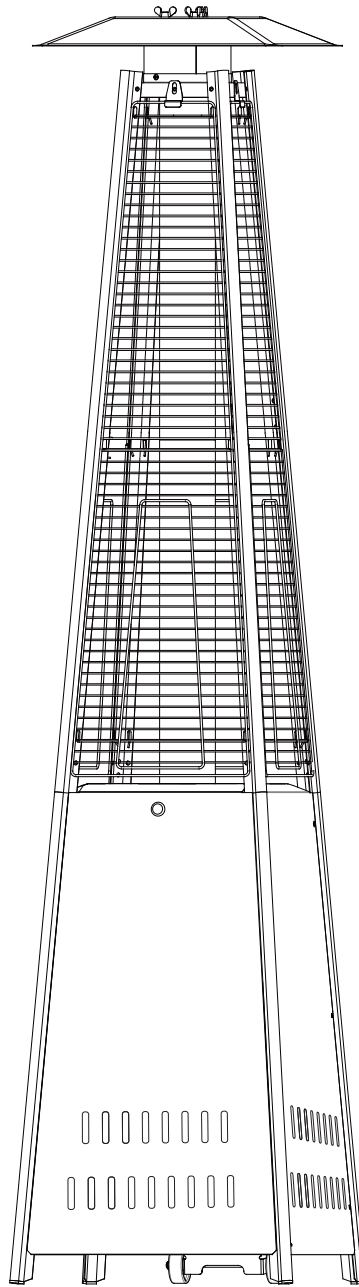


# PYRAMID PATIO HEATER

## User's manual



# **WARNING SAFETY RULES**

PLEASE READ THE FOLLOWING SAFETY RULES PRIOR TO OPERATION OF THE HEATER

## ***FOR YOUR SAFETY***

If you smell gas:

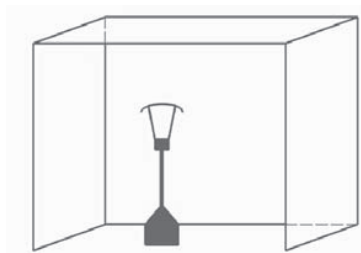
1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odour continues, immediately call your gas supplier or the Gas Emergency Service.

## ***FOR YOUR SAFETY***

1. Do not store or use petrol or other flammable vapours or liquids in the vicinity of this or any other appliance .
2. An LP cylinder not connected for use shall not be stored in the vicinity of this or any other appliance .

## **WARNING**

- 1) For use outdoors or in amply ventilated areas.
- 2) An amply ventilated area must have a minimum of 25 % of the surface area open.
- 3) The surface area is the sum of the walls' surface.



**WARNING:** 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.

## **WARNING**

### ***Read the instructions before installation and use.***

- This appliance must be installed and the gas cylinder stored in accordance with the regulations in force.
- Do not obstruct the ventilation holes of the cylinder housing.
- Do not move the appliance when in operation.
- Shut off the valve at the gas cylinder or the regulator before moving the appliance.
- The tubing or the flexible hose must be changed within the prescribed intervals.
- Use only the type of gas and the type of cylinder specified by the manufacturer.

The LP tank used with your patio heater must meet the following requirements:

Purchase LP tanks only with these required measurements:

(31.8cm) (diameter) x 58cm) (tall) with 15kg capacity maximum.

-In case of violent wind particular attention must be taken against tilting of the appliance. Keep the appliance at least 1m from the gas cylinder.

-The injector must be installed by the manufacturer only.

Do not connect the gas cylinder directly to the appliance without regulator. Use only the type of gas and the type of cylinder specified in the instructions.

A regulator (which complies with EN16129:2013 is needed)

of the correct pressure corresponding to the appliance category.

Use 30mbar regulator for butane/propane under the category I3B/P(30).

Use 30mbar regulator for butane under the category I3+(28-30/37).

Use 37mbar regulator for propane under the category I3+(28-30/37).

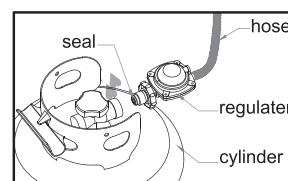
Use 50mbar regulator for butane/propane under the category I3B/P(50).

It's recommended to use flexible hose that is approved under EN16436:2014.

# CAUTION

## PLEASE READ CAREFULLY THE FOLLOWING SAFETY GUIDELINES BEFORE OPERATION.

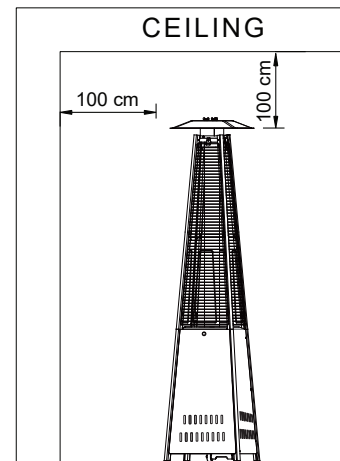
- Do not use the patio heater for indoors, as it may cause personal injury or property damage.
- This outdoor heater is not intended to be installed on recreational vehicles and/or boats.
- Installation and repair should be done by a qualified service person.
- Improper installation, adjustment or alteration 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.
- Do not store or use petrol or other flammable vapours or liquids in the heater unit.
- The whole gas system, hose, regulator, pilot and burner should be inspected for leaks or damage before use, and 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 should be returned to hose's 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, cylinder valve is defective and should be returned to cylinder's place of purchase.
- Do not transport heater while it's operating.
- Do not move the heater after it has been turned off until it 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.
- 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 occurs:
  - 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 in conjunction with extreme yellow tipping of the burner flames.
- The LP regulator/hose assembly must be located out of pathways where people may trip over it or in area where the hose will not be subject to accidental damage.
- Any guard or other protective device removed for servicing the heater must be replaced before operating the heater.
- Adults and children should stay away from high temperature surface 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.
- Change the gas cylinder in a amply ventilated area, away from any ignition source (candle, cigarettes, other flame producing appliances...).
- Check that the regulator seal is correctly fitted and able to fulfill its function, as shown in the photo (right).
- Do not obstruct the ventilation holes of the cylinder housing.
- Close the gas supply at the valve of the gas cylinder or the regulator after use.
- In the event of gas leakage, the appliance shall not be used or if alight, the gas supply shall be shut off and the appliance shall be investigated and rectified before it is used again.
- Check the hose at least once per month, each time the cylinder is changed and before using the heater after a long time without use.
- The use of this appliance in enclosed areas can be dangerous and is PROHIBITED.
- Read the instructions before using this appliance. The appliance must be installed in accordance with the instructions and local regulations.
- For connection of hose and regulator , and connection of regulator and hose, please refer to photo showed above.



Hose/ Regulator connection and  
Regulator / Cylinder connection

## HEATER STAND AND LOCATION

- The heater is primarily for outdoor use only. Always ensure that adequate fresh air ventilation is provided.
- Always maintain proper clearance to 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. (optional)



## GAS REQUIREMENTS

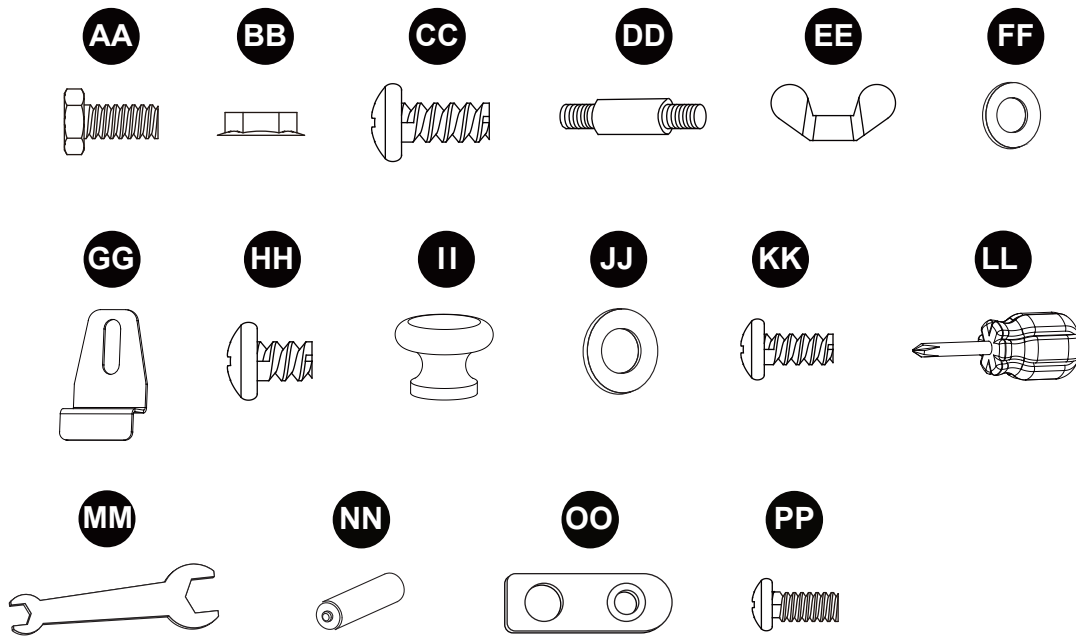
- Use propane or butane gas only.
- The pressure regulator and hose assembly to be used must conform to local standard codes.
- The installation must conform to local codes, or in the absence of local codes, with the standard for the storage and handling of liquid petroleum gases.
- A dented, rusted or damaged propane tank may be hazardous and should be checked by your tank supplier. Never use a propane tank with a damaged valve connection.
- The propane tank must be arranged to provide for vapor withdrawal from the operating cylinder.
- Never connect an unregulated propane tank to the heater.

## LEAKAGE TEST

Gas connections on the heater are leak tested at the factory prior to shipment. A complete gas tightness check must be performed at the installation site due to possible mishandling in shipment or excessive pressure being applied to the heater.

- Make a soap solution of one part liquid detergent and one part water. The soap solution can be applied with a spray bottle, brush or rag. Soap bubbles will appear in case of a leak.
- The heater must be checked with a full cylinder.
- Make sure the safety control valve is in the OFF position.
- Turn the gas supply ON.
- In case of a leak, turn off the gas supply. Tighten any leaking fittings, then turn the gas supply on and re-check.
- Never leak test while smoking.

# HARDWARE

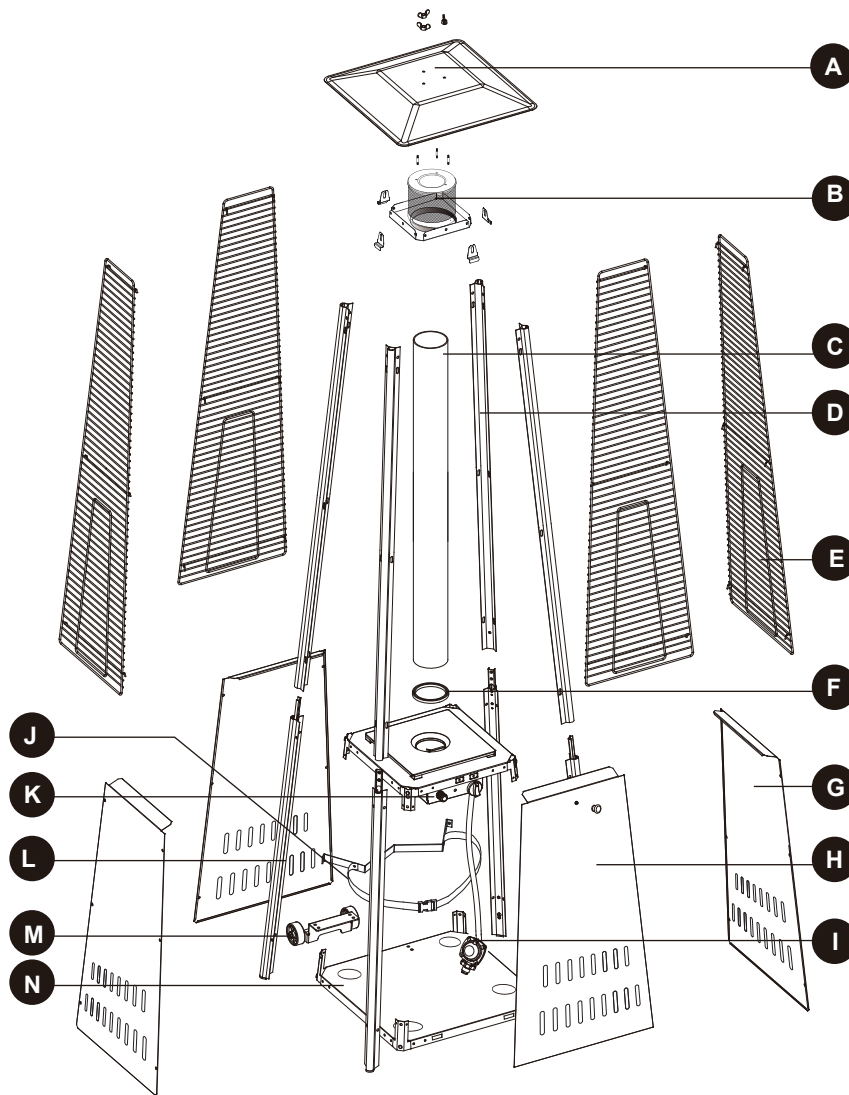


Item	Description	Qty
AA	Bolt M6x10	4
BB	M6 nut	4
CC	Screw M5x10	18
DD	Stud	3
EE	Wing nut	3
FF	Flat washer	6
GG	Fixing Bracket	4
HH	Screw 3/16"	30
II	Knob	1
JJ	Large flat washer	1
KK	Screw M4 X 8	1
LL	Philips screwdriver	1
MM	Wrench	1
NN	AA Battery (1.5 V)	1
OO	Anchoring arm	4
PP	Screw M6X12	4

Before beginning assembly of product, make sure all parts are present. Compare parts with package contents list and hardware contents list. If any parts are missing or damaged, do not attempt to assemble the product.

Estimated Assembly Time: 90 minutes

# PARTS AND SPECIFICATIONS



Item	Description	Qty
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	Block belt	1
K	Control Box Assy	1
L	Lower Support	4
M	Wheel Assembly	1
N	Bottom Plate	1

**A. Construction and characteristics**

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

**B. Specifications**

- Use propane, butane or their mixtures gas only.
- Max. wattage: 13000 watts
- Min. wattage: 5000 watts
- Consumption:

APPLIANCE CATEGORY:	I <sub>3+</sub> (28-30/37)		I <sub>3B/P</sub> (30)	I <sub>3B/P</sub> (50)	I <sub>3B/P</sub> (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

- Using the proper regulator according to outlet pressure of regulator as showed in the table above.

**C. Table of injector**

APPLIANCE CATEGORY:	I <sub>3+</sub> (28-30/37)		I <sub>3B/P</sub> (30)	I <sub>3B/P</sub> (50)	I <sub>3B/P</sub> (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:	1.90 mm for main burner 0.18 mm for pilot burner			1.70 mm for main burner 0.18 mm for pilot burner	1.80 mm for main burner 0.18 mm for pilot burner
The marking, for example, 1.90 on the injector, indicates that the size of injector is 1.90mm					

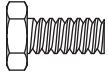

- The hose and regulator assembly must conform to local standard codes.
- Regulator outlet pressure should meet the corresponding gas category in the table of injector.
- The appliance requires approved hose in 0.6 m length.

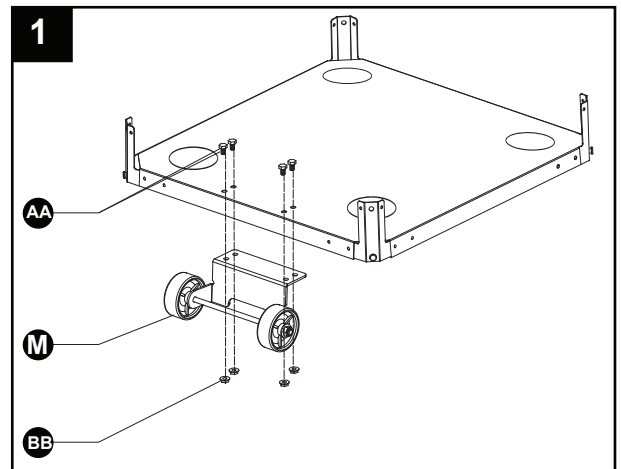


# ASSEMBLY INSTRUCTIONS

1. Assemble the wheel assembly (M) to the bottom plate (N) using 4pcs bolt M6x10 (AA) and 4pcs M6 nut (BB).

## Hardware Used

<b>AA</b>	Bolt M6x10		x 4
<b>BB</b>	M6 nut		x 4



2-1. Unscrew the ignition, load battery, tighten the ignition.

2-2. Attach 4pcs anchoring arm (OO) to 4pcs lower support (L) using 4pcs screw M6X12 (PP).

## ATTENTION:

**Ensure 2pcs lower support with extra hole are on the same side to wheels.**

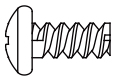
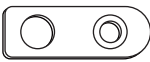

2-3. Insert the pins of the bottom plate (N) to the holes of lower support (L), press to secure the pins. using 4pcs screw M5x10 to secure the bottom plate and lower support.

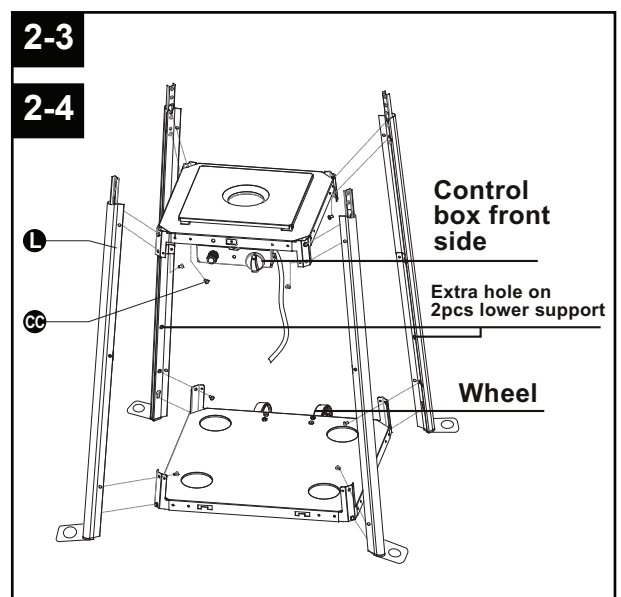
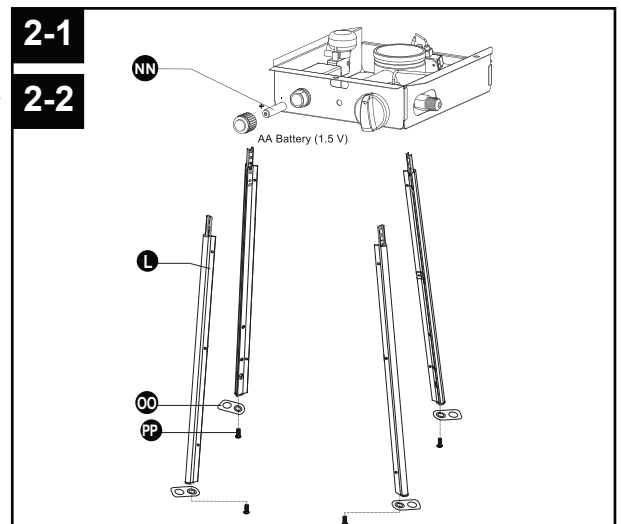
## ATTENTION:

**Ensure control box front side and front panel are on opposite side to wheels.**

2-4. Insert the pins of the control box assy (K) to the holes of lower support (L), press to secure the pins. using 4pcs screw M5x10 to secure the lower support and control box assy.

## Hardware Used


<b>CC</b>	screw M5x10		x 8
<b>OO</b>	Anchoring arm		x 4
<b>PP</b>	Screw M6X12		x 4

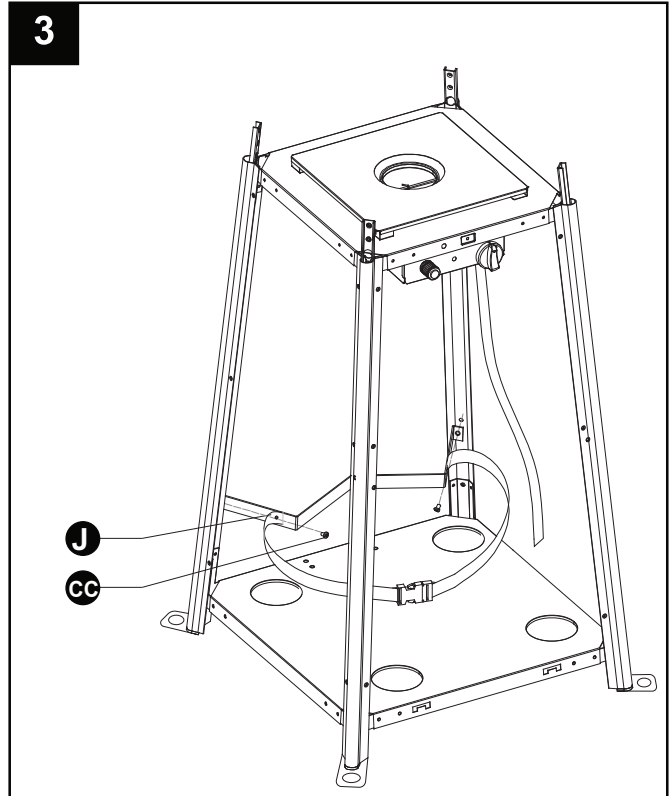


3. Assemble block belt.  
 Fix the block belt (J) to the 2pcs of lower support (L) using 2pcs screw M5x10.

**ATTENTION:**  
 Ensure the block belt and wheel assembly are on the same side.

**Hardware Used**

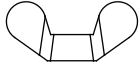


**CC** screw M5x10  x 2

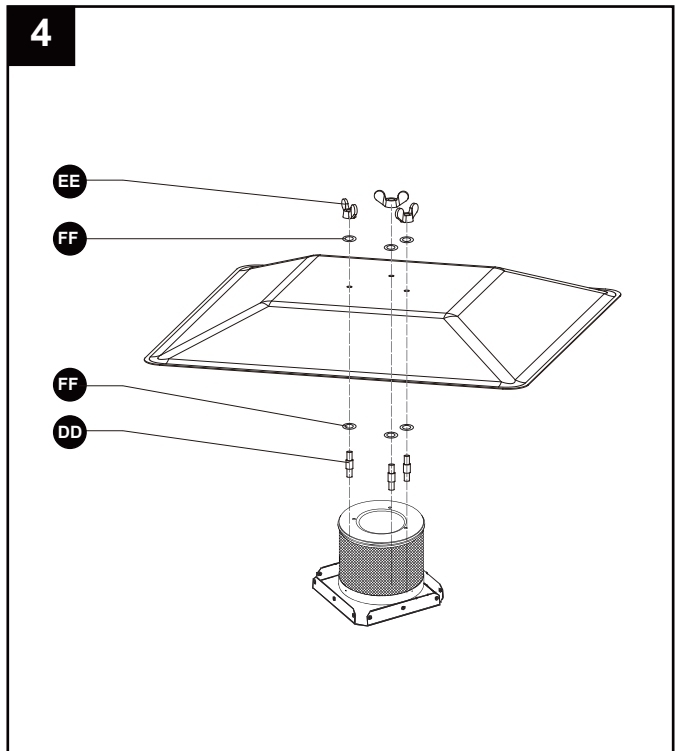


**! WARNING**  
 Remove protective cover before assembling.

4. Assemble the reflector (A) onto the top plate assy (B).  
 Screw the 3pcs stud (DD) on the top plate assy (B), put 3pcs flat washer (FF) onto the top of stud (DD), then put the reflector on the the stud (DD), secure them with 3pcs flat washer (FF) and 3pcs wing nut (EE).

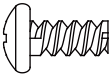

**Hardware Used**

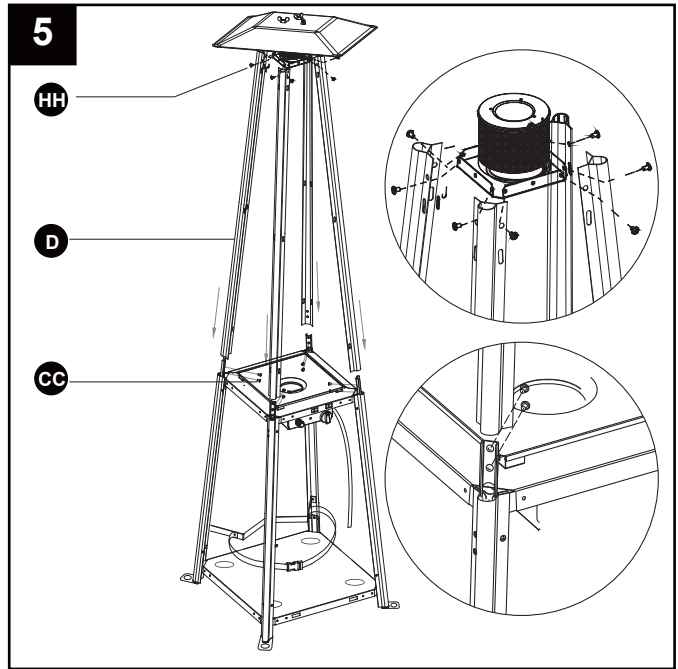
**EE** Wing nut  x 3  
**DD** Stud  x 3  
**FF** Flat washer  x 6



5-1. Insert upper support (D) to lower support (L) using 8pcs screw M5x10.  
 5-2. Assemble top plate assy (B) to upper support (D) using 8pcs screw 3/16”.

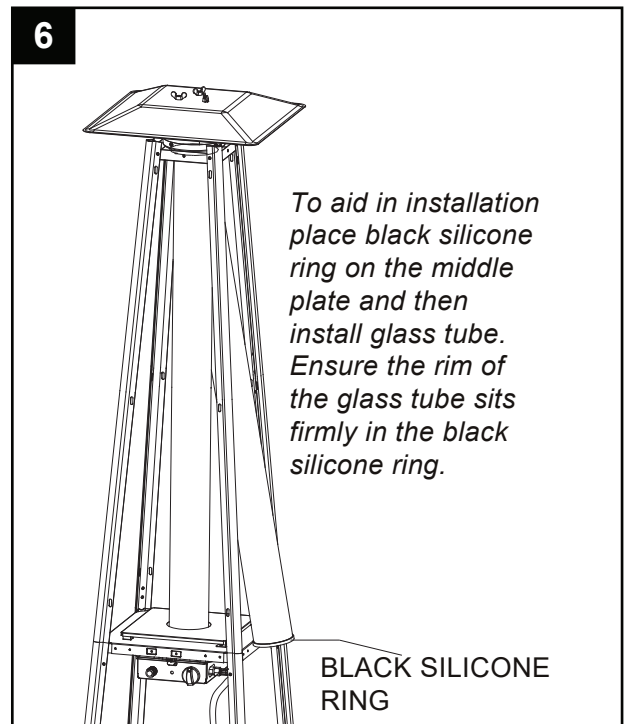
**Hardware Used**

- CC** screw M5x10  x 8
- HH** Screw 3/16”  x 8





6. Carefully install the glass tube (C) by lifting up and inserting through the center hole in the top plate assy (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).

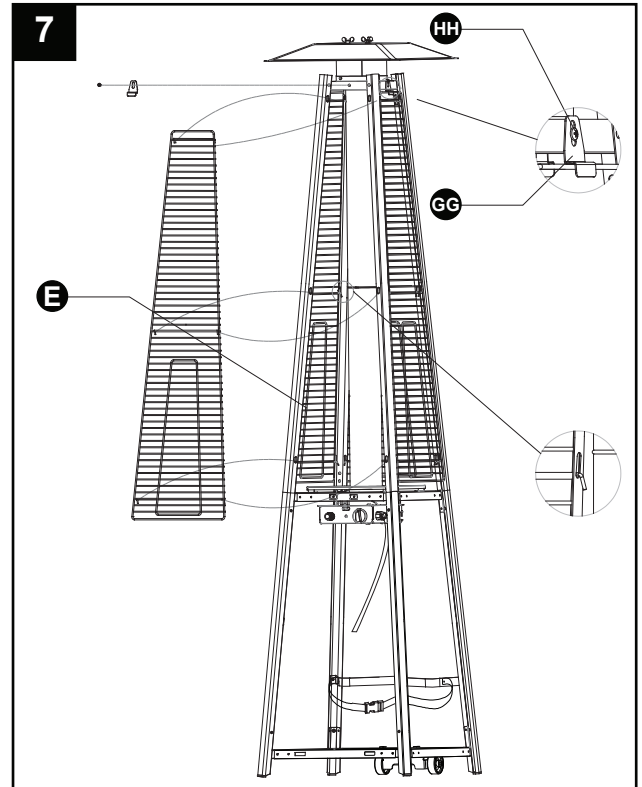
**WARNING! The black silicone ring must be in place prior to operating the heater.**



7. 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 4 pcs screw Screw 3/16" (HH).

**Hardware Used**

<b>HH</b>	Screw 3/16"		x 4
<b>GG</b>	Fixing Bracket		x 4



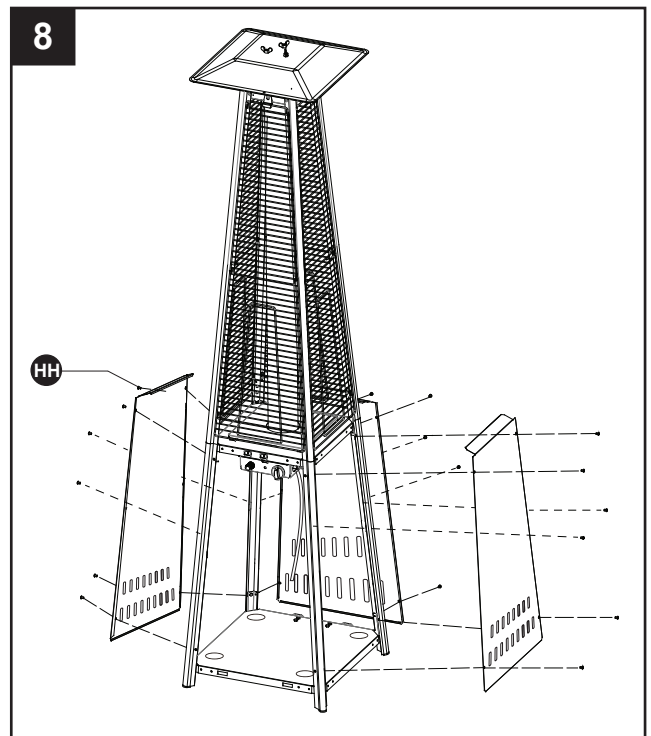
7. Assemble three side panels (G) to heater using 18 pcs screw 3/16".

**Attention:**

Do not cover the front side where the control knob is.




**Hardware Used**

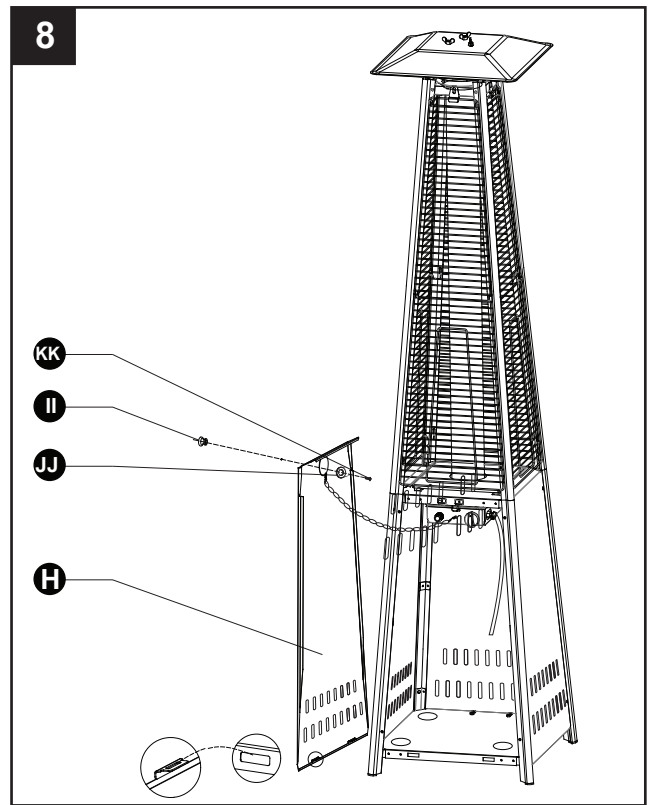
<b>HH</b>	Screw 3/16"		x 18
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8. Install the knob (II) to screw M4x8 (KK) and large flat washer (JJ).  
Put the pothook of front panel (H) to the holes of bottom plate (N).

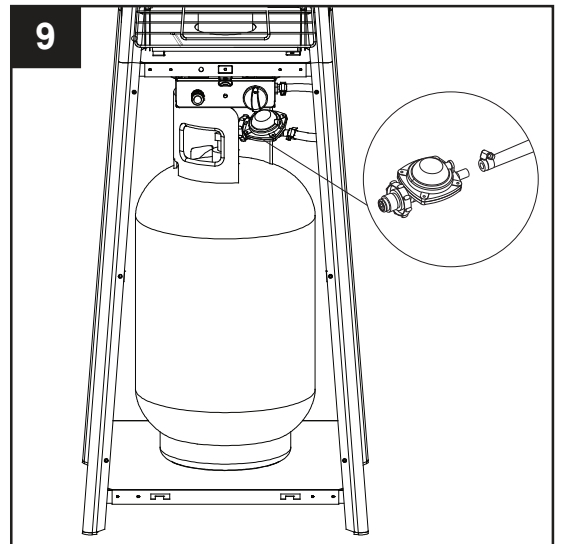
**Hardware Used**

<b>II</b>	Knob		x 1
<b>KK</b>	Screw M4 X 8		x 1
<b>JJ</b>	Large flat washer		x 1



9. Connect the gas hose and regulator using clip and tighten with screwdriver.  
Attach the regulator to the gas cylinder and tighten with wrench.

**! WARNING!** Ensure the hose does not contact any high temperature surfaces, or it may melt and leak causing a fire.



# LEAK CHECK



**WARNING!** A leak test must be performed annually and each time a cylinder is hooked up or if a part of the gas system is replaced.



**WARNING!** Never use an open flame to check for gas leaks. Be certain no sparks or open flames are in the area while you check for leaks. Sparks or open flames will result in a fire or explosion, damage to property, serious bodily injury, or death.



**Leak testing:** This must be done before initial use, annually, and whenever any gas components are replaced or serviced. Do not smoke while performing this test, and remove all sources of ignition. See Leak Testing Diagram for areas to check. Turn all burner controls to the off position. Turn gas supply valve on.

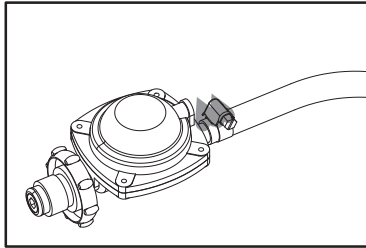


Brush a half-and-half solution of liquid soap and water onto all joints and connections of the regulator, hose, manifolds and valves. (As step 6 where arrows show )

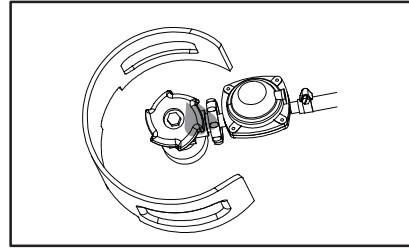


Bubbles will indicate a gas leak. Either tighten the loose joint or have the part replaced with one recommended by the Customer Care department and have the patio heater inspected by a certified gas installer.

If the leak cannot be stopped, **immediately shut off the gas supply**, disconnect it, and have the patio heater inspected by a certified gas installer or dealer. Do not use the patio heater until the leak has been corrected.



Hose / Regulator connection

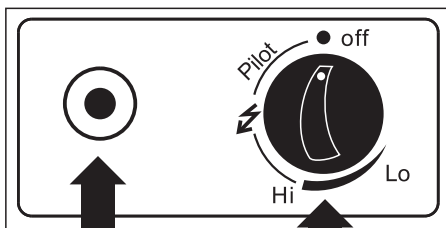


Regulator / Cylinder connection

# OPERATION

Before performing a leak test, be sure that no sparks can occur and you are in a spacious outdoor area. Connect the propane gas tank to the regulator and turn the valve on the unit to the “off” position. Brush a soap and water mixture on all connections. Turn the gas supply on; if bubbles occur on any connection there may be a leak. **If you smell gas or a leak is discovered turn the gas valve off, disconnect propane gas tank and do not use the appliance until the leak is repaired.**

Do not use the heating unit without inspecting the gas hose. If there are signs of wear or abrasion you must replace the hose (if applicable).



Ignition

Variable Control Knob

Off: the heater stop work  
 Hi: maximum temperature position  
 Lo: minimum temperature position

## **TO TURN 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 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

## **TO TURN 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

# **MAINTENANCE**

- Before performing any maintenance always disconnect propane gas tank.
- Keep the heating item free and clear from combustible materials.
- Visually inspect burner for obstructions and keep tank enclosure free and clear from debris.
- Use a soft brush to get rid of the mild stains, loose dirt and soil after the burner is completely cooled down. Wipe down with a soft cloth.
- Harsh weather conditions may cause stubborn stains, discoloration and possibly rust pitting.
- Permanent damage may occur if powder or solvent comes in contact with painted or plastic components on this heating unit.
- Keep the heating unit stored away from direct sunlight.
- If storing this unit inside, disconnect the propane gas tank from the gas valve.
- Not using manufacturer approved or supplied parts/accessories may result in a defective condition and void the warranty of this heating unit.
- Always place lid (if applicable) or protective cover on heating item once cooled and when not in use.

# TROUBLESHOOTING

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
The burner will not light.	The burner injector is clogged.	Clean the burner injector.
	There is low gas supply pressure.	Call your gas supplier.
The burner flame goes off immediately after ignition.	There is low gas pressure.	Call your gas supplier.
The ignition is delayed.	The main burner carryover ports are clogged.	Clean the main burner ports.
	There is low gas pressure.	Call your gas supplier.
The combustion on the burner is inadequate.	There is not enough air.	Check the air passageways and burners for dirt and debris, and clean with compressed air.
The burner flame is low.	The supply hose is bent or twisted.	Straighten the hose and perform a leak test.
	There is blockage in the burner injector.	Clean or replace the burner injector.
The emitter glows uneven.	There is blockage in the burner injector.	Clean or replace the burner injector.
	The base is not on a level surface.	Place the heater on a level surface.
	The gas pressure is low.	Replace the cylinder with a new cylinder.
There is slight smoke and odour during initial operation.	This is residue from the manufacturing process.	This will stop after approximately 30 minutes of operation.
There is thick black smoke.	There is blockage in the burner.	Turn off the heater and let it cool. Remove the blockage and clean the inside and outside of the burner.
The heater produces a whistling noise when the burner is lit.	Air passageways are blocked.	Check the minimum installation clearances and air passageways for debris.
	There is air in the gas line.	Operate the burner until the air is completely purged.
The heater produces a clicking noise just after the burner is lit or turned off.	The metal is expanding and contracting.	This is common with heaters. If noise is excessive, contact a qualified service person.
There is a gas odour even when the control knob is in the OFF position.	There is a gas leak.	Locate and correct the leak immediately.
	The gas control is defective.	Replace the gas control.
There is a gas odour during combustion.	There is foreign matter in the gas or on the burner ports.	Check the gas passageway and burner.
	The heater is burning vapours from paint or impurities in the air.	Stop storing and using odour causing products near the heater.
	There is gas leaking from the regulator and hose connection, the valve and pipe connections, and the pipes.	Locate and correct the leaks, or contact your gas supplier.
There is carbon build-up.	There is dirt or film on the reflector and flame screen.	Clean the reflector and flame screen.