

Fire Ring Installation Instructions

(FR & FRS Series Kits)

We recommend that our products be installed and serviced by professionals who are certified in the U.S. by NFI (National Fireplace Institute) or in Canada by WETT (Wood Energy Technical Training). Installer must follow all instructions carefully to ensure proper performance and safety.

INSTRUCTIONS for ROUND, RECTANGULAR, and SQUARE BURNERS



**NATIONAL
FIREPLACE
INSTITUTE**
A Certification Agency

Attention!!! Please read all instructions carefully before beginning installation. Failure to follow instruction may result in a possible fire hazard and will void all warranties.

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

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

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light appliance.
- Do not touch any electrical switch.
- 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.

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

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

WARNING: Burners must be used OUTDOORS ONLY or in a well ventilated space.

The installation must conform with local codes or, in the absence of local codes, in the National Fuel Gas Code ANSI Z223.1 or CAN/CGA-8149.1, National Gas installation Code Or CAN/CGA-B149.2, Propane installation code.

IMPORTANT: Installation of this unit should be done by a qualified installer, service agency or gas supplier.

The appliance and its manual valve must be disconnected from the gas supply piping system during any pressure testing.

The Burner must be isolated from the gas supply piping system by closing the manual control valve during pressure testing that equal to or less than ½ PSIG.

Note: All new LP cylinders may contain water, air or other contaminates. It is crucial that these substances be released before filling the cylinder and placing into service. Water vapor present in the gas vapor may cause the regulator to freeze up and cause an interruption to the gas flow. This interruption will cause the appliance to shut down. To prevent this from occurring, it is essential that a qualified technician always purge a new tank thoroughly before placing it into service. It is recommended that cylinders that have not been used for extend Periods of time also be purged before use.

- Never leave the appliance unattended during operation.
- Clothing and flammable materials should not be placed on or near the Fire Pit.
- Children should be supervised when they are in the vicinity of the Fire Pit.
- Installation or repair should be done by a qualified service technician. The Fire Pit should be inspected before use and annually by a qualified service technician.
- Inspect the fuel supply connection (including all quick disconnect hoses) before the use of this Burner.
- If there is any evidence of excessive abrasion or wear, the hose must replaced prior to operation.
- The pressure regulator and hose assembly supplied with the LP Conversion (FPLP) must be used.
- The LP gas supply cylinder used with LP models must be constructed and marked in accordance with the specifications for LP gas cylinders of the US Department of Transportation.
- The LP gas cylinder supply system must be arranged for vapor withdrawal.
- When not using the LP cylinder the LP gas must be turned off at the supply.

MAXIMUM BTU INPUT

The maximum Btu input of any of our rings is determined by the hub size and valve size.

	<u>Natural Gas (1/4 PSI or 7" W/C)</u>	<u>LP Gas (1/2 PSI or 14" W/C)</u>
Standard Capacity Valve (1/2" In/Out)	150,000 Btu	290,000 Btu
High Capacity Valve (3/4" In/Out)	300,000 Btu	650,000 Btu

The capacity will be reduced by **several factors in the fuel supply system** such as: Capacity of incoming system to meter, capacity of valve, line pressure, size of pipe, length of run, number of turns, LP orifice / air mixer, and altitude.

It is always required to consult your plumber to ensure you have adequate supply.

Fire Ring Installation Instructions

Fire Ring Installation

- ❑ Inspect the Burner for any signs of damage or corrosion.
- ❑ Apply pipe dope or tape to the threads of a “Vertical” nipple and install into the opposite side of the hub.
- ❑ Apply pipe dope or tape to the male threads on the other end of the “Vertical” nipple and install an elbow to that end of the nipple and tighten.
- ❑ Apply pipe dope or tape to the male threads of a “Horizontal” nipple and install it into the elbow and tighten. You may substitute a flexible gas connector for the horizontal nipple.
- ❑ Apply pipe dope or tape to the other male threads of the “Horizontal” nipple and install gas shut off valve. **MAKE CERTAIN ALL CONNECTIONS ARE TIGHT.**

For Natural Gas Connection

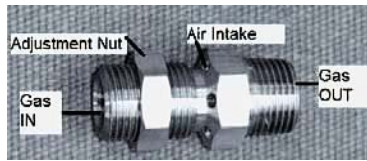
- ❑ Connect incoming gas supply to the gas shut off valve at the Fire Pit. Use pipe dope or tape to all male pipe threads and tighten. **Do not use pipe dope or tape to any flare connections.**
- ❑ Carefully turn the on/off valve that is supplying the incoming gas to the Fire Pit, do not open the valve that supplies the gas to the burner. Use a soap & water solution to test for leaks. **DO NOT USE FLAME TO CHECK FOR LEAKS!!**

For LP Gas Connection- small tank (20 lbs.)

Note: Use the FPLP kit (HPC brand) for this connection. For large tank, use one of the FPSLPK series kits (HPC brand).

- ❑ Use only the proper tank with external threads, the tank will be marked “Use with type 1”.
- ❑ Ensure the tank valve is turned off.
- ❑ The steps below require use of the “FPLP” kit.
- ❑ Attach the LP Regulator to the tank valve (from FPLP Kit) and tighten. **Do not use a wrench!! Hand Tighten only!!**
- ❑ Apply Pipe dope or tape to one of the $\frac{3}{8}$ x $1\frac{1}{2}$ nipples and install it into the other end of the Pressure Regulator and tighten.
- ❑ Apply Pipe dope or tape to the “Horizontal” nipple and attach the $\frac{1}{2}$ x $\frac{3}{8}$ reducing coupler (from FPLP Kit) and tighten.
- ❑ Apply Pipe dope or tape to the other $\frac{3}{8}$ x $1\frac{1}{2}$ nipple (from FPLP Kit) and install into the $\frac{3}{8}$ end of the reducing coupler and tighten.
- ❑ Apply Pipe dope or tape to the other $\frac{3}{8}$ end of the $1\frac{1}{2}$ long nipple, install the $\frac{3}{8}$ female end of the Air Mixer/Orifice (from FPLP Kit) onto the $\frac{3}{8}$ nipple and tighten.
- ❑ Apply pipe dope or tape to one male end of the $\frac{1}{2}$ ” close nipple (from FPLP Kit) and install it into the other female end of the Air Mixer/Orifice and tighten.
- ❑ Apply pipe dope or tape to other end of the $\frac{1}{2}$ ” close nipple and install the Gas Shut off Valve (from FPLP Kit) and tighten.
- ❑ Apply pipe dope or tape to the $\frac{1}{2}$ pipe threads on the $\frac{1}{2}$ MPT x $\frac{3}{8}$ Flare fitting (Brass) and install into the other female end of the Gas Shut off Valve.
- ❑ Check the Quick disconnect hose for any damage (from FPLP Kit). Do not use if there are any signs of damage.
- ❑ Apply pipe dope or tape to the $\frac{3}{8}$ x $1\frac{1}{2}$ nipple installed into the Pressure Regulator and attach the female end of the quick disconnect valve attached to the 12’ Hose Assembly.
- ❑ Attach the other end of the 12’ Hose Assembly to the $\frac{3}{8}$ flare fitting that is installed onto the valve.
- ❑ Place hose out of the way of any foot traffic.
- ❑ Open the tank valve by turning counterclockwise leave the valve at the Fire Pit **Off** and check all fittings for leaks using a soap and water solution. **DO NOT USE FLAME TO CHECK FOR LEAKS!!**

For LP Gas Connection- Large Tank- Must use FPSLPK Kit.



Air Mixer (#127)



Coupler (#565)

These are instructions for the FPSLPK, LP conversion kit designed to be used with match lit fire ring kits and log lighters.

These instructions must be used as a supplement to those that came with your gas log set and your safety pilot kit. Follow those instructions carefully and make the appropriate adjustments for the addition of this kit.

FPSLPK Parts List

- 1) #127 Air Mixer/Orifice- 150k Btu (Drill size #26)
- 2) #565 1/2" Stainless Steel Coupler

FPSLPK Installation Instructions

IMPORTANT: Apply joint compound to all male pipe fittings only- DO NOT use on FLARED fittings. Use gas rated TEFLON tape on flared fittings.

- 1) If NOT using Hearth Products Controls pan, skip to Step 2. Thread and tighten coupler (#565) to bottom of pan- see Fig. 1.
- 2) Thread and tighten **Air Mixer/Orifice** (#127) into bottom of fire ring or coupler in direction as shown below. For ring only see Fig. 2.

IMPORTANT: Confirm "Gas In" is towards control valve or shutoff valve.

CAUTION: Installing backwards will result in severe gas leak and risk of explosion.

- 3) Use adjustment nut to for desired flame pattern. Threading nut clockwise will close air mixer openings and result in sooty flame. Normally this nut is fully open (counterclockwise) for cleanest flame.



Fig. 1 Using Pan

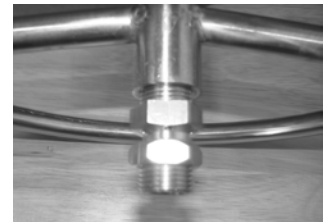


Fig. 2 Using Ring

LP Gas Enclosures

If using LP gas, please take following precautions when building the enclosure. LP gas is heavier than air and will pool- this will allow any residual gas to escape and allow fresh air into enclosure.

For an enclosure having 4 sides & top, please follow these requirements:

- 1) A minimum of 2 ventilation openings of 18 sq. in. each and orientated 180° apart (on 2 sides of enclosure).
- 2) Any manual valve must be readily accessible.

Recommended Media

Please use the following approved media to cover your fire ring:

WARNING: Only place enough media over fire ring to hide ring- too much media effect performance and may cause gas to back up in air mixer on LP gas fire pits.

1. Lava Rock- barbeque grade.
2. Ceramic Fiber, Gel Cast River Rock (HPC brand).
3. Decorative Glass approved for fireplace or firepit use.
4. Ceramic Fiber, Gel Cast logs (HPC brand).

WARNING: NEVER USE ANY MATERIAL THAT IS NON-POROUS AND HOLDS MOISTURE LIKE GRAVEL, PEBBLES, RIVER ROCK, ETC. THIS MATERIAL, WHEN HEATED WILL CAUSE THE TRAPPED MOISTURE TO BOIL, AND FRACTURE UNEXPECTEDLY. THIS MATERIAL IS NOT SUFFICIENTLY POROUS TO ALLOW HEATED STEAM TO READILY ESCAPE WHICH CAN BREAK AND CAUSE PERSONAL INJURY OR DAMAGE.

Operating Instructions

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

- A. This appliance must be lighted by hand. When lighting, follow these instructions exactly.
- B. BEFORE OPERATION smell around the appliance area for gas. See front page- “What to do if smell gas” section.
- C. Use only your hand to turn gas valve- NEVER use tools. If gas valve will not turn, call a qualified service technician.
- D. Do not use if any part has been under water.

LIGHTING INSTRUCTIONS

1. **STOP! Read the safety information above.**
2. If you smell gas, **STOP!** See front page- “What to do if smell gas” section.
If you do not smell gas, proceed to next step.
3. Place long match or lighter while burning on top of ring, slowly turn manual valve counterclockwise ↺.
4. After ring lights, remove lighter and adjust manual valve to desired flame height.
5. If ring does not light, turn manual valve clockwise ↻ immediately to turn off gas.
6. Wait at least 5 minutes to allow gas to clear, and then repeat Step 2.
7. Never leave fire pit unattended by an adult.

TO TURN OFF FIRE PIT

1. Turn the manual valve clockwise ↻ to the OFF position.
2. After cooling, cover fire pit with vinyl cover.