



VERMONT CASTINGS™

STAINLESS STEEL PATIO HEATER

USER MANUAL

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WELCOME TO VERMONT CASTINGS®

WELCOME TO VERMONT CASTINGS®. Founded in 1975, Vermont Castings® has always stood for uncompromising commitment to quality craftsmanship and meaningful design.

Lit with purpose, our line of Vermont Castings® barbecues and patio heaters are designed to deliver your best outdoor living experience. With a durable, robust construction built to last through the years, thoughtfully constructed components that stand up to any season, and a simplified system to make maintaining your investment easier, Vermont Castings® continues the promise of unwavering quality and purposeful design.

Vermont Castings® barbecues and patio heaters let you create enduring connections around food and flame.

PLEASE KEEP THIS MANUAL WITH YOUR HEATER FOR
FUTURE REFERENCE

CONTACT US 1-844-586-4660
WWW.VERMONTCASTINGSBBQ.COM

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GETTING STARTED

Peace of mind is priceless. Make sure you know and understand the basics of safe use and installation.

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NEED-TO-KNOW SAFETY



STATEMENTS ARE USED THROUGHOUT THIS OWNER'S MANUAL TO EMPHASIZE CRITICAL AND IMPORTANT INFORMATION. READ AND FOLLOW THESE STATEMENTS TO HELP ENSURE SAFETY AND PREVENT PROPERTY DAMAGE. THE STATEMENTS ARE DEFINED BELOW.

CAUTION: INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN MINOR OR MODERATE INJURY.

WARNING: INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.

DANGER: INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN MINOR OR MODERATE INJURY.



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.



WARNING: FOR OUTDOOR USE ONLY.

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



DANGER: IF YOU SMELL GAS:

1. SHUT OFF GAS TO THE APPLIANCE.
2. EXTINGUISH ANY OPEN FLAME.
3. IF ODOUR CONTINUES, KEEP AWAY FROM THE APPLIANCE AND IMMEDIATELY CALL YOUR GAS SUPPLIER OR FIRE DEPARTMENT.



DANGER: Do not store or use gasoline or other flammable vapours 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.



DANGER

CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odour.
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.



C

US

NEED-TO-KNOW SAFETY



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.

- 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.
- Manifold pressure: 11" w.c. (2.74 kPa).
- Use propane tanks with the following dimensions: diameter 12", height 18", capacity 20 lb.
- You must use a propane tank that has a collar to protect the gas valve.
- DO NOT fill tank over 80% full.
- The tank system must be set up for vapour 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 colour 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.
- Keep all electrical cords and fuel supply hose away from heated surfaces.
- Combustible material should not be within 48" (122 cm) of the top of the unit, or within 48" (122 cm) around the entire unit.
- Keep the appliance area clear and free from combustible material, gasoline and other flammable vapours 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 under or near this appliance.
- 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' (1.5 m) away from unit when lit (if external tank).
- The maximum gas supply: 250 PSI; Min. gas supply: 10 PSI.
- 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.

(Continued next page)

NEED-TO-KNOW SAFETY

(Continued from previous page)

- 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 in accordance with the specifications for the LP-gas cylinders of the U.S. Department of Transportation (DOT) or CSA B339.
- The propane gas tank must have a listed overfilling prevention device and a QCCI or Type I, (CGA791) propane gas tank connection.
- 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 heater.
- Clothing or other flammable materials should not be hung from the heater, or placed on or near the heater.
- Any guard or other protective device removed for servicing the appliance shall be replaced prior to operating the heater.
- Installation and repair should be done by a qualified service person. The heater 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 air passageways of the heater be kept clean.
- Storage of an appliance indoors is permissible only if the cylinder is disconnected and removed from the appliance. A cylinder must be stored outdoors in a well-ventilated area out of the reach of children. A disconnected cylinder must have dust caps tightly installed and must not be stored in a building, garage or any other enclosed area.
- 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.
- Installation of this appliance at altitudes above 2000' (610 m) shall be in accordance with local codes, or in the absence of local codes, ANSI Z223.1/NFPA 54 or CSA B149.1.
- Appliance may shut down in windy conditions in excess of 3 mph (4.83 kph).

Only use the regulator and hose assembly provided with this unit. Replacement parts must be supplied directly by manufacturer.

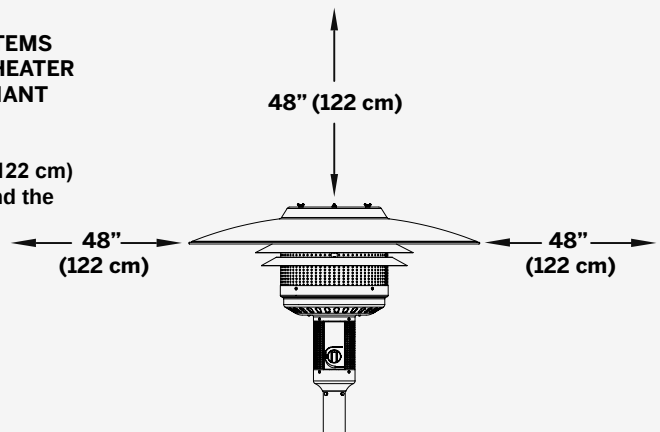
Inspect the burner before use of this unit. If the burner shows any kind of damage, do not operate the appliance. For assistance with repair or replacement of the burner or any other parts, call manufacturer at 1-844-586-4660.



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.

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.

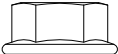
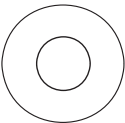
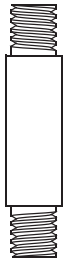
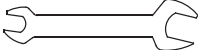
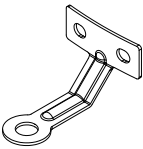
Combustible materials should not be within 48" (122 cm) of the top of the unit, or within 48" (122 cm) around the entire unit.



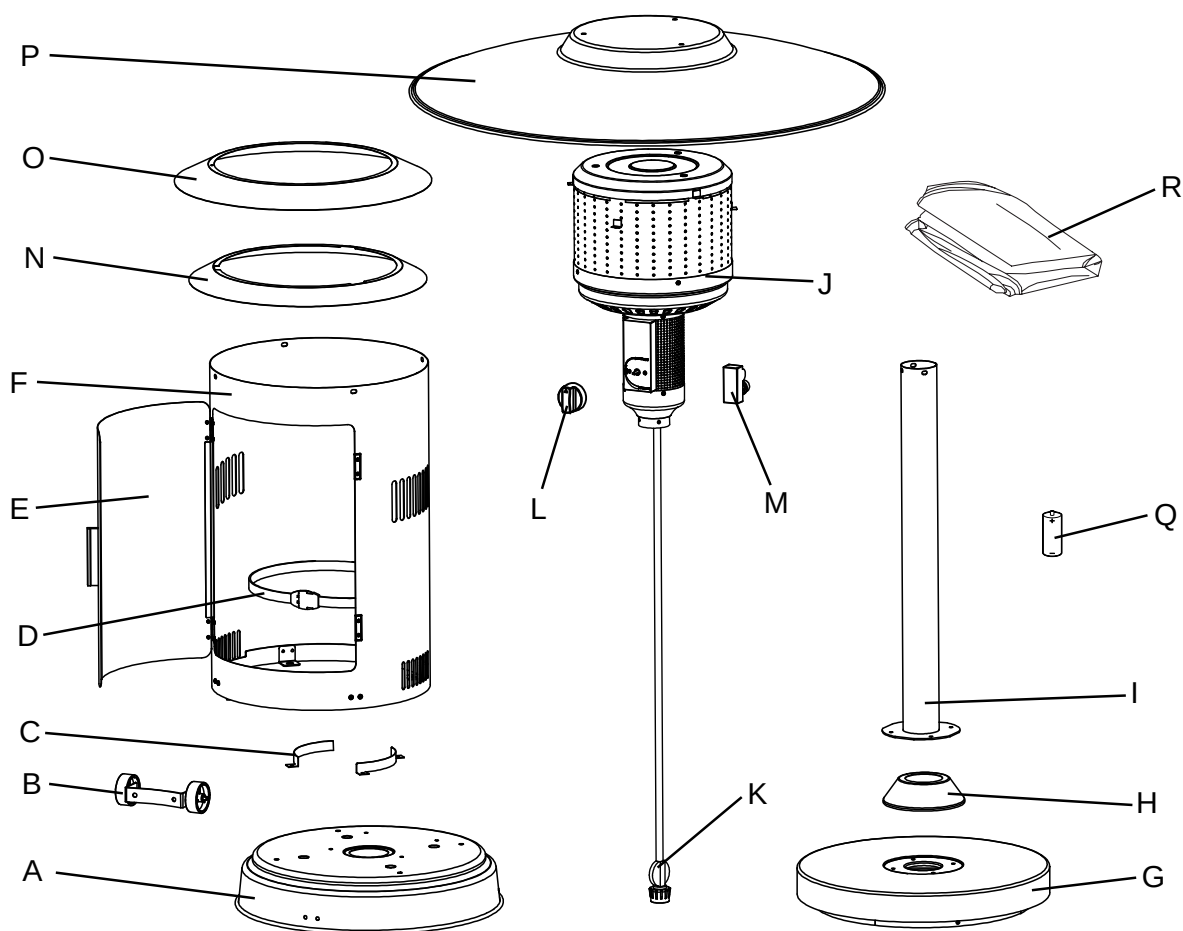
HARDWARE LIST

NOTE: 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
Tools required for assembly (not included): Cross-head Screwdriver

AA	BB	CC	DD	AA	M8 Flange nut (packed with part B)	2
				BB	Bolt M8x16 (packed with part B)	2
				CC	M6 Flange Nut	6
EE	FF	GG	HH	DD	Bolt M6x12 (4 pcs preassembled on part J)	18
				EE	Screw M4x8	2
				FF	Washer	9
				GG	M8 Stud	3
				HH	Wing Nut	3
II	JJ	KK		II	Wrench	1
				JJ	Anchoring Arm	3
				KK	Anchor	3

PARTS LIST



A Base (preassembled) 1

B Wheel Assembly 1

C Tank Positioning Rim (preassembled) 2

D Belt (preassembled) 1

E Door (preassembled) 1

F Tank Housing (preassembled) 1

G Tank Housing Cover 1

H Decorative Cap 1

I Support Pole 1

J Burner Assembly 1

K Regulator (preassembled) 1

L Control Knob (preassembled) 1

M Electronic Igniter (preassembled) 1

N Small Radiation Ring 1

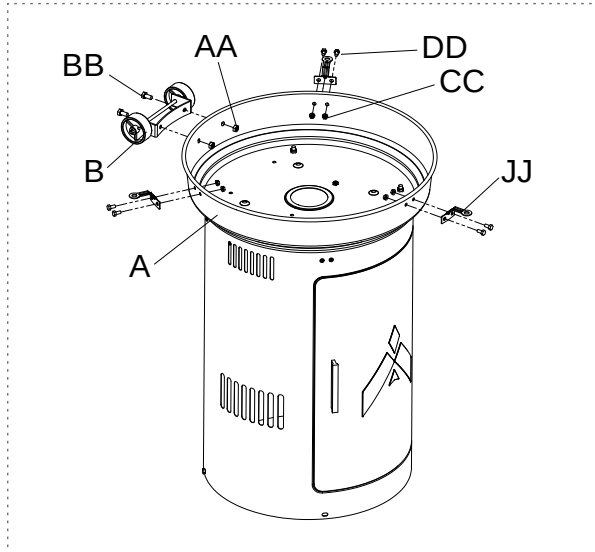
O Big Radiation Ring 1

P Top Reflector 1

Q Battery (AA) 1

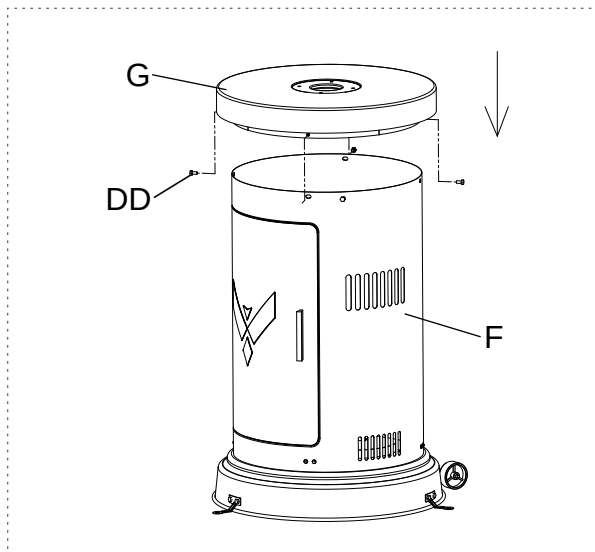
R Protective Cover 1

ASSEMBLY INSTRUCTIONS



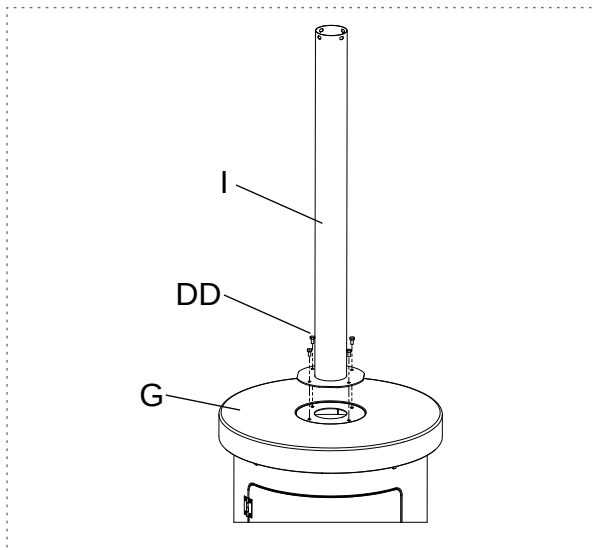
- 1 Turn the base (A) upside down, then attach wheel assembly (B) to base (A) using 2 pcs M8 flange nuts (AA) and 2 pcs bolts M8x16 (BB).

Attach 3 pcs anchoring arm (JJ) to base (A) using 6 pcs M6 flange nuts (CC) and 6 pcs bolts M6x12 (DD).



- 2 Attach tank housing cover (G) to tank housing (F) using 4 pcs bolts M6x12 (DD).

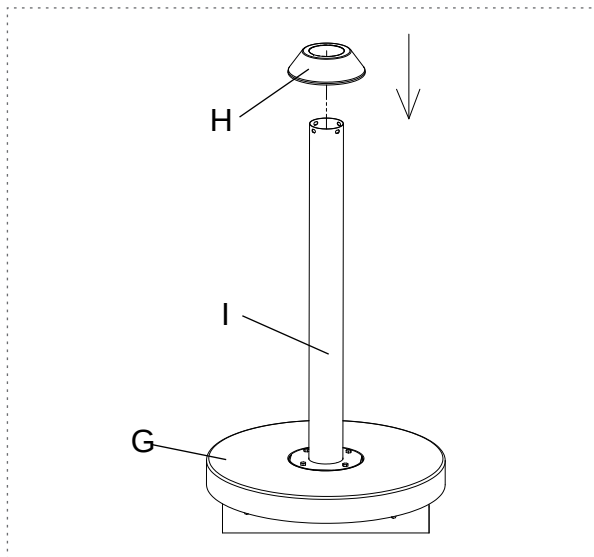
Tighten bolts securely.



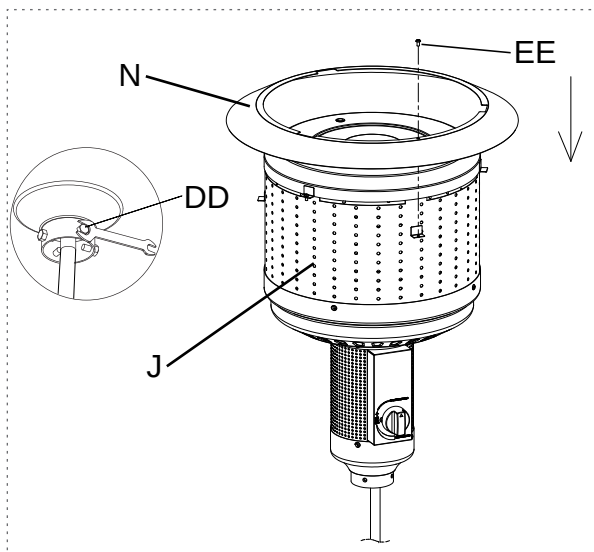
- 3 Attach support pole (I) to tank housing cover (G) using 4 pcs bolts M6x12 (DD).

Be sure that the lighting label faces the door side. Tighten bolts securely.

ASSEMBLY INSTRUCTIONS

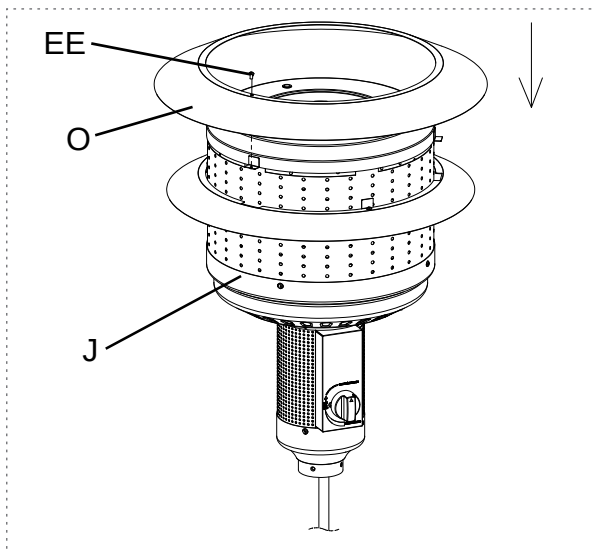


- 4** Put the decorative cap (H) on the support pole (I) and put it down to tank housing cover (G) gently.



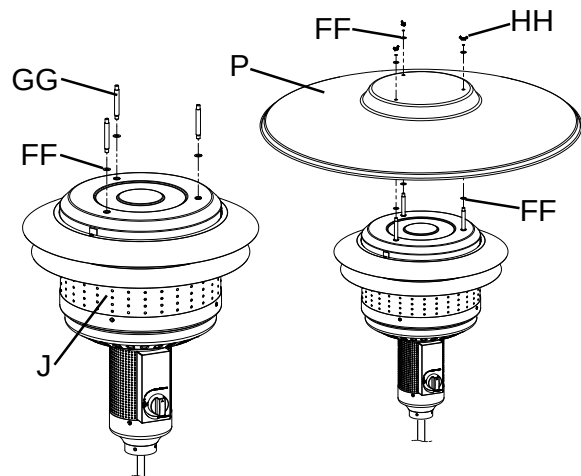
- 5** Remove the 4 pcs preassembled bolts M6x12 (DD) from the burner assembly (J).

Insert the small radiation ring (N) from the top end of the burner assembly (J) to the lower layer support tabs, align the small hole on the small radiation ring with the threaded hole on one support tab and attach it using 1 pc screw M4x8 (EE).

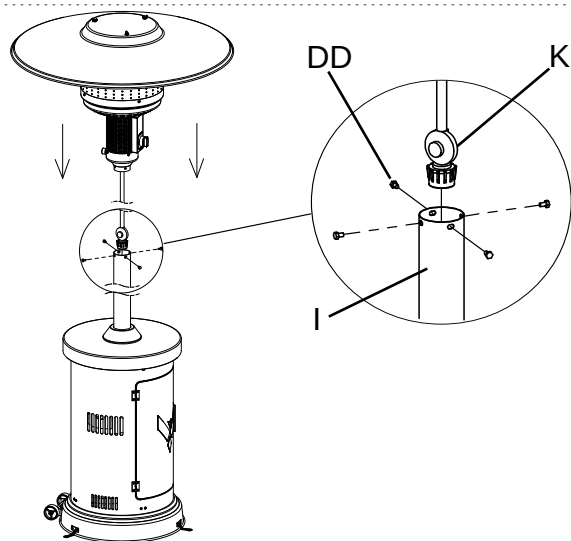


- 6** Insert the big radiation ring (O) from the top end of the burner assembly (J) to the upper layer support tabs, align the small hole on the big radiation ring with the threaded hole on one support tab and attach it using 1 pc screw M4x8 (EE).

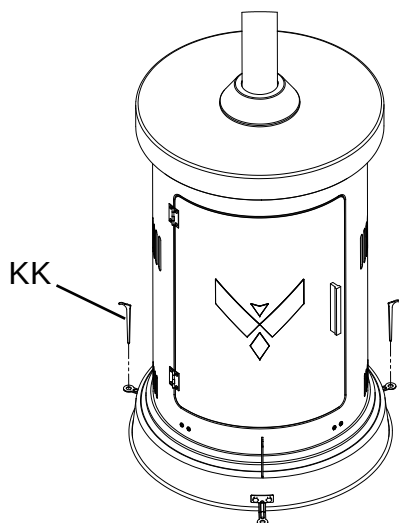
ASSEMBLY INSTRUCTIONS



- 7 Attach 3 pcs M8 studs (GG) and 3 pcs washers (FF) to burner assembly (J) first. Tighten the M8 studs (GG). Slide 3 pcs washers (FF) over threaded end of studs. Attach the top reflector (P) to the top of M8 studs (GG) using 3 pcs washers (FF) and 3 pcs wing nuts (HH).

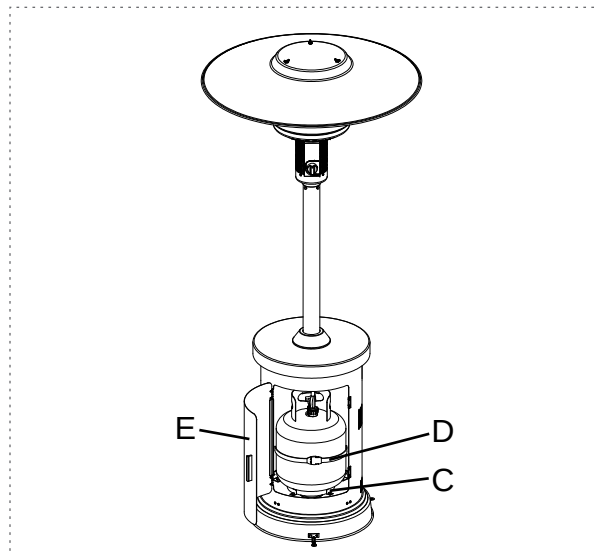


- 8 With the help of another person, insert the regulator (K) from the top end of the support pole (I), then attach the burner head made in last step to the support pole (I) using the 4 pcs bolt M6x12 (DD) removed at the beginning of step 5. Be sure that the control knob faces the door side. Tighten bolts securely.

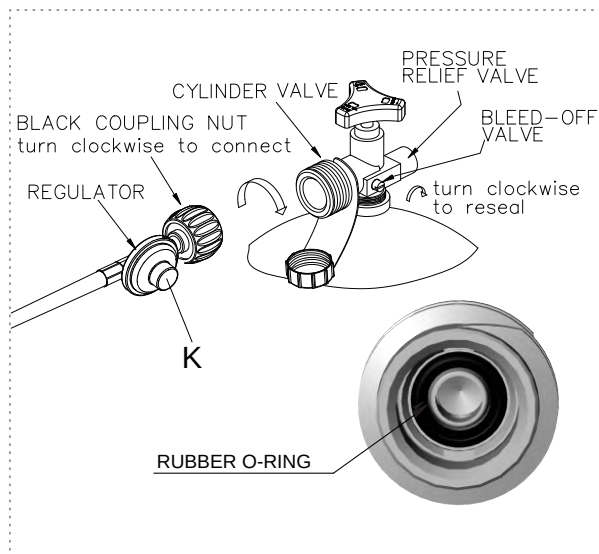


- 9 Use the anchors (KK) to fasten the product into the ground.

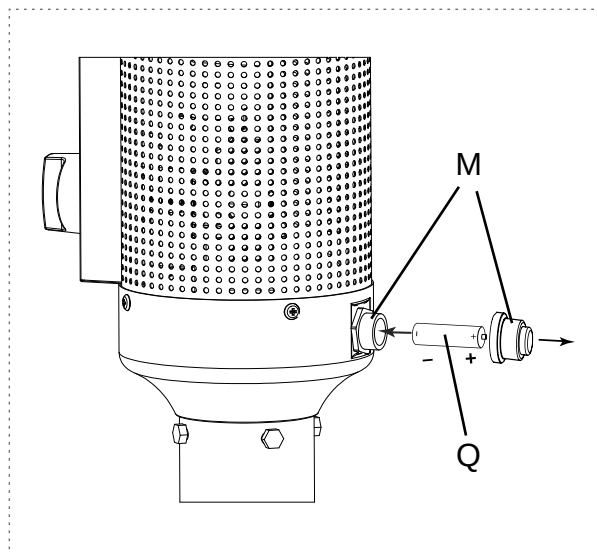
ASSEMBLY INSTRUCTIONS



- 10** Open the door (E) and place the propane gas tank (not included) into tank housing; ensure the base of propane tank is located between the two tank positioning rims (C). Tighten the belt (D) to ensure the propane gas tank is fully secured.



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



- 12** Remove the cap on the electronic igniter (M) by unscrewing and slide battery (Q) into the battery slot. Make sure the positive side of the battery faces outwards. Screw the electronic igniter cap (M) over the battery tightly.

ASSEMBLY INSTRUCTIONS

WARNING: PLEASE INSPECT THE RUBBER O-RING IN THE PROPANE TANK VALVE TO ENSURE IT IS NOT WORN BEFORE ATTACHING REGULATOR. A WORN RUBBER O-RING CAN CAUSE LEAKS, EXPLOSIONS AND SERIOUS INJURY FROM THE PROPANE TANK.

LEAK TESTING



PERFORM A LEAK TEST BEFORE USING. BEFORE PERFORMING A LEAK TEST, BE SURE THAT NO SPARKS CAN OCCUR AND YOU ARE IN A SPACIOUS OUTDOOR AREA.

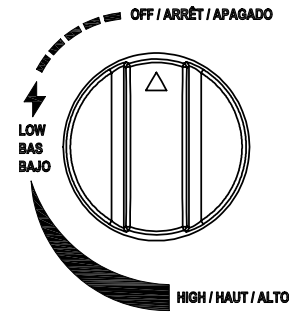
- 1 **Connect the propane gas tank to the regulator and turn the valve on the unit to the 'OFF' position.**
- 2 **Brush a soap and water mixture on all connections.**
- 3 **Turn the gas supply on; if bubbles occur on any connection there may be a leak.**
- 4 **If you smell gas or a leak is discovered 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).

LIGHTING

- 1 Make sure the control knob is in the 'OFF' position.
- 2 Slowly open the valve on the propane gas tank by turning the knob counter-clockwise.
- 3 A pulse igniter is built into the control knob so pushing and turning the control knob counter-clockwise to the 'LOW' position will ignite the fuel. Once lit, keep holding down the control knob for 15 seconds.
- 4 If ignition does not immediately take place in seconds, push and turn the control knob (L) clockwise to 'OFF' and wait 5 minutes, and then repeat the lighting procedure as above.
- 5 If igniter does not light burner, use a long match or long butane lighter.
- 6 Adjust flame to desired intensity with the control knob.
- 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 step 3.



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

EXTINGUISHING

- 1 Turn and push the control knob clockwise to the 'OFF' position.
- 2 Turn the cylinder valve on the gas tank clockwise to close.

NOTE: DISCONNECT PROPANE CYLINDER IF YOU DON'T INTEND TO USE IT FOR A LONG TIME.

CLEANING

- 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, discolouration 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.

INSPECTION

- Keep the heating item free and clear from combustible materials.
- Visually inspect burner for obstructions and keep tank enclosure free and clear from debris.

PROTECTION AND STORAGE

- Keep the heating unit stored away from direct sunlight.
- If storing this unit inside, disconnect the propane gas tank from the gas valve.
- Always place protective cover on heating item when not in use.

NOTE: BEFORE PERFORMING ANY MAINTENANCE ALWAYS DISCONNECT PROPANE GAS TANK. NOT USING MANUFACTURER APPROVED OR SUPPLIED PARTS/ACCESSORIES MAY RESULT IN A DEFECTIVE CONDITION AND VOID THE WARRANTY OF THIS HEATING UNIT.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The burner will not light.	The burner injector is clogged.	Clean the burner injector.
	There is low gas supply pressure.	Check with your propane supplier.
The burner flame goes off immediately after ignition.	There is low gas pressure.	Check with your propane supplier.
The ignition is delayed.	The main burner carryover ports are clogged.	Clean the main burner ports.
	There is low gas pressure.	Check with your propane 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.

WARRANTY

- **Limited 10-Year warranty on all 304 stainless steel components against defects in manufacturing or materials. All other components have a 2-Year limited warranty against defects in manufacturing or materials.**
- **The manufacturer warranty will be voided by, and manufacturer disclaims any responsibility for, the following actions:**
 - **Use of any component part not manufactured or approved by Manufacturer.**
 - **Use and installation other than what is listed in this manual.**
- **Please contact the manufacturer for replacement parts.**

CONTACT

- **If you have any questions or concerns, please contact Vermont Castings® Customer Support at the below resources:**

Toll-free phone	1-844-586-4660 Monday – Friday, 8:00 am - 4: 30 pm CST
Website	www.vermontcastingsbbq.com