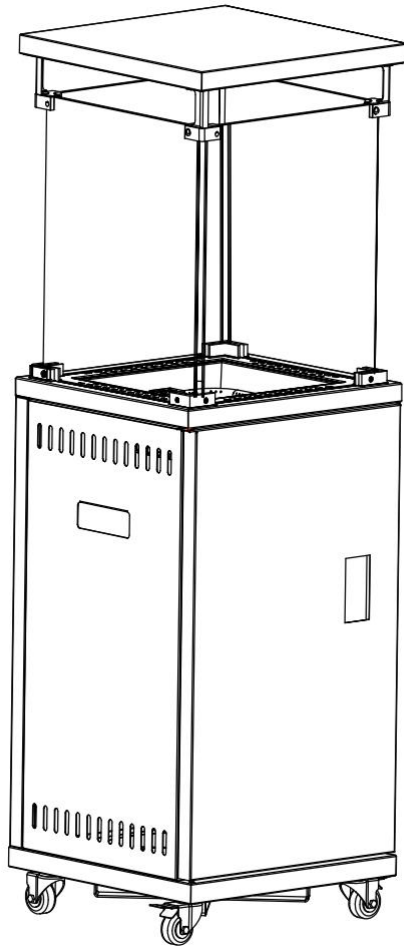


PATIO HEATER

INSTRUCTION MANUAL



KEEP THE INSTRUCTIONS FOR FUTURE REFERENCE

WARNING SAFETY RULES

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

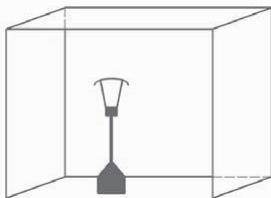
FOR YOUR SAFETY

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.
4. Do not store or use petrol or other flammable vapors or liquids in the vicinity of this or any other appliance.
5. 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.

- 1.This appliance must be installed and the gas cylinder stored in accordance with the regulations in force.
- 2.Do not obstruct the ventilation holes of the cylinder housing.
- 3.Do not move the appliance when in operation.
- 4.Shut off the valve at the gas cylinder or the regulator before moving the appliance.
- 5.The tubing or the flexible hose must be changed within the prescribed intervals.
- 6.Use only the type of gas and the type of cylinder specified by the manufacturer.
- 7.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.
- 8.In case of violent wind particular attention must be taken against tilting of the appliance. Keep the gas cylinder at least 1m away from the gas burner.
- 9.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 EN 509:1999+A2:2004 & EN 14543:2017) 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).

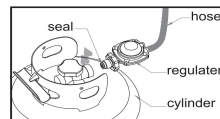
Use 50mbar regulator for butane/propane under the category I3B/P(50).

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

CAUTION

PLEASE READ CAREFULLY THE FOLLOWING SAFETY GUIDELINES BEFORE OPERATION.

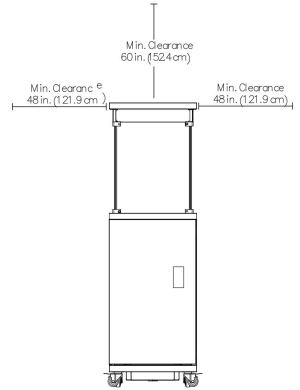
- Do not use the patio heater for indoors, as it may cause personal injury or property damage.
- This outdoor heater is not intended to be installed on recreational vehicles and/or boats.
- Installation and repair should be done by a qualified service person.
- Improper installation, adjustment or alteration 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 vapors 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 (below).
- 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.
- 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 for outdoor use only. Always ensure that adequate fresh air ventilation is provided.
- Always maintain proper clearance to combustibles materials, i.e. top 153cm and sides 122cm minimum.
- Heater must be placed on level firm ground.
- Never operate heater in an explosive atmosphere like in areas where petrol 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 based must conform to local standard regulations.
- The installation must conform to local regulations, or in the absence of local regulations , 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



AA



BB



CC



DD



EE



FF



GG



HH



II



JJ



KK



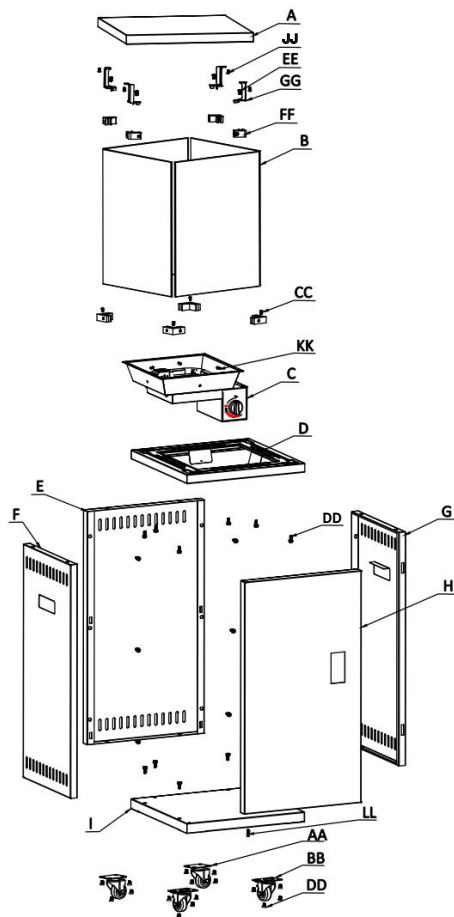
NN

ITEM NO. DESCRIPTION		QTY	
AA	WHEEL		2
BB	WHEEL WITH BRAKE		2
CC	SCREW M4X30		4
DD	OUTER HEXAGON SCREW M6X16		34
EE	SCREW M6X12		9
FF	ALUMINUM GLASS FIXING		8
GG	ALUMINUM COVER SUPPORT		4
HH	WRENCH		1
II	SCREWDRIVER		1
JJ	SCREW M4X12 (BLACK COLOR)		4
KK	STAINLESS STEEL SCREW 3/16		4
NN	FLANGE NUT M6		1

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: 60-90 minutes

CONTENTS AND PARTS



ITEM NO.	DESCRIPTION	QTY
A	TOP COVER	1
B	GLASS	4
C	BURNER ASSY	1
D	BURNER HOLDER	1
E	BACK PANEL	1
F	LEFT PANEL	1
G	RIGHT PANEL	1
H	FRONT PANEL	1
I	BASE	1

A. CONSTRUCTION AND CHARACTERISTICS

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

B. SPECIFICATIONS

- Use propane or butane gas or mixture thereof only.
- Max. wattage: 11,000 watts
- Min. wattage: 5,000 watts
- Consumption:

APPLIANCE CATEGORY:	I3+(28-30/37)		I3B/P(30)	I3B/P(50)	I3B/P(37)
TYPE OF GAS:	Butane	Propane	Butane, Propane Or their mixtures	Butane, Propane Or their mixtures	Butane, Propane Or their mixtures
GAS PRESSURE:	28-30mbar	37mbar	30mbar	50mbar	37mbar
OUTLET PRESSURE OF REGULATOR:	28-30mbar	37mbar	30mbar	50mbar	37mbar

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

C. TABLE OF INJECTOR

APPLIANCE CATEGORY:	I3+(28-30/37)		I3B/P(30)	I3B/P(50)	I3B/P(37)
TYPE OF GAS:	Butane	Propane	Butane, Propane Or their mixtures	Butane, Propane Or their mixtures	Butane, Propane Or their mixtures
GAS PRESSURE:	28-30mbar	37mbar	30mbar	50mbar	
TOTAL HEAT INPUT (Hs):(Qn)	11KW (G30: 867g/h; G31: 855g/h)				
INJECTOR SIZE:	1.60mm for main burner			1.40mm for main burner	1.50mm for main burner

The marking, for example, 1.60 on the injector, indicates that the size of injector is 1.60mm

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

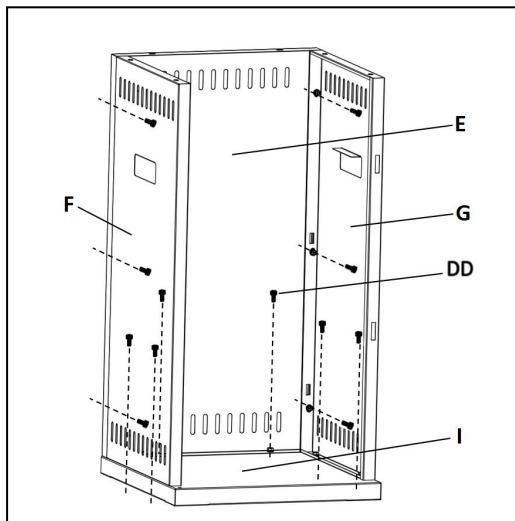
ASSEMBLY INSTRUCTIONS

1. Place left, back and right panel (F) (E) (G) on base (I), make sure all parts connected with each other well, for better assemble burner holder later, LOOSELY tighten all parts by using 12pcs screw (DD).

HARDWARE USED

DD

OUTER HEXAGON SCREW M6X16
X12



2. Place the assembled cylinder tank in STEP1 upside down on a clear ground, then securely assemble 2pcs wheels (AA) and 2pcs wheels (BB) to the base by using 16pcs of outer hexagon screws (DD).

HARDWARE USED

AA

WHEEL
X2



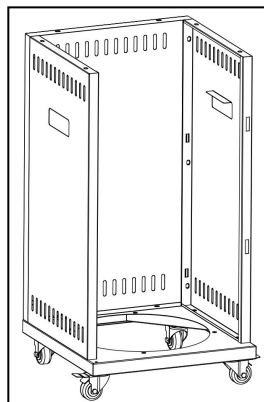
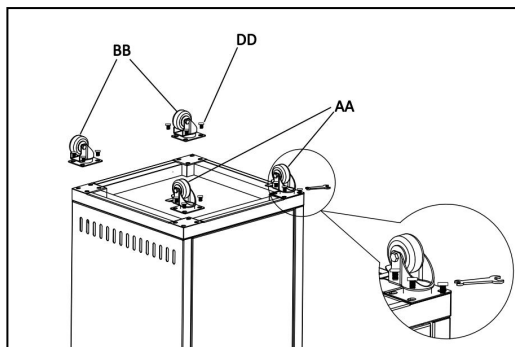
BB

WHEEL WITH BRAKE
X2



DD

OUTER HEXAGON
SCREW M6X16
X16



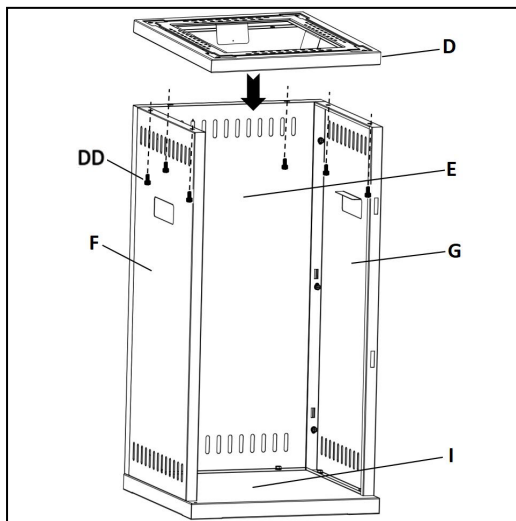
ASSEMBLY INSTRUCTIONS

3. Place down the burner holder (D) on the loosely assembled cylinder tank, make sure all parts connected with each other well, loosely assembled the burner hold to the cylinder tank by using 6pcs screw (DD).

HARDWARE USED

DD

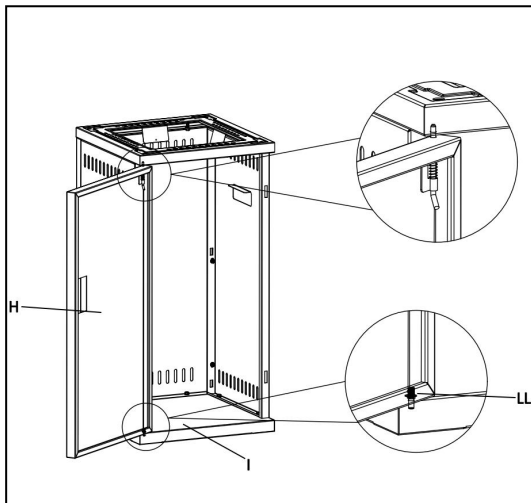
OUTER HEXAGON SCREW M6X16
X6



ATTN.: CHECK ALL PARTS AGAIN TO SEE IF ALL PARTS ON THEIR BEST POSITION, SECURELY
TIGHTEN ALL SCREW(DD) THEN

ASSEMBLY INSTRUCTIONS

4. Place the installed pin (LL) to the hole of base (I) first, pull down another pin which pre-assembled on front panel (H) and release it when it aims to the hole of burner holder (D)



5. Place the burner assy (C) to the center of burner holder, make sure the holder support the burner well, and securely tighten it with 4pcs screws (KK).

HARDWARE USED

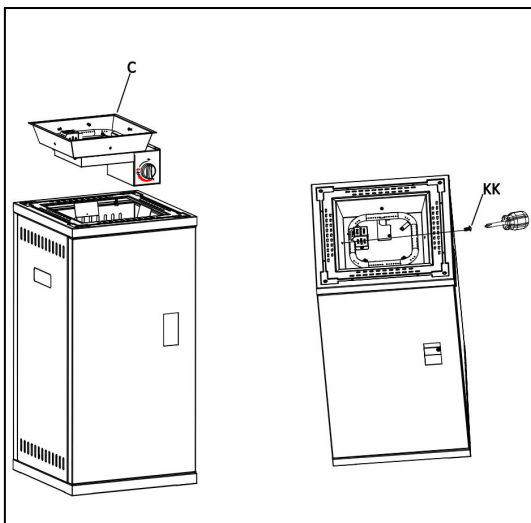
KK

STAINLESS STEEL SCREW 3/16
X4



II

SCREWDRIVER
X1



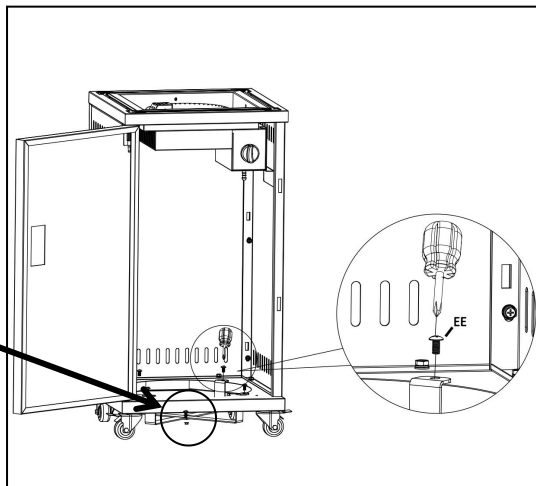
ASSEMBLY INSTRUCTIONS

6. Install gas cylinder fixing to the tank assembly by using 4pcs of screws (EE); Tighten gas cylinder fixing using 1pcs screw (EE) and 1pcs flange nut.

HARDWARE USED

NN FLANGE NUT
X1

EE SCREW M6X12
X5



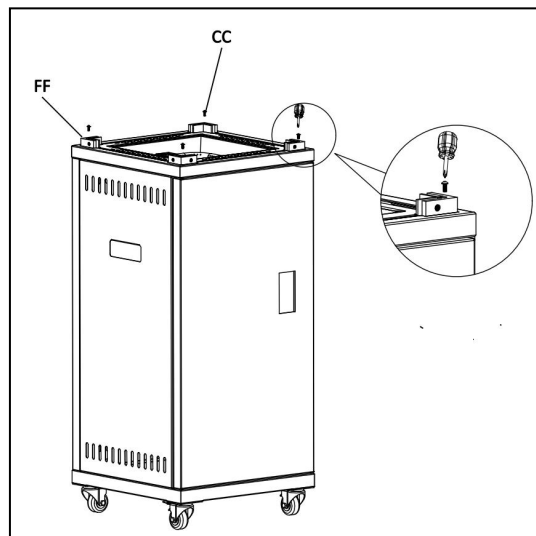
Tips: IF YOUR ORDERED PRODUCT HAS NO GAS CYLINDER FIXING, IGNORE THIS STEP DIRECTLY!!!

7. After assembling the wheels, place cylinder tank upside down again and lock the wheel with brake (BB), place 4pcs glass fixing (FF) and aim to the hole of burner holder, for better to assemble glasses, please LOOSELY tighten them by using 4pcs screw (CC).

HARDWARE USED

FF ALUMINUM GLASS FIXING
X4

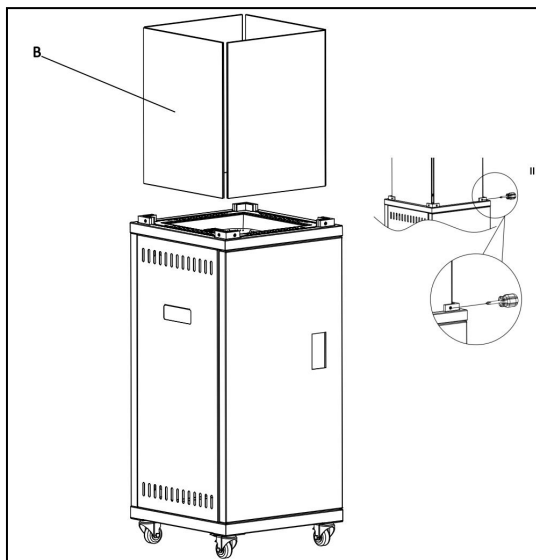
CC SCREW M4X30
X4



Tips: AFTER THIS STEP, PLACE LAVA ROCKS INTO THE BURNER BOWL.

ASSEMBLY INSTRUCTIONS

8. Insert 4pcs glasses to the groove of glass fixing (FF), securely tighten all screws (CC) which were assembled in STEP7 first, then LOOSELY tighten the glasses with screws pre-assembled on glass fixing (FF).



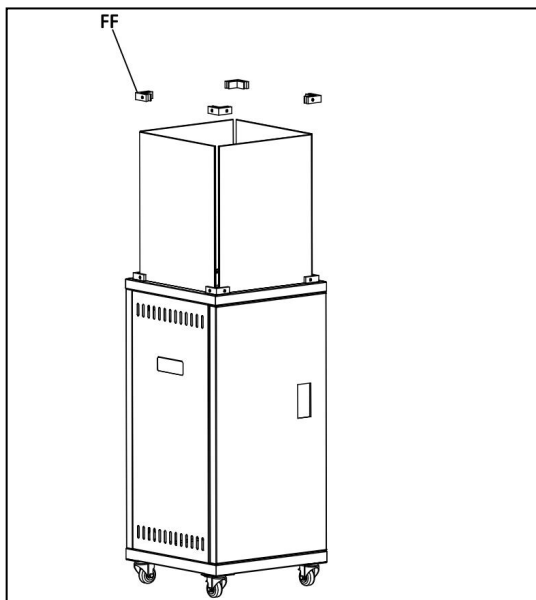
9. Insert glass fixing by attaching glass (B) to the groove and keep the glass (B) and glass fixing on a same level and **tighten all glass and glass fixing with the screw pre-assembled on part (FF) by using screwdriver (II).**

P.S.: GLASS IS EASY TO BREAK, YOU SHOULD TIGHTEN THEM WITH SCRWDRIER BY HANDS, NOT POWER TOOLS.

HARDWARE USED

FF

ALUMINUM GLASS FIXING
X4



ASSEMBLY INSTRUCTIONS

10. Place 4pcs cover support (GG) and aims them to the holes of glass fixing, securely tighten them with 4pcs screws.

HARDWARE USED

GG

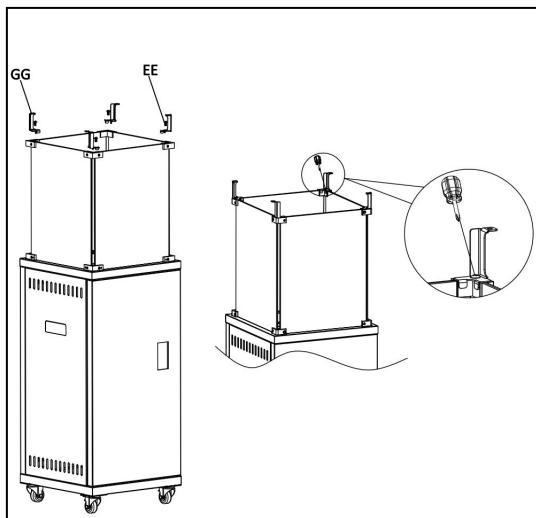
COVER SUPPORT

X4

EE

SCREW M6X12

X4



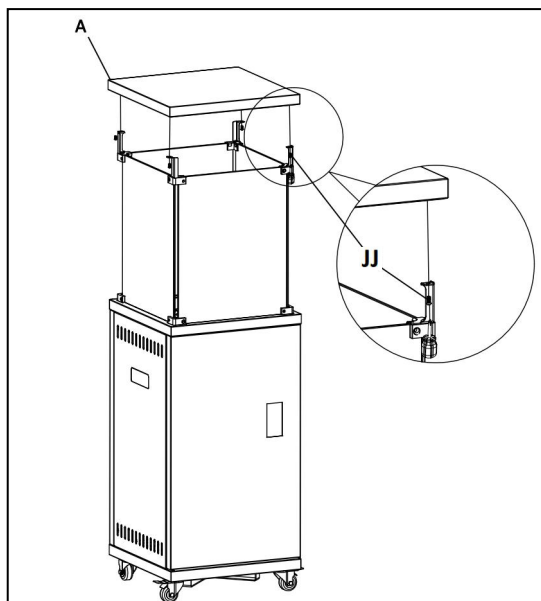
11. Place top cover (A) to the cover support (GG), make sure the holes of cover (A) and cover support (GG) fit well, and securely tighten them with 4pcs screws (JJ).

HARDWARE USED

JJ

SCREW M4X12

X4



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.

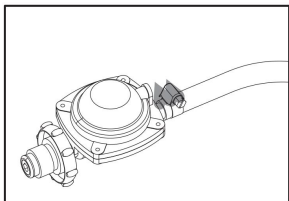


Brush a half-and-half solution of liquid soap and water onto all joints and connections of the regulator, hose, manifolds and valves. (As step 6 where arrows show)

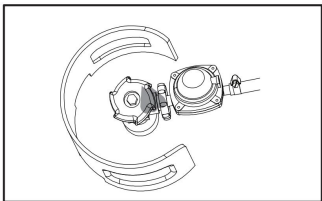


Bubbles will indicate a gas leak. Either tighten the loose joint or have the part replaced with one recommended by the Customer Care Department and have the patio heater inspected by a certified gas installer.

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

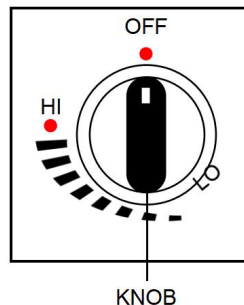
Before performing a leak test, be sure that no sparks can occur and you are in a spacious outdoor area. Connect the propane gas tank to the regulator and turn the valve on the unit to the “off” position. Brush a soap and water mixture on all connections. Turn the gas supply on; if bubbles occur on any 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). Pumice stones/lava rocks/Lava Glass could pop up and strike somebody’s face during the process of lighting this unit; stand away from the unit for the first 20 minutes after igniting. Flame height should be a yellow/blue color between 2 - 10 inches in height.

Wait 5 minutes after extinguishing flame prior to placing a lid (if applicable) or protective cover on heating item.

To Light

1. Make sure the control knob is in the “OFF” position.
2. Open the door (H) and slowly open the valve on the propane gas tank by turning the knob counter clockwise.
3. Push the ignition control knob in fully and rotate about 1/4 turn counter clockwise until a click is heard, it may take several attempts to light the burner.
4. If ignition doesn't occur within a few seconds, release the control knob and rotate to the "OFF" position. Wait for 5 minutes for gas to clear and then repeat the above lighting instructions.



5. To adjust the flame, turn the control knob either clockwise or counter clockwise depending on whether you want to lower or raise the flame.
6. Close the door on the door panel (H) on the body.

To Extinguish

1. Turn control knob to the “HIGH” position; let the knob pop up and continue turning the control knob 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

1. Before performing any maintenance always disconnect gas tank.
2. Keep the heating item free and clear from combustible materials.
3. Visually inspect burner for obstructions and keep tank enclosure free and clear from debris.
4. 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.
5. Harsh weather conditions may cause stubborn stains, discoloration and possibly rust pitting.
6. Permanent damage may occur if powder or solvent comes in contact with painted or plastic components on this heating unit.
7. Keep the heating unit stored away from direct sunlight.
8. If storing this unit inside, disconnect the gas tank from the gas valve.
9. Not using manufacturer approved or supplied parts/accessories may result in a defective condition and void the warranty of this heating unit.
10. Always place lid (if applicable) or protective cover on heating item once cooled and when not in use.

PROBLEMSHOOTING

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 supply 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 supply 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 vapors 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.