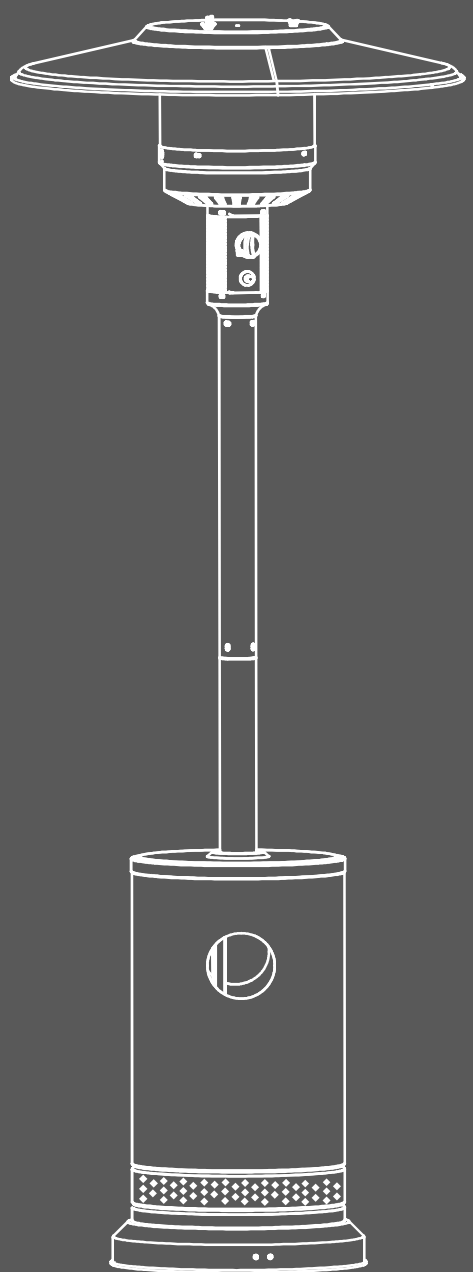
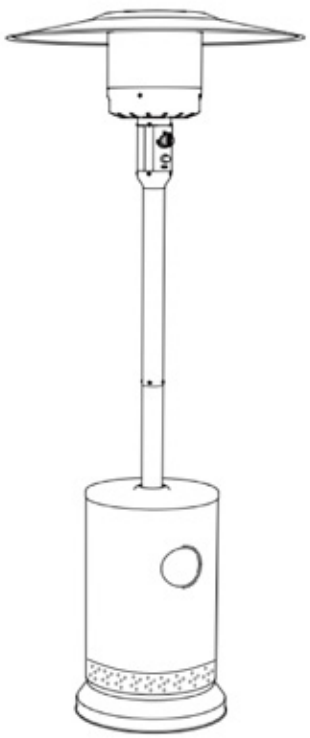


Installation Manual

Patio Heater



DANGER

If you smell gas:
1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.

WARNING

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
A Propane-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

WARNING

For outdoor use only.

INSTALLER:
Leave this manual with the appliance.
CONSUMER:
Retain this manual for future reference.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment If the information in this manual is not followed exactly, a fire or explosion may result causing property damage,personal in jury or loss of life.

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DANGER



CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odor.
Using it in an enclosed space can kill you.
Never use this appliance in an enclosed space such as a camper, tent, car or home.

Owner's Manual

SAFETY INFORMATION

Before you assemble or operate this unit, please carefully read this entire manual. Failure to do so may result in a fire, explosion, injury or death.

⚠ WARNING

- The installation of this unit must adhere to local codes or Propane Storage and Handling Code, CSA B149.2.
- THIS UNIT IS INTENDED FOR OUTDOOR USE ONLY! This product shall be used outdoors, in a ventilated space and shall not be used in any enclosed area.
- This unit is to be used with propane gas only! (sold separately)
- Do not attach a remote gas supply to this unit.
- Only use propane gas for this unit.
- This unit is not intended for natural gas.
- Converting this unit to natural gas is dangerous and not recommended. The conversion of this unit will void the manufacturer warranty.
- Do not use any solid fuel or charcoal for this unit.
- If the propane gas tank is leaking gas, you may hear, see, or smell a hiss. Do the following:

1. Disconnect the propane gas tank. 2. Do not attempt to fix the problem yourself. 3. Contact your gas supplier or fire department for help.

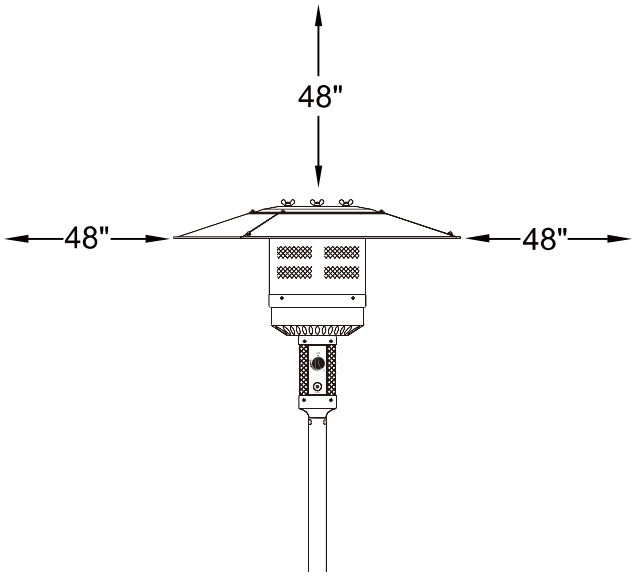
- Applying too much propane may result in gas pooling and will not burn. Allow fresh air into the unit so that the remaining gas may escape.
- Do not use a flame to check for gas leaks.
- The max. inlet supply pressure: max. Gas supply 11 in w.c. (2.74kPa)
- Use LP propane tanks with the following dimensions: diameter 12 in, height 18 in,20lbs.
- You must use a propane tank that has a collar to protect the gas valve.
- DO NOT fill tank over 80 percent full.
- The tank system must be set up for vapor withdrawal.
- Discontinue use if any part of the propane tank is damaged. Rust and dents may be hazardous and should be inspected by a gas supplier.
- Do not burn anything other than the provided materials for this patio heater.
- Do not operate unit until all parts are fully assembled.
- Do not paint or color any part of this heating unit.
- Unit may be hot while in use, do not attempt to move it while in use.
- Never leave this heating unit unattended while in use.
- This unit is not intended for cooking.
- Keep any flammable items away.
- Keep a safe distance to avoid burning skin or clothing.
- Do not sit or rest hands or feet on this heating unit.
- Never place hands or fingers on upper portion of this unit while in use.
- Keep all electrical cords and fuel supply hose away from heated surfaces.
- Combustible material should not be within 48 inches of the top of the unit, or within 48 inches around the entire unit.
- Keep the appliance area clear and free from combustible material, gasoline and other flammable vapors and liquids.
- If the flame goes out while burning, turn the gas valve off. Wait 5 minutes before repeating the initial lighting procedure. Once you have a flame started, hold down the control knob for 1 minute.
- Do not add water into the unit.
- Do not operate unit if any part has been under water. Call a service technician to replace any

damaged parts should this occur.

- Do not disconnect any part while unit is in use.
- Do not store a spare propane tank on or near this unit.
- If the heating unit is indoors, detach the propane tank and leave outdoors.
- Do not operate on a boat or vehicle. This unit must be used on a flat surface and outdoors ONLY.
- Always remove protective cover before operating (if applicable).
- Check for leaks after not using the unit for long periods of time.
- Children should never operate this unit. Children must be supervised while near this unit.
- Keep gas tank at least 5 feet away from unit when lit. (if external tank)
- The maximum gas supply pressure is 250psi.
- **All installation and repair should be done by a qualified professional. This unit should be** inspected annually and cleaned regularly.
- Inspect all elements of this heating unit before each use. If there is damage, the burner must be replaced.
- Be aware of the hazards of high temperatures and stay away from the unit to avoid any burns or injury.
- The gas supply tank should be constructed and marked with the specifications for the LP gas tanks of the U.S. Department of Transportation or the National Standard of Canada CAN/CSA-B339, LP gas tanks, spheres and tubes for Transportation of Dangerous Goods; and Commission.
- For appliances designed to use a CGA No. 791 Connection: “Place the dust cap on the cylinder valve outlet whenever the cylinder is not in use. Only install the type of dust cap on the cylinder valve that is provided with the cylinder valve. Other types of caps or plugs may result in leakage of propane”.
- This heating appliance should not be used on plastic or artificial wood decks.
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the area of the appliance.
- **Clothing or other flammable materials should not be hung from the appliance or placed on or** near the appliance.
- Any guard or other protective device removed for servicing the appliance shall be replaced prior to operating the appliance.
- **Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning** may be required as necessary. It is imperative that the control compartment, burners and circulating airways of the appliance are kept clean.
- Not obstructing the flow of combustion and ventilation air.
- Keeping the ventilation opening(s) of the cylinder enclosure free and clear from debris.
- Visually checking burner flames, with pictorial representations.
- Cleaning the appliance, including special surfaces, with recommended cleaning agents, if necessary.
- Lubrication of moving parts and the type and amount of lubricant to be used.
- When applicable, visually checking portions of the hose assembly located within the confines of the heater post.

NOTE: You must follow all steps to properly assemble this heating item. Make sure the gas valve is turned “OFF” before assembling. Do NOT attempt to assemble without proper tools.

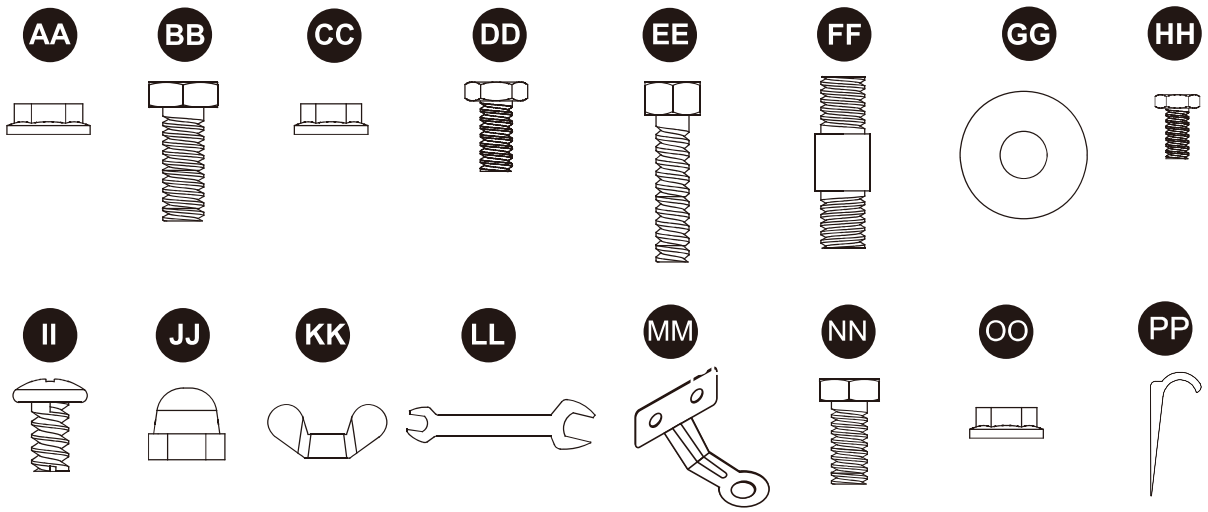
SAFETY INFORMATION



BE CAREFUL: WHEN CERTAIN MATERIALS OR ITEMS ARE STORED ABOVE, BESIDE OR UNDER THIS HEATER WHILE IN USE, THEY WILL BE SUBJECT TO RADIANT HEAT AND COULD BE SERIOUSLY DAMAGED.

Combustible materials should not be within 48 inches of the top of the unit, or within 48 inches around the entire unit.

HARDWARE

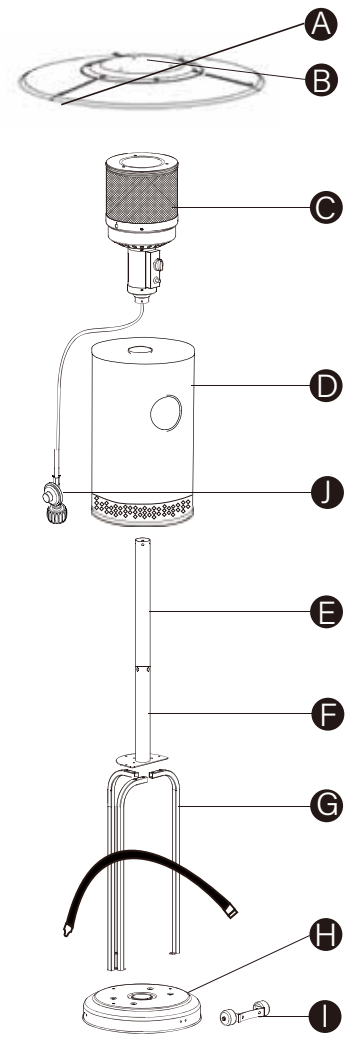


Item	Description	Qty
AA	M8 Flange Nut (packed with part I)	2
BB	Bolt M8x16 (2 pcs packed with part I)	5
CC	M6 Flange Nut	6
DD	Stainless Steel Bolt (pre-assembled on part C)	4
EE	Bolt M6x20	6
FF	Reflector Spacer	3
GG	Washer	9
HH	Post Bolt (packed with ground fixer)	4
I I	Screw M6x8	12
JJ	Cap Nut	12
KK	Wing Nut	3
LL	Wrench	1
MM	Anchoring Arm	3
NN	Bolt M6x10	6
OO	M6 Flange Nut	6
PP	Anchor	3

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: 30 minutes

PARTS DIAGRAM

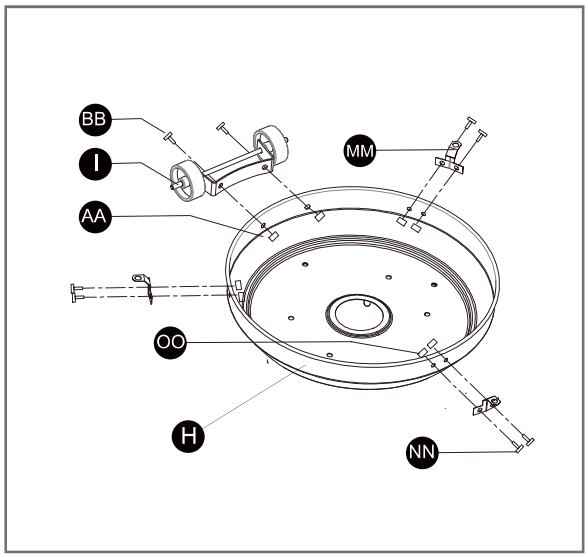


Item	Description	Qty
A	Reflector Panel	4
B	Center Reflector	1
C	Burner Assembly	1
D	Tank Housing	1
E	Upper Post	1
F	Lower Post	1
G	Support Bracket	3
H	Base	1
I	Wheel Assembly	1
J	Regulator	1

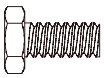
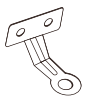
ASSEMBLY INSTRUCTIONS

Step 1

Turn the base upside down, then attach wheel assembly (I) to base (H) using 2pcs M8 flange nuts (AA) and 2pcs bolts M8x16 (BB). Attach 3pcs anchoring arm (MM) to base (H) using 6pcs M6 Flange Nut (OO) and 6pcs bolt M6x10 (NN). Be sure that the wheel assembly is parallel to the base. Tighten bolts securely.



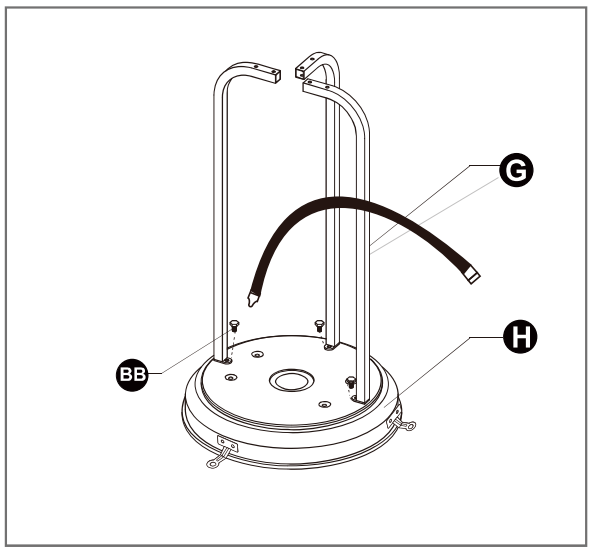
Hardware Used

AA	M8 Flange nut		x 2
BB	Bolt M8x16		x 2
MM	Anchoring Arm		x 3
NN	Bolt M6x10		x 6
OO	M6 Flange Nut		x 6

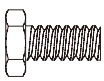
Step 2

Attach 3 pcs support brackets (G) to base (H) using 3 pcs bolts M8x16 (BB).

Note: Keep the support bracket with belt in the middle.



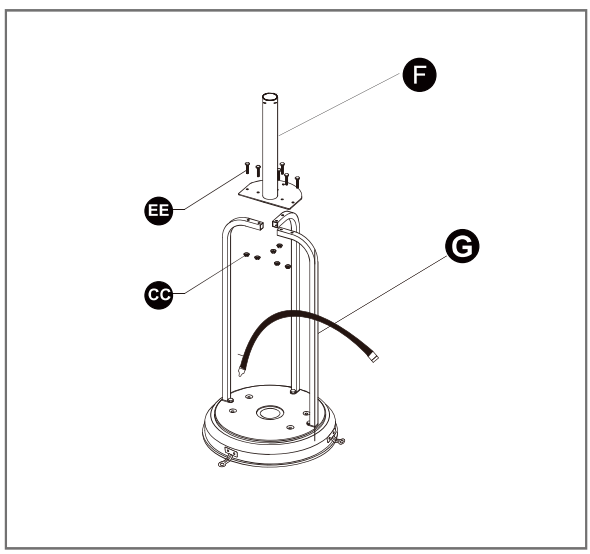
Hardware Used

BB	Bolt M8x16		x 3

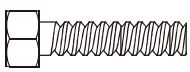
Step 3

Attach lower post (F) to support brackets (G) using 6pcs bolts M6x20 (EE) and 6pcs M6 flange nuts (CC).

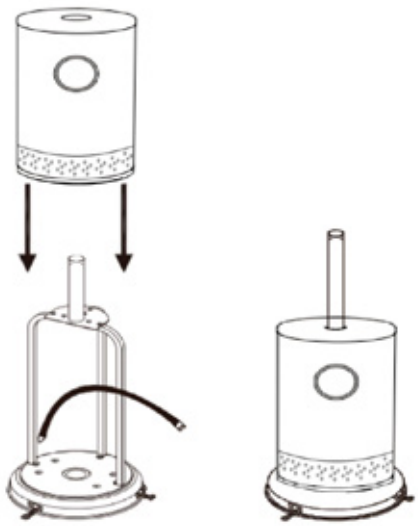
Tighten bolts securely.



Hardware Used

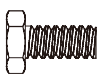
CC	M6 Flange nut		x 6
EE	Bolt M6x20		x 6

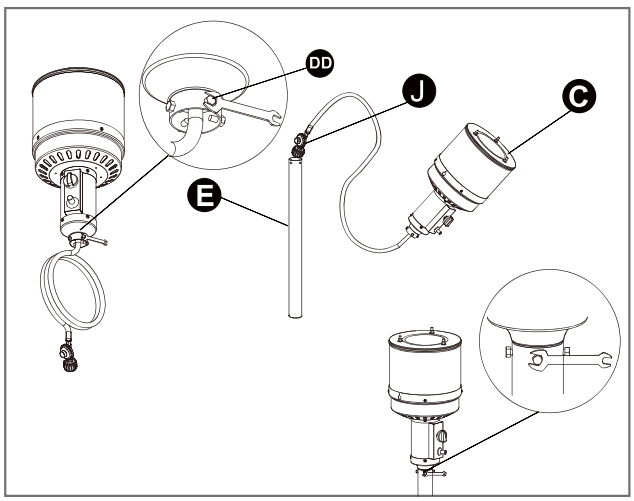
Step 4
Load tank housing onto post, slide tank housing down.



Step 5
Remove the 4 pcs preassembled stainless steel bolts (DD) from the burner assembly (C).
Insert the regulator (J) from the top end of the upper post (E), then attach the burner assembly (C) to upper post (E) using the four bolts removed at the beginning of this step.
Tighten bolts securely.

Hardware Used

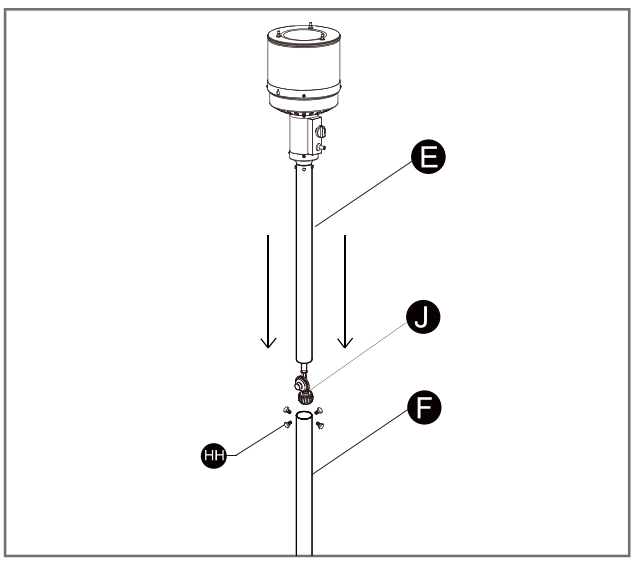
DD Stainless steel bolt  x 4



Remove the 2 preassembled bolts (HH) from the lower post (F) .Insert the regulator (J) from the top end of the lower post (F). Insert upper post (E) to lower post (F), then tighten two posts using the 4 bolts (HH) removed at the beginning of this step.

Hardware Used

HH Post bolt  x 4

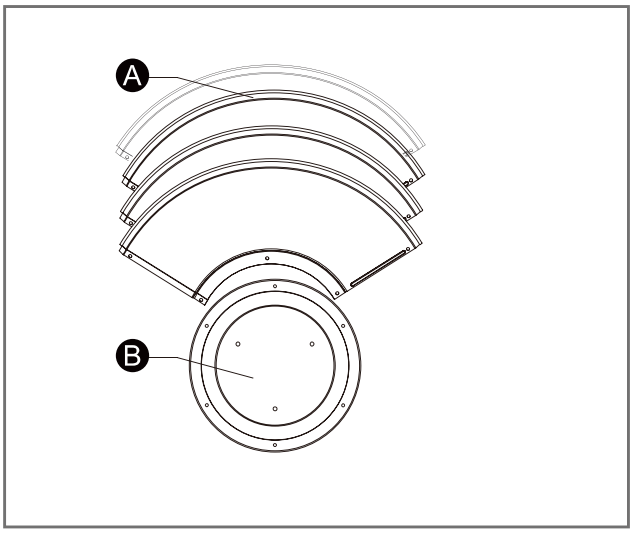


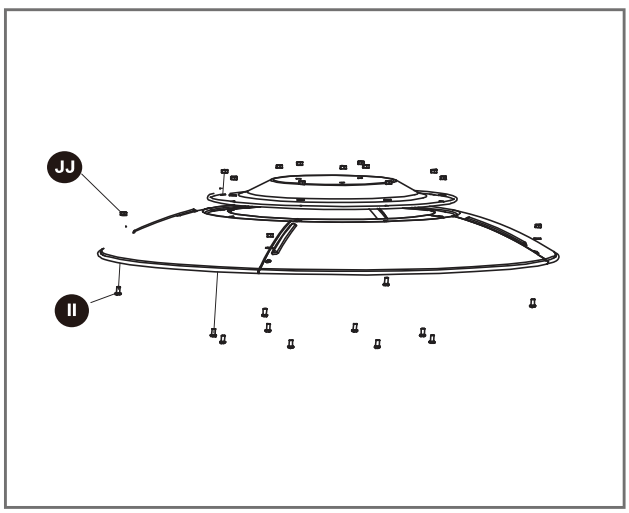
ASSEMBLY INSTRUCTIONS

Step 6
WARNING: Remove protective cover before assembling.
Note: If necessary for proper alignment of reflector sections.
Attach 4 pcs reflector panels (A) to center reflector (B) using 11 pcs Screws M6x8 (II) and 11 pcs cap nuts (JJ).
Fully tighten all of the screws.

Hardware Used

II	Screw	M6*8	x 12
JJ	Cap nut		x 12

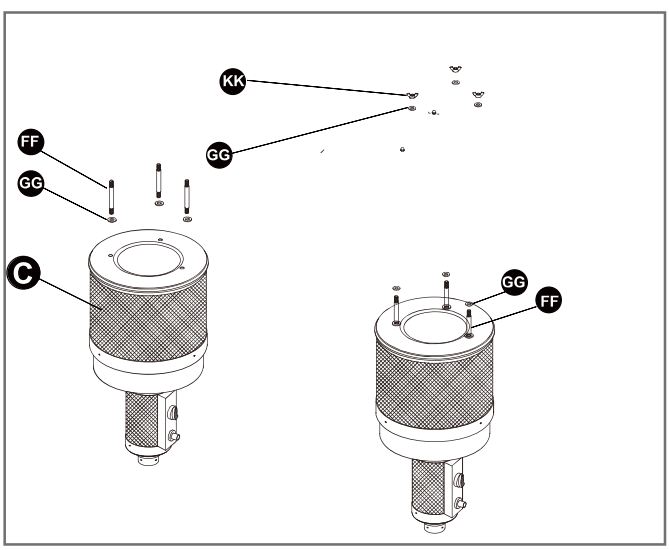




Step 7
Attach 3 pcs reflector spacers (FF) and 3 pcs washers (GG) to burner assembly (C) firstly. Tighten the reflector spacers.
Slide 3pcs washers (GG) over threaded end of spacer.
Attach the reflector assembly to the top of reflector spacer (FF) using 3 pcs washers (GG) and 3 pcs wing nuts (KK).

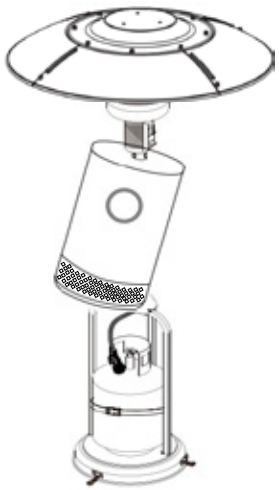
Hardware Used

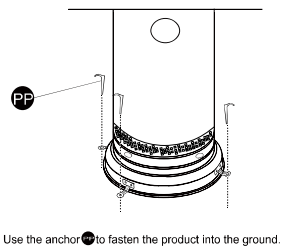
FF	Reflector spacer		x 3
GG	Washer		x 9
KK	Wing nut		x 3



Step 8

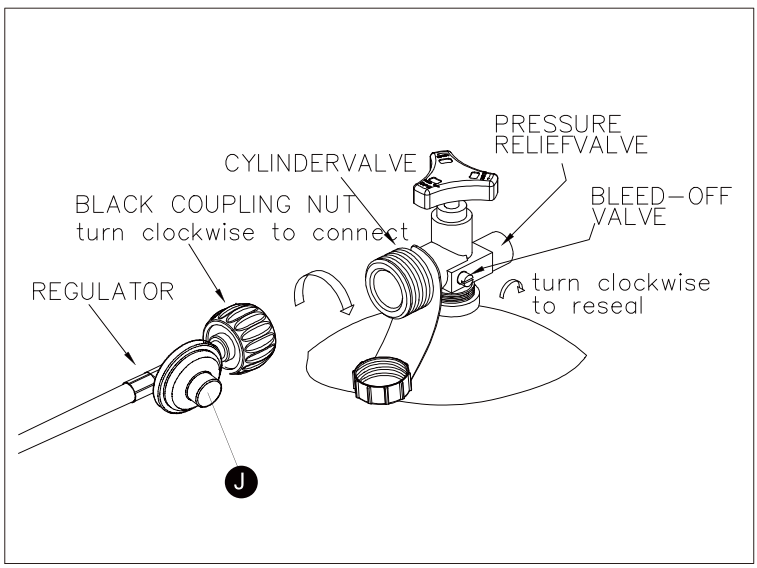
Place the propane gas tank (not included) on the base.
The cylinder must have a listed overfilling prevention device.
The cylinder must have a connection device compatible with the connection for the appliance.
The cylinder used must include a collar to protect the cylinder valve.
Never connect an unregulated propane cylinder to the heater.
Attach regulator to cylinder. Complete attachment.
Install cylinder.
Fix the gas cylinder with the belt.





Step 9

Turn the cylinder valve on the tank clockwise to close the propane tank. Attach the regulator (J) to the cylinder valve by turning the regulator coupling nut clockwise. Make sure it is fastened securely and tighten connections by hand only.



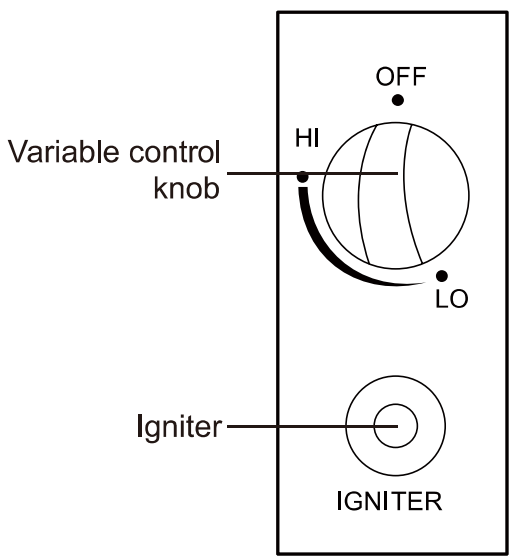
OPERATION

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).

To Light

1. Turn on the valve on the gas supply cylinder.
2. Press and turn the variable control knob to the ‘HI’ position and hold for 3-5 seconds.
3. While holding down the variable control knob, press the igniter button several times until the burner head flame ignites. Release the variable control knob 30 seconds after the ignition.
4. If a new tank has just been connected, allow at least one minute or more for the air in the gas pipeline to purge out.
5. The flame can be watched and checked from the viewing hole located on the base of the burner.
6. Turn the variable control knob to the ‘LO’ position for 5 minutes or more before turning the knob to desired temperature setting. If a small flame is needed, turn the variable control knob to the ‘LO’ position.
7. If the burner flame goes out accidentally or it is blown out by wind, turn off the heater and wait at least 5 minutes or more to let the gas dissipate before lighting again to avoid possible gas explosion. Repeat steps 2 through 3.



When lit for the first time the heater may emit a slight odor and smoke. This is a normal and temporary condition. Emitter screen will become a bright red due to the heat. The color is more visible at night. Flame patterns should be a blue flame; these flames should not be yellow in color; indicating an obstruction of airflow through the burners.

To Extinguish

1. Turn control knob clockwise to the “off” position.
2. Close the cylinder valve on the propane gas tank if you don’t intend to use it for a long time.

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.
- Storage of an appliance indoors is permissible only if the cylinder is disconnected and removed from the appliance.
- 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 when not in use.

TROUBLESHOOTING

Problem	Cause	Solution
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 odor 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 odor 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 odor during combustion.	There is foreign matter in the gas or on the burner ports.	Check the gas passageway and burner.
	The heater is burning vapors from paint or impurities in the air.	Stop storing and using odor 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.

WARRANTY

The manufacturer warranty will be voided by, and manufacturer disclaims any responsibility for, the following actions:

- Modification of the unit and/or components including the gas valve assembly.
- Use and installation other than what is listed in this manual.

Please contact the manufacturer for replacement parts.