



## **SINGLE/DOUBLE PROPANE HEATER TOPS**

ITEM. 96960 (15K BTU - SINGLE TOP) 96961 (30K BTU - DOUBLE TOP)



## **OWNER'S MANUAL AND SAFETY INSTRUCTIONS**

**SAVE THIS MANUAL. KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATION, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL, OR THE MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO SERIAL NUMBER**

**FOR QUESTIONS, PLEASE CALL CUSTOMER SERVICE: 909.628.0880**

## DISCLAIMER

### PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

#### Record Product's Serial Number Here: \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.



**SAVE THESE INSTRUCTIONS.**

### Questions, problems, missing parts?



Before returning to your retailer, our exceptional customer service is here to help.

Call Us: 909.628.0880

Email Us: [customer@xtremepowerusa.com](mailto:customer@xtremepowerusa.com)

Hours of Operation: 9am - 4pm (Monday - Friday)

**PRODUCT MADE IN CHINA**

## IMPORTANT SAFETY INFORMATION

### WARNING

#### GENERAL SAFETY WARNINGS

Read these instructions for use carefully. Familiarise yourself with the appliance before connecting it to a gas cylinder. Keep these instructions for future reference. This instruction manual contains important information necessary for the proper assembly and safe use of the appliance. Follow all warnings and instructions when using the appliance. If you have questions about assembly, operation, servicing or repair of this product, please call Customer Service at 909.628.0880.

#### CARBON MONOXIDE HAZARD

- This appliance can produce carbon monoxide which has no odor.
- **NEVER** use this appliance in an enclosed space such as a camper, tent, car or home.
- Keep propane tank(s) below 100°F(37.8°C). Check heater for damage before each use. **DO NOT** use a damaged heater. Use only the hose and factory preset regulator provided with the heater. Check hose before each use of heater. If highly worn or cut, replace with hose specified by manufacturer before using heater.
- **DO NOT** alter heater. Keep heater in its original state. Do not use heater if altered.
- FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS HEATER, CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS, OR DAMAGE FROM THE HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONOXIDE POISONING, AND/OR ELECTRICAL SHOCK.
- Carbon Monoxide (CO) poisoning produces flu-like symptoms, watery eyes, headaches, dizziness, fatigue and possibly death. You can't see it and you can't smell it. It's an invisible killer. If these symptoms are present during operation of this product get fresh air immediately.
- Keep out of reach of children.

#### EXPLOSION FIRE HAZARD

- **WARNING:** Using this heater in a residential garage requires that the heater is positioned so that it is protected against any possible damage by a moving vehicle, etc. It must be positioned so that the base of the heater is no less than 18 inch (450mm) above the garage floor or 8 ft (2450mm) in repair garages. The heater must be placed on a stable surface. Do not place it on a chair, ladder, etc. Raising the heater will reduce BUT NOT eliminate the possibility of lighting the vapor of any flammable liquids which may be improperly stored or accidentally spilled. If the smell of gasoline is present, DO NOT operate this heater until the area has been properly ventilated.
- **NEVER** install or remove propane tank while outdoor stove is lighted, near flame, pilot lights, other ignition sources or while outdoor stove is hot to touch.
- During operation, this product can be a source of ignition. Never use the heater in spaces that contain or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals. Minimum clearances from combustible materials: 12 inches from the sides & 48 inches from the top.
- This product is fueled by propane gas. Propane gas is invisible, odorless, and flammable. An odorant is normally added to help detect leaks and can be described as a "rotten egg" smell. The odorant can fade over time so leaking gas is not always detectable by smell alone.

## IMPORTANT SAFETY INFORMATION

- Propane gas is heavier than air and leaking propane will sink to the lowest level possible. It can ignite by ignition sources including matches, lighters, sparks or open flames of any kind many feet away from the original leak. **Use only propane gas set up for vapor withdrawal.**
  - Propane gas should be stored or used in compliance with local ordinances and codes or with ANSI/NFPA 58. **Turn off propane when not in use.**
  - CALIFORNIA PROPOSITION 65: WARNING:** Fuels used in gas or oil fired appliances and the products of combustion of such fuels, contain Chemicals known to the State of California to cause cancer, birth defects or other reproductive Harm. This product contains chemicals, including lead and lead compounds, known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after
  - Keep all connections and fittings clean. Inspect propane cylinder and stove propane connections for damage before attaching.
  - Locate heater on stable and level surface if heater is hot or operating. Not intended for use on finished floors. Never block air inlet (bottom of shell) or air outlet (around top of shell) of heater. Do not leave heater unattended.
- WARNING: Not for home or recreational vehicle use. WARNING: FIRE, BURN, INHALATION, AND EXPLOSION HAZARD, KEEP SOLID COMBUSTIBLES, SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD, A SAFE DISTANCE AWAY FROM THE HEATER AS RECOMMENDED BY THE INSTRUCTIONS. NEVER USE THE HEATER IN SPACES WHICH DO OR MAY CONTAIN VOLATILE OR AIRBORNE COMBUSTIBLES, OR PRODUCTS SUCH AS GASOLINE, SOLVENTS, PAINT THINNERS, DUST PARTICLES OR UNKNOWN CHEMICALS.**
- Provide adequate ventilation. Before using heater, provide at least a six-square-foot opening of fresh, outside air. This heater produces carbon monoxide, which is listed by the State of California as a reproductive toxin under proposition 65.
  - Install and use heater with care. Follow all local ordinances and codes. In the absence of local ordinances and codes refer to the standard for storage and the natural gas installation code, CSAB149.1. This instructs on the safe storage and handling of propane gas. Use only propane gas set up for vapor withdrawal.
  - Provide adequate ventilation. Before using heater, provide at least a six-square-foot opening of fresh, outside air. This heater produces carbon monoxide, which is listed by the State of California as a reproductive toxin under proposition 65. For indoor or outdoor use. Clearance from combustibles **MUST** be at least 40 inches. The heater must be located at least 6 ft (1.83m) in the US; or 10ft (3m) in Canada, from any propane gas container.
  - The heater is designed for use as a construction heater in accordance with ANSI Z83.7, CSA 2.14. Other standards govern the use of fuel gases and heating products for specific uses. Your local authority can advise you about these. Construction heaters is to provide temporary heating of building under construction, alteration or repair. Properly used, the heater provides safe economical heating. Products of combustion are vented into the area being heated. We cannot foresee every use which maybe made of our heaters. **CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT HEATER USE.**
  - Install and use heater with care. Follow all local ordinances and codes. In the absence of local ordinances and codes refer to the standard for storage and the natural gas installation code, CSAB149.1. This instructs on the safe storage and handling of propane gas. Use only propane gas set up for vapor withdrawal.
  - DO NOT** use heater in occupied dwellings or in living or sleeping quarters. **DO NOT** use heater in a basement or below ground level. Propane gas is heavier than air. If a leak occurs, propane gas may sink to the lowest possible level. Keep appliance area clear and free from combustible materials, gasoline, paint thinner and other flammable vapors and liquids. Dust is combustible. **DO NOT** use heater in areas with high dust content.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Unit will not light	1. Valve on propane (LP) tank not open 2. Propane (LP) tank empty. 3 Regulator not in high position. 4. Excess flow device triggered. 5. Defective regulator.	1. Open tank valve by turning counter-clockwise 2. Have the tank refilled. 3. Turn the regulator to the high position. 4. Close tank valve, wait 5 minutes and reopen slowly. 5. Replace the regulator assembly.
Burner will not stay lit when gas valve plunger is released	1. Wiring of the thermocouple. 2. Defective thermocouple. 3. Defective gas valve.	1. Check wiring connections are properly engaged. 2. Replace the thermocouple. 3. Replace the gas valve assembly.
Excessive flames coming out of burner, not glowing red	1. Debris or spider webs in the mixing tube or burner. 2. Clogged orifice.	1. Clean the burner tube with a bottle brush. Rinse in water and drain thoroughly before reinstalling. 2. Remove and clean using compressed air.
Flames flash back or burn inside the mixing tube	1. Debris or spider webs in the mixing tube or burner. 2. Clogged orifice.	1. Clean the burner tube with a bottle brush. Rinse in water and drain thoroughly before reinstalling. 2. Remove and clean using compressed air.

## OPERATION / MAINTENANCE

### LIGHTING UNDER WINDY CONDITIONS

When using this heater outdoors on a windy day, it will be necessary to use a match or long stem butane lighter to ignite the burner. It may be difficult to keep the match lit long enough under windy conditions. Follow the "Lighting instructions" procedure after doing the following:

1. Position the heater and tank such that the burner faces away from the wind.
2. Position your body behind the heater such that your body blocks the wind while you are following the instructions for lighting.

### TURNING OFF THE HEATER

1. Tightly close propane tank valve by turning clockwise.
2. Turn the heater regulator knob to the OFF position. Wait at least 30 minutes for the heater to cool before handling heater.
3. Always remove the heater from the propane tank after each use. Do not store heater while attached to propane tank. Do not store propane (LP) tank in a building, garage or any other enclosed area.

### VENTILATION

Always be sure to supply proper ventilation while operating this heater. Provide a minimum of 1/2 square foot (0.047 square meter) opening for fresh air supply for 15,000 BTU's of heat and one square foot (0.10 square meter) opening for 30,000 BTU's of heat.

### MAINTENANCE

1. Turn unit off, allow heater to fully cool and disconnect propane hose before performing any maintenance functions.
2. Keep unit clean and keep the inside of the unit debris free.
3. Have unit checked by a qualified technician at least once a year, preferably prior to the heating season.

### STORAGE

Never store a propane (LP) gas tank inside a building or in the vicinity of any gas or oil burning appliance. When the propane (LP) tank is not disconnected from the heater, the gas tank and heater must be stored outdoors in a well ventilated area, out of the reach of children. If for any reason the heater is to be stored indoors, the tank must be disconnected and stored outdoors in a well ventilated area out of reach of children, in accordance with the standard for the Storage and Handling of Liquefied Petroleum Gases, ANSI/NFPA 58 and CSA B149.1, Natural Gas and Propane Installation Code. The plastic tank valve plug supplied with your tank must be tightly installed when the tank is disconnected from the heater.

## IMPORTANT SAFETY INFORMATION

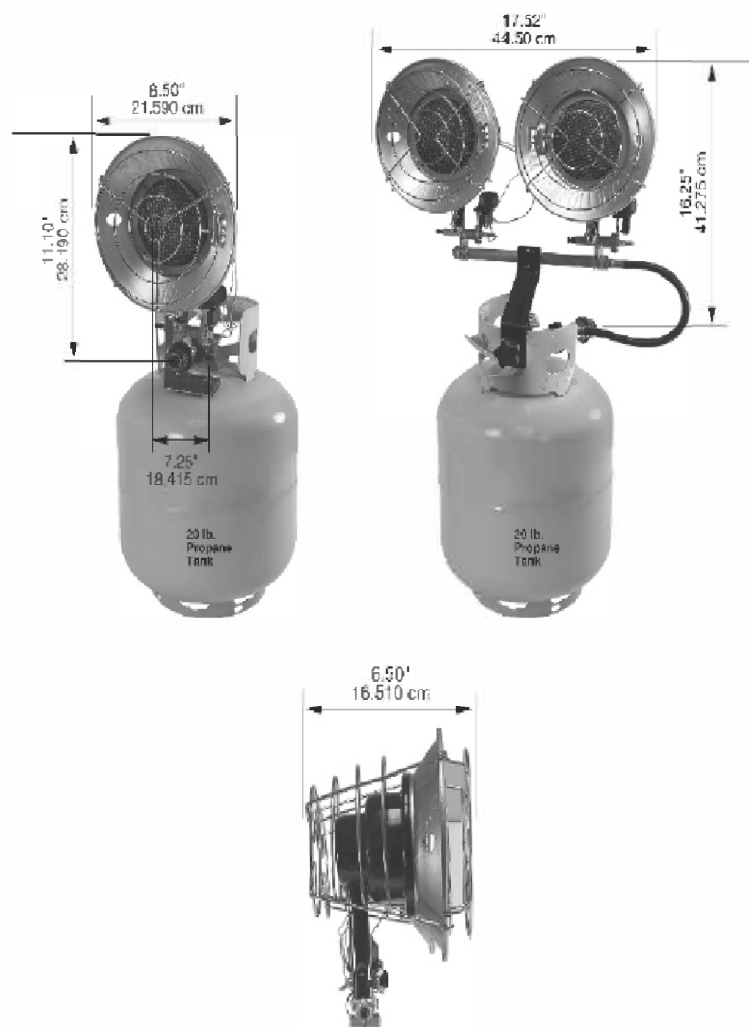
- The heater is designed and approved for use as a construction heater in accordance with the Standard for Gas-Fired Construction Heaters ANSI Z83.7 • CSA 2.14. CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT APPLICATIONS. Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these. The intended use is the temporary heating of a building or structure under construction, alteration, or repair.
- Keep children and animals away from heater. Never move, handle or service a hot or operating heater. Severe burns may result. Wait 15 minutes after turning heater off. To prevent injury, wear gloves when handling heater. Turn off propane supply to heater when not in use. Use only original replacement parts. This heater must use design-specific parts. Do not substitute or use generic parts. Improper replacement parts could cause serious or fatal injuries. Installation of this appliance at altitudes above 2000 ft (610 m) shall be in accordance with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or National Standard of Canada, Natural Gas and Propane Installation Code, CSA B149.1. The heater should be inspected before each use, and at least annually by a qualified service person.
- **NEVER** refill the heater's fuel tank while heater is operating or still hot. This heater is **EXTREMELY HOT** while in operation. Keep all combustible materials away from this heater.
- **NEVER** use duct work in front or at the rear of the heater.
- **NEVER** transport the heater with fuel in its tank.
- Bulk fuel storage should be a minimum of 25 feet away from the heater, torches, portable generators or other sources of ignition.
- **ALWAYS** locate the heater on a stable, level surface.
- **RISK OF ELECTRICAL SHOCK!** Use only the electrical power (voltage and frequency) specified on the model plate of the heater. Use only a local, correct plug and a grounded outlet and extension cord.
- **ALWAYS** install the heater so that it is not directly exposed to water spray, rain, dripping water or wind.
- **ALWAYS** unplug the heater when not in use.



**SAVE THESE WARNINGS**

## PRODUCT INFORMATION

MODEL	BTU OUTPUT	IGNITION TYPE	OPERATING TIME	WEIGHT
96960	15,000	Match	Up to 28 hrs (high)	2.7LBS
96961	30,000	Match	Up to 14 hrs (high)	5.3LBS



## OPERATION

### LIGHTING INSTRUCTIONS

1. Open propane tank valve by turning it counterclockwise.
2. Turn heater regulator knob clockwise to the "High" position. (Fig.4)

**WARNING:** Stand to the side of unit while lighting. Do not stand or have any part of your body over or in front of heater while lighting.

3. one match per burner. Locate ignition hole in side of burner. (Fig. 5) Insert a lit match through ignition hole. Do not light from front of burner.

**CAUTION:** Do not insert match into the air inlet holes in the mixing tubes.

4. Press safety shut-off valve fully inward to allow gas to flow. Fig. 4 and 5.

**WARNING:** Do not push in safety shut-off valve plunger before inserting lit match.

5. Burner should light. Mesh screen on burner glows red when lit. After burner is lit, continue holding in safety shut-off valve plunger ( 30 seconds) until heater stays lit.
6. If the burner does not light within 30 seconds, turn regulator knob to the OFF position. Wait at least five (5) minutes for the gas to dissipate before re-lighting.
7. If heater will not light after repeated tries, do not attempt to repair heater. Call Local service for assistance.

8. After burner lights, turn the heater regulator knob to the desired heat setting: LOW, MED, or HI.
9. For dual burner models only : light both burners when maximum heat is needed. Use one burner to conserve fuel. Repeat steps to light second burner.

**WARNING: NEVER LEAVE THE HEATER UNATTENDED WHEN LIT.**

FIG. 4

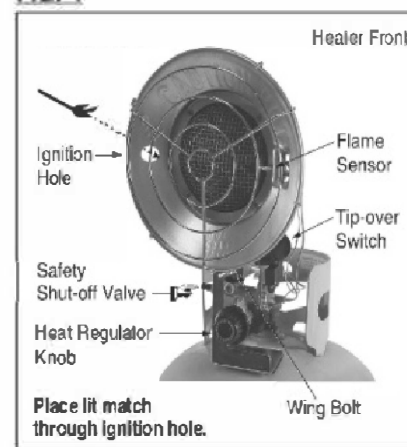
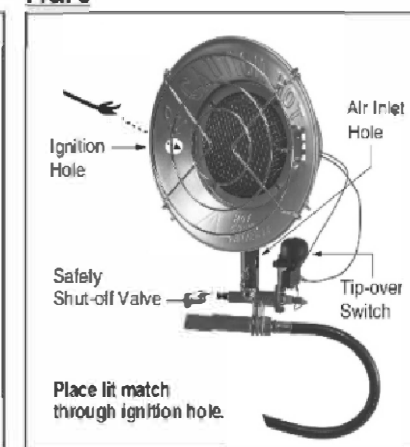


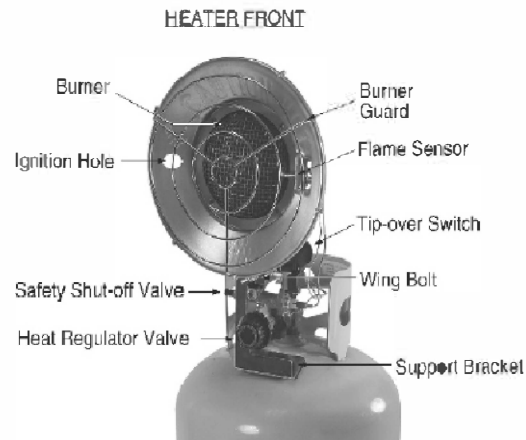
FIG. 5





## OPERATION

96960



### CHECKING FOR LEAKS

Check all gas connections with a 50/50 mix of liquid dish soap and water solution to be sure they are tight and leak proof. The formation of bubbles indicates a gas leak. Correct all leaks before using the heater.

- The installation of your heater must meet all local codes and/or gas utility requirements or, in the absence of local codes, the Storage and Handling of Liquefied Petroleum Gases, ANSI NFPA 58 and the Natural and Propane Installation Code, CSA 8149.1.
- Always maintain proper clearance from combustible materials. Minimum clearance from combustibles; side & rear: 36" (91 cm); top: 36" (91 cm); front: 60" (152 cm); floor: 0" when installed on 20lb tank.
- The hose assembly should be visually inspected prior to each use of the heater. If it is evident that there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly must be the exact replacement.

**WARNING:** NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS.

**WARNING:** Burner and Burner Guard should always face away from propane (LP) tank shut-off and regulator.

**WARNING:** Improper installation, 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:** Do not cover air inlet holes in mixing tube.

**WARNING:** Make sure there is no open flame in the area. Fully open the propane tank valve.

**VENTILATION:** Always be sure to supply proper ventilation while operating this heater. Provide a minimum of 1/2 square foot (0.047 square meter) opening for fresh air supply for 15,000 BTU's of heat and one square foot (0.10 square meter) opening for 30,000 BTU's of heat.

## ASSEMBLY

### PRODUCT FEATURES

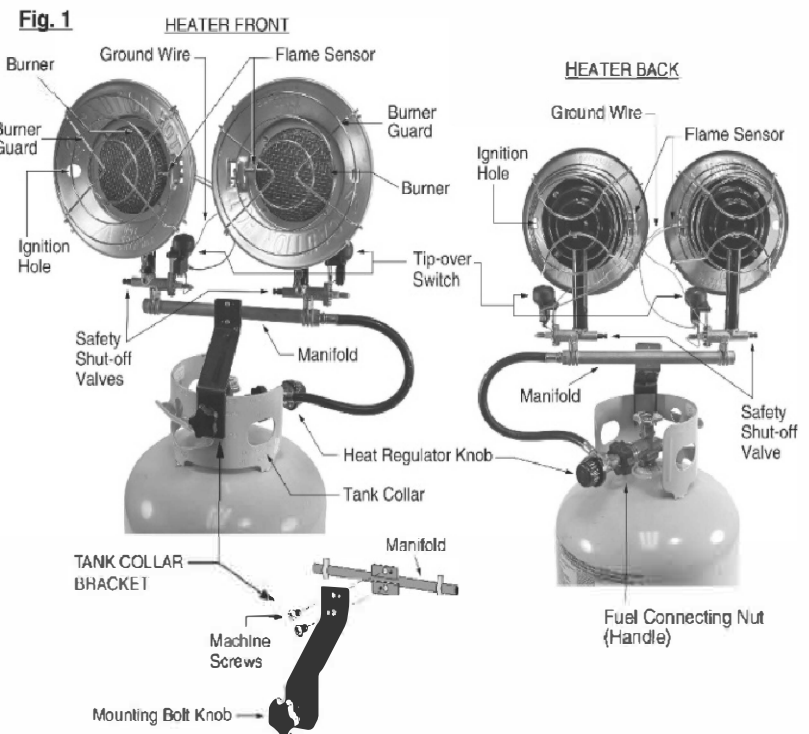
- Portable & Stable
- Safety Shutoff System
- Wind Resistant
- Match Ignition

**Tools Required:** Phillips Head Screwdriver

### ASSEMBLY FOR SUAL BURNER

The tank collar bracket must be assembled before the heaters can be attached to the propane tank.

1. Align bolt holes in tank collar bracket with bolt holes in center plate on manifold.
2. Drive-in two machine screws (supplied) into the bolt holes attaching tank collar bracket to center plate on manifold using phillips head screwdriver. (Fig. 1)



This heater requires a 20 lb. propane (LP) tank for operation (not included). Use of this heater with any other propane (LP) tank is not recommended and can be dangerous.

The propane (LP) gas pressure regulator and hose assembly of 30K BTU models supplied with the heater must be used without alteration. The hose assembly must be visually inspected prior to each use of the heater. If it is evident that there is excessive abrasion, wear or the hose is cut, it must be replaced prior to the heater being put into operation.

## PRODUCT INFORMATION / ASSEMBLY

### The propane (LP) gas tank must also be equipped with the following:

- A collar to protect the propane (LP) gas valve.
- A shutoff valve terminating a propane (LP) gas tank valve outlet as specified in the American National Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections
- A safety relief valve having direct communications with the vapor space of the tank.
- An arrangement of vapor withdrawal.

- Do not use this heater for heating human living quarters.
- Do not use in unventilated areas.
- The flow of combustion and ventilation air must not be obstructed.
- Proper ventilation air must be provided to support the combustion air requirements of the heater being used as listed in this manual.
- Lack of proper ventilation air will lead to improper combustion.
- Improper combustion can lead to carbon monoxide poisoning leading to serious injury or death. Symptoms of carbon monoxide poisoning can include headache, dizziness, burning eyes and nose, nausea, dry mouth or sore throat and difficulty in breathing.

### Propane (LP) Fuel Gas Odor:

Propane (LP) gas and natural gas have man-made odorants added specifically for detection of fuel gas leaks. It can be described as a "rotten egg" smell. If a gas leak occurs you should be able to smell the fuel gas. Since propane (LP) is heavier than air you should smell for the gas odor low to the floor.

- Do not take any action that could ignite the fuel gas. Do not operate any electrical switches. Do not pull any power supply or extension cords. Do not light matches or any other source of flame. Do not use your telephone.
- Get everyone out of the building and away from the area immediately.
- Close all propane (LP) gas tanks.
- Propane (LP) gas is heavier than air and may settle in low areas. When you have reason to suspect a propane leak, keep out of all low areas.
- While outside the building call your fuel gas supplier and your fire department. Do not re-enter the building or area in question.
- Stay out of the building and away from the area until declared safe by the firefighters and your fuel gas supplier.
- Be sure to have the fuel gas service person and the firefighters check for escaped gas. Have them air out the building and area before you return. Properly trained service people must repair any leaks, check for further leakages, and then have them relight the appliance for you.
- Turn heater gas valve knob and gas tank valve to OFF position.
- Thread POL fitting into interior threads of propane (LP) tank valve. This fitting has LEFT-HANDED THREADS (reversed). Turn POL fitting COUNTER CLOCKWISE to tighten and CLOCKWISE to loosen. Protect POL fitting from damage when disconnected from tank.
- Have tank filled by your local Propane gas supplier.
- Some propane (LP) tanks have a bleed-off valve. This valve should be inspected for leaks after each filling of the tank. Turn clockwise to close the valve.
- Fasten full propane (LP) tank and connect POL fitting to tank valve by turning COUNTER CLOCKWISE.
- With heater gas valve knob still in the OFF position, turn ON tank valve and check all gas connections with a 50/50 liquid dish soap and water solution to be sure they are tight and leak proof. The formation of bubbles indicate a gas leak. Correct all leaks before using the heater. Never use a flame to check for gas leaks.

## CONNECTION

Read and understand all safety information before connecting heater to propane tank.

1. Make sure heat regulator knob is in the OFF position.
2. (Applies to dual burner model only). Place heater onto tank with tank collar bracket over tank collar (Fig. 1) Mounting bolt knob should be positioned to the outside of tank collar. (Fig. 1)
3. (Applies to dual burner model only). Firmly secure to tank by hand-tightening mounting bolt knob. Do not overtighten mounting bolt knob.

For single and double burner models, insert heat regulator valve connector into propane (LP) tank's valve outlet fitting and turn Fuel Connecting Nut left (reverse thread, turn counterclockwise) until fully tightened. No wrench is required.

Applies to single burner model only). Loosen wing bolt and slide support bracket (Fig. 3) down until the base of the bracket seats firmly on the tank to support the burner.

6. Open propane (LP) tank valve slowly.
7. Check all fittings for leaks. Apply a 50/50 mixture of liquid dish soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

### WARNING: NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS.

Always remove propane tank from heater after each use following the guidelines in this manual. Do not store heater while attached to propane (LP) tank.

**WARNING:** Always maintain proper clearance from combustible materials. Minimum clearance from combustibles: side & rear: 36" (91 cm); Top: 36" (91 cm); Front: 60" (152 cm); Floor: 0" when installed on 20lb. tank.

