**Item No. 554RNDFHSS, 554RNDFHSTL, 554RNDFHBLK, 554RNDFHBZ**

01.2025

BACKYARD PRO®

# ROUND PATIO HEATER

## User Manual

- **Retain this manual for future reference.**
- **Unit must be kept clear of combustibles at all times.**

C ETL LISTED US
Intertek
3177588

## TABLE OF CONTENTS



## OWNER'S INFORMATION

Please complete this information and retain this manual for the life of the equipment. For warranty purposes:

Model # _____

Serial # _____

Date of Purchase _____

Order # _____

# SAFETY INFORMATION

**Read the Manual:** Thoroughly read and understand the manual before setting up, operating, or cleaning the Commercial Electric Heater.

**Ventilation:** Ensure the heater has sufficient ventilation. Do not use in buildings, garages, or other enclosed areas. May be installed with shelter if it meets the following conditions:

- Walls on all sides but no overhead cover.
- Partial enclosure with overhead cover and no more than two side walls.
- Partial enclosure with overhead cover and three side walls, provided that 30% or more of the horizontal periphery is permanently open.

**Surfaces:** Do not touch hot surfaces. Use handles or knobs.

**Child Safety:** Keep children away from the heater to prevent accidents and misuse.

**Cord Safety:** To protect against electric shock, do not immerse cords, plugs, or the equipment in water or other liquid and keep cords away from wet areas. Ensure cords do not dangle over the edge of counters to prevent tripping hazards. Replace cords only with the manufacturer's cord set.

**Cleaning and Maintenance:** Follow regular cleaning and maintenance schedules listed in the manual to ensure safe and hygienic operation.

**Sanitization:** Sanitize the interior of the heater after cleaning to prevent food contamination.

**Instruction and Training:** Instruct and train users in safe and correct heater operation to prevent accidents and achieve consistent frying results.

**Element Check:** Inspect the heating elements regularly for proper function and absence of damage.

**No Unauthorized Modifications:** Never modify the heater's settings, components, or features, or use such components or features in unintended ways outside of the manufacturer's specifications, as this may compromise safety and void warranties.

**Emergency Procedures:** Be prepared to turn off the heater quickly in case of emergencies or accidents.

**Instruction Labels:** Ensure any operational and safety labels on the heater are visible and legible. Do not remove any operational or safety labels.

**Regular Inspection:** Inspect the heater regularly for signs of wear, damage, or malfunction and address any issues promptly.

**Maintenance Schedule:** Adhere to the recommended maintenance schedule in the "Maintenance" section to ensure the heater's longevity and safety.

**Cancer and Reproductive Harm:** This product can expose you to chemicals including Lead and Lead Compounds, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

- **Storage Warning:**

  - Do not store in locations that will exceed 120°F (49°C).

**Safety Warning**

- **Tube Handling:**

  - Do not over bend the tube.

  - Ensure the tube does not touch any hot parts or sharp edges to prevent damage.

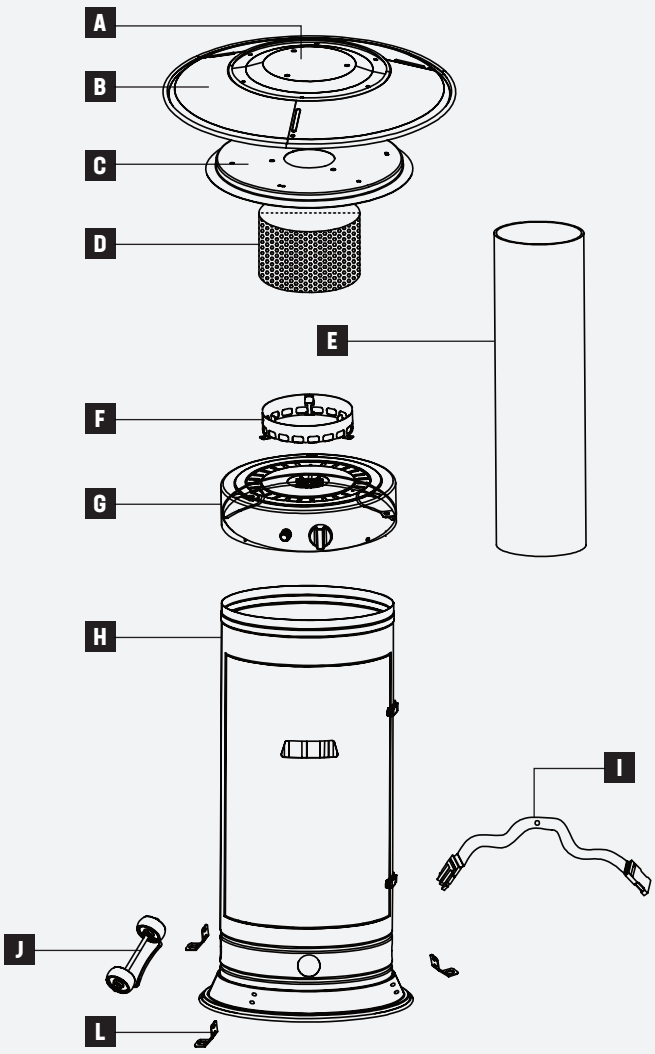
## SAFETY WARNING

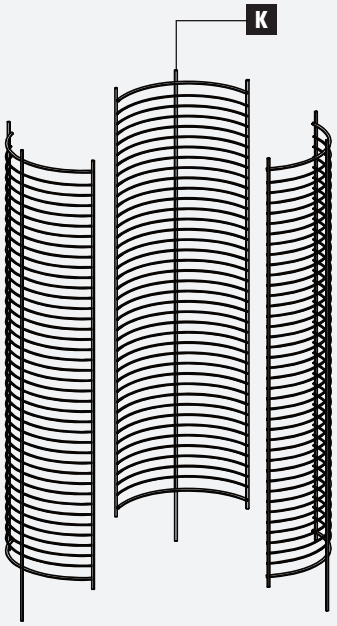
- **Hose Leak Test:** Always test the hose for leaks with soapy water at both connections.
- **Rain Precautions:**
  - Never use the heater while it is raining; the glass tube can break when suddenly met with water.
  - Always turn off the heater while it is raining.
  - Never splash any liquid onto the glass tube when the heater is working.
- **Glass Tube Safety:**
  - The glass tube will be extremely hot when the heater is working; keep children away and do not touch the glass tube.
  - Ensure the heater stands firm; the glass tube may break if the heater falls over.
  - Never use the heater if the glass tube has any cracks.

## INITIAL SETUP

- **Inspect the Packaging:** Examine the patio heater's packaging for any signs of damage that may have occurred during shipping.
- **Unboxing:** Open the packaging with care. Use scissors or a box cutter to cut open the box, ensuring you do not damage the heater or its components.
- **Remove All Components:** Remove the heater and all parts from the box.
- **Placement:** Ensure a minimum clearance of 50" on all sides and above the heater to ensure proper airflow. Place on a stable surface.

# ASSEMBLY INSTRUCTIONS



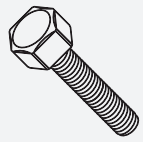
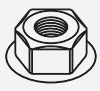




## PARTS LIST

**Components:**

**A:** Reflector
**B:** Reflector Plate
**C:** Heat Insulation Plate
**D:** Flame Screen
**E:** Glass Tube
**F:** Glass Tube Ring
**G:** Burner
**H:** Tank Housing
**I:** Belt
**J:** Wheel Assembly
**K:** (3) Mesh Guards
**L:** (3) Anchoring Arms

## HARDWARE

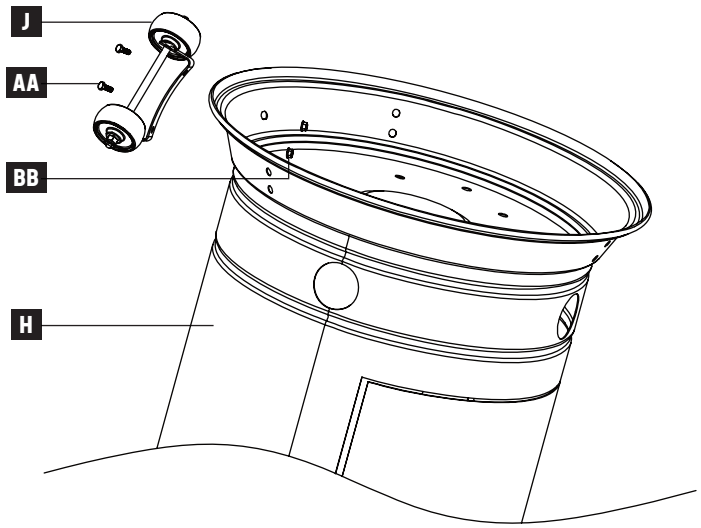
| | | | | | | |
|---|---|---|---|---|---|---|
| **AA** M8 x 16 Screws \| QTY:2  | **BB** M8 Nuts QTY: 2  | **CC** M5 x 12 Screws \| QTY: 4  | **DD** M5 Nuts QTY: 10  | **EE** Preassembled Burner Screws QTY: 3  | **FF** Screws QTY: 9  | **GG** Nuts \| QTY: 9  |
| **HH** M8 x 65 Double Headed Screws QTY: 3  | **II** M8 Nuts QTY: 3  | **JJ** Flat Washers QTY: 6  | **KK** M6 x 12 Screws \| QTY: 6  | **LL** M6 Nuts QTY: 6  | **MM** Anchors \| QTY: 3  | |

# ASSEMBLY INSTRUCTIONS

## Step 1

**Wheel Assembly**

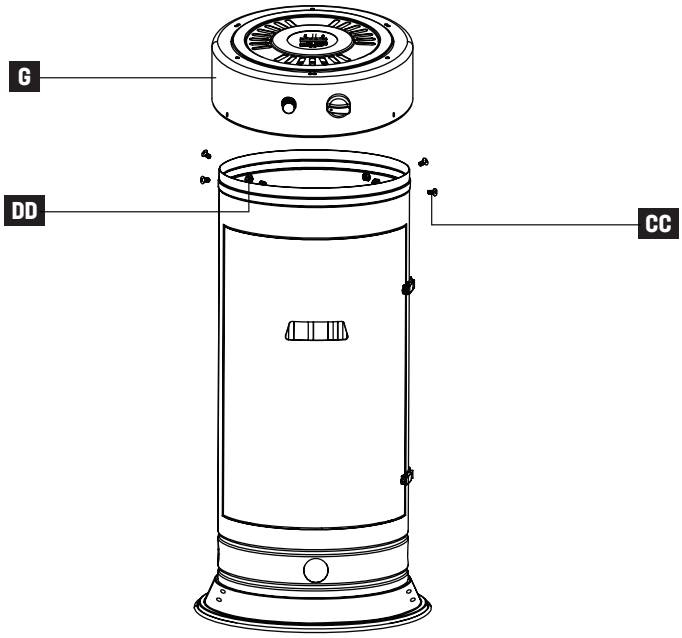
1. **Position the Tank Housing:**
   - Flip the tank housing (H) upside down to provide easier access to the base.
2. **Attach Wheel Assembly:**
   - Position the wheel assembly (J) at the base of the tank housing (H).
   - Secure the wheel assembly (J) using two M8 x 16 screws (AA) and M8 nuts (BB).
   - Tighten the screws and nuts securely to ensure the wheel assembly is firmly attached.




## Step 2

**Burner Assembly**

1. **Position the Burner:**
   - Place the burner (G) on top of the tank housing (H).
2. **Secure the Burner:**
   - Use four M5 x 12 screws (CC) and M5 nuts (DD) to attach the burner (G) to the tank housing (H).
   - Ensure all screws and nuts are tightly secured.

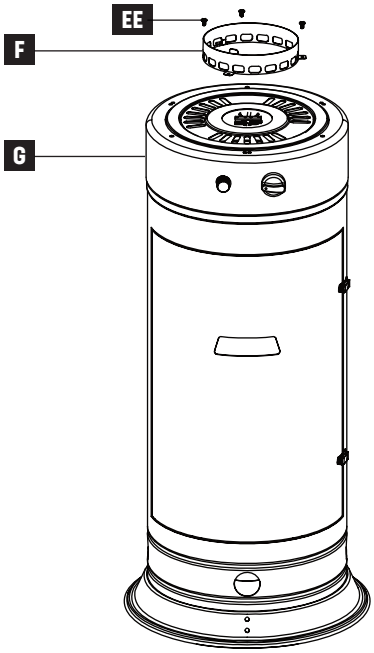


# ASSEMBLY INSTRUCTIONS

## Step 3

**Glass Tube Ring Attachment**

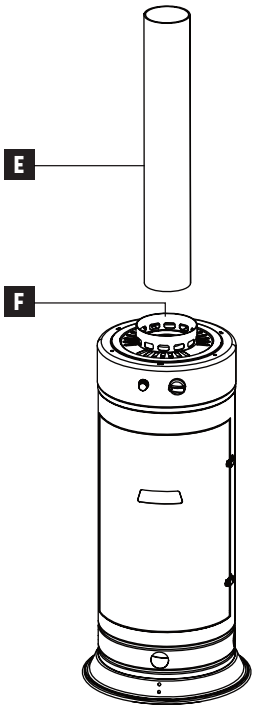
1. **Remove Preassembled Screws:**
   - Carefully remove the three preassembled screws (EE) from the top of the burner (G).
2. **Attach Glass Tube Ring:**
   - Align the glass tube ring (F) with the top of the burner (G).
   - Use the three preassembled screws (EE) removed earlier to attach the glass tube ring (F) to the burner (G).
   - Fully tighten the screws to ensure a secure fit.




## Step 4

**Glass Tube Placement**

1. **Position the Glass Tube:**
   - Carefully place the glass tube (E) into the top of the glass tube ring (F).
   - Ensure the glass tube is properly seated and stable within the ring.

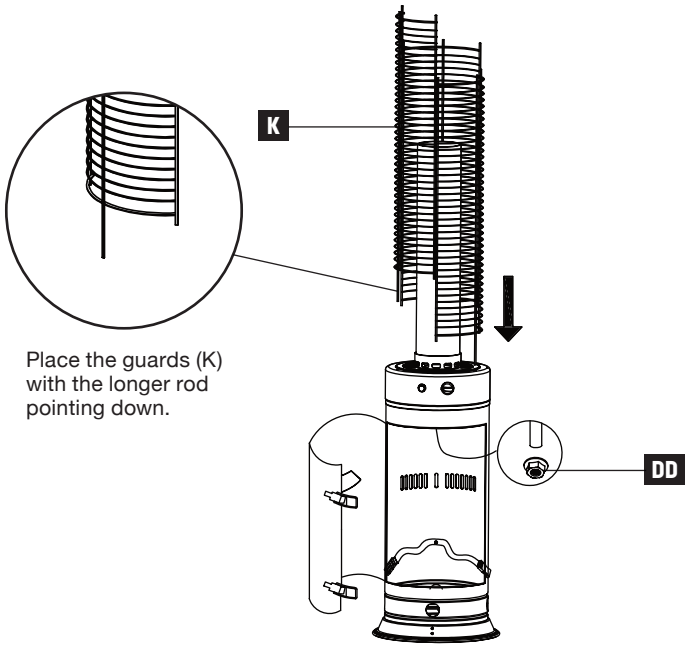


# ASSEMBLY INSTRUCTIONS

## Step 5

**Mesh Guards Installation**

1. **Attach Mesh Guards:**
   - Position the three mesh guards (K) onto the hooks located at the top of the burner (G).
   - Secure the bottom of the mesh guards using three M5 nuts (DD).
   - Ensure the mesh guards are tightly secured and stable.

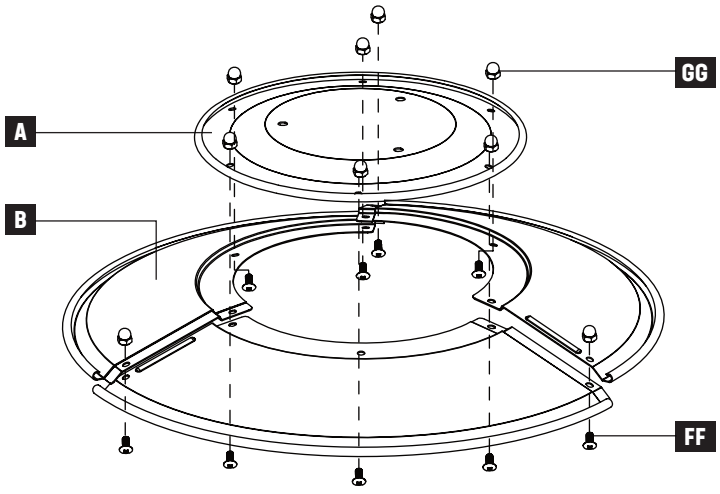



Place the guards (K) with the longer rod pointing down.

## Step 6

**Reflector Assembly**

1. **Assemble Reflector Components:**
   - Align the reflector (A) and reflector plate (B).
2. **Secure Reflector Components:**
   - Use nine screws (FF) and nine nuts (GG) to assemble the reflector assembly (A+B).
   - Tighten all screws and nuts to ensure the reflector components are firmly attached.

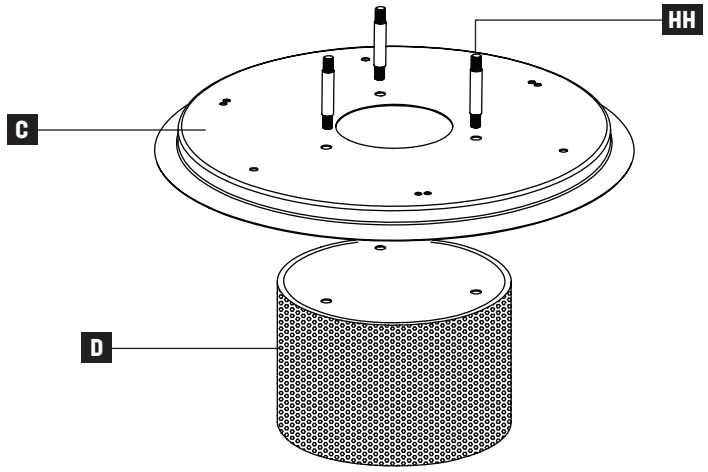


# ASSEMBLY INSTRUCTIONS

## Step 7

**Heat Insulation Plate Installation**

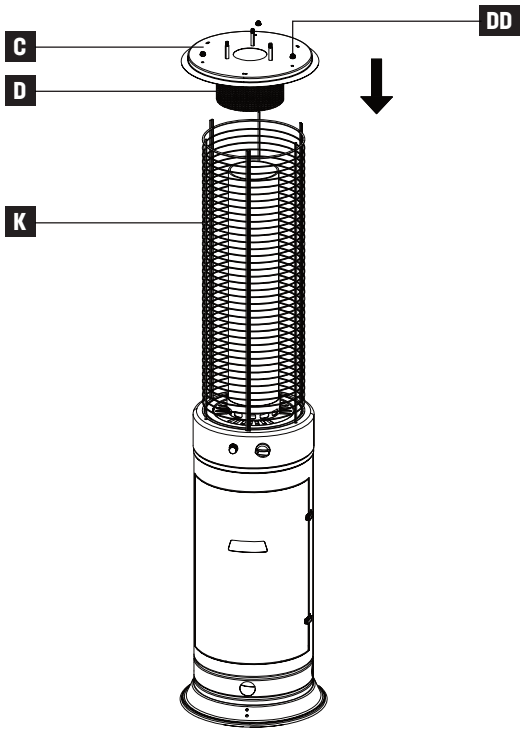
1. **Position Double Headed Screws:**
   - Insert the three M8 x 65 double headed screws (HH) into the heat insulation plate (C).
2. **Secure Double Headed Screws:**
   - Ensure the double head screws are properly aligned and tightly secured to the heat insulation plate (C) and flame screen (D).




## Step 8

**Heat Insulation Plate Attachment**

1. **Attach Heat Insulation Plate:**
   - Position the heat insulation plate with flame screen (C+D) onto the mesh guards (K).
   - Secure the heat insulation plate using three M5 nuts (DD).
   - Tighten the nuts to ensure the plate is firmly attached.

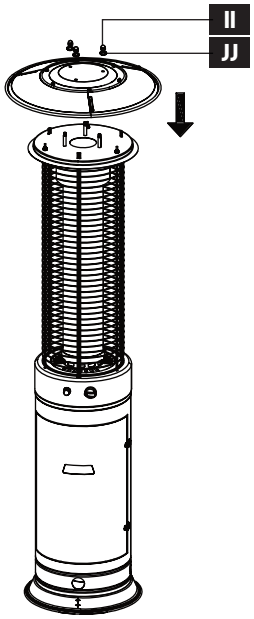


# ASSEMBLY INSTRUCTIONS

## Step 9

**Final Reflector Assembly**

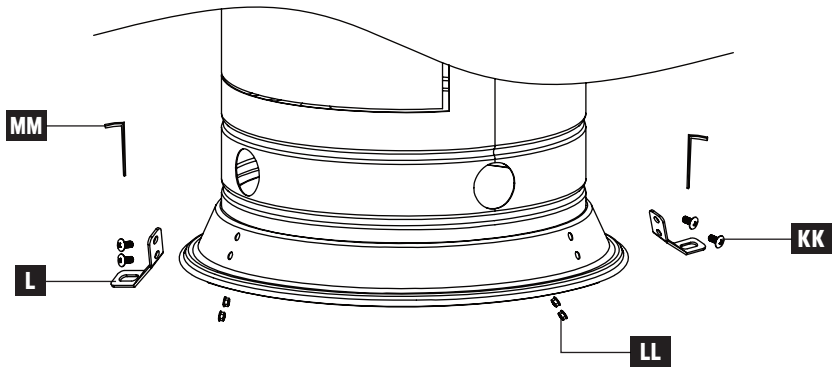
1. **Secure Reflector:**
    - Align the reflector assembly (A+B) with the top of the insulation plate (C).
    - Use three M8 nuts (II) and three flat washers (JJ) to attach the reflector assembly to the burner.
    - Ensure all nuts are tightly secured for stability.




## Step 10

**Anchoring Arms Installation**

1. **Position Anchoring Arms:**
    - Attach the anchoring arms (L) to the base of the tank housing (H).
2. **Secure Anchoring Arms:**
    - Use six M6 x 12 screws (KK) and six M6 nuts (LL) to attach the anchoring arms.
    - Tighten all screws and nuts to ensure the anchoring arms are firmly attached.
    - Insert the three anchors (MM) into the brackets to anchor unit on uneven surfaces.



# OPERATION

**Installation of Tank**

**Step 1: Gas Cylinder Requirement:**

- **Provide Propane Gas and Cylinder:**
  - Use a standard 20 lb. propane cylinder only (Figure 1).

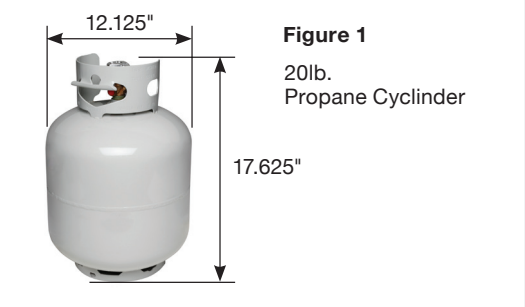



**Figure 1**
20lb.
Propane Cyclinder

  - Ensure the Heater is used only with a propane vapor withdrawal supply system.
- **Standards Compliance:**
  - Refer to the Standard for Storage and Handling of Liquefied Petroleum Gas, ANSI/NFPA 58 for detailed information.
- **Supply Pressure:**
  - Maximum supply pressure: 250 PSI.
  - Minimum supply pressure: 25 PSI (for input adjustment for propane gas).
- **Use of Regulator and Hose Assembly:**
  - Use the pressure regulator and hose assembly supplied with the appliance.
  - Replacement regulators and hose assemblies must be specified by the appliance manufacturer.

**Safety Warnings for Propane Cylinder**

- **Inspect the Cylinder:**
  - Do not use a dented, rusted, or damaged propane cylinder. Have it checked by your cylinder supplier.
  - Never use a propane cylinder with a damaged valve connection.
- **Cylinder Construction:**
  - The propane cylinder must comply with U.S. Department of Transportation (DOT) specifications or CAN/CSA-B339 standards for LP gas cylinders.
  - Ensure the cylinder includes a collar to protect the valve.
- **Overfilling Prevention Device:**
  - Use a cylinder provided with a listed overfilling prevention device.
  - Ensure the cylinder connection device is compatible with the appliance connection.
- **Avoid Unregulated Connection:** Never connect an unregulated propane cylinder to the Heater.

**Cylinder Handling and Storage**

- **Storage Restrictions:**
  - Do not store a spare LP gas cylinder under or near the appliance.
  - Store the cylinder outdoors in a well-ventilated area, out of 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.
- **Filling Restrictions:** Never fill the cylinder beyond 80% full.
- **Dust Cap Usage:**
  - Place the dust cap on the cylinder valve outlet whenever the cylinder is not in use.
  - Only install the type of dust cap provided with the cylinder valve. Using other types of caps or plugs may result in propane leakage.

**Step 2: Install Cylinder on the Base**

- **Place the Gas Cylinder:** Position the gas cylinder inside the base of the Heater.
- **Secure Cylinder Location Brackets:** Attach the cylinder location brackets to the base to secure the gas cylinder.
- **Buckle the Gas Cylinder:**
  - Use the belt to buckle the gas cylinder, adjusting the length as needed to ensure a secure fit.
  - Refer to Figure 2 for visual guidance.

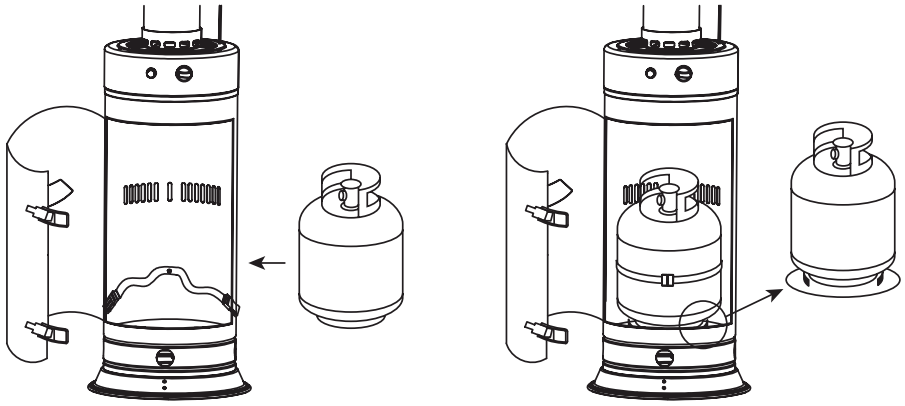


**Figure 2**

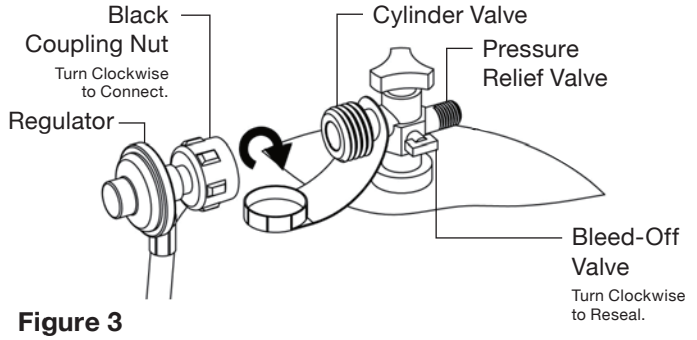



**Figure 3**

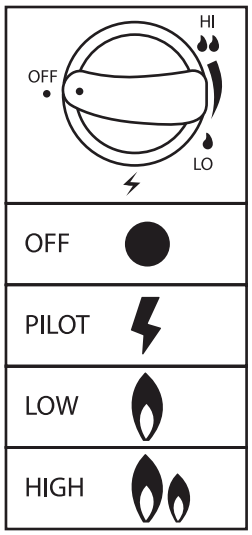
**Step 3: Connect the Regulator to the Gas Cylinder Valve**

- **Close the Gas Supply:** Turn the cylinder valve clockwise to close the gas supply on the gas cylinder. Refer to Figure 3.
- **Attach the Regulator Coupling:**
  - Screw the regulator coupling clockwise by hand only to the gas cylinder valve.
  - Ensure the regulator is fastened securely. Refer to Figure 3.
- **Ignition Instructions:**
  1. Turn on the Propane Tank Valve: Open the valve on the propane tank to allow gas flow.
  2. Ignite the Heater: Press and hold the control knob in the pilot position. Use the igniter button to light the pilot. After the pilot is lit, continue holding the control knob for 30 seconds, then release.
  3. Adjust the Heat Setting: Turn the control knob to the desired heat setting.
- **Adjust Flame Settings:** Adjust the flame to the desired setting using the control knob. Monitor the flame to ensure it operates safely and consistently.
- **Shut Down Instructions:**
  1. **Turn Off the Heater:** Turn the control knob to the OFF position.
  2. **Close the Propane Tank Valve:** Close the valve on the propane tank to stop the gas flow.


- **Lighting Instructions:**
  1. **Battery Check:** Ensure a AA battery (not included) is inside the ignition chamber and has power. The anode (+) should face outward.
  2. **Control Knob and Gas Valve:** Ensure the control knob is OFF, then slowly open the gas cylinder valve.
  3. **Ignite the Pilot:**
     - Press and turn the control knob to the PILOT position and hold it for 1 full minute.
     - Push the igniter to generate a spark while keeping the control knob depressed.
     - Check for a pilot flame through the glass tube.
  4. **If Pilot Does Not Light:** If the pilot does not light, turn the control knob to the OFF position, wait two minutes, and try again from Step 2. Several attempts may be necessary.
  5. **If Pilot Lights:** If the pilot lights, keep the control knob pressed for an additional 30 seconds, then turn the control knob to LOW.
  6. **Adjust Heat Setting:** For maximum heat, turn the control knob to HIGH.
  7. **Turn Off the Heater:**
     - To turn the Heater off, turn the control knob to OFF.
     - Close the valve of the gas cylinder or the regulator after use.
- **Warning:** If lighting steps are not followed exactly, a fire or explosion may result, causing property damage, personal injury, or loss of life.

# CLEANING AND MAINTENANCE

- **Regular Maintenance:**
  - Keep exterior surfaces clean.
  - Use warm, soapy water for cleaning. Never use flammable, corrosive, or abrasive cleaners.
- **Burner and Pilot Assembly:** Ensure the area around the burner and pilot assembly remains dry. If the gas control is exposed to water, do not use it; it must be replaced.
- **Inspection After Long Break:**
  - Inspect the unit for spiders, spider webs, or other insects after a long period of non-use.
  - Ensure airflow is unobstructed. Keep controls, burner, and circulating air passageways clean.
- **Signs of Blockage:**
  - Heater does not reach the desired temperature.
  - Heater makes popping noises.
  - Spiders and insects can nest in the burner or orifices, creating a dangerous condition that can damage the Heater and render it unsafe.
- **Cleaning Burner Holes:**
  - Clean burner holes with a heavy-duty pipe cleaner.
  - Use compressed air to clear away smaller particles.
- **Carbon Deposits:** Carbon deposits can create a fire hazard. Clean the reflector and glass tube inside with soapy water if any carbon deposits develop. Always be careful when cleaning the glass tube.
- **Appliance Area:**
  - Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
  - Do not obstruct the flow of combustion and ventilation air. Keep the ventilation openings of the cylinder enclosure free from debris.
  - Clean the appliance, including special surfaces, with recommended cleaning agents as necessary.




**Storage Instructions**

- **Between Uses:**
  1. **Turn Off the Heater:** Turn the control knob to the OFF position.
  2. **Turn Off the LPG Cylinder:** Turn the LPG cylinder valve to the OFF position.
  3. **Store the Heater Upright:** Store the Heater upright in an area sheltered away from weather conditions such as rain, sleet, hail, snow, and wind.
  4. **Cover the Heater (Optional):** If desired, cover the Heater to protect exterior surfaces and to help prevent dust and debris from collecting in air passages.
- **During Periods of Extended Inactivity or When Transporting:**
  1. Turn Off the Heater: Turn the control knob to the OFF position.
  2. Disconnect the LPG Cylinder: Disconnect the LPG cylinder and move it to a secure, well-ventilated location outdoors.
  3. Avoid Excessive Temperatures: Do not store the Heater in a location where temperatures will exceed 120°F (49°C).
  4. Store the Heater Upright: Store the Heater upright in an area sheltered away from weather conditions such as rain, sleet, hail, snow, and wind.
  5. Cover the Heater (Optional): If desired, cover the Heater to protect exterior surfaces and to help prevent dust and debris from collecting in air passages.