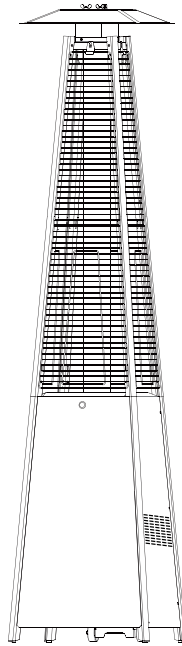

Field & Flame

Outdoor Heater User Manual



*Image for illustrative purposes only

This manual is for the following models:

CZGB-1

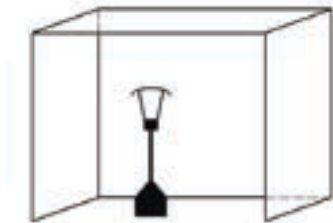
www.firedupcorporation.com/manual

SAFETY WARNING!

PLEASE READ CAREFULLY THROUGH THIS MANUAL BEFORE USING THE PRODUCT, OBSERVING ALL SAFETY INFORMATION, AND WARNINGS.

If you smell gas:

- Switch off the gas regulator.
- Extinguish any open flame.
- If the smell continues immediately call your gas supplier or your fire department.
- Do not store or use flammable liquids in the vicinity of this heater.
- Any gas cylinders that are not connected for use shall not be stored in the vicinity of this heater.
- For use outdoors or in areas that have ample ventilation.
- An amply ventilated area must have a minimum of 25 % of the surface area open.
- The surface area is the sum of the walls' surfaces.



Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

- This appliance must be installed and the gas cylinder stored in accordance with LPG storage regulations.
- Do not obstruct the ventilation holes of the cylinder housing.
- Do not move the heater when in operation.
- Switch off the gas regulator before moving the heater.
- This heater is designed to use a 11kg or 13kg propane gas cylinder.

SAFETY PRECAUTIONS

- Do not use this patio heater indoors, as it may cause personal injury or property damage.
- This outdoor heater is not intended to be installed on recreational vehicles and/or boats. Installation and repair should be done by a qualified service person.
- Improper installation, adjustment, alteration can cause personal injury or property damage.
- Do not attempt to alter the unit in any manner.
- Never replace or substitute the regulator with any regulator other than the factory suggested replacement.
- The whole gas system, hose, regulator, pilot or burner should be inspected for leaks or damage before use, at least annually by a qualified service person.
- All leak tests should be done with a soap solution. Never use an open flame to check for leaks. Do not use the heater until all connections have been leak tested.

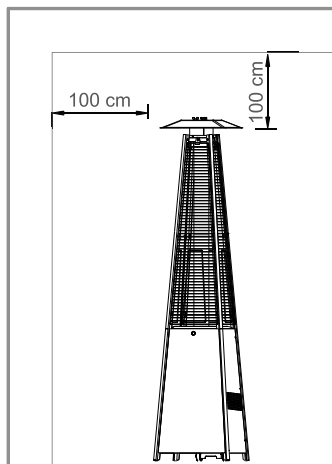
- Turn off the gas valve immediately if smell of gas is detected. Turn Cylinder Valve OFF. If leak is at Hose/ Regulator connection: tighten connection and perform another leak test. If bubbles continue appearing, the hose should be returned to place of purchase. If leak is at Regulator/Cylinder Valve connection: disconnect, reconnect, and perform another leak check. If you continue to see bubbles after several attempts, the cylinder valve is defective and should be returned to place of purchase.
- Do not move the heater after it has been turned off until the temperature has cooled down. Keep the ventilation opening of the cylinder enclosure free and clear of debris.
- Do not paint the radiant screen, control panel or top canopy reflector.
- The control compartment, burner and circulation air passageways of the heater must be kept clean. Frequent cleaning may be required as necessary.
- The LP tank should be turned off when the heater is not in use. Check the heater immediately if any of the following occur:
 - The heater does not reach temperature;
 - The burner makes a popping noise during use (a slight noise is normal when the burner is extinguished);
 - Smell of gas is in conjunction with extreme yellow tipping of the burner flames.
- The gas regulator/hose assembly must be located out of pathways where people may trip over it, or in areas where the hose will not be subject to accidental damage.
- Any guard or other protective device removed when servicing the heater must be replaced before operating the heater. Adults and children should stay away from high temperature surfaces to avoid burns or clothing ignition.
- Children should be carefully supervised when they are in the area of the heater.
- Clothing or other flammable materials should not be hung on the heater or placed on or near the heater.
- The gas cylinder should only be changed in a ventilated area, away from sources of ignition (candles, cigarettes, and other flame producing appliances).
- Switch off the gas tap after use when using red propane cylinders.
- Switch off the regulator after use when using green propane cylinders.
- In the event of gas leak, the appliance shall not be used or if alight, the gas regulator should be turned off immediately and the appliance should be inspected thoroughly before it is used again.
- Inspect the gas hose before every use. If it shows signs of cracking, splitting or other deterioration it should be replaced with new hose of the same length and of the equivalent quality.
- The use of this appliance in enclosed areas can be dangerous and is PROHIBITED.
- For connection of hose and regulator, and connection of regulator and hose, please refer to the photos shown below.



- To assist connecting the regulator, carefully place the rubber hose into an insulated cup of boiling hot water. This allows the rubber hose to expand and allow the regulator to be connected easily. After connecting the regulator, tighten the hose clip with a screwdriver.
- This product contains small batteries. Swallowed small batteries can cause CHOKING HAZARD. Seek immediate medical attention if batteries are swallowed or inhaled. Keep children away from the small batteries.

HEATER STAND AND LOCATION

- The heater is for outdoor use only. Always ensure that adequate fresh air ventilation is provided.
- Always maintain proper clearance to non-protected combustible materials i.e. top 100 cm and sides 100 cm minimum.



- Heater must be placed on level, firm ground.
- Never operate heater in an explosive atmosphere like in areas where gasoline or other flammable liquids or vapors are stored.
- To protect heater from strong wind, anchor the base securely to the ground with screws.

GAS REQUIREMENTS

- This heater is primarily designed to be used with propane gas.
- Butane gas may also be used with the appropriate regulator however Butane freezes at zero degrees so will not be ideal to be used during cold temperatures.
- A dented, rusted or damaged cylinder may be hazardous and should be checked by your gas supplier before being used with this heater.
- Never connect an unregulated cylinder to the heater.

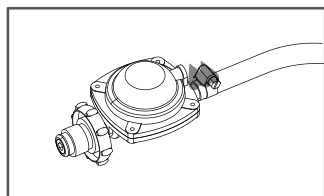
LEAK TEST

- Gas hose connections on the heater are leak tested at the factory prior to shipment. A complete gas leak check must be performed at the installation site due to possible mishandling during the transit process.

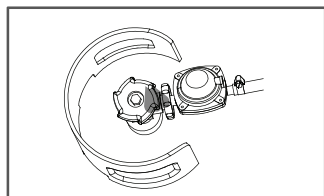
Leak testing: Do not smoke while performing this test and remove all sources of ignition.

A full gas cylinder is required. This test must be done before initial use, annually and whenever any gas components are replaced or serviced.

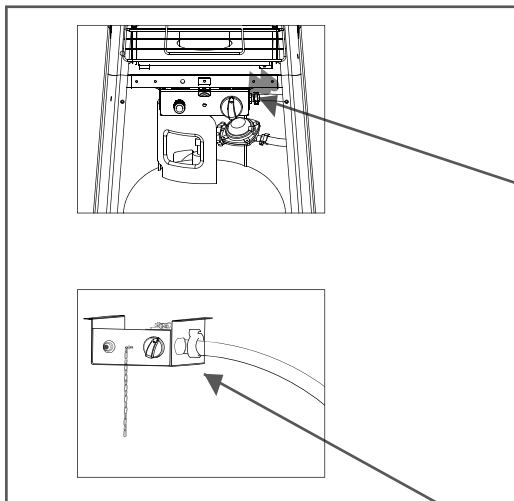
1. Mix a solution of water and washing up liquid, then pour onto the connection between the joints and connections of the regulator, hose, manifolds and valves. See Leak Testing Diagram below for areas to check. Turn all burner controls to the off position. Turn the gas regulator ON.



Hose / Regulator
connection

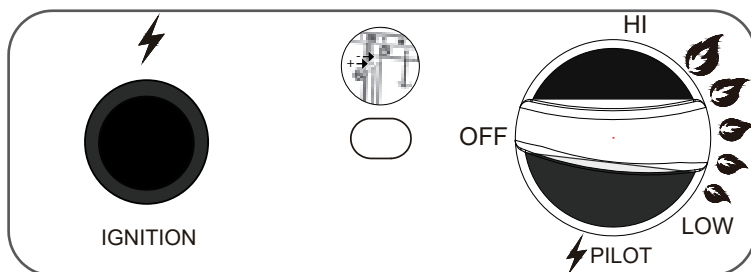


Regulator / Cylinder
connection



- If no bubbles are present - This indicates the connection is leak safe.
 - If bubbles are present - Tighten the hose clip further and retest for leaks.
 - If bubbles continue to appear - please contact your gas supplier or heater distributor.
2. If the leak cannot be stopped, immediately shut off the gas supply and disconnect it.
 3. Do not use the patio heater until the leak has been corrected.

OPERATION AND STORAGE



TURNING THE HEATER ON

WARNING: Please ensure the glass tube has not been damaged before operation.

1. Ensure the variable control knob is at the OFF position.
2. Connect the gas regulator to a compatible gas cylinder.
3. Push and turn the variable control knob to the "Pilot" position and hold for 60 seconds. Whilst still holding the control knob down, press the ignition button. A pilot flame should appear.
4. Once the blue pilot flame stays alight constantly, let go of the variable knob.
5. Turn the variable control knob to the desired temperature position - Lo to Hi.

IMPORTANT NOTE

- When lighting the heater for the first time or when a new cylinder is connected, the air inside the hose must be purged. This process will take a few minutes as liquefied petroleum gas is heavier than air.
- As a result, the variable control knob should be pressed down at the Pilot position for 3 Minutes instead of the normal 60 second period.

This ensures the gas purges the air in the hose and passes from the cylinder through to the main burner.

TURNING THE HEATER OFF

1. Turn the variable control to the PILOT position.
2. Push and turn the variable control knob to the OFF position.
3. Turn the regulator connected to the gas cylinder to the OFF position.

CLEANING AND CARE

- Wipe off surfaces with a soft, moist cloth. Do not clean the heater with cleaning products that are combustible or corrosive.
- Remove debris and insects from the burner periodically to keep it clean and safe for use.
- Cover the burner unit with the optional protective cover when the heater is not in use.

CONSTRUCTION AND CHARACTERISTICS

- Transportable terrace/garden heater with cylinder housing.
- Constructed with aluminum, powder coated and stainless steel.
- Heat is emitted upwards through the glass tube and distributed via the top reflector.

PARTS AND SPECIFICATIONS

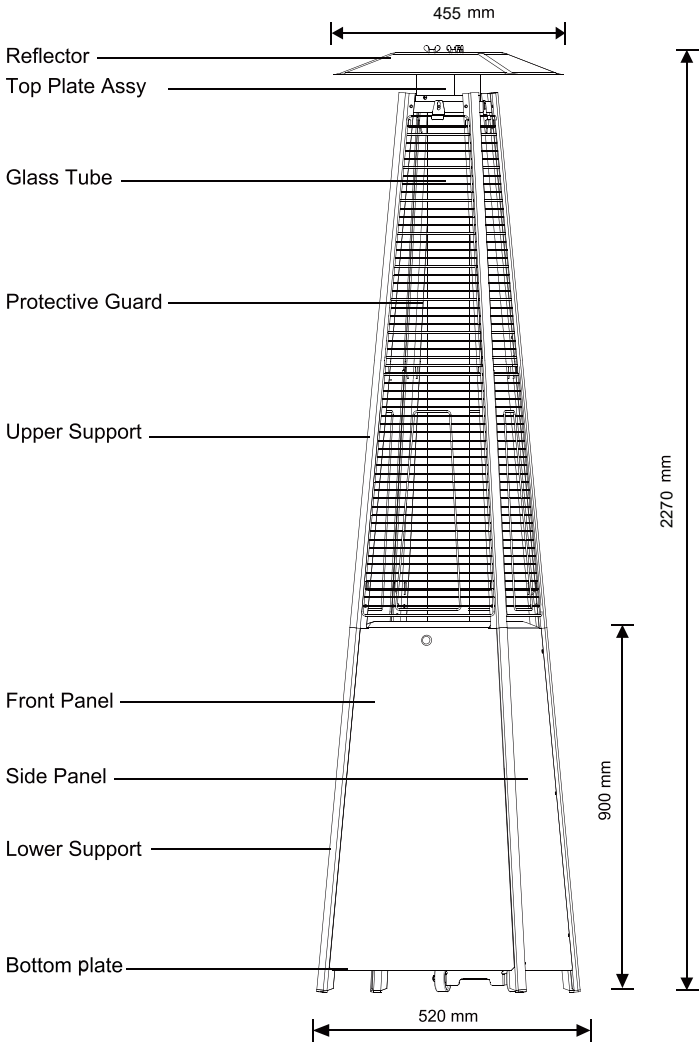
- This heater is best used with propane gas
- Max. wattage: 13kW
- Min. wattage: 5kW

Gas Consumption

APPLIANCE CATEGORY:	I 3+(28-30/37)		I 3B/P(30)	I 3B/P(50)	I 3B/P(37)
TYPES OF GAS:	Butane	Propane	Butane, propane or their mixtures	Butane, propane or their mixtures	Butane, propane or their mixtures
GAS PRESSURE:	28-30mbar	37 mbar	30 mbar	50mbar	37mbar
OUTLET PRESSURE OF REGULATOR:	30mbar	37 mbar	30 mbar	50mbar	37mbar

APPLIANCE CATEGORY:	I 3+(28-30/37)		I 3B/P(30)	I 3B/P(50)	I 3B/P(37)
TYPES OF GAS:	Butane	Propane	Butane, propane or their mixtures	Butane, propane or their mixtures	Butane, propane or their mixtures
GAS PRESSURE:	28-30mbar	37 mbar	30 mbar	50mbar	37mbar
TOTAL HEAT INPUT (Hs): (Qn)	13kW (945g/h)				
INJECTOR SIZE:	1.8mm for main burner 0.18 mm for pilot burner			1.5 mm for main burner 0.18mm forpilot burner	1.5mm for main burner 0.18mm forpilot burner
The marking, for example, 1.8 on the injector, indicates that the size of injector is 1.8mm					

- The hose and regulator assembly must conform to adequate standards.
- Regulator outlet pressure should meet the corresponding appliance category in the Specification section above. The appliance requires approved hose with a minimum length of 0.5m.

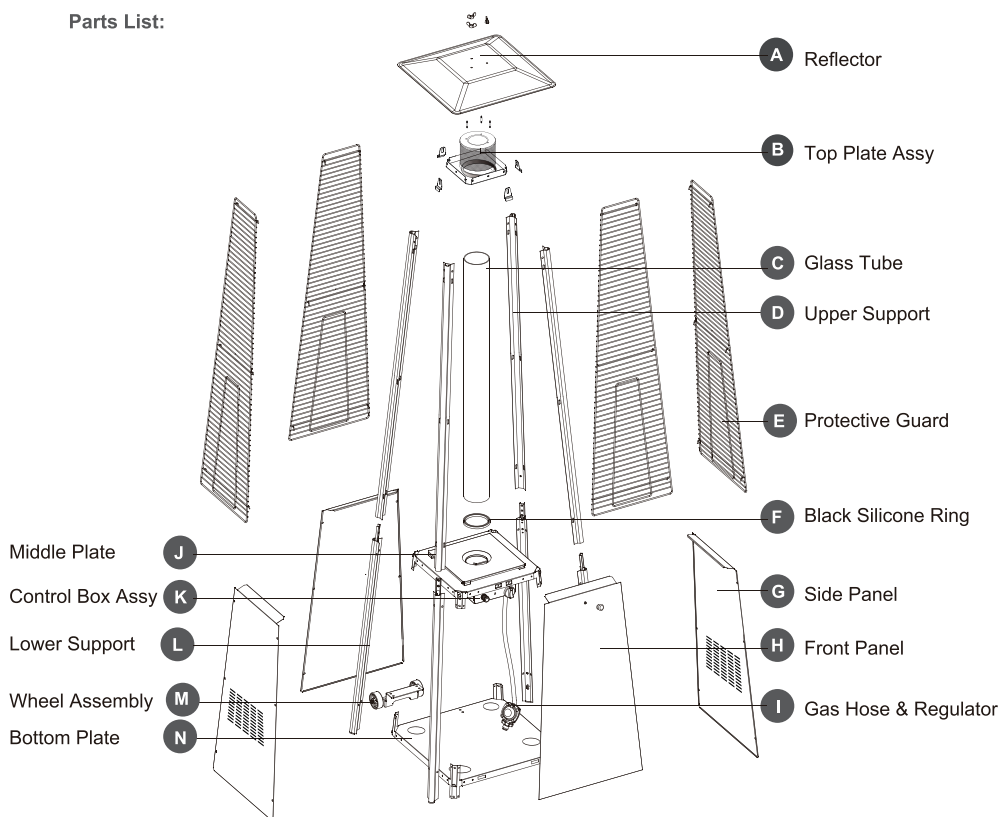


ASSEMBLY PARTS

Tools needed:

- Philips screwdriver w/ medium blade
- Spray bottle of soap solution for leakage test

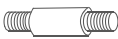
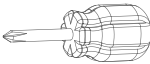
Parts List:



PART	DESCRIPTION	QUANTITY
A	Reflector	1
B	Top Plate Assy	1
C	Glass Tube	1
D	Upper Support	4
E	Protective Guard	4
F	Black Silicone Ring	1
G	Side Panel	3
H	Front Panel	1
I	Gas Hose & Regulator	1
J	Middle Plate	1
K	Control Box Assy	1

PART	DESCRIPTION	QUANTITY
L	Lower Support	4
M	Wheel Assembly	1
N	Bottom Plate	1

Hardware Contents

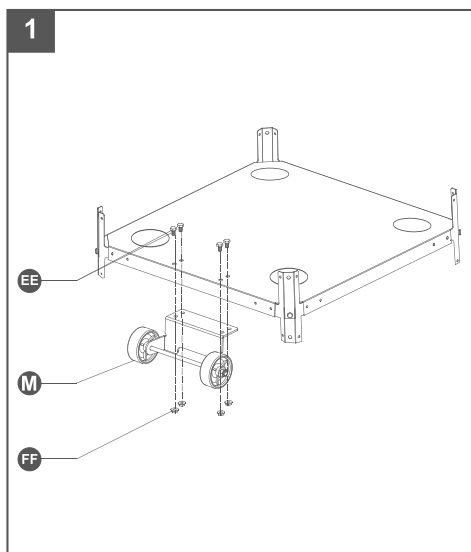
AA		BB		CC		DD		EE		FF	
	Wing nut Qty. 3		Stud Qty. 3		Battery Qty. 1		3/16" Screw Qty. 68		Bolt M8 X 12 Qty. 4		M8 nut Qty. 4
GG		HH		JJ		KK		LL			
	Fixing Bracket Qty.4		Philips screwdriver Qty. 1		Knob Qty. 1		Screw M4 X 8 Qty.1		Chain Qty.1		

Assembly Procedure

1. Assemble the wheel assembly (M) to the bottom plate (N). Fix the wheel assembly (M) to the bottom plate (N) using 4pcs bolt M8×12 (EE) and 4pcs flange nut M8 (FF).

Hardware Used

EE	Bolt M8 X 12		x 4
FF	M8 nut		x 4

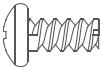


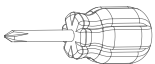
2. Insert the pins of the bottom plate (N) to the holes of lower support (L), press to secure the pins.

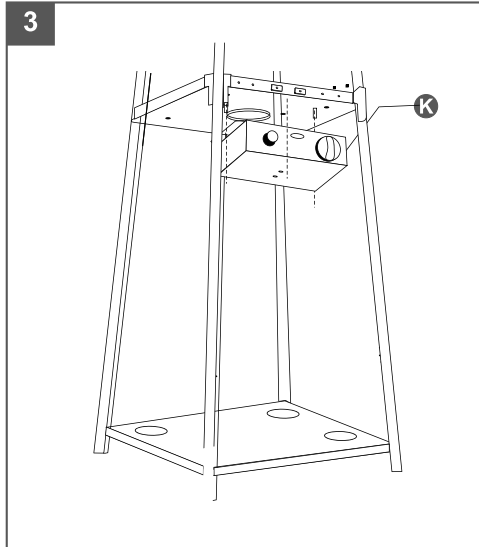
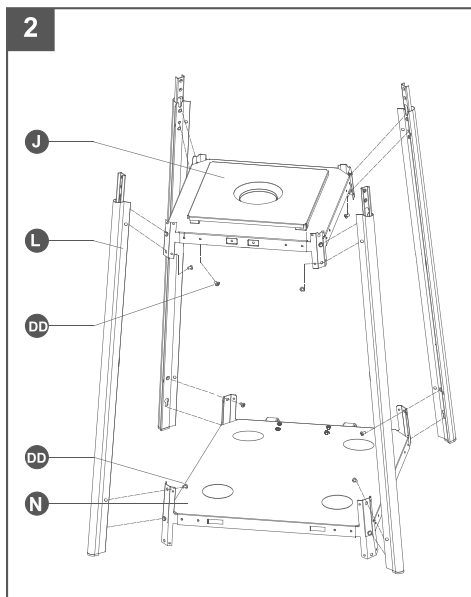
Using 12pcs screw 3/16" (DD) to secure the lower support (L) and bottom plate (N).

Using 8pcs screw 3/16" (DD) to secure the lower support (L) and middle plate (J).

Hardware Used

DD 3/16" Screw  x 20

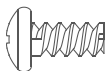
HH Philips screwdriver  x 1

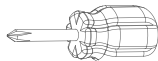


3. Assemble control box assy (K).

Fix the Control Box Assy (K) to the Middle Plate (J), using 4pcs screw 3/16" (DD)'.

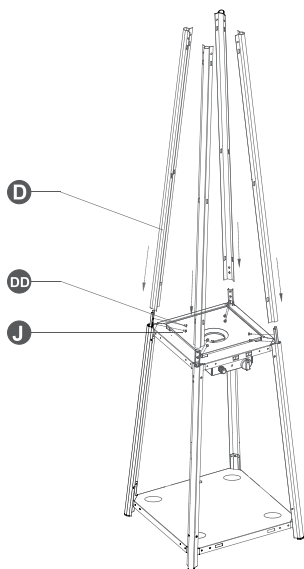
Hardware Used

DD 3/16" Screw  x 4

Philips screwdriver  x 1

Additional Note : Unscrew the red ignition button and insert an AAA Battery.

4

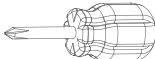


4. Assemble the upper support (D).

Insert the 4pcs upper support (D) to the middle plate (J). Secure them with 16pcs screw 3/16" (DD)

Hardware Used

DD 3/16" Screw  x 16

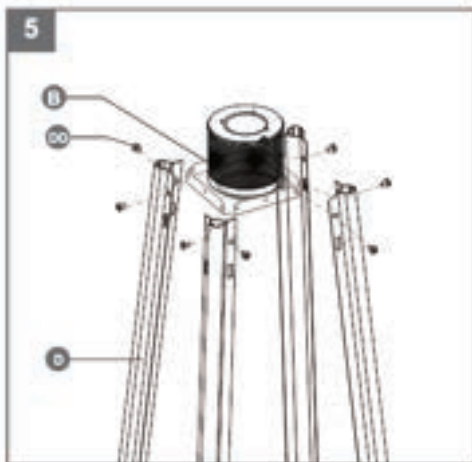
HH Philips screwdriver  x 1

5. Assemble the top plate assy (B) to the upper support (D).
Secure the top plate assy(B) to the upper support(D) using 8pcs screw 3/16" (DD)

Hardware Used

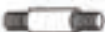
DD 3/16" Screw  x 8

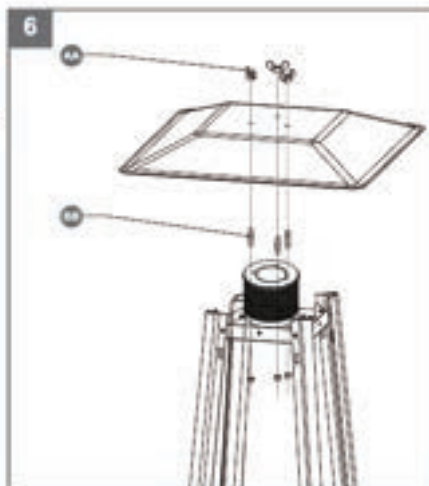
HH Philips screwdriver  x 1



6. Assemble the reflector (A) onto the top plate assy (B).
Screw the 3pcs stud (BB) on the top plate assy (B), then put the reflector(A) onto the stud(BB), secure them with 3pcs wing nut (AA).

Hardware Used

AA	Wing nut		x 3
BB	Stud		x 3



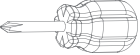
7. Carefully install the glass tube (C) by lifting up and inserting through the center hole in the top plate (B). Ensure the black silicone ring (F) is attached to the lower edge of the glass tube (C) as illustrated. Slide the glass tube (C) through the hole of the lower plate cover and onto the middle plate (J). Check and ensure that the glass tube (C) is positioned properly and is completely covering the center hole of the middle plate(J).

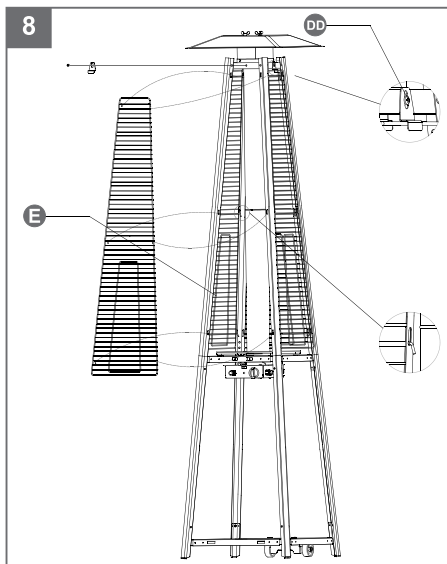
WARNING! The black silicone ring must be in place prior to operating the heater.



8. Assemble the protective guard (E).
 Hang the hooks of the protective guard (E) onto the holes in supports.
 Secure the protective guards (E) with fixing brackets (GG) with 4pcs 3/16" screws (DD).

Hardware Used

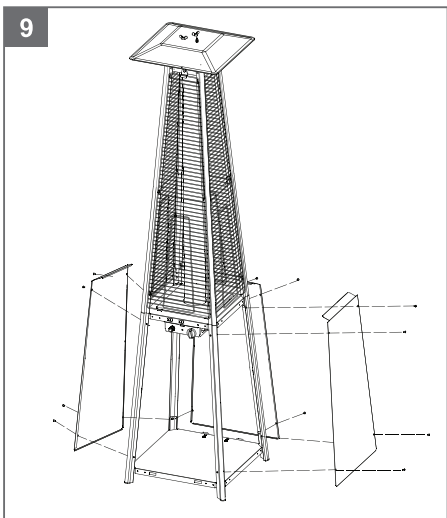
DD	3/16" Screw		x 4
HH	Philips screwdriver		x 1
GG	Fixing Bracket		



9. Attach the three side panels (G) to the heater using 12pcs screw 3/16" (DD)
 Note: Do not cover the front side where the control knob is.

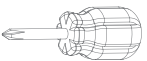
Hardware Used

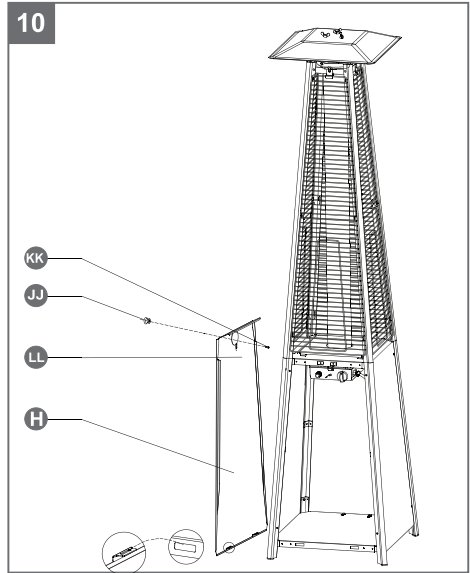
DD	3/16" Screw		x 12
HH	Philips screwdriver		x 1



10. Install the knob to M4×8 screw (KK). Hang the chain (LL) to the hole on the control box assy (K) and put the pothook of front panel (H) to the holes of bottom plate (N).

Hardware Used

- | | | | |
|-----------|---------------------|---|-----|
| JJ | Knob |  | x 1 |
| KK | Screw M4 X 8 |  | x 1 |
| LL | Chain |  | x 1 |
| HH | Philips screwdriver |  | x 1 |



TROUBLESHOOTING

Problem	Probable Cause	Suggested Solution
<u>Pilot will not light</u>	• Gas regulator may be OFF • Gas cylinder empty • Opening blocked • Air in supply system • Loose connections	• Turn the regulator ON • Replace with full cylinder • Clean or replace opening • Purge air from lines • Check all fittings
<u>Pilot will not stay on</u>	• Debris around pilot • Loose connections • Thermocouple faulty • Anti tilt switch loose/faulty • Gas leak in line • Lack of fuel pressure	• Clean dirty area • Tighten connections • Replace thermocouple • Reconnect/replace anti tilt switch • Check connections • Tank near empty. Refill LPG tank.
<u>Burner will not light</u>	• Pressure is low • Opening blocked • Control not ON • Thermocouple faulty • Pilot light assembly bent • Not in correct location	• Cylinder is almost empty. Replace with full cylinder • Remove and clean • Turn valve to ON • Replace thermocouple • Place pilot properly • Position properly and retry

If you have any other issues, please contact your supplier or distributor. Please do not attempt to modify the heater in any way or form.

GUARANTEE

For your convenience, you are not required to complete a form and return it to us in order to validate your guarantee. However, please ensure that you retain your receipt which will act as both proof of purchase and a guarantee validation document. **We recommend that you attach your receipt to this documentation.**

Your product carries a 12 month guarantee from the date of original purchase (or as otherwise provided in writing at point of purchase). If your product fails to operate to its specification, due to faulty workmanship or materials during the guarantee period, we will either repair or replace the product. We will use our discretion to determine whether to offer a repair or provide a replacement. The product will not be covered by the guarantee if it has been misused, transformed, modified or altered in any way.

If your product fails within the guarantee period please ensure that you have all necessary documentation available including proof of purchase (receipt or invoice with serial number, location and date of purchase) in addition to all original undamaged packaging and leaflets etc. It is strongly recommended that you inspect your product carefully before it is used or installed. For full details of your product you should refer to the instruction manual which accompanies the product. You are strongly advised to read this manual carefully in its entirety and to retain it for future reference.

This product guarantee does not affect your statutory rights.

CUSTOMER HELPLINE

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