



Fire Feature Owner's Manual

WARNING: FOR OUTDOOR USE ONLY

ATTENTION

INSTALLER: PLEASE LEAVE THESE INSTRUCTIONS WITH THE CONSUMER.

CONSUMER: PLEASE READ & RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE AND BEFORE INSTALLING OR OPERATING.

WARNING

- Improper installation, adjustment, alteration, service, or maintenance can cause injury, death, or property damage.
- Read the installation, operation, and maintenance instructions thoroughly before installing, operating, or servicing this equipment to reduce risk of fire, burn hazard, or other injury.
- This manual should be retained for your information.
- Do not operate this fire feature without having read this manual.
- All gas installations must be performed by a qualified technician or authorized service agent. NOTE: This fire feature is not intended for commercial use.

WARNING

- Do not store or use gasoline or other flammable vapors and liquids in vicinity of this or any other appliance.
- An LP gas cylinder not connected for use shall not be stored in the vicinity of this or any other appliance. Never operate with a LP gas cylinder inside.

WARNING

WHAT TO DO IF YOU SMELL GAS WHEN NOT IN OPERATION:

- Shut off gas to fire feature. Extinguish any open flame.
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building. Immediately call your gas supplier. Follow your gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.

CARBON MONOXIDE HAZARD

- This fire feature will produce carbon monoxide which has no odor.
- As with any gas appliance, harmful carbon monoxide is produced during the combustion process that should not be allowed to accumulate in a confined space.
- Please note since hot air rises above this fire feature while in operation, covered locations must be avoided. Using this fire feature in an enclosed space can cause death.
- Never use this fire feature in an enclosed space such as a camper, tent, car, or home. Do not locate this fire feature where an overhang or awning may cover it.

GENERAL SAFETY & INSTALLATION WARNINGS

- Safe operation of this fire feature depends upon its proper installation.
- A qualified professional installer and service technician must perform adjustments and service of the burner.
- Proper location and proper use is essential to insure safe and continued trouble-free operation.
- Any non-approved alterations made to the fire feature will void the product's warranty.

NOTE: The manufacturer cannot be held responsible for damage or injury caused by improper use of this fire feature.

IMPORTANT: Consult the AHJ (Authority Having Jurisdiction) or local contractor of any uncertainty in regards to installation.

FIRE FEATURE INSTALLATION: This gas burner must be installed in accordance with all local codes. If installation is planned in an area with no local codes, the burner must be installed in accord with this CODE.

⚠ CALIFORNIA PROPOSITION 65 WARNING

This product can expose you to chemicals including combustion by-products (including soot and carbon monoxide), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠ MASSACHUSETTS RESIDENTS:

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

⚠ WARNING

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

⚠ WARNING

- Do not use the burner as storage area for flammable materials. Keep area clear and free from combustible materials, gasoline, and other flammable vapors and liquids. Failure to do so can result in death, explosion, or fire.

Have an ABC Fire Extinguisher accessible at all times. Never attempt to extinguish a grease fire with water or other liquids.

⚠ BEWARE OF SPIDERS

- **CAUTION:** BURNER TUBES MUST BE INSPECTED AND CLEANED BEFORE EACH USE.
- Spiders and small insects occasionally spin webs or make nests in the burner tubes. These webs can lead to a gas flow obstruction, which could result in a fire in and around the burner tubes.
- Frequent inspection and cleaning of the burner tubes is necessary.

⚠ WARNING

- This fire feature should be inspected before use and at least annually by a qualified service person.
- More frequent cleaning may be required as necessary.
- Control compartment, burners, media, and circulating air passages of the fire feature must be kept clean.

⚠ WARNING

- Fire Risk/Burn Risk: This fire feature is HOT. DO NOT TOUCH. SEVERE BURNS MAY RESULT. CLOTHING COULD IGNITE.
- CAREFULLY SUPERVISE children in areas where fire features are located during and after operation.
- Alert children and adults to hazards of high temperatures.
- Clothing or other flammable materials should not be near the fire feature.

FIRE FEATURE INSTRUCTIONS

WARNING: FOR OUTDOOR USE ONLY

If designing and building your own fire feature, please read and follow the instructions below. In addition to the information below, you must check your local codes and consult the local authority having jurisdiction.

- Do not operate in a building, garage or any other enclosed areas. This could result in carbon monoxide buildup which could result in injury or death.
- Ensure your burner is positioned safely away from anything that can catch fire.
- This fire feature is not approved to be installed in or on any recreational vehicles and /or boats. This is for single family/residential use only.
- When determining a suitable location take into account concerns such as exposure to wind, proximity to traffic paths and keeping any gas supply lines as short as possible.

- **DO NOT** obstruct the flow of combustion and ventilation air to this burner.
- Keep any electrical supply cords and types of hoses away from any heated surfaces and/or sharp and aggressive edges.
- Use your fire feature only on a firm level surface. This burner is not designed for recreational vehicles, and should not be installed on a boat or marine craft.
- Keep the burner protected from adverse weather, including rain and winds.
- When your burner is installed, you should be able to access the gas supply line including the gas piping or hose, gas regulator, gas cylinder and any shut off valves. Allow clear access to the entire gas supply hose and regulator.
- Many backyards have areas that are partially closed off, such as balconies and pergolas. In some cases, it is hard to decide whether these partially enclosed areas should be classified as indoor areas, particularly in terms of permanent (non-closable) ventilation. Consult the AHJ (Authority Having Jurisdiction) or local contractor of any uncertainty. This fire feature shall not be located under overhead construction.
- **Please read all instructions before installing or operating your burner to prevent injury and burner damage.**
- All gas appliances will get hot during use. Use extreme caution when operating. Do not touch hot surfaces.
- Close supervision is necessary when this or any appliance is used near children. Keep children away from the burner during operation and until the burner has cooled off.
- Do not store any LP cylinder or tank not connected for use with the burner, in the area of this burner or any other appliance. Never store an LP cylinder or tank indoors, or within the reach of children.
- Never test the burner for gas leaks using a lighted match or any other open flame; see section on Leak Testing. The use of accessories, regulators, or components not recommended by the burner manufacturer may cause
 - injuries and will void warranty.
- Never lean over the surface when lighting or operating the burner.
- To prevent injuries, do not use accessories that are not recommended by the manufacturer. Never use the burner in windy conditions.
- Children should not be left alone or unattended in an area where any appliance is in use. They should never be allowed to touch, sit or stand on any part of the burner.
- Wear proper clothing when operating this burner. Loose-fitting or hanging garments should never be worn while using the burner.
- Do not leave the burner unattended while in use.

- Never place a “cover” over the fire feature while gas is on. Gas build-up will occur and a potential explosion may occur when ignited.
- When gas is on, never leave unattended, for the flame may blow out.
- When the gas valve is in the “Off” position, remove valve key so that children cannot place the gas in the “On” position.
- If gas should “blow out” switch the gas to the “OFF” position and wait 10 minutes until excess gas dissipates then place to the “On” position and re-ignite.
- Be cautious after burner has been placed in the “Off” position that children do not touch the fire feature on any part, as they fire feature will have residual heat built up in the materials.
- Fire pits are not designed for cooking food on. Refrain from using fire pit as a method of cooking.

GAS SAFETY AND INSTALLATION WARNINGS

- All gas connections should be made by a professional qualified technician and in accordance with local codes and ordinances. The installation must conform with local codes.
- Do not twist the gas supply hose.
- Before each use, visually inspect the gas supply hose for cracks, cuts or excessive wear. Replace the hose if necessary. Check for gas leaks before each use.
- Gas Specifications: Be sure that the gas supplied to the burner conforms to the model you purchased. A Natural Gas burner requires natural gas to operate; an LP burner requires liquid propane gas to operate.
- Never connect the burner to an unregulated gas supply line. Burners operated without a regulator are unsafe and will not be serviced until installed properly and safely. Unsafe operation without a gas regulator will void the warranty of the burner.
- Fuel hoses are trip hazards.

CHECK TO ENSURE THAT THE GAS SUPPLY HOSE DOES NOT COME IN CONTACT WITH ANY HOT SURFACE, SHARP OR ROUGH EDGES, OR OUTDOOR KITCHEN CONSTRUCTION. DO NOT KINK THE GAS LINE WHEN INSTALLING.

IMPORTANT: Never connect the burner to an unregulated gas supply. The installation of this burner must conform with local codes. A licensed contractor or local gas company representative must perform all natural gas connections. Ensure that the service supplying the burner is fitted with a shut off valve conveniently positioned near the burner and giving ease of access. The burner must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 0.5 psi (3.5 kPa). The burner and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system.

GAS LEAK WARNING

- Finding and/or fixing a gas leak is NOT a “DO-IT-YOURSELF” procedure – ONLY USE A PROFESSIONAL.
- NEVER USE THE BURNER WITHOUT FIRST LEAK TESTING THE GAS CONNECTIONS INCLUDING ALL OF THE VALVES, FITTINGS, LINES ETC. (ANY GAS CONNECTION SHOULD BE CHECKED)
- 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 A LEAK TEST. Any open flame will ignite the gas. To prevent fire or explosion hazard, perform leak test outdoors only.
- Check to ensure that flexible hoses do 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 Lakeview Outdoor Designs.

CHECKING FOR GAS LEAKS

Perform a leak test before each use whether the gas supply cylinder has been disconnected or not. In addition, whenever the gas cylinder is connected to the regulator or whenever any part of the gas system is disconnected or replaced, perform a leak test.

As a safety precaution, remember to always leak test your burner outdoors in a well-ventilated area. Never smoke or permit sources of ignition in the area while doing a leak test. Do not use a flame, such as a lighted match to test for leaks. Use a solution of soapy water.

- Prepare a leak testing solution of soapy water by mixing in a spray bottle one part liquid soap to one part water. Make sure the gas valve is in the OFF position.
- Turn on the gas.
- Apply the leak-testing solution by spraying it on joints of the gas delivery system. **This includes all valves, pipe connections, joints, lines and every point from the gas source to the burners.**
- Blowing bubbles in the soap solution and/or there is a faint gas smell (typically gas has an egg smell) indicates that a leak is present. **Do not attempt to ignite the burner.**
- Turn the valve back to the full OFF position.
- Stop a leak by tightening the loose joint and/or resealing with thread sealant or Teflon tape, removing sealant or tape in the event of a flared connection or by replacing the faulty part with a replacement part recommended by the manufacturer. Do not attempt to repair the cylinder valve if it is damaged. The cylinder must be discarded to a proper LP tank location and then replaced.
- If you are unable to stop a leak turn the valve back to the full OFF position and shut off the gas supply to the burner.
- Call an authorized gas appliance service technician or an LP gas dealer. Do not use the burner until the leak is corrected.

LIQUID PROPANE GAS INSTALLATION

Since LP Gas and Natural Gas differ, there are slightly different installation procedures for LP Gas:

- **Air Mixer Installation:** Compared to Natural Gas, LP Gas is much more volatile. Because of this, an Air Mixer is installed in the inlet of the burner element to lean out the gas, and minimize propane soot.
- **Fire Glass Media on Fire Pit Ring:** No more than 2 1/2" inch thick layer of fire glass media ON TOP of the burner element in an LP Gas fire feature is recommended. The less media on top of the burner element, the less obstruction there is to prevent the LP Gas from being ignited at the top of the fire feature. By reducing the depth of the media, the chance of unburned LP Gas going to the bottom of the fire feature has been reduced. The fire feature must be tested with media over burner for confirmation of **NO** back pressure creating gas leaks out of air mixer holes. This may have to be done prior to placing in enclosure if there is no access door.

FIRE FEATURE OPERATION

Gas pressure and type should be checked prior to use and installation.

- **Natural Gas:** Supply pressure: Minimum 3.5" W.C.; Maximum 7.0" W.C.
- **LP Gas:** Supply pressure: Minimum 8.0" W.C.; Maximum 11.0" W.C.

- Before use, test all gas connections for leaks. Do not use fire feature if there is any evidence of leaking gas. If leaking gas is suspected, turn off main gas supply and have repaired immediately by a qualified technician.
- Wind and gusty conditions will affect the flame in an unpredictable manner. If conditions exist that are not safe, turn the fire feature off.
- Do not use if any part of the fire feature has been submerged under water. Immediately call a qualified service technician to inspect the fire feature.
- For electronic ignition models, power to the fire feature must be turned off via wall switch or breaker when not in operation.
- Never use any material that is non-porous and holds moisture, such as gravel, pebbles, river rock, etc. When heated, these materials will cause the trapped moisture to boil and fracture unexpectedly. Heated steam cannot easily escape since these materials are not sufficiently porous. These materials can break and cause personal injury or damage.
- Keep leaves, sticks, wood, paper, clothing, food material, and other solid fuels away from the fire feature. Ensure that there are no objects over the top or sides of the fire feature that could interfere with safe operation.
- If lava rock is wet, burn the fire feature on low for 20 minutes and then on high for 25 minutes before coming within 15 feet of the fire feature.
- When the fire feature is not in use, turn off the gas valve.
- When not in use, the fire feature must be covered at all times.
- Before initial start-up, it may be necessary to purge air in gas line after system installation.

FIRE FEATURE START-UP

- **Unpacking the Unit:** A final inspection of your product occurs at the factory to ensure a quality product is packaged. Please re-check for possible shipping damage immediately after unpacking your burner. If the burner is found to have some damage, contact your dealer immediately as often the shipping carrier will have a timeframe to report damage. Please also save the packaging material the product came with as that is at times inspected by the shipping carrier.
- **First Time Operation:** Before lighting the burner, inspect the gas supply hose. If there is evidence of cuts, wear, or abrasion, it must be replaced prior to use. Always keep your face and body as far away from the burner as possible when lighting. Always perform a gas leak test before each use.
- Prior to using your burner, verify that all of the following are correct:
 - The burner tube is free of any debris or obstruction.
 - Installation of the proper gas type and regulator settings.
 - The proper gas connection is complete.
 - Check for gas leaks.
 - Minimum clearances are maintained.
 - All packaging has been removed.
 - All parts and components are properly in place.
 - An installer-supplied manual gas shut-off valve is fully accessible.
 - LP hose is clean and inspected for cuts, wear, abrasion, or leaks. Replace if necessary.
- **Caution: Never operate the burner unattended. The surface is extremely hot and someone can touch the hot surface and be seriously injured. All gas appliances should be attended at all times.**
- If you smell gas prior to lighting and gas is turned off, read “WHAT TO DO IF YOU SMELL GAS” on page 1. Ensure there is no debris in fire feature.
- With gas turned on, place long handled lighter or match on the top outer edge of the fire feature burner. Slowly turn “ON” gas valve
- After burner lights, remove flame.
Adjust flame to desired height.
- If burner does not light, turn valve off. Allow gas to clear, then repeat previous steps.
- If the burner does not light after several attempts, immediately close all gas valves and consult an authorized service technician.
- Do not alter the fire feature design.
- Never leave fire feature attended by an adult that is not familiar with emergency shut-down. Do not place flammable materials on or near the fire feature.
- Children must be supervised when they are near the fire feature.
- Inspect the fuel supply connection (including all quick disconnect hoses) before use. Replace hose if there is evidence of abrasion or wear.
- Do not alter or change hose and regulator. Proper hose and regulator must always be used. Only use “U.S. Department of Transportation” approved LP Gas cylinders.
- LP Gas cylinder supply system must be properly vented.
Turn off LP Gas cylinder when not in use.

FIRE FEATURE SHUTDOWN

- Turn “OFF” gas valve.
- Turn OFF LP Gas cylinder if applicable.
- After cooling, cover fire pit.