind burner tray.
- Do not pour clay balls directly over burner slots.



Using a small Allen key (or similar), remove any dust that may have fallen into burner slots.



If natural gas is being used, leave burner slots uncovered.



If LPG is being used, lightly cover burner slots in a thin layer of clay balls by adding at back of burner tray and gently sweeping forward.



• Clay balls layer complete.



How to lay River Rocks Firebed - GD10 1200

Lay large rocks first, in these positions.



Lay small rocks next, in these positions.



 Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 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.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- 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 'LOW' setting and ensure the flame effect, although smaller, still looks good.

13

· Switch the appliance off.



How to lay River Rocks Firebed - GD10 1400 & 2000

• Lay large rocks first, in these positions.



Lay small rocks next, in these positions.



• Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 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.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- 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 'LOW' setting and ensure the flame effect, although smaller, still looks good.

14

Switch the appliance off.

FIRE DEPT.

How to lay Beach Driftwood Firebed - GD10 1200

Lay logs and large rocks first, in these positions.



· Lay rocks next, in these positions.



• Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 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.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- 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 'LOW' setting and ensure
 the flame effect, although smaller, still looks good.

15

· Switch the appliance off.



How to lay Beach Driftwood Firebed - GD10 1400 & 2000

Lay logs and large rocks first, in these positions.



Lay rocks next, in these positions.



 Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 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.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- 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 'LOW' setting and ensure the flame effect, although smaller, still looks good.

16

Switch the appliance off.

PIKE DEPT.

How to lay Forest Logs Firebed - GD10 1200

Lay logs and large rocks first, in these positions.



· Lay rocks next, in these positions.



• Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 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.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- 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 'LOW' setting and ensure the flame effect, although smaller, still looks good.
- Switch the appliance off.



Version: June 2019 17

How to lay Forest Logs Firebed - GD10 1400 & 2000

Lay logs and large rocks first, in these positions.



Lay rocks next, in these positions.



• Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 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.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- 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 'LOW' setting and ensure the flame effect, although smaller, still looks good.

18

Switch the appliance off.

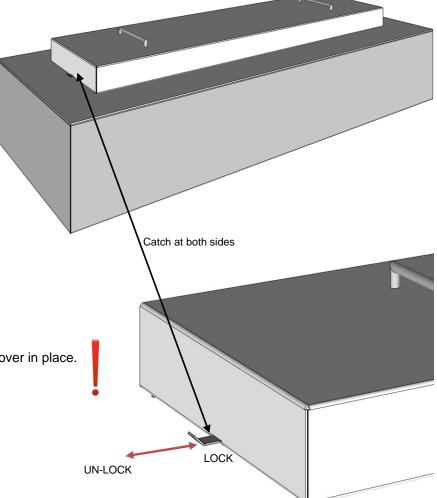


Step 7: Show owner how to operate appliance

- Following the GD10 Operating Instructions on the next page, show the owner how to switch the appliance on and off, and how to switch between high and low settings.
- If the owner is not available, leave this manual by the appliance.

Weather cover:

- To remove the weather cover:
 Pull the catch out (both sides) to unlock and lift the weather cover off the GD10 burner. Please the weather cover in a safe place.
- To fit the weather cover:
 Pull the catch out (both sides) to unlock and lower the weather cover over the GD10 burner. Once the weather cover is in position push the catch into the lock position. The cover will be locked down.



IMPORTANT:

Never turn the appliance on with the weather cover in place.

NOTES:



GD10 OPERATING INSTRUCTIONS

This GD10 appliance has been designed to be simple to use. It is controlled by a wall switch, which must be installed by a qualified electrician.

To start appliance:

- · Press the on/off switch to the ON position.
- Press the high/low switch to the HIGH position.
- The electronic solenoid pack will start to click.
- Gas will then be released and ignited at the pilot valve.
- The safety sensor will allow the main burner pipe to ignite and flames will appear. The whole process will take between 10-20 seconds.
- Once the flame appears, it can be turned down to the low setting by pressing the high/low switch to LOW.

To shut down appliance:

- Press the on/off switch to the OFF position.
- The gas will automatically be shut off to the pilot and the burner. The flame will then extinguish.

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TROUBLESHOOTING

Problem	Probable Cause	Action
Appliance shuts down after continuous running	Low Oxygen supplying to the fire	Do not attempt to restart the fire Open all doors and windows Call gas-fitter
Appliance doesn't start	 No gas supply No power supply Low or poor pilot flame Signal from flame rectifier interrupted Signal to sparker electrode interrupted Incorrect sparker electrode gap 	 Check gas supply Check power supply Check flame size and pressure Check flame rectifier and wire to sit pack Check sparker gap and wire to sit pack Check sparker electrode gap is 3mm
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 burner	The firebed is not aligned to the burner	Re-lay the firebed to the specific model specifications detailed earlier in this guide
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: June 2019 20

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 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.

21

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

