

PRISM

HARDSCAPES

BURNER KIT

Installation, Operation & Maintenance Manual

Manual Light Burner Kit | Burner, Burner Pan & Key Valve

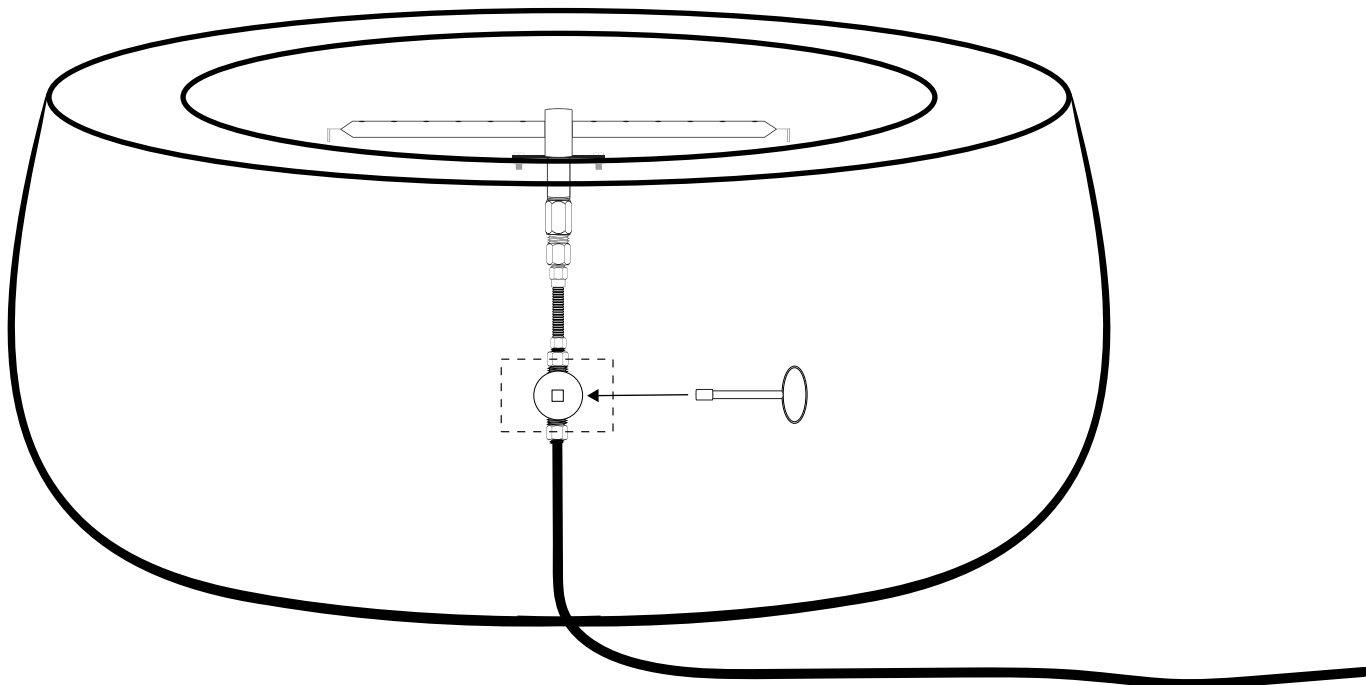
WARNING: OUTDOOR USE ONLY

THIS APPLIANCE IS FOR OUTDOOR USE ONLY.

This appliance is for use with propane or natural gas only. At no time are solid or alternative fuels to be used with this appliance.

*Text-only draft for Prism Hardscapes technical/legal review and future image placement.
Prepared from Prism Hardscapes published installation, operation and maintenance content.*

DO NOT DISCARD INSTRUCTIONS



Manual Notice

This manual should remain with the parties responsible for operation.

Installer: Leave this manual with the appliance or burner kit owner after installation and review all safety, operation, shutdown and emergency procedures.

Owner / Operator: Retain this manual for future reference. Read all warnings and instructions before operating the burner kit.

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1. Important Safety Information

WARNING: READ BEFORE INSTALLING OR OPERATING

Before installing this product, read and follow all warning notices and instructions provided. Failure to do so may result in serious injury, property damage and/or death.

For additional product reference and copies of these instructions, visit Prism Hardscapes at prismhardscapes.com.

This product must be installed and serviced by a contractor or qualified installer who is licensed and/or certified within the jurisdiction where the product will reside. In the event no such state or local requirement exists, the installer or maintainer must be a qualified professional with sufficient experience in installation and maintenance of gas and/or electric appliances.

Prior to installation, read and follow all warning notices and instructions provided with this product. Failure to do so may result in property damage, personal injury, and/or death.

Improper installation and/or operation may result in exposure to carbon monoxide and flue gases which can cause serious injury, property damage, and/or death.

For installations in the vicinity of occupied/living areas, Prism Hardscapes strongly recommends installation of carbon monoxide detectors within reach of this appliance and in any adjacent occupied spaces.

Improper installation and/or operation will void warranty.

WARNING: FLAMMABLE VAPORS AND LIQUIDS

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

1.1 What To Do If You Smell Gas

- Immediately switch off main gas supply.
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone near unit.
- Immediately remove yourself from the area, call your gas supplier and follow their instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or gas supplier.

WARNING: CARBON MONOXIDE

This appliance may produce carbon monoxide which has no odor. Using this appliance in an enclosed space such as a motorhome, camper, car or home may result in death.

Prism Hardscapes strongly recommends the installation of carbon monoxide detectors within reach of this appliance and in any adjacent occupied spaces.

1.2 Fuel, Code and Service Requirements

- This appliance is for use with propane or natural gas only. At no time are solid or alternative fuels to be used with this appliance.
- Prism Hardscapes utilizes CSA certified components. Installation must conform to local codes and applicable National Fuel Gas Code requirements.
- Appliance should be serviced annually by a professional gas technician certified in the United States by the National Fireplace Institute (NFI).
- Any parts that require replacement should be replaced only by a certified service professional using parts recommended by manufacturer.
- Do not alter any component or design of this unit as it may alter the operation and result in injury, property damage and/or death. Altering unit will also automatically void warranty.

1.3 Operation Safety

- This fire feature is not intended for cooking. Do not place anything on or in fire feature.
- Never use fire feature in windy conditions.
- Do not touch hot surfaces, hot media (rocks/glass/etc.) or open flames.
- Do not reach, jump, or walk across unit, media or open flames.
- Do not ignite fire feature when media (rocks/glass/etc.) are wet. Doing so may cause media to crack and burst.
- It is important to inspect your fire feature before every use. Make sure there are no obstructions or combustible materials on or near unit.
- Wipe down surface of unit before every use and immediately clean any spills or messes on or around unit.
- Consistently check hoses and fittings for cracks, abrasions and leaks at least once a month.
- Do not leave pets or children unattended around fire feature.
- Use a designated fire pit or barbecue cover when not in use.

CAUTION: OPEN FLAMES

Open flames will ignite combustible materials such as clothing, fabric, hair, etc. which may result in serious injury, property damage and/or death. Be cautious of the open flames while burner is lit.

1.4 Media and Ventilation Safety

Only use the recommended amount of media in your unit or kit. Overfilling may result in smaller flame and gas buildup which may cause an explosion.

Fresh air must be able to pass through the unit. Do not block or obstruct any vents on lower and upper parts of the fire feature. These are designed to ensure proper combustion and ensure no buildup of residual gases within the unit.

1.5 California Proposition 65

WARNING: CALIFORNIA PROPOSITION 65

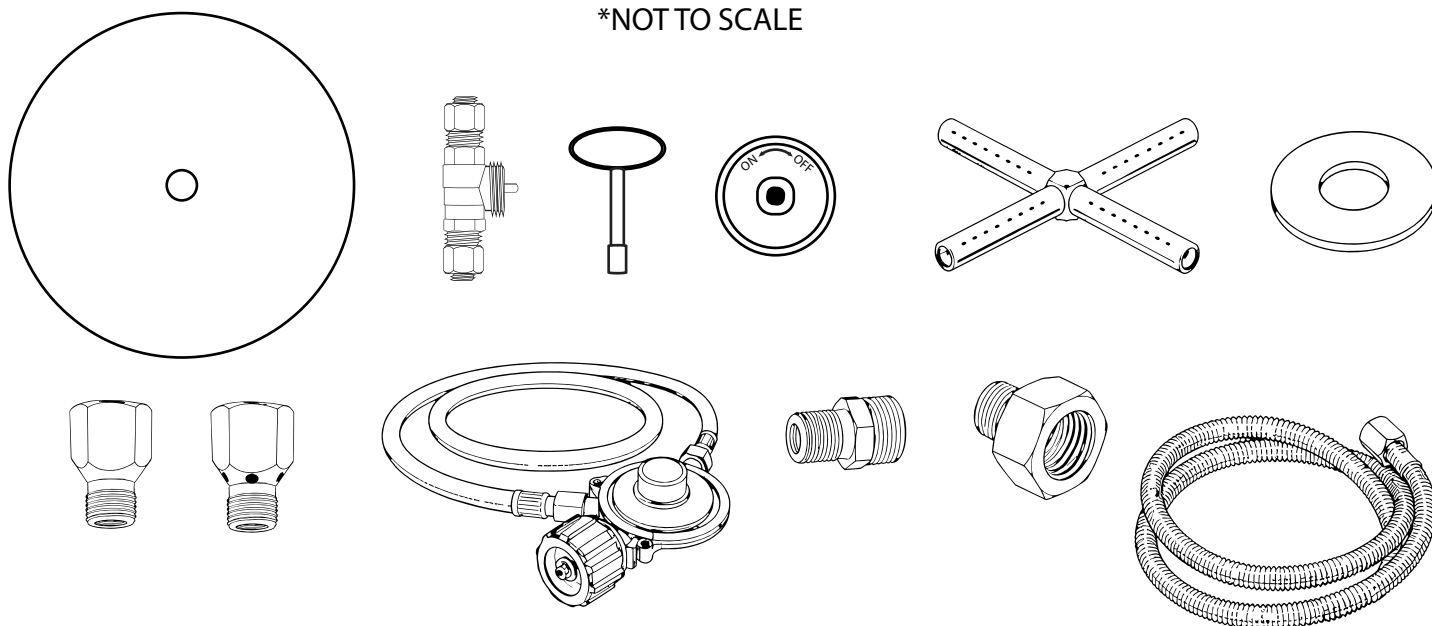
This product can expose you to Chromium, which is known in the state of California to cause cancer, birth defects or other reproductive harm.

For more information, go to: www.p65warnings.ca.gov

2. Burner Kit Overview

This manual is intended for Prism Hardscapes burner kit assemblies that include the burner, burner pan and key valve. The kit may be configured for natural gas or liquid propane, depending on the product ordered.

*NOT TO SCALE



2.1 Typical Components Included

Part Name	Qty
Burner	1
Burner Pan	1
1/2 inch Female to Male Orifice	1
1/2 inch Female to Flare Male Inlet Pipe	1
1/2 inch Flex Line Hose	1
LP Hose - for LP units only	1
1/2 inch Flare	1
1/2 inch Ball Valve / Key Valve	1
Chrome Plated Cover	1
1 1/4 inch x 3 inch Washer	1
Key	1
Media - Lava Rocks, Fire Glass, etc.	Recommended amount supplied for unit/kit

2.2 Required Tools and Materials

- Wrench for tightening gas fittings. Do not hand tighten gas fittings.
- Fireplace lighter for manual lighting. Do not use a match or cigarette lighter.
- Soapy water solution for checking connections and fittings for bubbles during leak inspection.
- Any additional tools, sealants, supports or mounting hardware required by local code and the qualified installer.

3. Receiving, Handling & Pre-Installation Review

3.1 Damage Inspection Upon Receipt

Upon receipt, inspect the burner kit for visible damage before accepting or installing it.

- Inspect the crate, pallet, carton or package for damage.
- Open the package and inspect the burner, burner pan, key valve and related components for damage.

If damaged, notify the carrier immediately and sign "damaged" or do not receive. Also notify Prism Hardscapes at warranty@prismhardscapes.com.

3.2 Handling Safety

If this burner kit is installed in a Prism fire feature that must be moved, follow Prism handling guidance and secure the pan/burner prior to tilt.

- Never attempt to move your fire feature by yourself.
- Wrap furniture blanket around the entire body of the unit.
- Place a piece of 3/4 inch plywood between dolly and the fire feature for increased stability while moving.
- Use dolly to navigate the unit to the final position.
- Secure pan/burner prior to tilt for applicable square or rectangle units.
- Do not use a wheelbarrow or other unbalanced equipment to move unit.

3.3 Pre-Installation Review

- Confirm the ordered gas type before installation: Natural Gas or Liquid Propane.
- Confirm that a qualified gas professional has verified gas flows and pressures available at the installation location.
- Confirm that all fittings and burner hardware are checked for proper tightness after transportation and before operation.
- Confirm that installation will meet all local codes and jurisdiction requirements.
- Confirm that all clearances to combustible surfaces are maintained.

WARNING: CLEARANCES

All units must have clearance to combustible surface of 4 ft on sides and 6 ft from the top.

4. Gas Requirements

The fire table or approved fire feature vessel should be placed on a flat and level surface. Burner hardware may be installed at the factory or supplied as part of a burner kit. In either case, burner hardware must be checked for proper tightness after transportation.

4.1 Natural Gas

Gas Pressure	Gas Input Flow
7 inches water column	65,000 BTU/HR

Prior to installation, a gas professional will need to run a gas line underground below the foundation where your fire feature will reside. The gas professional must determine the best pipe size based on fuel input requirements (BTUs/HR), gas pressure and distance from gas pressure regulator to fire feature.

Once a trench is created underground for the pipe, the stubbed-out end should be fitted with a 1/2 inch NPT ball valve shutoff rated for gas usage and a flare fitting sized for the same size gas hose that is attached to the key valve and burner.

Connect the flex hose to the stubbed-out gas pipe, then connect the other end to the key valve in the fire feature. The arrow on the key valve should point in the direction of gas flow toward the burner plate on the fire feature.

Tighten all fittings with a wrench. Do not hand tighten. Test gas lines for leaks and loss of pressure over a 24-hour period. When testing is complete and no leaks are found, cover the pipes, level the ground and finish setting the foundation. Once everything is tightly sealed and connected, gently place the burner plate back into the fire feature.

Note: Check with your gas supplier to verify gas flows and pressures available at the location of your installation. In many cases utility companies will install larger meters at no charge to accommodate larger flows.

4.2 Liquid Propane

Gas Pressure	Gas Input Flow
11 inches water column	65,000 BTU/HR

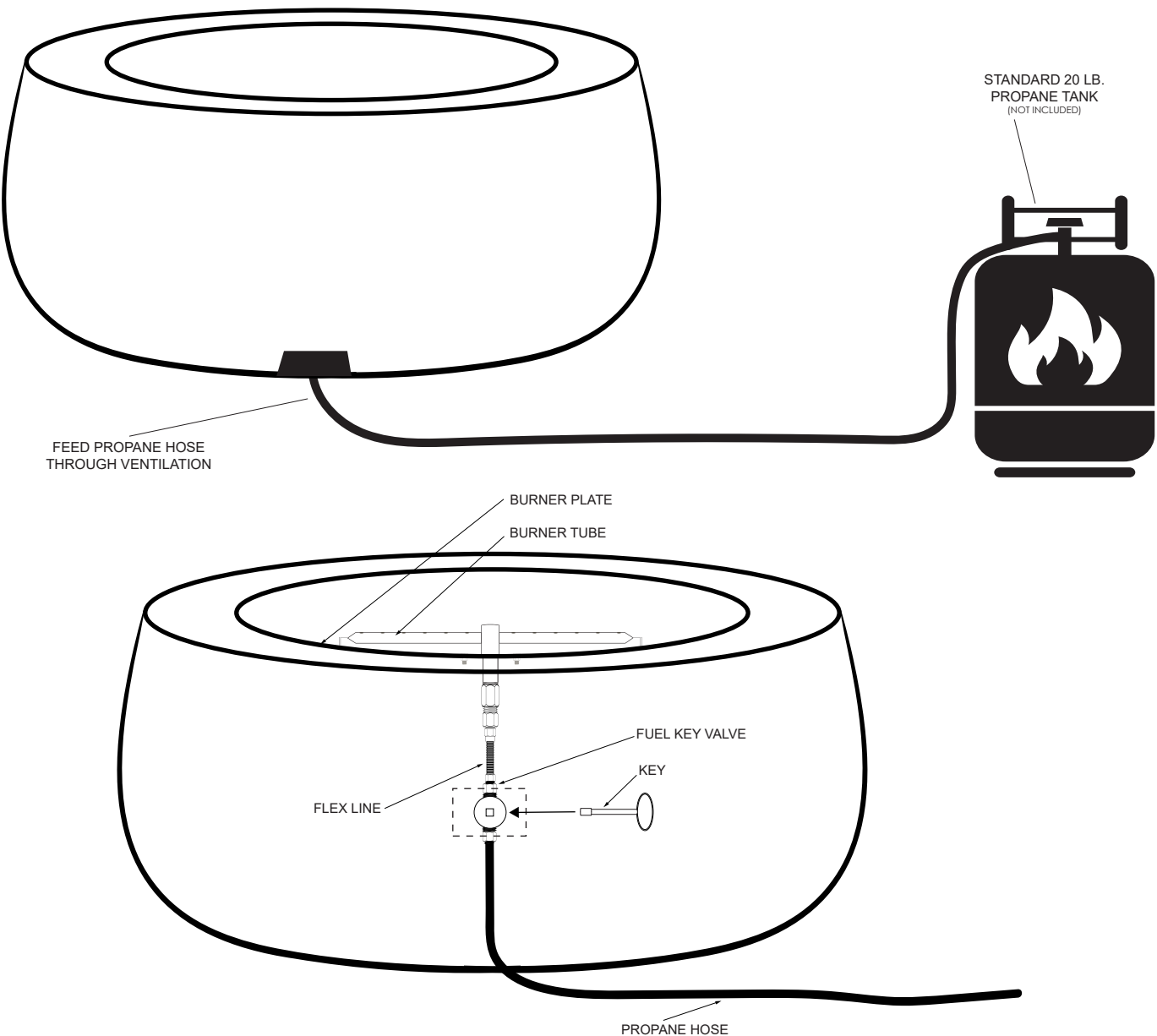
Make sure the foundation is flat and level prior to placement. Units using liquid propane will come with a burner, orifice, flex hose and regulator that will attach to the propane tank.

The gas hose will need to go from the tank to the burner. The hose should connect from the key valve within the unit, through a vent underneath and to the propane tank.

Make sure all fittings are tightened properly with a wrench. Do not hand tighten. An additional flex hose will be attached to the other end of the key valve to the flare fitting at the bottom of the burner.

The arrow on the key valve should point in the direction of gas flow toward the burner plate on the fire feature.

Fire features do not include propane cylinder; you will need to provide one. The liquid propane supply cylinder must be constructed and marked in accordance with the specifications for propane gas cylinders as required by the U.S. Department of Transportation (DOT).



4.3 Internal View of Components

4.3.1 Natural Gas Unit - Moderno Manual Section 3.2.1

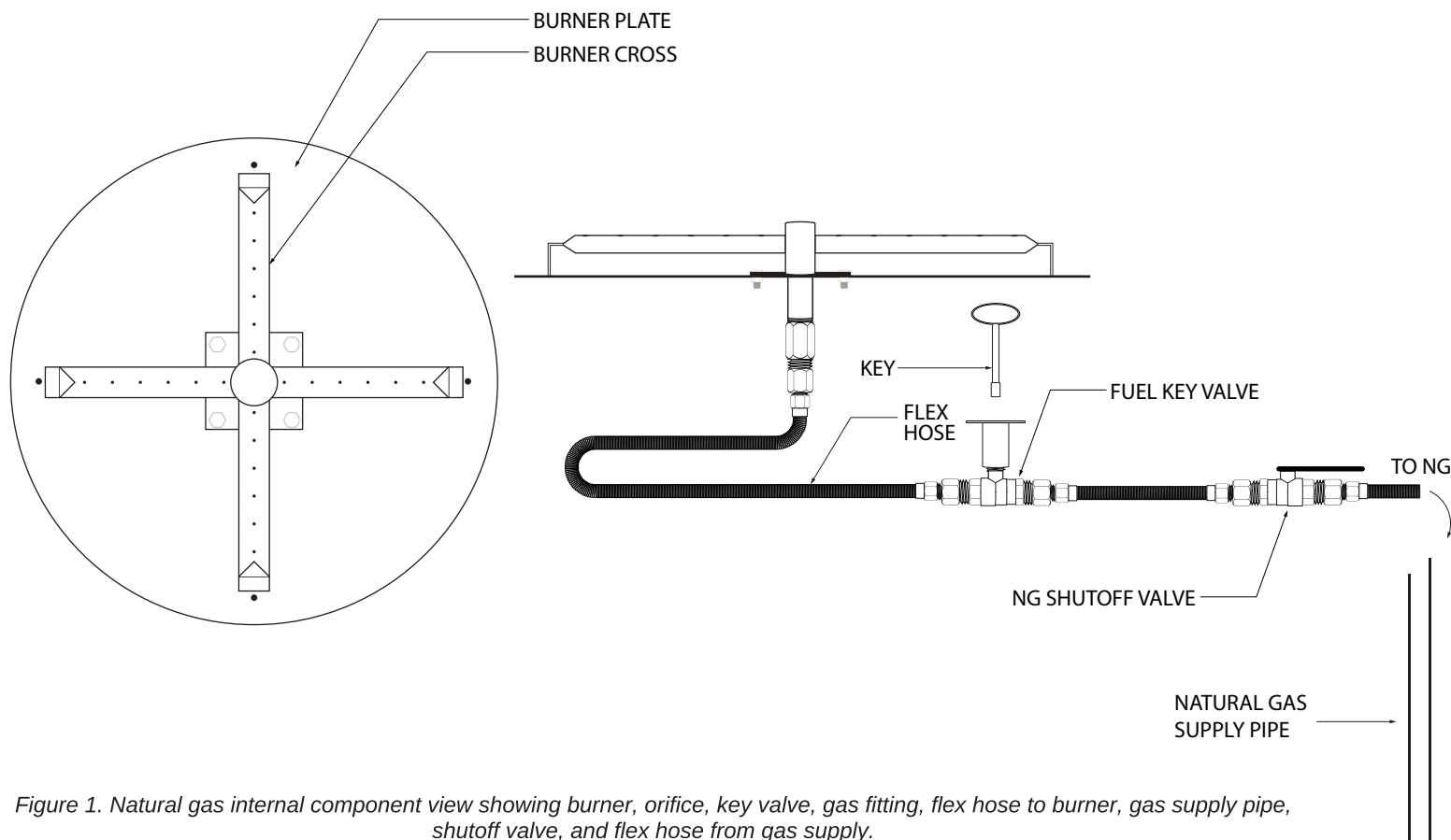


Figure 1. Natural gas internal component view showing burner, orifice, key valve, gas fitting, flex hose to burner, gas supply pipe, shutoff valve, and flex hose from gas supply.

4.3.2 Propane Tank Unit - Moderno Manual Section 3.2.2

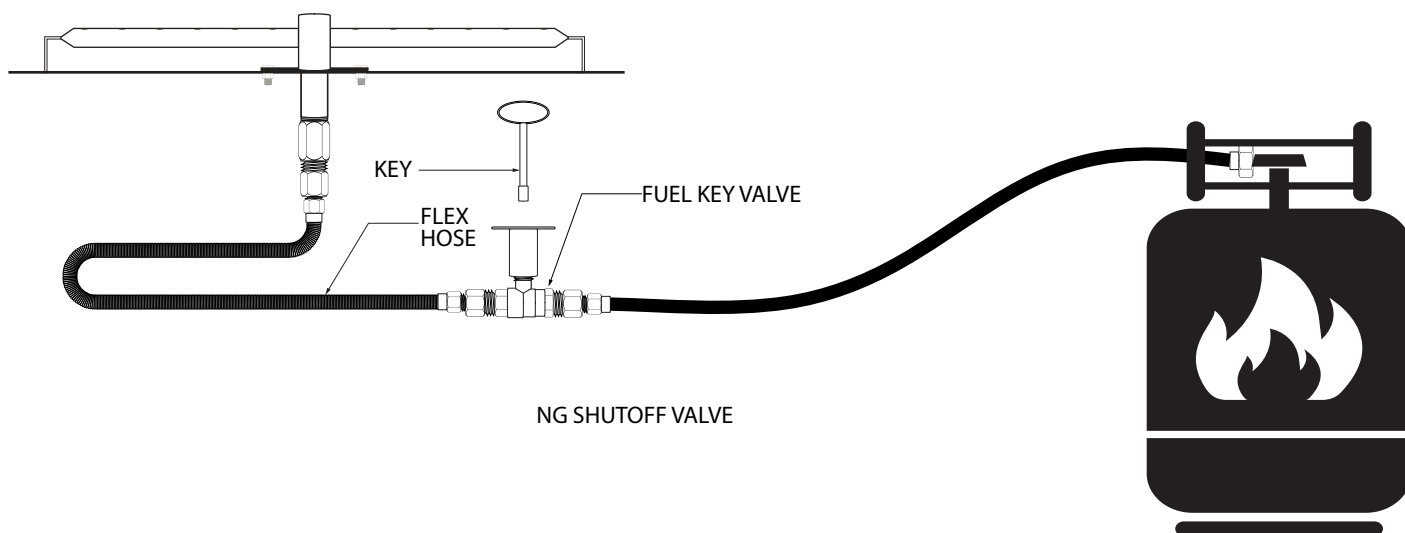


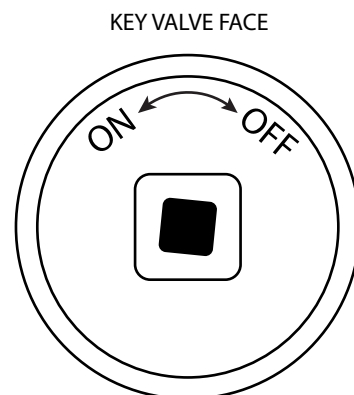
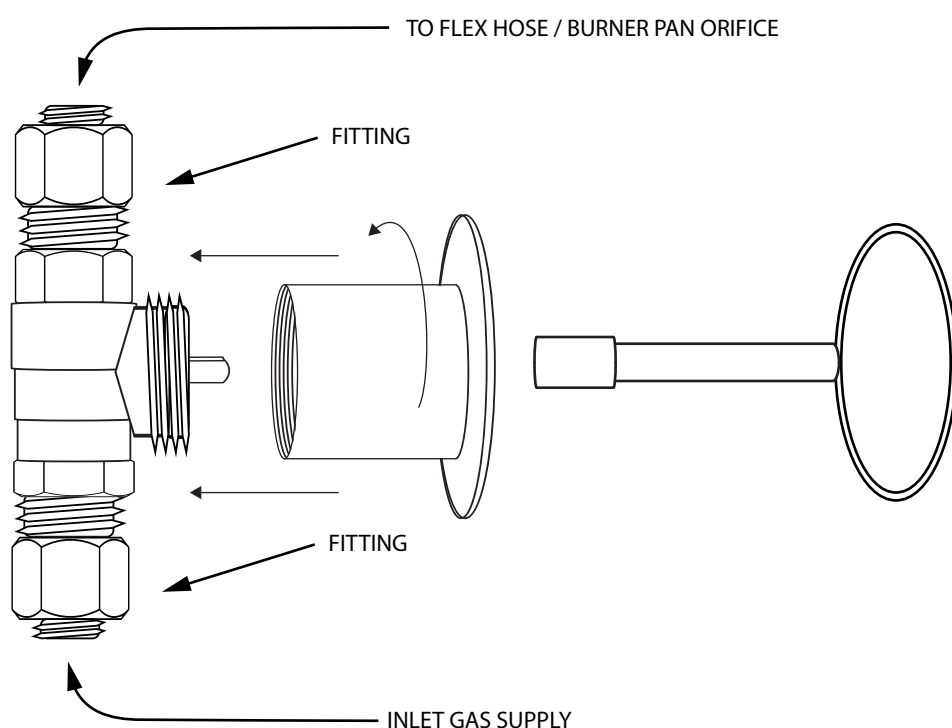
Figure 2. Propane tank internal component view showing burner, orifice, key valve, gas fitting, flex hose to burner, LP flex line, regulator, and tank.

5. Burner Pan, Burner & Key Valve Installation

5.1 Burner Pan and Burner

- Place the fire table or approved fire feature vessel on a flat and level surface before final burner setup.
- Confirm the burner and burner pan are the correct components for the gas type and unit/kit ordered.
- Check burner hardware for proper tightness after transportation and before operation.
- After gas connections have been tested and confirmed leak-free, gently place the burner plate/pan back into the fire feature or approved support location.
- Do not place media into the burner pan until the initial burner test has been completed.

5.2 Key Valve



- Install the key valve so the arrow on the key valve points in the direction of gas flow toward the burner plate/pan.
- Connect the gas supply flex hose to the key valve as required for the gas type and installation configuration.
- Connect the additional flex hose from the key valve to the flare fitting at the bottom of the burner as applicable.
- Tighten all fittings with a wrench. Do not hand tighten.
- Make sure the key valve is fully closed whenever the burner kit is not in use and remove the key when the fire feature is unattended.

6. Leak Testing & Initial Burner Test

6.1 Leak Testing

Test the gas lines for leaks and loss of pressure over a 24-hour period before final operation.

For suspected gas leaks, do not operate. Turn off the key valve but leave the gas source on/open as needed for leak inspection by a qualified professional. Inspect hose(s) and check for leaks at all connections and fittings by using soapy water and checking for bubbles. If a leak is found, turn off gas immediately and consult factory about replacing damaged/defective component.

If no leak is found and odor persists, liquid propane units should have the propane tank inspected for damage or defect; tank may need to be replaced. Natural gas units should have the local gas company inspect the installation.

6.2 Initial Burner Test

An initial burner test should be done prior to filling the pan with media (rocks/glass/etc.).

1. Confirm all gas connections have been tightened with a wrench and leak tested.
2. Confirm the burner pan is free from media and foreign materials.
3. Confirm the key valve is in the OFF position.
4. Follow the Manual Light procedure in Section 7.1 to light the burner.
5. Once burner lights, immediately remove your hand and allow burner to operate for a few minutes before turning it off.
6. If burner does not light or operate properly, turn the key to the OFF position and contact a local gas technician to determine if there is a problem.

7. Lighting, Operation & Shutdown

7.1 Manual Light Ignition

WARNING: DO NOT USE SHORT LIGHTERS

You will need a fireplace lighter. Do not use a match or cigarette lighter as they are much shorter and will light the fuel too close to the burner which may result in serious injury.

1. Ignite your fireplace lighter and hold the tip close to the burner.
2. Insert fire table key and turn it to the ON position to start gas flow to the burner. If you are using a propane tank unit, open the valve on your tank first.
3. If your burner does not light within 5 seconds, turn key to the OFF position and wait 10 seconds before trying again.
4. If the burner still does not light, call your local gas technician to determine if there is a problem.
5. Once burner lights, immediately remove your hand and allow burner to operate for a few minutes before turning it off.

7.2 Electronic Ignition Note

Prism Hardscapes offers a separate installation guide for the Electronic PH-Ignite System. All other electronic system guides must be requested from their corresponding manufacturers.

7.3 Shutdown

- Turn the key valve to the OFF position to stop gas flow to the burner.
- Make sure the valve is properly closed every time you leave your fire feature unattended and remove the key.
- For propane units, ensure that the valve on the tank is completely closed when fire feature is not in use.
- Allow the fire feature and media to cool down before moving, adjusting, servicing or covering.

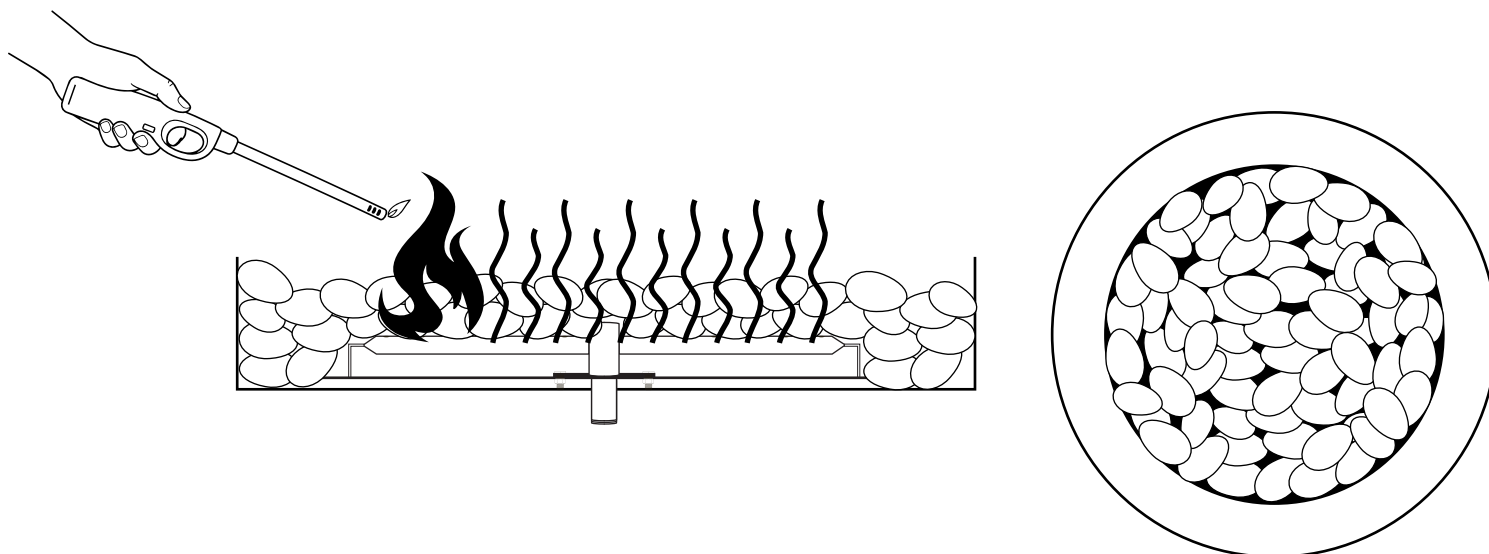
7.4 Cool Down Before Adjustment

Allow the fire feature and media to cool down before moving or adjusting. This may take from 30 minutes to 1 hour depending on the size of the fire feature. Any shifting of fire media or feature should be done after the entire unit has cooled. Prior to movement, ensure that all gas valves are completely closed and disconnected.

8. Media Placement Guidelines

Only place media after the burner kit has been installed, leak tested and initially burner-tested without media.

1. Slowly pour media onto pan.
2. Spread media evenly.
3. Fire media should be sparsely spread out enough to cover pan.
4. Only use the recommended amount of media in your unit or the amount provided with the unit/kit.
5. Do not overfill media. Overfilling may result in smaller flame and gas buildup which may cause an explosion.
6. Fresh air must be able to pass through the unit. Do not block or obstruct vents.



9. Adjustment, Maintenance & Inspection

9.1 Before Every Use

- Inspect your fire feature before every use.
- Make sure there are no obstructions or combustible materials on or near unit.
- Do not ignite fire feature when media is wet.
- Wipe down surface of unit before every use and immediately clean any spills or messes on or around unit.

9.2 Monthly Inspection

Consistently check hoses and fittings for cracks, abrasions and leaks at least once a month.

9.3 Annual Service

Appliance should be serviced annually by a professional gas technician certified in the United States by the National Fireplace Institute (NFI). Any parts that require replacement should be replaced only by a certified service professional using parts recommended by manufacturer.

9.4 Cleaning and Covering

Cleaning can be done with mild soap, water, and a rag. Use a designated fire pit or barbecue cover when not in use.

If the burner kit is installed in a Prism concrete fire feature, Prism recommends resealing the unit after 2 years with a water-based concrete sealer.

10. Troubleshooting

Refer to the section below according to which gas type you purchased. Service and troubleshooting involving gas supply, gas pressure, burner ports, or orifice sizing should be performed by a qualified gas professional or Prism Hardscapes support where required.

Burner Will Not Light

Possible Cause	How to Fix
Air in Gas Line	If newly installed, it may take several attempts to purge air from line.
Debris in Gas Line	Confirm gas line is clear and free of obstruction (insulation, dirt, excess pipe sealer, water etc). Clearing line of debris may require help from a professional.
Improper Gas Pressure	Liquid Propane Units: Check if tank is low or empty, may need to refill or replace. Natural Gas Units: Have a gas professional confirm gas pressure.

Burner Will Not Stay Lit

Possible Cause	How to Fix
Improper Gas Pressure	Liquid Propane Units: Check if tank is low or empty, may need to be refilled or replaced. Natural Gas Units: Have a gas professional confirm gas pressure.
Improperly Applied Fire Media	Media may be too dense; media will need to be reduced and evenly spread.

Noise - Note: Only use gas hose supplied by the manufacturer as they have been tested for noise.

Noise

Possible Cause	How to Fix
Gas Hose Restrictions	Remove any tight bends or kinks in gas supply hose.
Excessive Gas Flow	Check gas regulator and reset if not within factory recommendations. Refer to the subsection for your gas type in Section 4.

Unit Is Smoking

Possible Cause	How to Fix
Poor Fuel Quality	Liquid Propane Units: Inspect propane tank and hose, one or both may need to be refilled or replaced. Natural Gas Units: Contact local gas company.
Excessive Flame Blockage	Separate and spread media (rocks or glass) evenly to allow flames to spread and pass-through media more evenly.
Improper Air/Fuel Mixture	Remove any foreign items or other combustible materials from unit and check for proper orifice sizing.

Burner Flame Is Too High or Too Low

Possible Cause	How to Fix
Incorrect Gas Supply Pressure	Liquid Propane Units: Inspect propane tank and hose, one or both may need to be refilled or replaced. Natural Gas Units: Contact local gas company.
Blocked Burner Ports or Burner Orifice	Clear burner ports and orifice of foreign particles or debris and wipe clean.
Improper Orifice Size	Verify burner orifice is the proper size for the fuel being used. Consult with factory by emailing tech-support@prismhardscapes.com.

Unit Producing Unwanted Odors

Possible Cause	How to Fix
Gas Leak	DO NOT OPERATE. Turn off key valve but leave gas source on/open as needed for leak inspection. Inspect hose(s), check for any leaks at all connections and fittings by using soapy water and checking for bubbles. If a leak is found, turn off gas immediately and consult factory about replacing damaged/defective component. If no leak is found: Liquid Propane Units: inspect propane tank for damage or defect, tank may need to be replaced. Natural Gas Units: contact local gas company to inspect.

11. Warranty, Support & Contact Information

Prism Hardscapes LLC offers a 2-year limited warranty against manufacturer defects. Prism Hardscapes will repair or replace product that has been proven to be defective in workmanship and/or materials. If the unit is confirmed defective and is not repairable by a qualified Prism Hardscapes representative, it will be replaced FOB Prism Hardscapes facility.

New orders must be inspected within 48 hours of delivery. Any visible damage or defect must be reported to Prism Hardscapes within this time frame to ensure warranty eligibility.

The buyer must provide proof of purchase along with the date of delivery to the end user and arrange shipping associated with the replacement of the unit. Prism Hardscapes will not be responsible for any defects resulting from misuse, user error, installation error, abuse, repair, or alteration. The use of wood or fuels other than those specified for use with this unit by Prism Hardscapes will void the warranty immediately.

Under no circumstances will Prism Hardscapes be liable for incidental or consequential damages resulting from defective products. This warranty is Prism Hardscapes sole warranty; all others, expressed or implied, including warranties of merchantability or fitness for a particular purpose, are disclaimed.

Prism Hardscapes is not responsible for any injury or mishap related to misuse, abuse, or poor judgment in selecting fire display locations.

11.1 Support Contacts

- Warranty: warranty@prismhardscapes.com
- Technical Support: tech-support@prismhardscapes.com
- Website: prismhardscapes.com
- Phone: 951-600-1123