

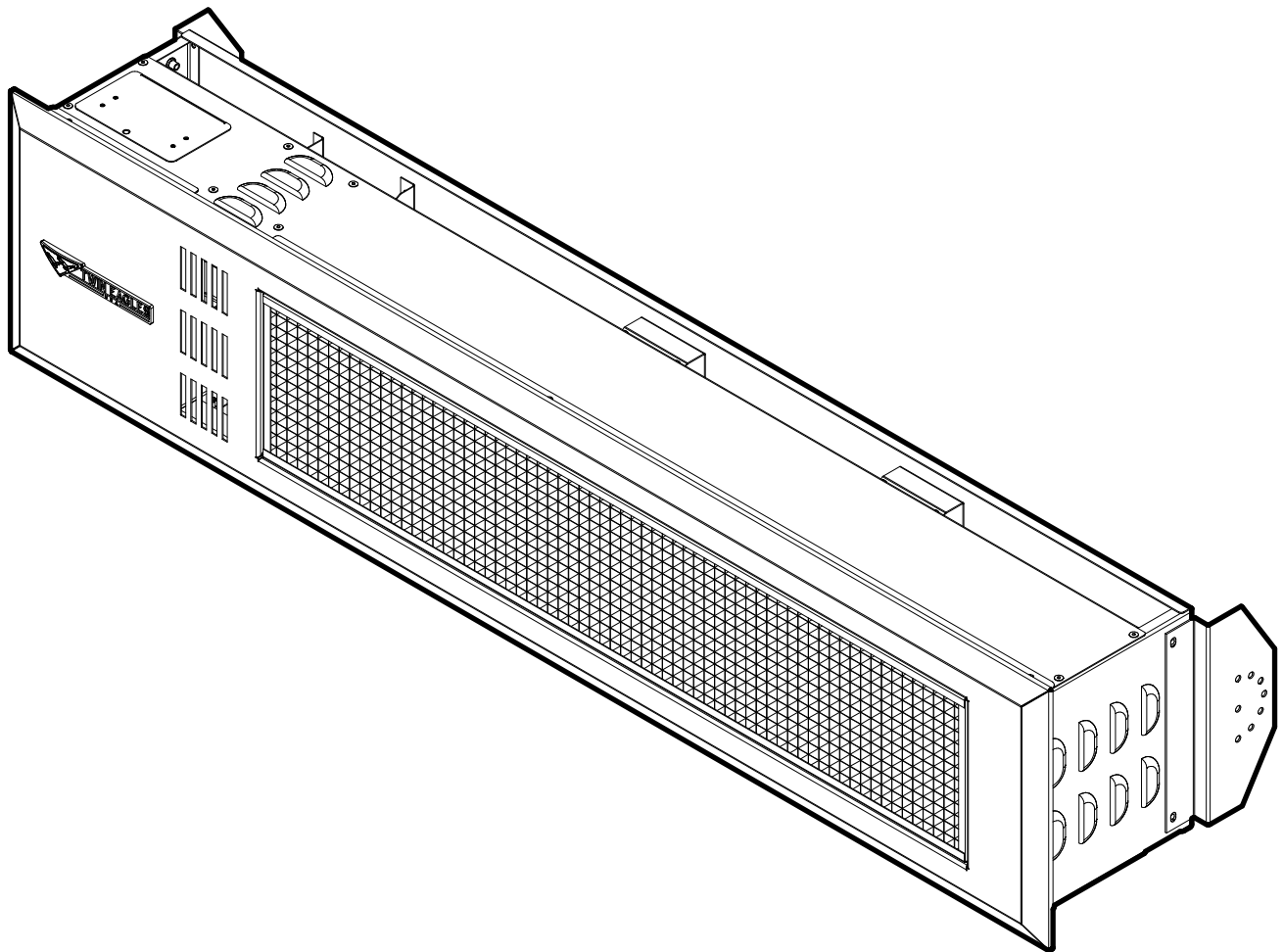


TWIN EAGLES



DOMETIC

TWIN EAGLES OUTDOOR GAS INFRARED HEATER



INSTALLATION, USE AND CARE MANUAL

MODELS:
TEGH48-B

⚠️ WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

A SPECIAL MESSAGE TO OUR CUSTOMERS...

A special message...

Congratulations on your purchase of Twin Eagles Outdoor Gas Infrared Heater. We have designed this heater to provide you and your family with many years of great comfort heating experience. In addition to its Style, Performance and High Quality, this heater is built with pride in the U.S.A.

This manual gives you easy to follow instructions for installing, operating and maintaining your Twin Eagles heater. We recommend reading this manual carefully before your first use to insure safety, proper care and operation.

Dante Cantal

OWNER AND FOUNDER

FOR YOUR RECORDS

Please record the following information and refer to them when contacting the company or an authorized service agent. The model number and serial number are found on the nameplate, located on the upper left corner of the back cover when facing the unit.

SERVICE INFORMATION

Model Number TEGH48-B

Serial Number _____

Date of Purchase _____

Place of Purchase _____

Type of Gas

NG

LP



To the Installer:

Please read these instructions completely before installation and give this manual to the owner.

To the Owner:

Keep this manual in a safe place for future reference.

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⚠️WARNING: CALIFORNIA PROPOSITION 65

This product can expose you to chemicals including carbon monoxide which is known to the State of California to cause cancer and reproductive harm. To minimize exposure to the by-products of the burning fuel or from combustion, always operate this unit according to the use and care manual and provide good ventilation. California law requires businesses to warn customers of potential exposure to such substances. For more information go to www.P65Warnings.ca.gov.

⚠️AVERTISSEMENT: PROPOSITION 65 DE L'ETAT DE LA CALIFORNIE

Cet appareil peut vous exposer aux produits chimiques et au gaz monoxyde de carbone reconnue dans l'Etat de la Californie pour causer le cancer et des problemes de fertilit e. Pour minimiser l'exposition de ces-sous produits combustibles ou de la combustion, utiliser toujours cet appareil en conformitee au manuel d'utilisation et d'entretien en s'assurant egalement d'une bonne ventilation. La loi de la Californie exige aux fabricants d'informer leurs clients aux risques d'exposition potentielle a de telles substances. Pour plus d'information, visiter le site www.P65Warnings.ca.gov.

COMMONWEALTH OF MASSACHUSETTS:

In Massachusetts: All gas products must be installed using a "Massachusetts" licensed plumber or gas fitter. A "T" handle type manual gas valve must be installed in the gas supply line to this appliance. This applies to permanently installed natural gas and propane installations. This does not apply to propane portable installations using a 20-pound tank.

INFRARED HEATER FEATURES

Twin Eagles Gas Infrared Heater extends the outdoor activities during the cool days of fall and through the winter seasons providing a comfortable warm and inviting environment for your family and friends. Some of the Twin Eagles Gas Infrared Heater features are:

- Wall mounted wireless remote control (lithium batteries included).
- Two heat levels; 25,000 BTU LOW setting and 37,000 BTU HIGH setting.
- No electrical wiring required. Battery operated gas control valve (AA batteries included).
- Spark ignition with 100% safety pilot.
- Slim profile (TEGH48; W = 9" x L = 48" x D = 8").
- Angle mounting Stainless Steel brackets provides the option of Zero or 30 degree mounting to direct the radiant heat towards a desired area in a variety of outdoor patio applications.
- Decorative Safety Grille that provides shielding from wind. Wind proof up to 15 MPH.
- Great option for patios with limited floor space of high traffic areas.
- NG (Natural Gas) or LP (Liquid Petroleum Gas or Propane). Gas conversion kits available.
- Optional 120V AC adapter (usage is optional).
- Comes standard with:
 - ◇ Stainless Steel 16 gauge mounting brackets.
 - ◇ Flexible gas hose approved for NG or LP installation.
 - ◇ Wall mounted wireless remote control.

GETTING STARTED

1. Inspect the packaging for any physical damage, followed by checking the gas heater inside. If there is significant damage to the heater, report the damage to the carrier immediately.
2. Check to ensure that all the heater accessories are included.
3. Remove all packaging materials, labels and protective film. **DO NOT LEAVE UNIT UNDER THE SUN WITH PROTECTIVE PLASTIC FILM ON FOR LONG PERIOD OF TIME AS IT WILL BE DIFFICULT TO REMOVE THE FILM.**
4. Read the installation, operation and maintenance manual thoroughly before installing this heater.

IMPORTANT

All gas connections should be made by a qualified technician in accordance with all requirements of the authority having jurisdiction. The technician must be knowledgeable, specifically trained and experienced in the installation of this type of gas equipment and related gas system components and with all precautions required regarding this type of equipment. Some states or provinces require installation and service personnel to be licensed. If your state or province is such, be sure your contractor bears the appropriate license. If a person does not meet all requirements and is not qualified for this installation he/she shall not attempt to repair, replace, install nor do any other type of work or service to this equipment.

GAS INSTALLATION REQUIREMENTS

Each patio heater is set and tested at the factory for the type of gas supply to be used. Identify the type of gas, either natural gas or LP gas and make sure that the marking on the nameplate (rating plate) matches the gas being supplied to the heater. The model number and serial number are found on the nameplate, located on the upper left corner of the back cover when facing the unit.

CODE REQUIREMENTS

- Installation must be in accordance with local codes, or in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *Natural Gas and Propane Installation Code, CSA B149.1*.
- Heaters to be installed in Aircraft hangars must be installed in accordance with *American National Standards for Aircraft Hangars, ANSI/NFPA No. 409*.
- Heaters to be installed in Public Garages must be installed in accordance with *NFPA No. 88A, Standards for Parking Structures*.
- Heaters must be installed so that minimum clearances marked on the heaters will be maintained from vehicles parked below the heater.
- When equipped with an AC/DC adapter, the heater must be electrically grounded in accordance with the *National Electrical Code, ANSI/NFPA 70*, when an external electrical source is utilized. In Canada, the *CSA Canadian Electrical Code, C22.1 Part 1* applies.

GAS SUPPLY

It is important that the inlet gas piping system be adequately sized for the heater(s) it serves. The gas inlet and manifold pressure required for the heater is listed below. For gas supply line pressures in excess of ½ psi, consult with your representative or the factory.

GAS INLET PRESSURE	NAT GAS	PROPANE
MAXIMUM PRESSURE	10" WC	13" WC
MINIMUM PRESSURE	6" WC	11" WC
MANIFOLD PRESSURE	5" WC	10" WC

- A minimum pipe size of ½" is required for inlet piping. A ½" lever handled shut-off gas valve should be installed within 6 feet of the appliance for servicing the unit.
- Check with local and state plumbing and heating codes regarding sizing of gas lines.
- All gas connections to the heater(s) must be sealed with a gas pipe compound resistant to liquefied petroleum gases.
- Installation of a drip leg in the gas supply line going to each heater is required to minimize the possibility of any loose scale or dirt within the gas supply line from entering the heater's control system.
- When checking for gas leaks, do not use an open flame. Use the Leak Test procedures using liquid soap and water solution.
- For gas supply line pressure in excess of ½ psi, consult the factory or your local representative.
- Installation of 1/8" NPT plugged tapping accessible for test gage connections is required upstream of the gas supply connections to the heater.

LEAK TEST

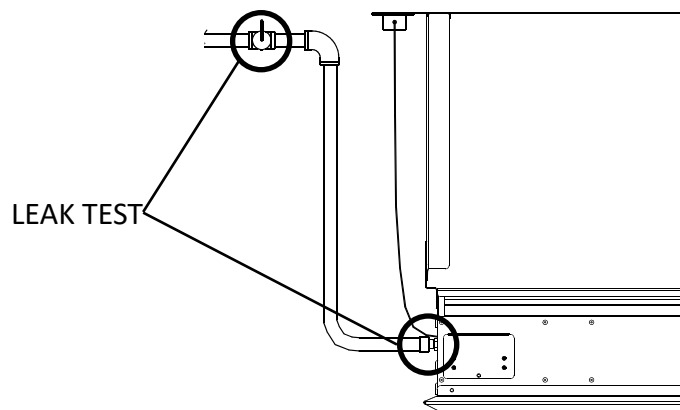
At the beginning of each fall/winter season and after filling and reattaching the propane tank, you should test the unit for gas leaks using soap solution. Periodically inspect the connections for corrosion. If you find a problem, contact your gas supplier for repairs.

CAUTION BEFORE TESTING

- Finding and/or fixing a gas leak is **NOT** a “**DO-IT-YOURSELF**” procedure.
- **NEVER USE THE PATIO HEATER WITHOUT FIRST LEAK TESTING THE GAS CONNECTIONS.**
- **WARNING: DO NOT USE OPEN FLAME TO CHECK FOR LEAKS. USE OF AN OPEN FLAME COULD RESULT IN A FIRE, EXPLOSION AND BODILY HARM.**
- **DO NOT SMOKE WHILE PERFORMING THE LEAK TEST!**
- To prevent fire or explosion hazard, **DO NOT** use or permit sources of ignition in the area while performing a leak test. Perform leak test outdoors only.
- Check to ensure that the flexible hose does not have any cuts and wear that may affect the safety before each use. Only the factory supplied hose and regulator must be used. Use only replacement regulator and hose assemblies specified by Twin Eagles.
- If you are using a propane tank, check to ensure that there are no holes, dents, rusted weak spots, cracks, or other damage on the propane tank. If any damage is detected, the tank should be replaced immediately.

LEAK TEST

1. Prepare a leak testing solution of sudsy water by mixing in a spray bottle with half liquid soap and half water.
2. Confirm that the heater is in the OFF position.
3. Turn the main gas valve supply ON.
4. Apply leak testing solution by spraying on the pipe joints, valve fittings and hose.
5. A gas leak is detected if;
 - a. There is a faint gas smell and/or...
 - b. Growing bubbles appear on any of the connection points and/or hose. **DO NOT** attempt to ignite the heater and **IMMEDIATELY** turn off the gas supply valve.
6. When there is a gas leak, call a qualified service technician. **DO NOT** use the heater until the leak is corrected.



LOCATING THE HEATER

When selecting a location to install the Twin Eagles Gas Infrared Heater, all the following conditions must be met before the installation process:

1. ANCHORING TO WALL OR CEILING

- a. If the heater is not anchored to support at least 100 lbs. (45 ½ kg) it could be a suspension hazard. Failure of the supports can result in death. Local codes regarding head clearance requirements must be observed. Heaters shall be mounted in a fixed position independent of the gas and electrical supply.

NOTE: Use only the mounting brackets provided by the manufacturer. Heater must be leveled only on a **Horizontal Axis** but can be angled to a maximum of 30 degrees in reference to the floor. **DO NOT** mount the heater on a vertical axis. Such installation is considered unsafe and improper and will automatically VOID the product's warranty.

2. COMBUSTIBLE MATERIALS

- a. Combustible means material that can quickly catch fire if it comes in contact with sparks or fire. The Twin Eagles heater is a remote controlled unit that strictly requires that each heater must be installed such that the "**MINIMUM CLEARANCE TO COMBUSTIBLES**" are always met and maintained. CAUTION should be taken when heaters are used near glass, vinyl siding or other temperature sensitive construction materials. In some cases it may be necessary to increase the clearance around the heater to avoid damage to vinyl siding. Check with the manufacturer of the material siding for details.

3. WEATHER CONDITIONS

- a. This heater has been designed, tested and approved for outdoor installation and has passed basic wind and rain tests. However, do not expose the heater under extremely harsh weather conditions and very windy areas.

4. FIRE SPRINKLERS

- a. Fire Sprinklers must be located at an appropriate distance from each heater to avoid accidental activation of the sprinkler. Ethylene glycol, propylene glycol, antifreeze solutions or any other potentially flammable substance must never be used in fire sprinkler systems where heaters are present as these substances may become flammable when heated. A fire sprinkler professional must be consulted when heaters are installed where fire sprinklers are present to ensure that heaters and the fire sprinkler system are properly integrated. Specific guidelines can be found in *NFPA 13* regarding design and specifications for Fire Sprinkler Systems near heaters.

5. VENTILATION

- a. It is required that areas above the heater be properly vented to allow for necessary combustion air and removal of combustion gases.
- b. DO NOT obstruct the flow of combustion and ventilation air to this heater. If using a propane tank, keep the ventilation openings free and clear from debris.
- c. Heater must be in a location that allows uniform air pressure around the entire heater.
- d. Heaters shall be provided with natural or mechanical means to supply and exhaust at least 4 CFM per 1,000 BTU per hour of heater input. This equates to 150 CFM. Exhaust opening for removing the flue products shall be above the level of the heaters.
- e. Heater ventilation must comply with state and local codes.

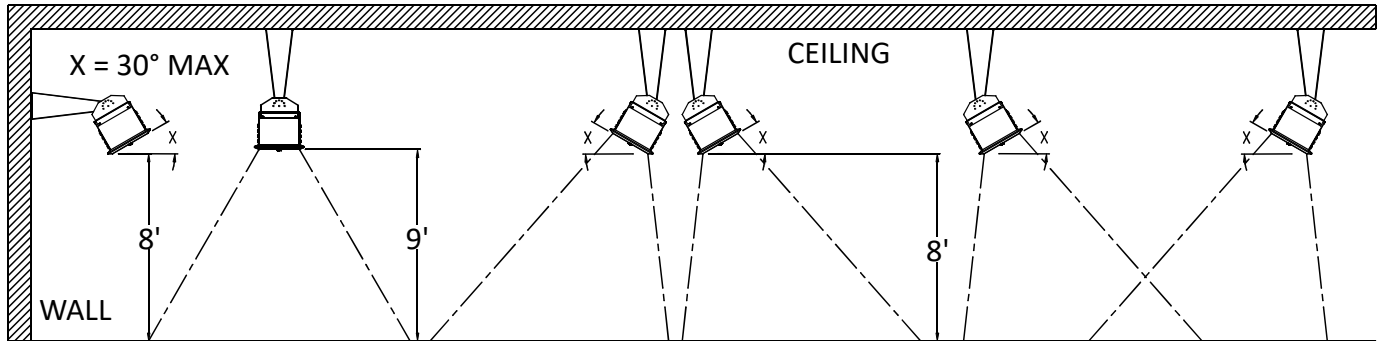
6. DESIRED HEATING AREA COVERED

MODEL	MOUNTING HEIGHT	COLD-BREEZY	MILD	WELL PROTECTED	HEATER LENGTH	VOLTS
TEGH48-B	8FT - 9FT	6FT X 6FT	8FT X 8FT	10FT X 10FT	48"	6VDC

LOCATING THE HEATER - cont.

7. PATIO DESIGN CONSIDERATION

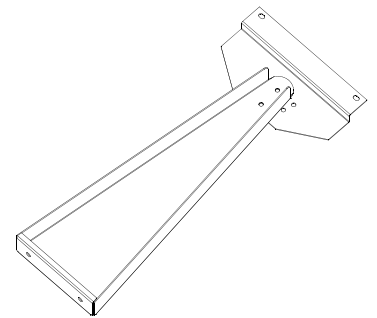
- a. Heater placement is critical for effective and efficient patio heating. If heaters are placed too close together or mounted too low, people become uncomfortable. If the heaters are placed too far apart on a breezy or wind-swept patio area, the patio may never get warm. Gas Infrared heaters work best if they are placed in areas of the greatest heat loss, such as the open side of a semi-protected patio area.



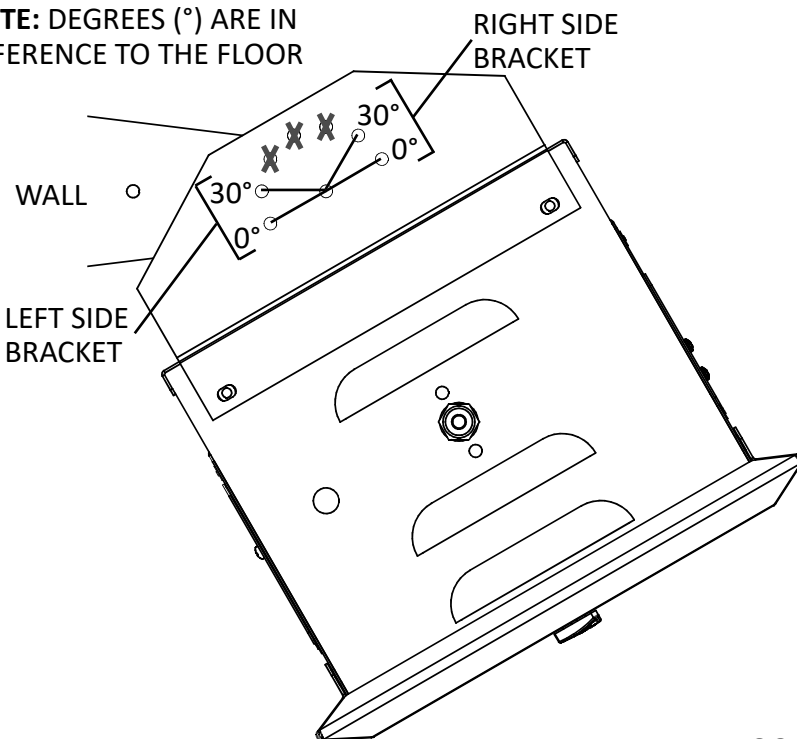
• MOUNTING BRACKET ASSEMBLY

Angle Mounting: the heater may be angle mounted to a maximum of 30° to accommodate mounting the heater around edges of the patio or under eaves.

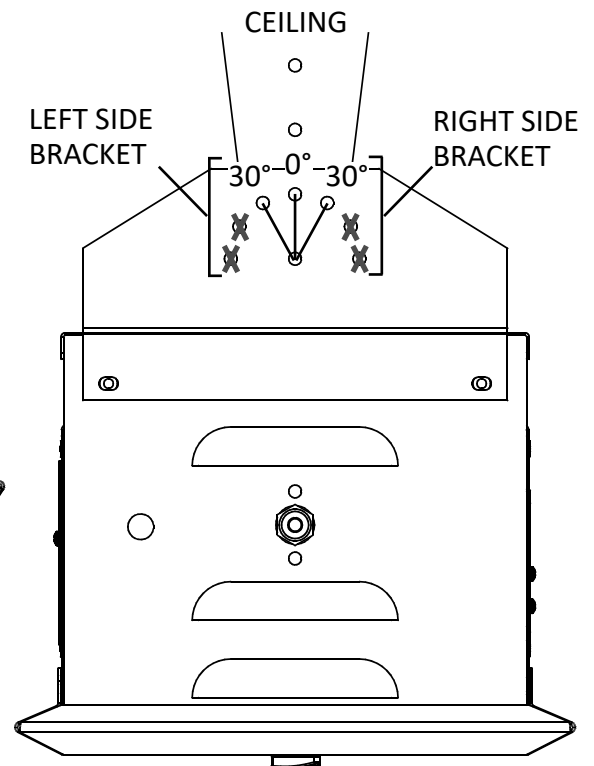
NOTE: Use only the mounting brackets provided by the manufacturer. Heater must be leveled only on a **Horizontal Axis** but can be angled to a maximum of 30 degrees in reference to the floor. **DO NOT** mount the heater on a vertical axis. Such installation is considered unsafe and improper and will automatically **VOID** the product's warranty.



NOTE: DEGREES (°) ARE IN REFERENCE TO THE FLOOR



WALL MOUNTED



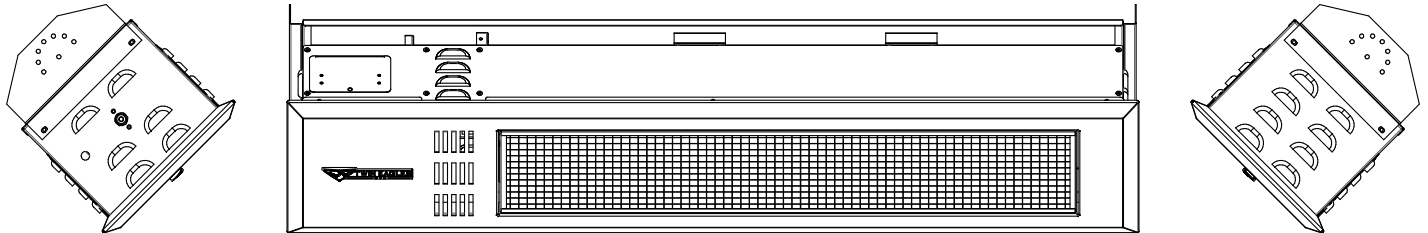
CEILING MOUNTED

LOCATING THE HEATER - cont.

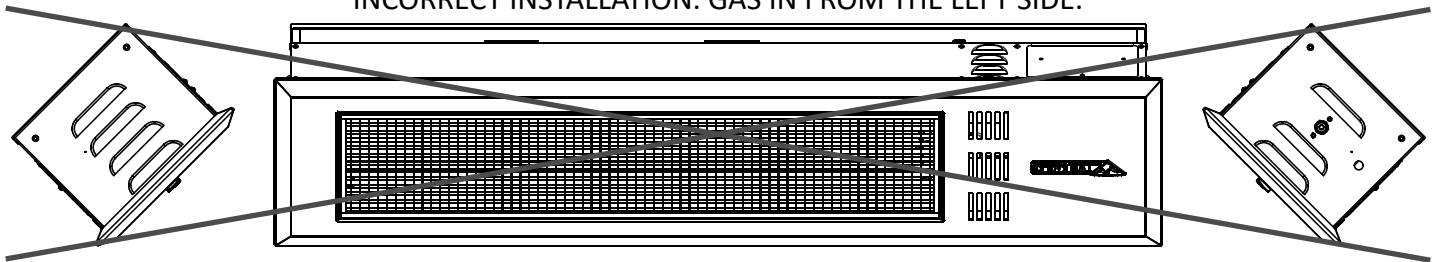
8. GAS INLET

- The gas inlet of the heater is located on the left side of the unit by design.
- The heater is NOT to be mounted to where the gas inlet is on the right side as it may cause damage to the heater and doing so will void the product warranty.

CORRECT INSTALLATION. GAS IN FROM THE LEFT SIDE.



INCORRECT INSTALLATION. GAS IN FROM THE LEFT SIDE.



9. MOUNTING

- The heater may be mounted at a 0 degree angle or at a maximum of a 30 degree angle in reference to the floor. The heater must always be horizontal to the floor.
 - WARNING:** If the heater is mounted at greater than a 30 degree angle will cause improper flue exhaust of combustion gases which may result in damage to the front grille.
- NOTE:** Use only the mounting brackets provided by the manufacturer. Heater must be leveled only on a Horizontal Axis but can be angled to a maximum of 30 degrees in reference to the floor. **DO NOT** mount the heater on a vertical axis. Such installation is considered unsafe and improper and will automatically **VOID** the product's warranty.
- Clearance around the heater must be maintained for prevent fire hazard and to allow proper ventilation of the heater. Heater must be in a location that allows uniform air pressure around the entire heater.

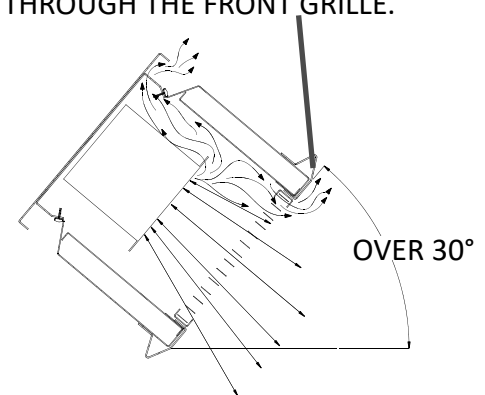
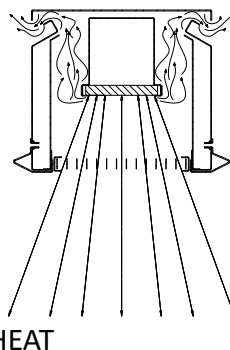
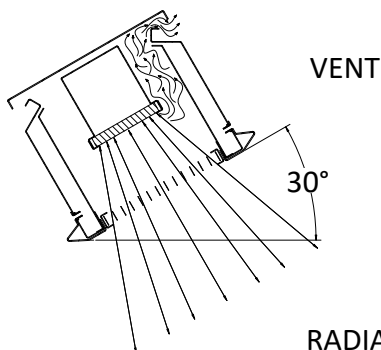
CORRECT INSTALLATION

INCORRECT INSTALLATION

ANGLED MOUNT

HORIZONTAL MOUNT

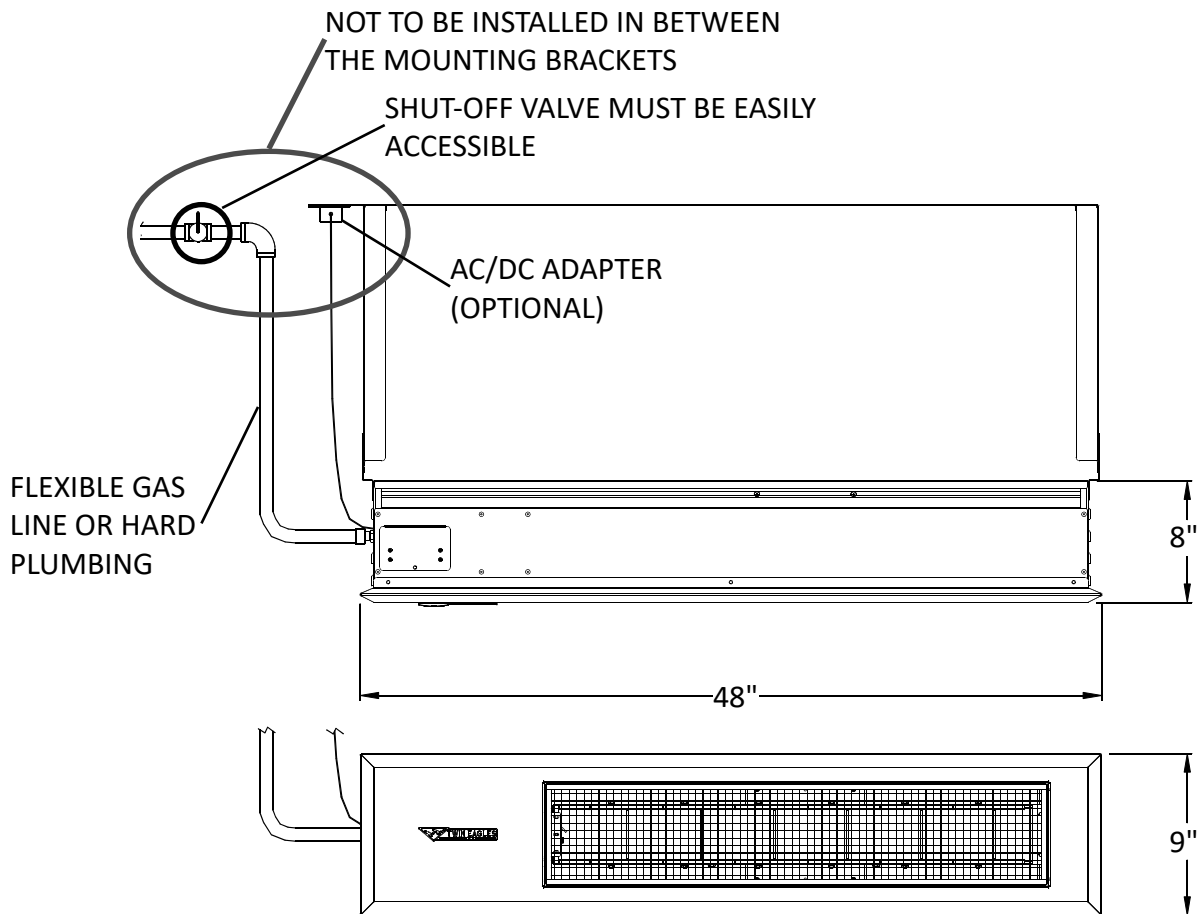
COMBUSTION GASES EXIT THROUGH THE FRONT GRILLE.



HEATER MUST BE INSTALLED IN SUCH A WAY THAT COMBUSTION EXITS THROUGH TOP VENTS.

LOCATING THE HEATER - cont.

- Do not locate either the gas or electrical supply line directly above the flue outlet of the heater. The heater must be installed in a location so that it is readily accessible for servicing and have no restriction of airflow for combustion air and exhaust flue.



IMPORTANT

ALL AREAS AROUND THE HEATER MUST BE CLEARED OF ANY COMBUSTIBLE MATERIALS.

MOUNTING CLEARANCES

Each heater must be installed such that the following "Minimum Clearance to Combustibles" are maintained. Combustible materials include wood, compressed paper, plant fibers, plastic, or other materials capable of being ignited and burned. Such materials shall be considered combustible even though flame-proofed, fire retardant treated or plastered. Additional clearance may be required for glass, painted surfaces, vinyl siding or other materials which may be damaged by radiant or convection heat. A minimum clearance of 24 inches above the heater must be maintained to plastics, vinyl or any other materials that may be adversely affected by radiant or convection heat.

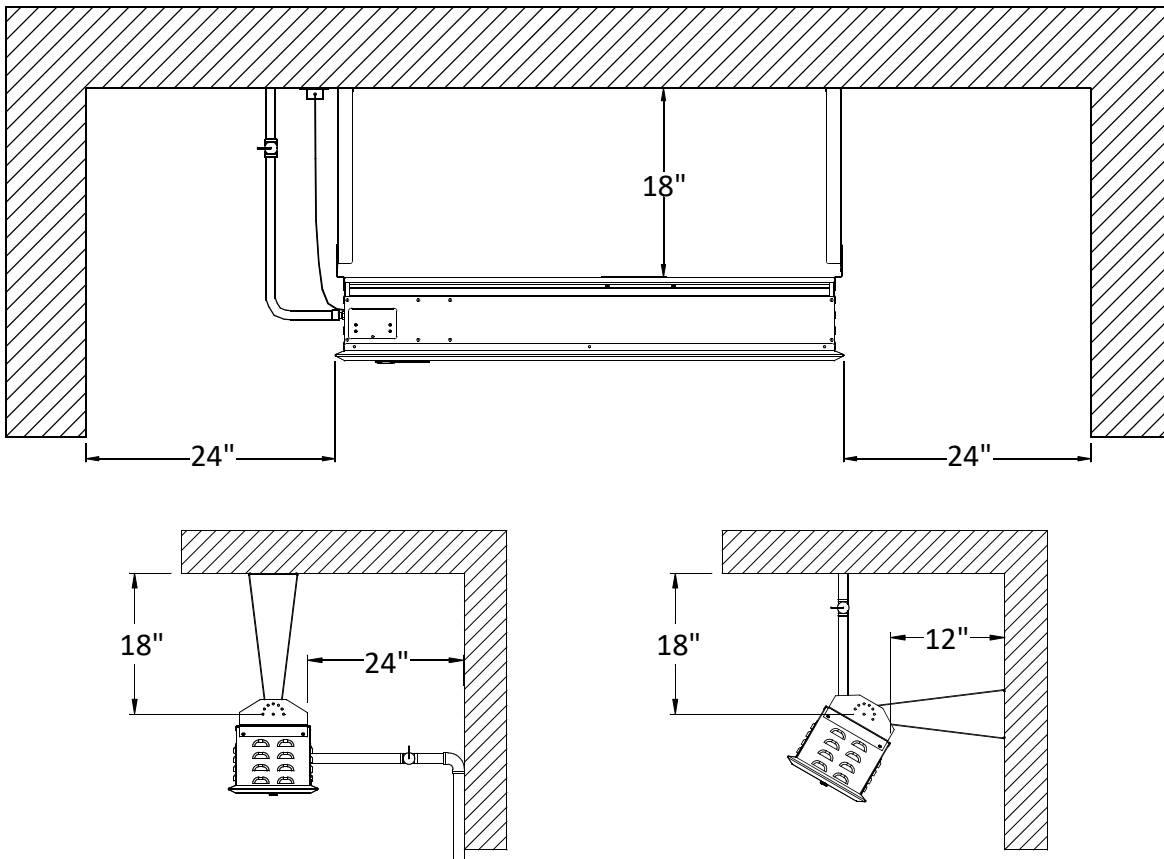
WARNING

The clearances shown below are applicable to vehicles parked below or in front of the heater(s). They are also applicable to retractable awnings, umbrellas, pergolas, etc. whether the heater is ON or OFF. Do not place an objects whether combustible or non-combustible within the mounting clearances specified on the mounting instructions.

NOTE: Where applied, the Uniform Mechanical Code requires that all portions of overhead radiant heaters are located at least 8 feet above the floor.

MINIMUM CLEARANCES TO COMBUSTIBLES:

SIDES OR ENDS	BACK	ABOVE	BELOW
24"	12"	18"	48"



ELECTRICAL INSTRUCTIONS

TO INSTALL THE BATTERY ON THE WIRELESS REMOTE CONTROL:

1. Slide out the battery cover at the back of the remote control (Battery type: A23 - 12v).
2. Place the battery into the battery slot with the polarities pointing towards the appropriate polarity. Then push the battery in. Push the ON button to verify that the red indicator turns on. Then place the face plate back on with the Twin Eagles logo at the bottom near the LO button.

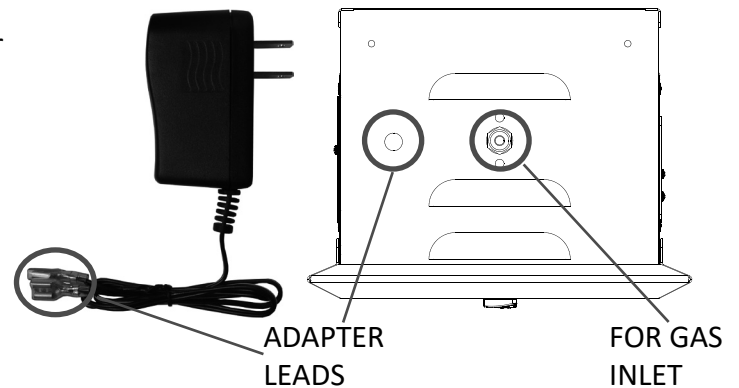


The heater receiver is powered by four 1.5V AA batteries located in a battery pack inside the heater component compartment. These batteries should be adequate for the heater operation for a whole season.

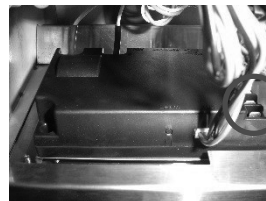
TO INSTALL THE AC ADAPTER:

An AC/DC adapter can be used, in which case the batteries will become a back-up voltage supply. The adapter must NEVER be located inside the heater control compartment. If adapter is used, provide a 120-volt outlet near the end of the heater but not directly above the heater.

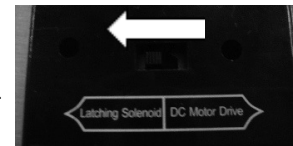
- a. Run the power lead connectors of the AC adapter through the small hole next to the gas inlet.



- b. Connect terminals of the adapter to the "POWER" male terminals of the electronic controller, there is no polarity. Then plug in your adapter to the 120V power outlet.



NOTE: ALWAYS HAVE THE BATTERY PACK SWITCH ON THE "LATCHING SOLENOID" SIDE.



- c. The AA batteries go in the in the battery pack located inside the component compartment. When the adapter is used the batteries will work as a back-up.



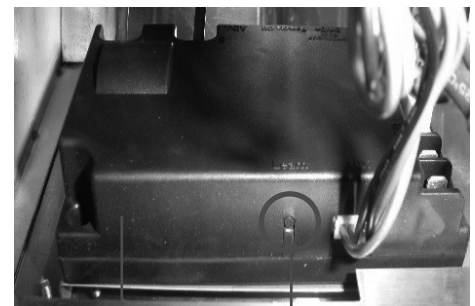
OPERATING INSTRUCTIONS

INITIAL START UP:

1. Before you start your heater, examine the installation to determine that:
 - Areas immediately around heater including the air inlet and flue areas are free from obstructions.
 - Physical support of the heater is safe, secure, adequate and sound.
 - There is no obvious deterioration of the heater, gas inlet hose and AC adapter if used.
2. REMOTE CONTROL SYNCHRONIZATION & START-UP TEST:
 - The remote control leaves the factory already synchronized for each heater. To verify that, with the heater's gas inlet valve in the CLOSED position, verify that the remote control system is working properly.
 - Push the "ON" button on the remote control. You will hear a continuous spark sound at the pilot. If there are no sparks, replace the AA batteries with new ones. If with the new batteries there are still no sparks, synchronization is needed. For synchronization perform the following steps:

REMOTE SYNCHRONIZATION

1. With a pen or small screwdriver press and hold the "Learn Button" for 10 seconds, this will de-sync the remote and module. After 10 seconds three beeps will be heard.
2. Wait a second or two then press the "Learn Button" one more time. A beep will be heard.
3. On the remote press the "ON" button and the unit should begin to spark. The remote is now synced to the heater.



NOTE: The reason we de-sync the remote and module is to refresh the connection and guarantee that the connection was made.

3. Check for gas leaks using soapy water at all gas connections and joint unions. NEVER use a flame to check for leaks. (Page 3)
4. Pilot Burner Ignition Test
 - a. Turn ON the gas supply to the heater.
 - b. Please check the environment of the gas valve for a smell of gas. If for any reason you smell or think you smell gas, see the warning below:

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building/home.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

OPERATING INSTRUCTIONS - cont.

- c. If you do not smell gas, locate the pilot burner of the heater which is mounted at the front end of the main burner. Make sure you have a line of sight to this pilot burner location.
- d. Turn the gas heater ON by pressing the **ON** button on the remote control and press **HI**.
- e. Allow the pilot burner and main burner to burn for about **10-15 seconds**.
- f. Then turn the gas heater OFF by pressing the **OFF** button on the remote and the pilot burner should shut off. It could take about **5 seconds** for the pilot flame to go completely OFF.
- g. **CRITERIA:**
 - If the pilot burner shuts-off in about 5 seconds, the gas valve is working properly.
 - If the pilot burner continues to burn after the 5 seconds, please shut-off the main gas supply line to the heater. Then immediately contact your local distributor or dealer for a repair or replacement of the gas valve assembly.

NOTE:

- Some white smoke and green flame may appear during the initial start-up of the heater but it will dissipate with proceeding use.
- **AUTO-LOCK OUT:** If the pilot continuously sparks for 60 seconds and the spark sensor doesn't sense a flame, it will go into safety AUTO-LOCK OUT feature and shutoff the ignition system. Here's how to clear the AUTO-LOCK OUT:
 - a. Press **OFF-OFF-ON** on the remote, try it three times.
 - b. Disconnect the AC Adapter or take a battery out of the battery pack for 5 minutes. Re-syncing the remote to the module will be needed.

IMPORTANT

ALWAYS BE PRESENT WHEN IGNITING THE HEATER TO VERIFY THAT THE BURNER HAS IGNITED.

USING THE GAS HEATER:

1. Always test the pilot burner ignition as per Step 4 above to ensure that the gas valve is working properly.
2. Turn the main gas supply valve to the OPEN position.
3. Push the **HI** button, then push the **ON** button, you will hear clicking sounds and will see sparks to the igniter pilot. (Always start with **HI** setting during initial start-up.)
4. Once the pilot is lit, the pilot will ignite the infrared burner within 4 seconds. During ignition a smooth flame will roll down the length of the infrared burner. Flame should stabilize on the ceramic surface. Within 60 seconds the burner will start to glow bright and radiate heat.

NOTE: The ceramics portion of the infrared burner should glow bright within 60 seconds and may be difficult to see in bright sunlight.

WARNING

Never attempt to manually light the burner or pilot with a match or other source of flame. Twin Eagles heater utilizes an automatic lighting ignition.

5. **HI – LO SETTING**
 - a. Push the "**HI**" button and the heater will adjust the gas flow to 37,000 BTU/Hr.
 - b. Push the "**LO**" button and the heater will adjust the gas flow to 25,000 BTU/Hr.

SHUTTING DOWN THE HEATER:

1. Push **OFF** on the remote control and verify that the pilot burner and the pilot have turned off. Should you need to shut down your heater for service or maintenance, the main gas valve next to the heater should also be turned OFF.

MAINTENANCE

Routine maintenance should be performed at least once a year by a qualified service agency to ensure the heater is operating properly. Overtime, particularly during long periods of not being used, the heater can accumulate dirt, debris and cobwebs in and around the pilot and the burner. More frequent service may be required for heaters located near waterfronts or in strong wind areas where there might be sand storms.

NOTE: It is strongly recommended that the heaters be inspected annually, before each use season.

STAINLESS STEEL & GENERAL PRODUCT CARE

To keep your Overhead Heater free of surface corrosion and in good working order, it is important to take additional precautions under certain conditions.

If your Overhead Heater is located in corrosive conditions, such as:

- A coastal environment where corrosive salty air is present
- Near a swimming pool, hot tub or water feature with exposure to corrosive pool chemicals and/or chlorinated water
- Areas where muriatic acid (hydrochloric acid) or other corrosive cleaning solutions are used to clean concrete and masonry
- Areas where corrosive masonry dust and debris are created by cutting stone or mixing cements

These conditions can create a highly corrosive environment that will cause the corrosion resistant type 304 stainless steel to develop surface oxidation, corrosion or rust. Certain areas may discolor overtime. This is a normal discoloration caused by the intense heat given off by the burners.

Twin Eagles products have been tested in saline solutions, highly chlorinated solutions and have been tested against exposure to highly acidic foods. The test results proved the type 304 stainless steel can withstand exposure over prolonged periods of time. However, the conditions outlined above, along with neglect, can lead to surface corrosion or rust.

ELECTRICAL SHOCK HAZARD

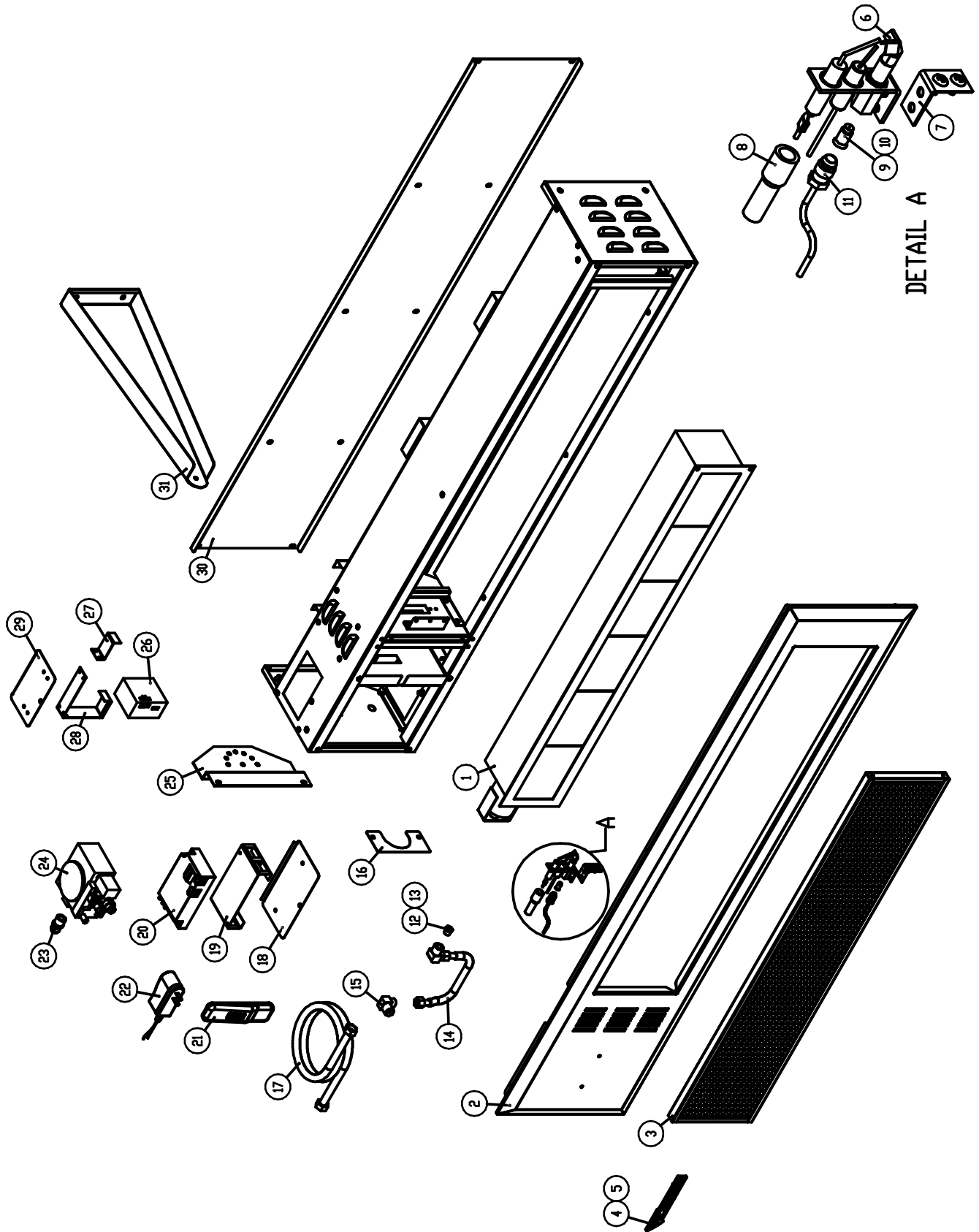
Disconnect electrical power and gas supply before servicing. This heater must be connected to a properly grounded electrical source.

SPIDER AND INSECT WARNING

Spiders and other insects can nest in the burners and orifices of this and any other outdoor products, which causes the gas to flow from the front of the burner. This can create a dangerous condition that can cause a fire behind the valve panel, damaging the Overhead Gas Heater and making it unsafe to operate. Inspect the burners once a year, or if the Overhead Gas Heater has not been used for more than a month or if any of the following conditions occur:

1. The smell of gas in conjunction with the burner flames appearing yellow.
2. The heater does not reach temperature.
3. The heater heats unevenly.
4. The burner makes popping noise.

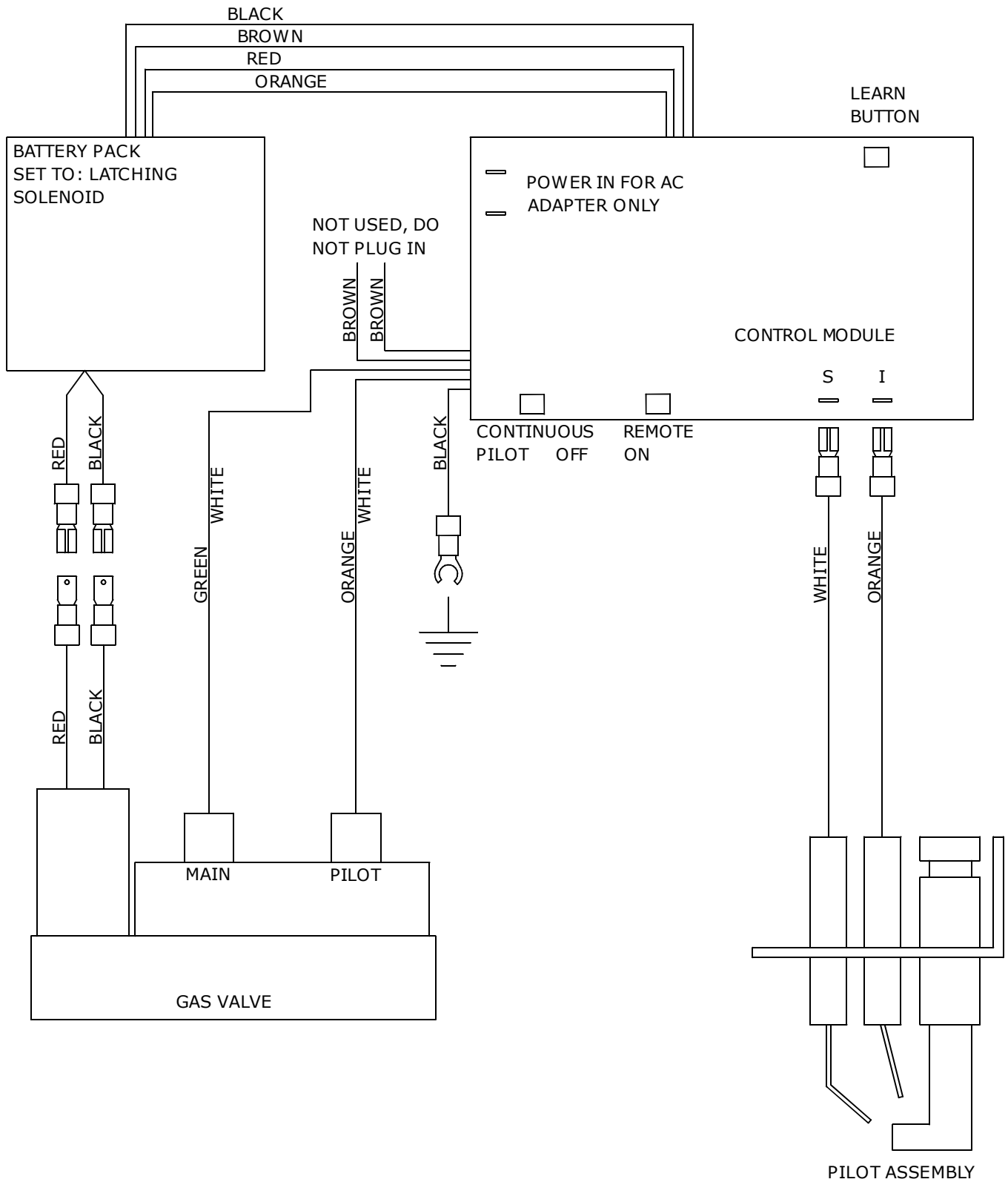
TEGH48-B EXPLODED VIEW



REPLACEMENT PARTS LIST

ITEM NUMBER	PART NUMBER	DESCRIPTION	QTY.
1	13413	Infrared Burner	1
2	21978-48	Face Panel	1
3	21961Y	Egg Crate Assembly	1
4	13203	Emblem, Twin Eagles	1
5	14160	Tinnerman Barrel Clip	2
6	13347	Pilot	1
7	21914	Bracket, Igniter	1
8	13357	Rubber Boot	1
9	13348	Pilot, Orifice 0.012 LP	1
10	13349	Pilot, Orifice 0.018 NG	1
11	13358	Pilot, Gas line	1
12	15108-50	Orifice #50, LP	1
13	15108-36	Orifice #36, NG	1
14	12407	Flex Tubing	1
15	12640	Orifice Elbow	2
16	21980	Bracket, Lock, Burner	1
17	15325-36	Gas Hose	1
18	21964	Cover Module	1
19	21944	Bracket, Control Module	1
20	16171	Control Module	1
21	16175	Remote Control, Black	1
22	16174	AC Adapter (Optional)	1
23	12654	Coupling, 3/8 M Flare x 3/8 MPT	1
24	15113	Valve, Dual Stage	1
25	21946	Brace, Mount	1
26	16173	Battery Pack	1
27	21911	Bracket, Remote Control	1
28	21943	Bracket, Battery Pack	1
29	21963	Cover, Battery Pack	1
30	21960	Cover, Case, 48	1
31	21945	Post Bracket	1
PARTS NOT SHOWN			
	16172	WIRE HARNESS	1
	15114	Rate Screw Orifice, LP	1
	15115	Rate Screw Orifice, NG	1

WIRING DIAGRAM



TROUBLESHOOTING GUIDE

NEVER attempt to service the heater without disconnecting or shutting OFF its power and gas supply from the source.

Important Notes:

1. After the initial usage it is normal to see white smoke come out the back. This eventually will go away and it doesn't affect the performance of the heater.
2. It is also normal to see warpage on the housing since the housing expands while heated but after it cools back down it will come back to its original shape.

PROBLEM	WHAT TO DO
Igniter sparks but pilot burner will not ignite and igniter goes to lock-out.	<ol style="list-style-type: none"> 1. No gas supply to the pilot. Check if gas supply valve is turned on. 2. Air trapped in gas line (VERY COMMON DURING INITIAL START-UP). Press and hold HI and LOW buttons to purge air from the gas line. If unsuccessful, disconnect gas hose from heater inlet and purge air until you smell gas. Then reconnect gas hose to heater inlet.
Igniter gives very weak or slow sparks.	<ol style="list-style-type: none"> 1. Low battery in battery pack. Open heater control panel and replace 4 AA batteries. 2. Ground wire is not connected. Verify ground wire is attached to frame.
Remote control (transmitter) will not communicate with heater module (receiver).	<ol style="list-style-type: none"> 1. Low battery in transmitter. Replace 1 lithium batteries (A23-12v). 2. Low battery in battery pack or battery pack is unplugged. Open control panel and check if battery pack is plugged in or replace 4 AA batteries. 3. Module switch is set to OFF. Make sure module switch is set to REMOTE. 4. Remote is not synchronized with module. Refer to manual on how to synchronize remote. 5. Possible corrosion on the wire connections.
Remote control communicates with heater but heater will beep and no sparks to pilot.	<ol style="list-style-type: none"> 1. Pilot sensor is dampened or wet. Installation must be located in dry condition. 2. Defective pilot sensor. Replace pilot burner assembly 3. Low battery pack. Replace 4 AA batteries. 4. Corrosion at pilot wire connection.
Pilot turns on and off. Burner turns on and off.	<ol style="list-style-type: none"> 1. Windy condition. Pilot sensor senses flame inconsistently. Do not operate equipment until wind dies down or heater is relocated to less windy condition. 2. Pilot flame is too small for flame sensing. Increase pilot flame such that flame surrounds the pilot sensor rod by gently bending the rod closer to the pilot flame. 3. Heater is installed reversed such that the pilot sensor is below the pilot flame instead of above or even to the pilot flame. Correct installation such that the gas inlet is on the left side of the heater for proper operation. When the gas inlet is on the left side the pilot sensor rod is above the pilot burner.
Pilot burner stays on after heater is turned off.	<ol style="list-style-type: none"> 1. Defective gas valve. Contact local dealer to replace gas valve. 2. Bad control Module. 3. Continuous pilot switch to ON. Change to OFF position.
Heater valve will not switch from HI to LO and vice versa.	<ol style="list-style-type: none"> 1. Low battery pack. Replace 4 AA batteries. 2. Ground wire not connected. Connect ground wire to chassis and remove and re install 4 AA batteries to clear memory. 3. Defective gas valve. Contact local dealer to replace gas valve. 4. Wires from the battery pack to gas valve disconnected or corroded.
Batteries in the battery pack drain fast.	<ol style="list-style-type: none"> 1. The battery pack is switch to DC MOTOR instead of LATCHING SOLENOID. Make sure that the battery pack switch is set to LATCHING SOLENOID.
Batteries are new but there is no spark.	<ol style="list-style-type: none"> 1. Synchronization is needed. Refer to manual on how to synchronize remote.

TROUBLESHOOTING GUIDE - cont.

PROBLEM	WHAT TO DO
Front grille deteriorates.	<ol style="list-style-type: none"> 1. Tip angle exceeding 30 degrees such that products of combustions vent out to the front grille instead of out the top of the heater. Correct installation and make sure only radiant heat passes through the front grille. 2. Windy condition. Excessive wind disrupts flow of combustion products such that combustion products flow though the front grille instead of out the top of the heater. Locate heater in less windy conditions.
Burner makes loud rumbling noise during operation. Burner does not glow and flares out.	<ol style="list-style-type: none"> 1. Damaged burner. Contact local dealer to replace burner. *Do not operate until fixed.
Heater operates but makes continuous beeps.	<ol style="list-style-type: none"> 1. Module exceeds designed operating temperature. Improper installation such that products of combustion flows through the front grille instead of out the top of heater. This could be due to exceeding the 30 degree tip angle or windy conditions. Correct installation such that only radiant heat passes through the front grille.
Continuous spark (60 seconds), burner does not ignite.	<ol style="list-style-type: none"> 1. LOCK-OUT MODE - How to clear: <ol style="list-style-type: none"> a. Press OFF-OFF-ON on the remote, try it three times. b. Disconnect the AC Adapter or take a battery out of the battery pack for 5 minutes. Re-syncing the remote to the module will be needed.
Continuous Pilot ON but the Control Module is set to Continuous Pilot OFF	<ol style="list-style-type: none"> c. The RemoteHI/LO buttons were pressed at the same time. To undo this, press the HI/LO buttons together at the same time. d. Bad gas valve, contact your dealer to replace valve. *Do not operate until fixed.

HIGH ALTITUDE INSTALLATION

Installation of this appliance at altitudes above 2,000 ft (610m) 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 B149.4*.

Installation at high altitudes may require special attention and considerations. The air at high altitudes is thinner having less oxygen and lower atmospheric pressure, so heating and cooking are going to present specific sets of challenges. To address such variables, appliances must be adjusted to operate at high altitudes. Generally speaking, input ratings used for elevations up to 2,000 ft (600m) must be reduced at a rate of 4% for each 1,000 ft (300m) above sea level.

ALTITUDE (FT.)	ORIFICE SIZE (NG)	ORIFICE SIZE (LP)
0' - 2,000'	36	50

For more information, please contact your Dometic Residential US dealer or call Dometic Residential US direct at (800) 789-2206 or (562) 802-3488.

WARRANTY

LIMITED TWO YEAR WARRANTY: Dometic Residential US warrants the outdoor gas heater to be free from defects in materials and workmanship under normal residential use for a period of two years from the original date of purchase. The actual part will be repaired or replaced, free of charge, with the owner paying for all other costs including labor, shipping and handling.

ONE-YEAR FULL WARRANTY: Dometic Residential US warrants the outdoor gas heater and all other components to be free from defects in materials and workmanship under normal residential use for a period of one year from the original date of purchase. Dometic Residential US will repair or replace parts found to be defective at no cost to the original purchaser. Warranty service must be performed by a Dometic Residential US authorized representative during normal business hours.

NINETY (90) DAY RESIDENTIAL PLUS WARRANTY: This warranty applies to applications where use of the product extends beyond normal residential use such as bed and breakfast inn and private clubs. The actual part will be repaired or replaced, free of charge, with the owner paying for all other costs including labor, shipping and handling. This warranty excludes all commercial locations such as restaurants and food service locations.

WARRANTY LIMITATIONS & EXCLUSIONS

This warranty shall apply only to the products purchased and located in the continental United States and Canada. The warranty coverage begins on the original date of purchase and proof of date of purchase is required. To activate the warranty, we require that you send in the attached warranty registration card. This warranty applies only to the original owner and may not be transferred.

This warranty excludes discoloration, surface scratches, weather and atmospheric related staining, and minor surface rust and oxidation which are normal conditions and are to be expected with any outdoor product. This warranty does not apply to damages resulting from negligence, alteration, misuse, abuse, accident, natural disaster, loss of electrical power to the product for any reason, improper installation or improper operation, unauthorized adjustments or calibrations, dings, dents, scratches, or damages due to harsh cleaning chemicals. This warranty does not apply to commercial use, or to products with altered or removed serial numbers. Display models are generally sold "as is" and are subject to the following warranty exclusions: missing components, scratches, dents and other exterior or cosmetic damages, electrical, gas and ignition system. Dometic Residential US shall not be liable for incidental, consequential, special or contingent damages resulting from its breach of this written warranty or any implied warranty.

WARRANTY SERVICE & REPLACEMENT PARTS: Call your authorized selling dealer or call Dometic Residential US directly at 800-789-2206. Be prepared to furnish the following information: Purchaser's name, model and serial number of the grill, date of purchase and the accurate description of the problem. Dometic will not pay for service calls for correcting an installation problem. Owner shall be responsible for proper installation, providing normal care and maintenance, providing proof of purchase upon request and making the grill accessible for service. In the event of any warranty replacement, all removal, replacement, installation and shipping costs are the responsibility of the heater owner. If the unit is located in a remote area where Dometic factory authorized service is not available, you may be required to bring the unit to a Dometic Residential US authorized service location at your own cost and expense.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusions of or limitations on consequential damages. This warranty gives you specific legal rights and you may have other rights, which vary from state to state

HOW TO OBTAIN SERVICE

For service, please contact your dealer or call Dometic Residential US direct at (562) 263-3600 or fax (562) 802-3391.

Mailing address:

Dometic Residential US
13259 East 166th Street
Cerritos, CA 90703

Visit us at www.twineaglesgrills.com

Please provide:

- Model number
- Serial Number
- Gas Type
- Date of Purchase
- A description of the problem



TWIN EAGLES



DOMETIC

WARRANTY REGISTRATION

Customer Name:	Model #: TEGH48-B
Address:	Serial #:
City, State:	Date Purchased:
Zip:	Dealer's Name:
Phone #:	Dealer's Address:
E-mail:	

This warranty registration card must be returned within thirty days of purchase to properly activate your warranty. This information is for our internal use only.

Or you may register online at <https://twineaglesgrills.com/about-us/contact-us/>

CUT HERE

Place
Postage
Here



TWIN EAGLES



DOMETIC

Customer Service
ATTN: Warranty Department
13259 East 166th Street
Cerritos, CA 90703

Fax no. (562) 802-3391