

# GAS-FIRED INFRARED OUTDOOR PATIO HEATER INSTALLATION, OPERATION MAINTENANCE INSTRUCTIONS



## FOR MODEL PTH106A-SS

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY AND BE SURE YOUR PATIO HEATER IS PROPERLY INSTALLED, ASSEMBLIED AND CARED FOR. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY AND/OR PROPERTY DAMAGE. IF YOU HAVE QUESTIONS CONCERNING ASSEMBLY OR OPERATION, CONSULT YOUR DEALER, GAS APPLIANCE SERVICE REPRESENTATIVE OR YOUR GAS COMPANY.

#### **NOTE TO INSTALLER:**

LEAVE THESE INSTRUCTIONS WITH THE CONSUMER AFTER INSTALLATION.

#### NOTE TO THE CONSUMER:

RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.



DO NOT return to place of purchase!!!

Please contact Customer Service hotline at 800-913-8999 for help.

## **IMPORTANT**

### \* \* \* WARNING \* \* \*

For outdoor use only (outside any enclosure)

Improper operation, installation, adjustment, alteration, servicing or maintenance can cause severe property damage or serious injury or death. Please read the installation, operation & maintenance instructions thoroughly before installing or servicing this equipment.

## \* \* \* FOR YOUR SAFETY \* \* \*

## If you smell gas:

- Shut off gas to appliance.
- Extinguish any open flame.
- If odor continues, immediately call your gas supplier.

## For your safety:

Do not store or use gasoline or other flammable vapor and liquids in the vicinity of this or any other appliance.

#### TOOLS AND PARTS NEEDED FOR ASSEMBLY

NOTE: 20 pound (7.87kgs), 5 Gallon (18.9 litres) LPG Tank is not supplied

#### **Tools Needed:**

Phillips Head Screwdriver

Adjustable Opening Wrench

Spray Bottle of Soapy Water (To check for leaks)

## **Parts Supplied:**

Reflector (3)

Dome Cap (1)

Reflector Plate (1)

Square Table (1)

Table Leg (4)

Heater Head With PVC Hose Assembly (1)

Post Assembly (1)

Gas Tank Enclosure Assembly (1)

LPG Gas regulator with Hose (1)

**Hardware Bag** 

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For Service Questions Replacement parts or other assistance, Please call Nexgrill Customer Service Hotline at:

Nexgrill Industries, Inc 145 Brea Canyon Road Walnut, CA 91789 (800) 913-8999

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## **PRECAUTIONS**

#### NOTE: PLEASE READ THE FOLLOWING SAFETY

- Do not use this space heater in an explosive atmosphere. Keep heater away from areas where gasoline or other flammable liquids or vapors are stored.
- Prior to use, check for damaged parts such as hoses regulators, pilot or burner.
- Do not attempt to alter unit in any manner. EXAMPLE: using the heater without the top canopy reflector or radiant screen. Do not shorten the burner post assembly.
- Heater must always be placed on a solid and level surface.
- Always maintain proper clearance to combustible materials. Top 36" (91cm) Side 36" (91cm).
- Always assure there is ample fresh air ventilation for outdoors use ONLY.
- Never replace or substitute the regulator with any regulator other than the factory suggested replacement.
- Do not clean heater with cleaners that are combustible or corrosive.
- Do not paint radiant screen, control panel or top canopy reflector.
- All leak tests should be done with a soapy solution. <u>NEVER USE AN OPEN</u> FLAME TO CHECK FOR LEAKS.
- The LP tank should be turned off when the heater is not in use.
- At least once a year, the unit should be inspected for the presence of spiders, spider webs or other insects. The burner area is a common spider haven and can damage the heater and render it unsafe for use, Check the heater immediately if any of the following exists:
- 1. The smell of gas in conjunction with extreme yellow tipping of the burner flames.

- 3. The burner makes a popping noise during use (a slight popping noise is normal when the burner is extinguished).
- The LP regulator/hose assembly should be located out of pathways where people may trip over it or in area where the hose will not be subject to accidental damage.
- Children and adults should be aware of hazards of high surface temperature and should stay away to avoid burns of clothing ignition.
- Young children should be carefully supervised when they are in the area of the heater.
- Clothing or other flammable material should not be hung from the heater, or placed on or near the heater.
- Any guard or other protective device removed for servicing the heater must be replaced prior to operating the heater.
- Installation and repair should be done by a qualified service person. The heater must 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, burner and circulating air passageways of the heater be kept clean.
- Keep the appliance area clear and away from combustible material, gasoline and other flammable vapors and liquids.
- Do not obstruct the flow of combustion and ventilation air.
- Keep the ventilation opening of the cylinder enclosure free and clear of debris.

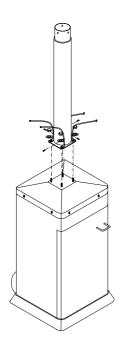
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2. The heater does not reach temperature.

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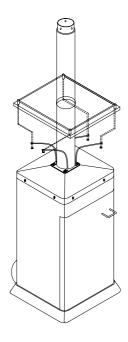
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# **ASSEMBLY INSTRUCTIONS**



#### STEP 1. Attach Table Legs

- Attach the post socket to the top of the tank enclosure using four 1/4"(M6) flat washers and four 1/4" (M6) acorn-caps.
- Secure the four table legs with four of 5/32" (M4) truss head screws.



#### STEP 2. Secure The Table

• Put the square table onto the legs and secure with eight of 5/32" (M4) truss head screws.

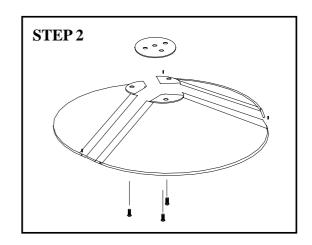
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# **ASSEMBLY INSTRUCTIONS**

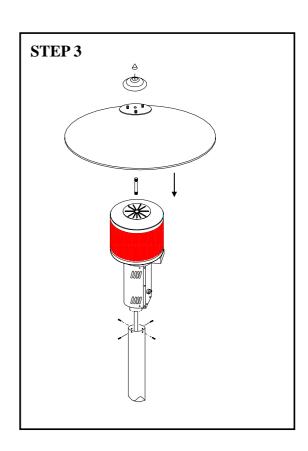
#### STEP 2. Attach Reflector

- Combine the three pieces of the reflector together
- Tighten up with three 5/32" (M4) screws.
- Put the reflector plate on reflector then tighten up with three 1/4"(M6) truss head screws from the bottom up.



#### STEP 3: Attach The Reflector nut & Post

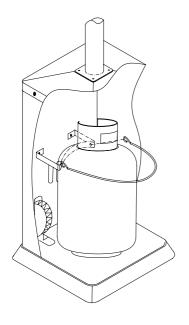
- Screw the 1/4"x 2-3/4" (M6x60mm) dual threaded end-stud into the emitter top.
- Attach the reflector, dome cap and nut onto the emitter top. It screws onto one end of the dual threaded end stud screwed into the emitter top.
- Insert the gas hose from the heater down through the pedestal post.
- Attach the pedestal post onto the heater head with four 3/16" (M5) truss head screws.



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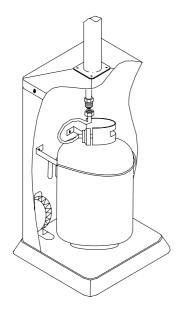
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# **ASSEMBLY INSTRUCTIONS**



#### STEP 4: Gas Tank

- Open tank enclosure door.
- Secure the gas tank with the tank hook by attaching to the bracket of tank enclosure, as show in diagram.



#### STEP 5: Attach Regulator

- Attach flare adapter on hose end of the regulator assembly to the flare fitting on the intake hose.
- Secure the other end of regulator onto gas tank until tight.
- The LP-Gas supply cylinder must be disconnected when this appliance is not in use.
   Disconnect the gas tank by turning the regulator counterclockwise.

ONLY CYLINDERS MARKED "PROPANE" MUST BE USED.

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# GAS REQUIREMENTS & LEAK TESTING

#### NEVER CONNECT AN UNREGULATED GAS SUPPLY TO THE HEATER

#### **PRECAUTIONS**

- Periodically check the whole gas system for leaks or immediately check if the smell of gas is detected
- Extinguish all open flames.
- Never leak test while smoking.
- If you cannot stop a leak, turn off the gas supply and call the Customer Service hotline, the dealer where you made the purchase or your gas supplier.
- The heater must be checked with a full cylinder.
- Do not use the heater until all connections have been leak tested and do not leak.
- Only those parts recommended by the manufacturer should be used. Substitution will void the warranty.

#### **GAS REQUIRMENTS**

- Maximum inlet pressure to propane regulator must not exceed 100 PSI.
- A minimum supply pressure of 11.0 W.C. is required for the purpose of input adjustment for propane gas.
- The pressure regulator and hose assembly supplied with the appliance must be used.
   Replacement pressure regulator and hose must be specified by the appliance manufacturer.
- The installation must conform with local codes or in the absence of local codes, with National Fuel Gas Code, ANSI Z223.1-1996.
- The heater comes equipped with a hose assembly for hook-up to a standard propane gas tank. The propane tank is not included.

- A dented, rusted or damaged propane tank may be hazardous and should be checked by your tank supplier. Never use a propane tank with a damaged valve connection.
- The propane tank must be constructed and marked in accordance with the specifications for LP gas cylinders of the US Department Of Transportation (DOT)
- The propane tank must be arranged to provide for vapor withdrawal from the operating cylinder
- Never connect an unregulated propane tank to the heater

#### LEAK TESTING

 Gas connections on the heater are leak tested at the factory prior to shipment. A complete gas tightness check must be performed at the installation on site due to possible miss handing in shipment or excessive pressure being applied to the heater.

#### TO LEAK TEST

- Make a soap solution of one part liquid detergent and one part water. The solution can be applied with a spray bottle brush or rag. Soap bubbles will appear where a leak is present
- Make certain the safety control valve is in the 'OFF' position
- Turn the gas supply 'ON'.
- If a leak is present turn 'OFF' the gas supply, tighten any leaking fitting, turn gas supply 'ON' and recheck.

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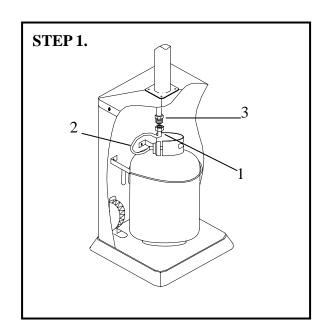
Please contact Customer Service hotline at 800-913-8999 for help.

## **SAFETY CHECKS**

#### STEP 1:

- 1. Check connection of the regulator to the propane tank connection. Remember, the POL adapter is a left-hand thread. (See diagram for Step 1)
- 2. Check all connections on the hose regulator assembly (See diagram for Step 1)
- 3. Check the intake hose to make certain that it is not kinked or in a position that could cause it to kink. Hand tighted and then make a 1/2 turn with the adjustable wrench. (See diagram for Step 1)

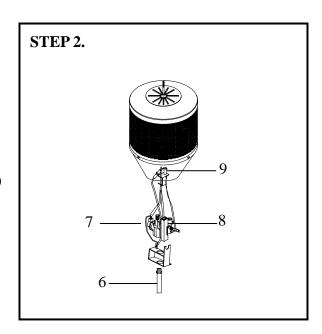
NOTE: The remaining connections are to be tested after the heater has been lit.



#### STEP 2:

- 4. Light the heater following instructions on page 10 and page 11.
- 5. Using spray bottle with soapy water, spray each of the areas listed below to visually inspect for leaks. leaks will be indicated by bubbles.
- 6. Intake hose fitting at the bottom of safety control valve. (See diagram for Step 2)
- 7. Pilot tubing to safety control valve. (See diagram for Step 2)
- 8. Orifice fitting and the safety control valve. (See diagram for Step 2)
- 9. Pilot tubing and pilot. (See diagram for Step 2)

**NOTE:** After leak testing is completed and all leaks are sealed, close the door to the tank enclosure and your patio heater is ready to use.



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# LOCATING HEATER FOR USE

**BE CAREFUL**: When certain materials or items are left under this heater, while in use, they will be subjectok to radiant heat and could be seriously damaged.

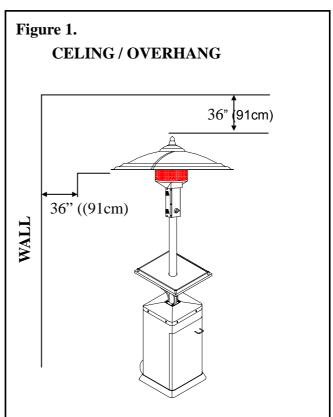
- The unit is designed for heating outdoor patios, decks, spas, pool and working areas.
- Always ensure that adequate fresh air ventilation is provided. Follow the spacing tolerances in Figure 1.
- The minimum clearances to combustible construction shown in Figure 1 must be maintained at all times
- The installation must conform to local codes or in the absence of local codes with the standard for the storage and handling of liquid petroleum gases:

In the US use: ANSI/NFPA58 on National Fuel Gas Code ANSI Z223-1998 In Canada use: National Standards of Canada. CAN/CGA B149.1 & 2-M86

- The heater must be placed on level firm ground.
- Never operate in an explosive atmosphere. Keep away from areas where gasoline or other flammable liquids or vapors are stored or used.



During strong and windy weather, turn off the heater and the gas cylinder valve. Remove the heater reflector hood then move the heater to a sheltered location. Caution do not move heater while it is still hot.



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# LIGHTING/SHUTDOWN

#### BEFORE TURNING THE GAS SUPPLY 'ON':

Visually inspect the hose assembly for evidence of excessive abrasion cuts or wear. If the hose leaks it must be replaced prior to use. The hose replacement shall be that specified by the manufacturer. See parts list or details, then call Customer Service hotline.

Is the surrounding area free of combustible materials, gasoline and other flammable vapors or liquids?

#### **BEFORE LIGHTING:**

For your safety, if re-lighting a hot heater.

Always wait at least five (5) minutes.

#### TO LIGHT:

- (A) Open tank enclosure door.
- (B) Make certain hose is connected to the heater intake hose and regulator is connected to the propane tank. Check both connections to ensure they are tight and leak proof.
- (C) Turn supply tank valve in a counter clockwise direction. Check for leaks by applying soapy water to the tank and hose connections.
- (D) Push and turn the gas control knob to 'PILOT' position. The igniter will spark at the same time. Firmly press-down the knob for 15 seconds until the pilot remain lit. It might need 2 or 3 trials to light the pilot burner. If the pilot fails to remain lit or becomes extinguished. Repeat steps B-D.
- (E) Once the pilot is lit continue to hold in the control knob for 15seconds or the until pilot remains lit after knob is released.
- (F) The burner may now be turned to the full on position and then reduced to the desired heat range.

Caution: Avoid inhaling fumes emitted from the heater's first use. Smoke and odor from the burning of oils used in manufacturing will appear. Both smoke and odor will dissipate after approximately 30 minutes. The heater should NOT produce thick black smoke.

**NOTE:** The burner may be noisy when initially turned on. To eliminate excessive noise from the burner, turn the Control Knob to the pilot position. Then turn the knob to the level of heat desired.

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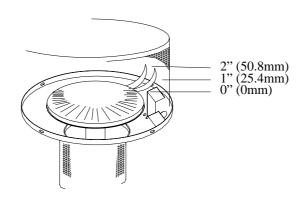
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# LIGHTING/SHUTDOWN

#### WHEN HEATER IS ON:

- The emitter screen will become bright due to intense heat. The color is more visible at night.
- The burner will display tongues of blue flame. These flames should not be all yellow or produce thick black smoke, indicating an obstruction of airflow through the burners. The flame should be blue with straight yellow tops.
- The flame pattern at the emmitter grid should be visually checked whenever heater is operated (see figure 2). If flames extend more than 1/2 inch (12.7mm) beyond surface of the emitter grid or reflector the heater should be turned off immediately and the heater should not be operated again until repairs are made

FIGURE 2 NORMAL FLAME POSITION



#### RELIGHTING

- (A) Turn the control knob to off position.
- (B) Wait five (5) minutes for gas to dissipate before attempting to relight the pilot.
- (C) Repeat steps beginning with step (D) on the previous page (Pg. 10).

#### SHUT DOWN INSTRUCTIONS:

- (A) Turn control knob clockwise to 'OFF' position. The burner may make a slight popping sound when extinguished. This is normal.
- (B) Turn propane tank gas valve clockwise to 'OFF' position when heater is not in use

Caution: This patio Heater contains a Tilt Safety Switch which is designed to provide safe use of the patio heater. The tilt safety switch will automatically shut-off the heater when it tilts in the tip angle over 45-60 degrees from vertical position.

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# STORAGE/BURNER REMOVAL

WHEN STORING THE HEATER THE CONNECTION BETWEEN THE PROPANE TANK AND THE HEATER MUST BE DISCONNECTED AND THE PROPANE TANK REMOVED FROM THE ENCLOSURE AND STORED INDOORS IN A WELL VENTILATED AREA OR IN ACCORDANCE WITH CHAPTER 5 OF THE STANDARD FOR THE STORAGE AND HANDLING OF LIQUEFIED GASES, ANSI/NFPA 58-1998.

#### **CLEANING:**

Your heater will last longer if maintained properly. It is important that the flow of combustion air must never be obstructed. Orifice and air openings must be kept free of dirt and spider webs. Never use a cleaning agent which is flammable or corrosive.

It is recommended that the heater body components; from the burner head down, are periodically protected with a coat of automobile wax .

If repainting is necessary, paint only the post/base assembly. Never paint the reflector, emitter assembly the safety control valve cylinder, valve panel or instruction plate on post.

The posts of the burner must remain clean so that the gas flow is unrestricted. The air inlet of the venturi tube must also be kept clean for combustion air supply if the heater is not performing properly it may be necessary to clean the burner (see burner removal).

#### **BURNER REMOVAL:**

- 1. Remove reflector and emitter assembly by removal of the screws that fasten the emitter assembly to the lower screen cone .
- 2. Remove the burner by unscrewing the burner from the top of the valve body.

Any debris in the opening of the burner assembly can be cleared with a straightened piece of coat hanger. Any rust can be removed carefully with a wire brush. Never use a piece of wood or other materials that might break off and block the ports.

Caution: Bugs and small insects easily get into the burner, gas orifice and pilot. Check the unit before using after extended storage.

**Tips:** Lighting the Patio Heater once a month will ensure your heater remains in good working condition.

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## **BURNER INSTALLATION/PILOT CLEANING**

#### **BURNER INSTALLATION:**

Install the burner assembly by reversing the four (4) steps used for disassembly making certain the burner assembly stands centered when complete.

After reassembly, the heater should be test fired. Observe the burner flame. The flame should be blue with a slight yellow tipping.

#### **PILOT CLEANING:**

The pilot burner provides a flame to light the main burner. It also heats a thermocouple which must be hot before allowing the main burner to come on.

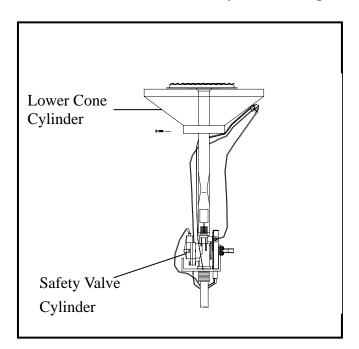
If the pilot is blocked by debris, spider webs, etc., the pilot flame may be small and the thermocouple may not heat up enough for the main burner to come on. If this occurs it will be necessary to clean the pilot.

#### BEWARE OF SPIDERS



CAUTION : BURNER TUBES MUST BE INSPECTED AND CLEANED BEFORE FIRST USE

Spiders and small insects occasionally spin webs or make nests in the burner tubes and orifices during warehousing and transit these webs or nests can lead to a gas flow obstruction which could result in afire on and around the burner tubes. This type of fire is known as FLASH BACK and can cause serious damage to your patio heater and create an unsafe operating condition for the user Although an obstructed burner tube is not the only cause of FLASH BACK it is the most common cause and frequent inspections and cleaning of the burner tubes is necessary.



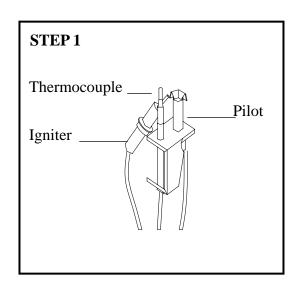
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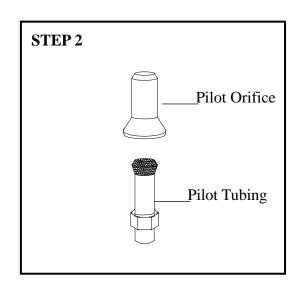
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# **BURNER REMOVAL**

#### START DISASSEMBLY FOR CLEANING BY:

- 1. Remove the valve panel to gain access to the pilot.
- 2. Remove screw that fastens the pilot assembly to the lower screen cone.
- 3. Hold the pilot assembly with slip joint pliers, loosen and remove the nut at the base of the pilot.
- 4. Inspect the pilot and tubing for blockage, you should be able to see through the pilot. If it is obstructed by debris clear with a piece of wire.
- 5. The cap-like pilot orifice can be cleared with a pin. Use the pin gently on the inside of the orifice to clear debris. Never enlarge the opening of the pilot orifice.





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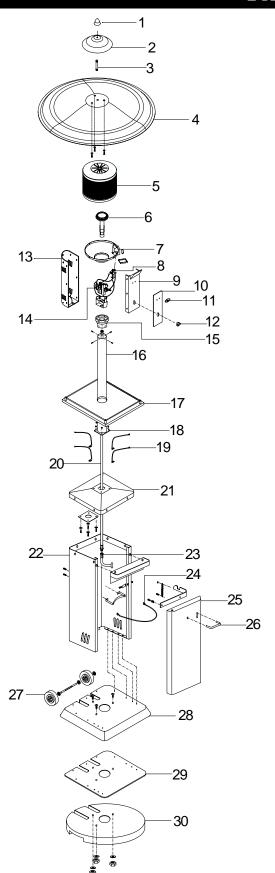
# TROUBLE SHOOTING

Problem	Possible Causes	Correction
Pilot won't light	<ul> <li>Air in gas line</li> <li>Lowe gas pressure</li> <li>Gas line turned 'OFF'</li> <li>Blockage in gas line</li> <li>Pilot orifice is clogged</li> <li>Control knob not in pilot position</li> <li>Control knob not pressed in while in pilot position</li> </ul>	<ul> <li>Purge gas line and repeat ignition operation</li> <li>Check gas pressure</li> <li>Turn 'ON' gas supply</li> <li>Check gas passage way</li> <li>Call a qualified person</li> <li>Turn control knob to pilot position</li> <li>Press in control knob while in pilot position</li> </ul>
Igniter did not spark	<ul> <li>Igniter electrode positioned wrong</li> <li>Igniter electrode broker</li> <li>Igniter cable pinched or broken</li> <li>Igniter cable not connected to gas control</li> </ul>	<ul> <li>Correct electrode position</li> <li>Replace electrode</li> <li>Free igniter cable, if damaged replace assembly</li> <li>Connect cable to igniter</li> </ul>
Pilot won't stay lit	<ul> <li>Tilt switch in trip angle/OFF position</li> <li>Bad thermocouple</li> <li>Corrosion of thermocouple contact</li> <li>Safety interlock is triggered</li> <li>Bad gas valve</li> <li>Control knob not pressed in long enough</li> <li>Thermocouple connection loose at gas control or damaged</li> <li>Pilot flame not touching the thermocouple</li> </ul>	<ul> <li>Reset the Heater keep in vertical position</li> <li>Replace thermocouple</li> <li>Clean thermocouple contact</li> <li>Wait a minute repeat ignition operation</li> <li>Replace gas valve</li> <li>After pilot lights, keep control knob pressed in for 60 seconds</li> <li>Tighten connection or replace thermocouple</li> <li>Contact a qualified service person</li> </ul>
Main burner won't light	<ul> <li>Low gas pressure</li> <li>Blockage in burner orifice</li> <li>Control knob not in 'ON' position</li> </ul>	<ul> <li>Check gas supply pressure</li> <li>Clean burner orifice</li> <li>Turn control knob to 'ON' position</li> </ul>

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# PARTS LIST



## Parts List

No.	Description	Qty
1	Reflecotor Nut	1
2	Reflecotor Dome Cap	1
3	Threaded Ends Stud	1
4	Reflector	3
5	Emitter Grid	1
6	Main Burner Assembly	1
7	Emitter base	1
8	Pilot Assembly	1
9	Control Housing Front Panel	1
10	Lighting Instruction Plate	1
11	Logo Plate	1
12	Control Knob	1
13	Control Housing	1
14	Gas Valve	1
15	Control Husing Base	1
16	Post	1
17	Square Table	1
18	Post Socket Plate	1
19	Table Leg	4
20	Gas Hose	1
21	Tank Cover	1
22	Tank Enclosure	1
23	Regulator	1
24	Tank Hook	1
25	Tank Enclosure Door	1
26	Door Handle	1
27	Wheels	1
28	Base Assembly	1
29	Base Plate	1
30	Weighted Base	1

# LIMITED WARRANTY

#### FOR MODEL PTH106A-SS

#### **GAS-FIRED INFRARED OUTDOOR PATIO HEATER**

Nexgrill Industries, Inc warrants to the original consumer purchaser of each Outdoor Patio Heater that when subject to normal residential use, it is free from defects in workmanship and materials under normal conditions of use in a commercial application for a period of 90 days from purchase and in a residential application for a period of 1 year. Any work or repair of the heater must be performed by qualified service personal. There will be a shipping and handling charge for the delivery of the warranty part(s).

Component	Warranty Period
Burner:	3 Years
Valve:	1 Year
Pilot Kit:	1 Year
All Other Parts	1 Year

Our obligation under this warranty is limited to repair or replacement at our option of the product during the warranty period. The extent of any liability of Nexgrill Industries, Inc. under this warranty is limited to repair or replacement. This warranty does not cover normal wear of parts, damage resulting from any of the following: negligent use or misuse of the product, use on improper fuel/gas supply, use contrary to operating instructions, or alteration by any person other than our factory service center. The warranty period is not extended by such repair or replacement.

**Warranty claim procedure:** If you require service or parts for your Patio Heater, please contact our Warranty Service Center for factory direct assistance. Our hours of operation are 8 AM to 5 PM PST. Our number is 1-800-913-8999 and our FAX number is 1-909-598-7699. Please direct all correspondence to: Nexgrill Industries, Inc. 145 Brea Canyon Road, Walnut, CA 91789 ATTN: Warranty Service Center.

Product repair as provided under this warranty is your exclusive remedy. Nexgrill Industries, Inc. shall not be liable for any incidental or consequential damages for breach of any express or implied warranty on its products. Except to the extent prohibited by applicable law, any implied warranty or merchantability or fitness for a particular purpose on this product to the duration of the above warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.