

# Match Lit Fire Pit Kit Installation Instructions

## (FP & FPS Series Kits)



We recommend that our products be installed and serviced by professionals who are certified in the U.S. by the 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 BURNER KITS



**NATIONAL  
FIREPLACE  
INSTITUTE**  
*A Certification Agency*

**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

## **MAXIMUM BTU INPUT**

The maximum Btu input of our match lit kits is determined by the manual valve size supplied in kit.

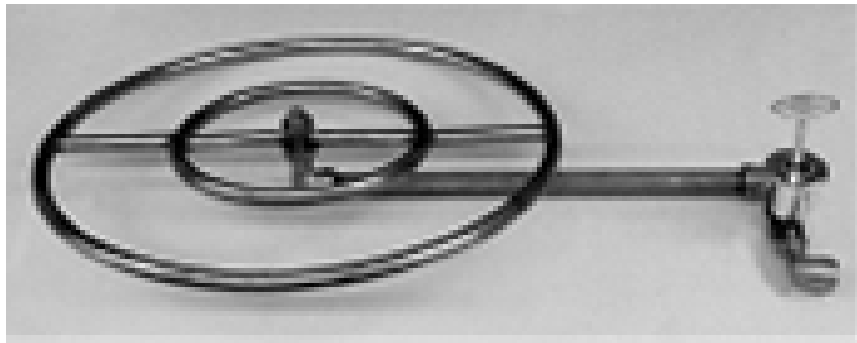
	<b><u>Natural Gas (1/4 PSI or 4" W/C)</u></b>	<b><u>LP Gas (1/2 PSI or 14" W/C)</u></b>
<b>Standard Capacity Kits (1/2" valve)</b>	150,000 Btu	290,000 Btu
<b>High Capacity Kits (3/4" valve)</b>	300,000 Btu	650,000 Btu

In all reality, it is practically impossible to reach these maximums. 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 best to consult your plumber to ensure you have adequate supply.

## **ASSEMBLY OF FIRE PIT KIT**

Using pipe dope or tape, assemble parts (1) through (6). The valve must be left exposed to connect the gas supply to and allow on/off control of the gas flow.



### **Parts List:**

- 1 Fire Ring (Picture shows example of Round Burner Kit)
- 2,3,4 Street Elbow (3)
- 5 Nipple
- 6 Manual Valve
- 7 Lava Rock

### **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- Large Tank (50 lbs +)**

**For large tank, use one of the FPSLPK series kits (HPC brand) which include air mixer/orifice & coupler.**

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

**Use the FPLP kit (HPC brand) for this connection.**

- 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 3/8 x 1 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 1/2 x 3/8 reducing coupler (from FPLP Kit) and tighten.
- Apply Pipe dope or tape to the other 3/8 x 1 1/2 nipple (from FPLP Kit) and install into the 3/8 end of the reducing coupler and tighten.
- Apply Pipe dope or tape to the other 3/8 end of the 1 1/2 long nipple, install the 3/8 female end of the Air Mixer/Orifice (from FPLP Kit) onto the 3/8 nipple and tighten.
- Apply pipe dope or tape to one male end of the 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 1/2” close nipple and install the Gas Shut off Valve (from FPLP Kit) and tighten.
- Apply pipe dope or tape to the 1/2 pipe threads on the 1/2 MPT x 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 3/8 x 1 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 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!!**

## 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.