



USER'S MANUAL AND OPERATING INSTRUCTIONS

RADIANT PROPANE TANK TOP HEATER

MODELS:

ZB-TT15

Single Burner

ZB-TT30

Double Burner



ZB-TT15

ZB-TT30



GENERAL HAZARD WARNING:

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.

ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS HEATER.

IF YOU NEED ASSISTANCE OR HEATER INFORMATION SUCH AS AN INSTRUCTION MANUAL, LABELS, ETCETERA, CONTACT THE MANUFACTURER.

CONSUMER: Retain this manual for future reference.



ANS Z83.7-2017 CSA 2.14-2017

Table of Contents

Specifications	3
Safety Information	3
Assembly	5
Propane safety	6
Refilling the propane tank	8
Connecting heater to tank	9
Checking for leaks	10
Operation	11
Light under windy conditions	13
Turn off the heater	13
Maintenance	14
Storage	14
Troubleshooting.....	15
Replacement Parts	17

IMPORTANT: Read and understand this manual before assembling, starting or servicing heater. Improper use of heater can cause serious injury. Keep this manual for future reference.

⚠ 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.

⚠ WARNING: NOT FOR HOME OR RECREATIONAL VEHICLE USE.

⚠ 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 in (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.



WARNING: CONVECTION HEATERS ARE NOT FOR USE IN GARAGES IN CANADA

CALIFORNIA PROPOSITION 65:

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 handling.**

Specifications

Tank Top Heater

Fuel Type.....Propane Vapor Only

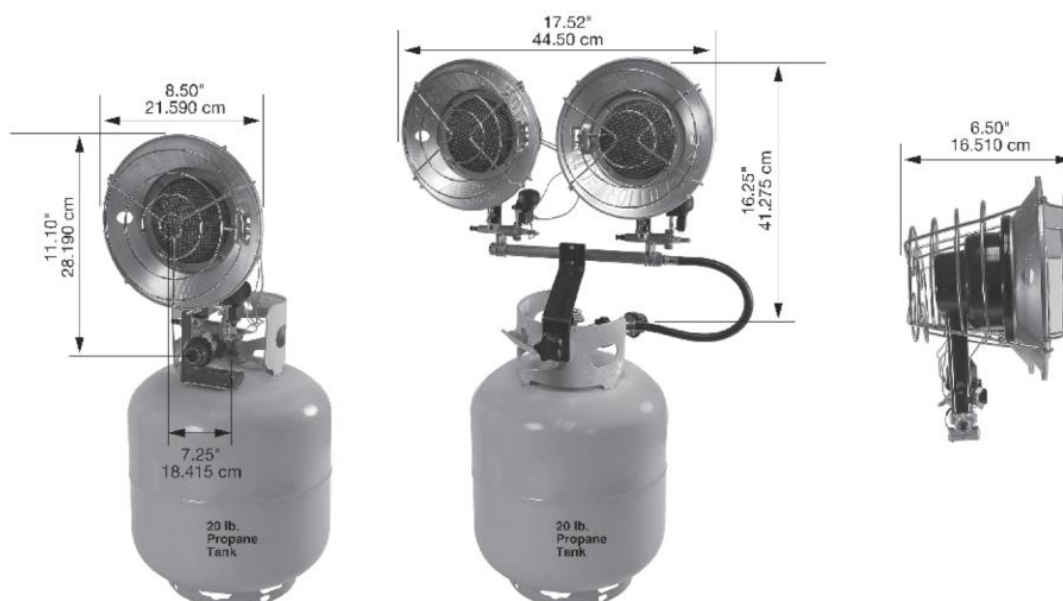
Minimum Operating Temperature.....-20°F(-29°C)Surrounding Air

Model#	OUTPUT BTU	IGNITION TYPE	OPERATING TIME (20LB.Tank)	Product G.W	Package G.W
ZB-TT15	15,000	Match	Up to 28 Hrs(High)	2.678 lbs/1.215kg	3.520 lbs/1.597kg
ZB-TT30	30,000	Match	Up to 14 Hrs(High)	5.335 lbs/2.420kg	6.450 lbs/2.926kg

TT15 Min gas pressure: 17PSI Max gas pressure: Bottle pressure

TT30 Min gas pressure: 17PSI Max gas pressure: Bottle pressure

The height of gas tank is 18 inch, the width of gas tank is 12.5 inch



Safety Information

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 are 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.**

Other standards govern the use of fuel gases and heat producing products for specific uses. Your local authorities can advise you about these.

Carbon monoxide poisoning: Some people are more affected by carbon monoxide than others.

Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness and/or nausea. If you have these signs, the heater may not be working properly. Get fresh air at once!

Check for proper ventilation and have heater serviced.

Propane gas: Propane gas is odorless. An odor-making agent is added to propane gas. The odor helps you detect a propane gas leak. However, the odor added to propane gas may fade. Propane gas maybe present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

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, CSA B149.1. 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.

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.

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 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.

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.

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.

The hose assembly shall be visually inspected prior to each use of the heater. If it is evident there is excessive abrasion or wear, or the hose is cut, it shall be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer.

Blower or radiant type heaters shall not be directed toward any propane-gas container within 20 ft (6 m).

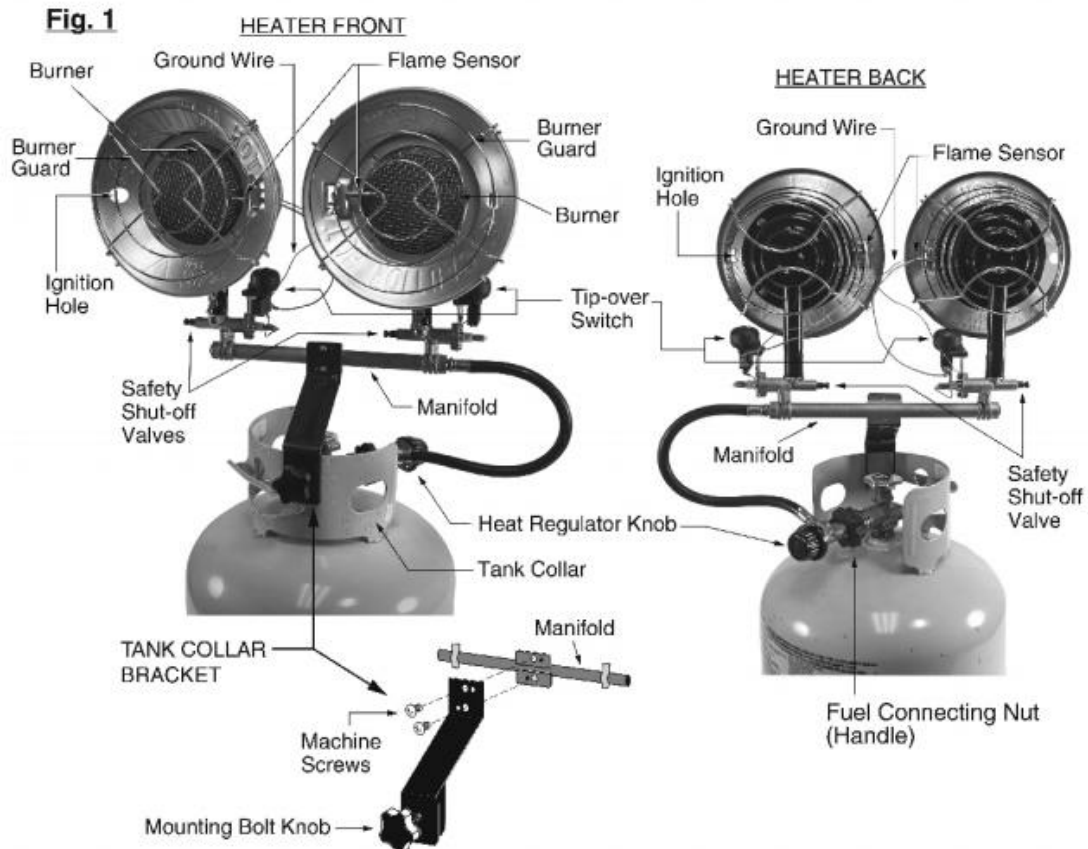
Assembly

Tools Required: Phillips head screwdriver

FOR DUAL BURNER MODEL# ZB-TT30 ONLY

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)



DUAL BURNER MODEL # ZBTT30

Propane Safety

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 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.

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. Contact ZOBO customer service for part availability.

WARNING: Asphyxiation Hazard

- 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.
- Refer to the specification section of the heater's manual or heater dataplate to determine combustion air ventilation requirements of the heater.
- 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 Fuel Gas Odor.

Propane 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 is heavier than air you should smell for the gas odor low to the floor.

Any Gas Odor Or Smell Is Your Signal Start Immediate Action !

- 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 gas tanks.
- Propane 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.

Propane Odor Fading- No Odor Detected

- Some people have difficulty with smells and cannot smell the odor of the man-made chemical added to propane or natural gas. You must determine if you can smell the odorant in these fuel gases.
- Learn to recognize the odor of propane gas and natural gas. It can be described as a "rotten egg" smell. The odorant can fade over time so leaking gas is not always

detectable by smell alone. Local propane gas dealers will be more than happy to give you a scratch and sniff pamphlet. Use it to become familiar with the fuel gas odor.

- Smoking can decrease your ability to smell. Being around an odor for a period of time can affect your sensitivity to that particular odor. Odors present in animal confinement buildings can mask fuel gas odor.
- If there is an underground leak, the movement of gas through the soil can filter the odorant but the danger may still exist.
- Propane gas odor may differ in intensity at different levels. Since propane gas is heavier than air, there may be more odor at lower levels.
- Always be sensitive to the slightest gas odor. If you continue to detect any gas odor, no matter how small, treat it as a serious leak. Take immediate action as discussed previously.

Critical points to remember !

- Propane gas has a distinctive odor. Learn to recognize these odors. Reference propane fuel gas odor and propane odor fading sections above. Make all person aware of the heaters use and to always be consciously aware of the odor of propane gas.
- If you have not read this manual or have not been properly trained in the use and service of propane gas then do not attempt to light the heater, perform service or repairs, or make any adjustments to the heater on the propane gas fuel system.
- A periodic sniff test around the heater or at the heater's connections; i.e. hose to heater and hose/regulator to tank etc., is a good safety practice under all conditions. If you smell even a small amount of gas, **CONTACT YOUR FUEL GAS SUPPLIER IMMEDIATELY. DO NOT WAIT!**

Refilling the propane tank

ALL NEW PROPANE TANKS MUST BE PURGED BEFORE THE FIRST FILLING.

- Turn heater gas valve knob and gas tank valve to OFF position.
- Thread POL fitting into interior threads of propane 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 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 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.

Propane is safe to use when properly handled. Careless handling of the propane gas tank could result in fire and/or an explosion. Therefore:

- Always keep tank securely fastened in an upright position.
- Avoid tipping tank on its side when connected to a regulator since this may cause damage to diaphragm in the regulator.
- Handle valves with care.
- Never connect an unregulated propane tank to heater.
- Do not subject propane tank to excessive heat.
- Tightly close the gas shutoff valve on the propane tank after each use.
- The POL fitting must be protected when disconnected from the propane tank.
- Never store a propane gas tank inside a building or in the vicinity of any gas burning appliance.

WARNING! THE TANK MUST NEVER BE STORED IN A BUILDING, GARAGE OR ANY OTHER ENCLOSED AREA.

Connecting heater to tank

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. Mounting bolt knob should be positioned to the outside of tank collar.
3. (Applies to dual burner model only). Firmly secure to tank by hand-tightening mounting bolt knob. Do not overtighten mounting bolt knob.
4. For single and double burner models. Insert heat regulator valve connector into propane tank's valve outlet fitting and turn fuel connecting nut left(reverse thread, turn counterclockwise) until fully tightened. No wrench is required.
5. (Applies to single burner model only). Loosen wing bolt and slide support bracket down until the base of the bracket seats firmly on the tank to support the burner.
6. Open propane tank valve slowly.
7. Check all fitting 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.**
8. Always remove propane tank from heater after each use following the guidelines in this manual. Do not store heater while attached to propane tank.

WARNING: Always maintain proper clearance from combustible materials. Minimum clearance from combustibles: side&rear: 36" (91cm); Top: 36" (91cm); Front: 59" (150cm); Floor: 0" when installed on 20lb. Tank.

FIG. 2
ZBTT30 SERIES

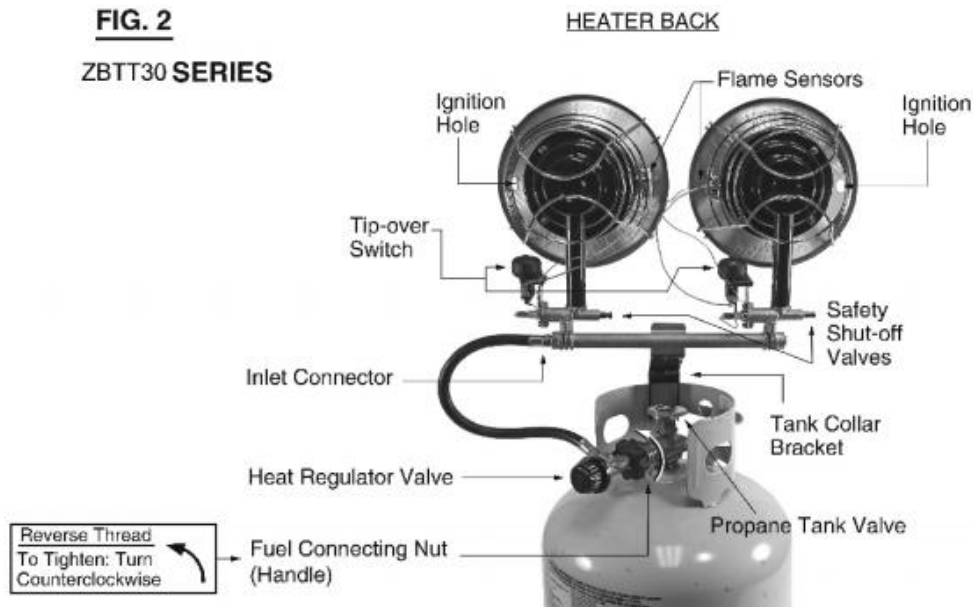
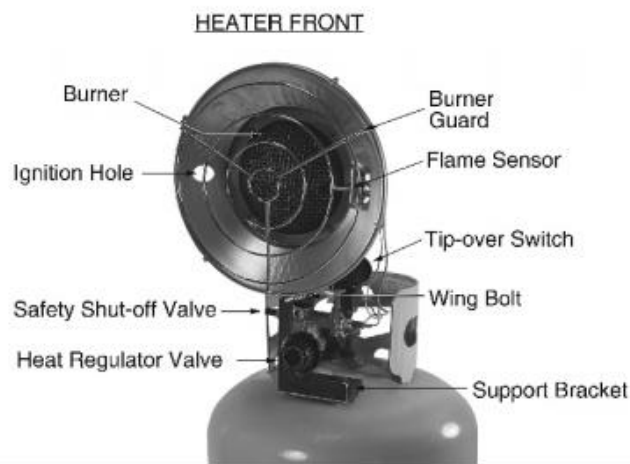


FIG. 3
ZBTT15 SERIES



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 B149.1.
- Always maintain proper clearance from combustible materials. Minimum clearance from combustible; side&rear: 36" (91cm); Top: 36" (91cm); Front: 59"

(150cm); 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.

Operation-lighting instructions

Read and understand all safety information before operating heater.



WARNING:

- Burner and burner guard should always face away from propane tank shutoff and regulator.
- 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.
- Do not cover air inlet holes in mixing tube.
- 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 feet (0.047 square meter) opening for fresh air supply for 15000 BTU of heat and one square feet (0.10 square meter) opening for 30000 BTU of heat.

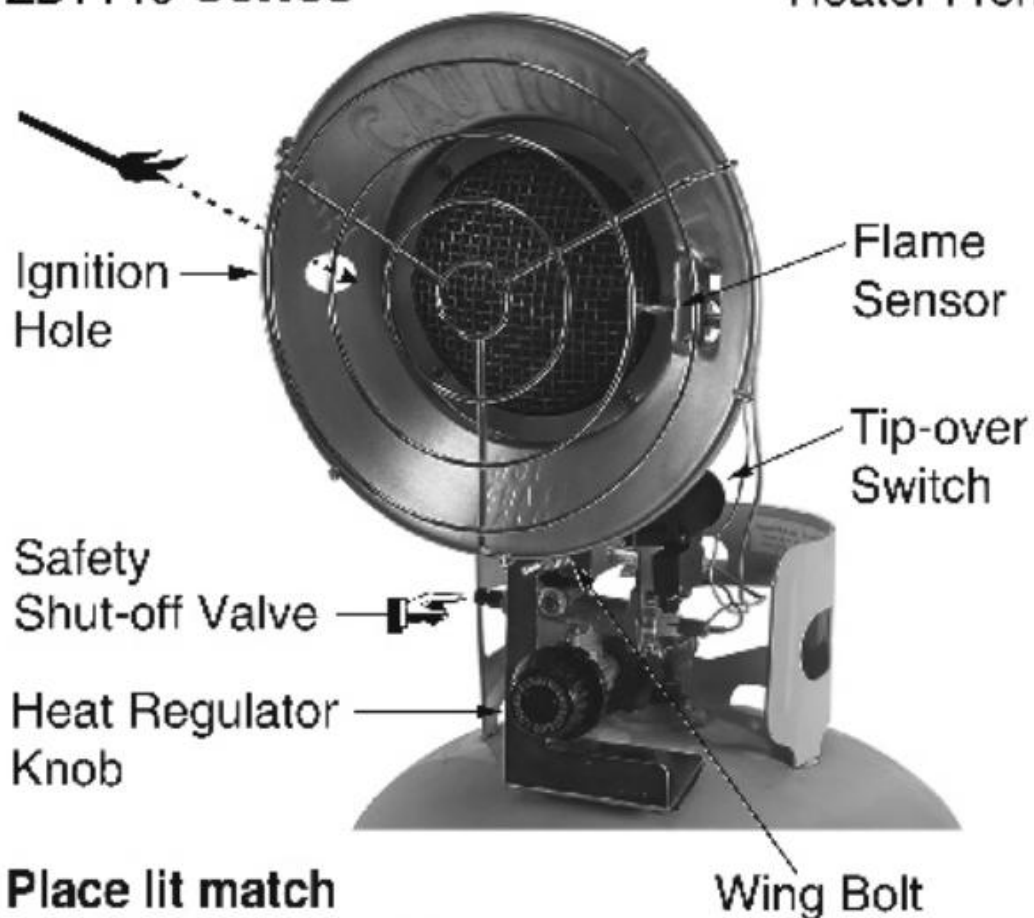
Lighting steps:

1. Open propane tank valve by turning it counterclockwise.
2. Turn heater regulator knob clockwise to the "High" position. **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. Do not attempt to light one burner off of the other. Use one match per burner. Locate ignition hole in side of burner. Insert a lit match through ignition hole. Do not light from front of burner. **CAUTION:** Do not insert match into air inlet holes in mixing tube.
4. Press safety shut-off valve fully inwards to allow gas to flow. **WARNING:** Do not push in safety shut-off valve plunger before inserting lit match.
5. If the burner does not light within 10 seconds, turn regulator knob to the OFF position. Wait at least five minutes for the gas to dissipate before re-lighting.

6. 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.
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, 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.

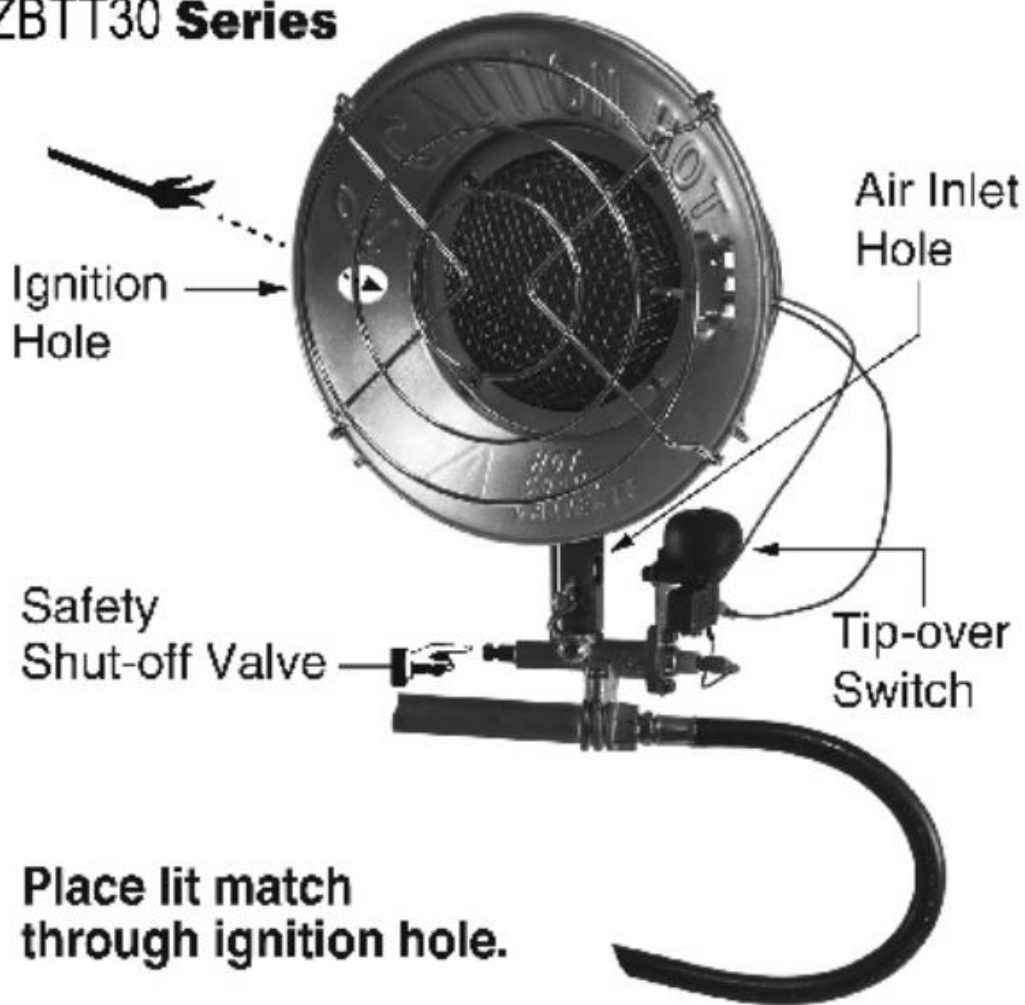
ZBTT15 Series

Heater Front



Place lit match through ignition hole.

ZBTT30 Series



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 tank in a building, garage or any other enclosed area.

Maintenance instruction

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.



WARNING:Never attempt to service heater while it is connected to propane supply, operating or hot. Severe burns can occur.

1. Keep heater clean.
2. Inspect heater before each use. Check connections for leaks. Apply mixture of liquid soap and water to connections. Bubbles forming show a leak that must be corrected. Correct all leaks at once.
3. the hose assembly shall be visually inspected prior to each use of the heater. If it is evident there is excessive abrasion or wear, or the hose is cut, it shall be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer.
4. Have heater inspected yearly by a qualified service person. The heater needs to be maintained once a year.

Storage

Never store a propane gas tank inside a building or in the vicinity of any gas or oil burning appliance. When the propane 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.

CAUTION:Disconnect heater from propane supply tank(s).

1. Storage propane tank(s) in safe manner. Refer to Chapter 5 of standard for storage and handling of Liquefied Petroleum Gases, ANSI/NFPA 58, and the Natural

Gas and Propane installation Code CSA B149.1.Follow all local codes.Always store propane tanks outdoors.

2. Place plastic cover caps over brass fittings on connector inlet and regulator hose assembly.

3. Store in a dry,clean and safe place.

when the heater is to be stored indoors, the connection between the propane supply cylinder(s) and the heater shall be disconnected and the cylinders) removed from the heater and stored.

Troubleshooting

ZB-TT15,ZB-TT30 tank top Heaters



WARNING:Never attempt to service heater while it is connected,operating or hot.Severe burns can occur.

Problem	Possible Cause	Corrective action
1.Unit will not light.	1.Valve on propane tank not open. 2.Propane tank is empty. No gas. 3.Regulator not in “High” position. 4.Excess flow device triggered. 5.Defective regulator.	1.Open tank valve by turning counterclockwise. 2.Have tank refilled. 3.Turn regulator to “High” position. 4.Close tank valve,wait 5 minutes and re-open slowly. 5.Replace regulator assembly.
2.Burner will not stay lit when gas valve plunger released.	1.Wiring of thermocouple. 2.Defective thermocouple. 3.Defective gas valve.	1.Check wiring connections are properly engaged. 2.Replace thermocouple. 3.Replace gas valve assembly.
3.Excessive flames coming out of burner,not glowing red.	1.Debris or spider webs in mixing tube or burner. 2.Clogged orifice.	1.Clean burner tube with bottle brush,rinse in water and drain thoroughly before reinstalling. 2.Remove and clean using compressed air.
4.Flames flashback/burn inside the mixing tube.	1.Debris or spider webs in mixing tube or burner. 2.Clogged orifice.	1.Clean burner tube with bottle brush,rinse in water and drain thoroughly before reinstalling. 2.Remove and clean using compressed air.



WARNING

Air Quality Hazard

Do not use this heater for heating human living quarters.

Use of direct-fired heaters in the construction environment can result in exposure to levels of CO,CO₂,and NO₂ considered to be hazardous to health and potentially life threatening.

Do not use in unventilated areas.

Know the signs of CO and CO₂ poisoning:

Headaches, stinging eyes. Dizziness, disorientation. Difficulty breathing,feels of being suffocated.

Proper ventilation air exchange(OSHA 29 CFR 1926.57) to support combustion and maintain acceptable airquality shall be provided in accordance with OSHA 29 CFR Part 1926.154, ANSI A10.10 Safety requirements for temporary and portable space heating devices and equipment used in the construction industry or the natural gas and propane installation Codes CSA B149.1.

Periodically monitor levels of CO,CO₂ and NO₂ existing at the construction site- at the minimum at the start of the shift and after 4 hours.

Provide ventilation air exchange,either natural or mechanical, as required to maintain acceptable indoor air quality.

USA 8-Hr Time weighted average (OSHA 29 CFR 1926.55 APP A)

CO	50 ppm
CO₂	5000 ppm
NO₂	

Canada 8-Hr time weighted average Worksafe BC OHS Guidelines Part5.1 And Ontario workplaces Reg 833

25 ppm
5000 ppm
3 ppm(Reg 833)

USA-Ceiling Limit(SHORT TERM EXPOSURE LIMIT=15 Minutes)

CO	
CO₂	
NO₂	5 ppm

Canada STEL(15 minutes Reg 833/1h WSBC) Worksafe BC OHS Guidelines Part5.1 And Ontario workplaces Reg 833

100 ppm
15000 ppm(WSBC)
30000 PPM(Reg 833)
1.0 ppm(WorksafeBC)
5.0 ppm(Reg 833)

Ensure that flow of combustion and ventilation air exchange cannot become obstructed.

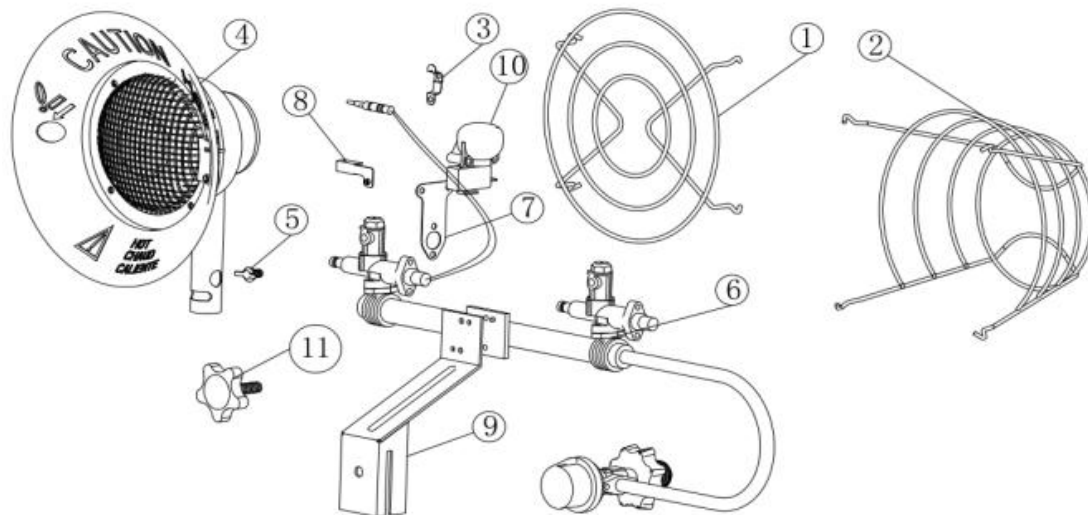
As the building'tightens up'during the construction phases ventilation may need to be increased.

Replacement Parts

Warning: 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. This will also protect your warranty coverage for parts replaced under warranty. Parts warranty and non-warranty: contact authorized dealers of this product. If they can not supply original replacement parts, either contact your nearest parts central or manufacturer (email: sales@cnzobo.com).

Manufacturer Name: ZHEJIANG ZOBO TECHNOLOGY CO LTD

Manufacturer Address: No 98, Yuegui South Road, Huachuang Industry Park, Yongkang City of China.



NO#	Part Name	(PART CODE FOR MODEL)	
		ZB-TT15	ZB-TT30
1	Front mesh enclosure	TT15-010000	TT15-010000
2	Back mesh enclosure	TT15-020000	TT15-020000
3	snap-gauge	TT15-030000	TT15-030000
4	Burner assembly	TT15-040000	TT15-040000
5	Wing screw	TT15-050000	TT15-050000
6	Valve assembly	TT15-070000	TT30-070000
7	Fixed mount	TT15-080000	TT15-080000
8	Windshield for thermocouple	TT15-100000	TT15-100000
9	Gas tank support	TT15-090100	TT30-090000
10	Anti-tipping switch	TT15-290000	TT15-290000
11	Bolt	EY3-050000	EY3-050000