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Trough Match-Lit Kit



We suggest that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

STOP!! *READ CAREFULLY!*

WARNING: FOR OUTDOOR USE ONLY

WARNING: If the information in this manual is not followed, 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 smell gas:

- Do not try to light appliance.
- Do not touch any electrical switch; do not use any phone in vicinity.
- Immediately call your gas supplier from your neighbor's phone. Follow gas supplier's instructions.
- If you can not reach gas supplier, call the fire department.

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

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1) General Information

Please carefully follow the instructions in this manual to prevent personal injury or property loss. The steps listed as:

WARNINGS Contains information critical to the safe installation and operation of the unit.

WARRANTY REQUIREMENT must be strictly followed to qualify for product warranty. **Warranty will be void if not followed.**

IMPORTANT Are notes and insights to help ensure product satisfaction and serviceability.

WARNING: We suggest 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. Hearth Products Controls Company is not responsible for your actions.

WARNING: It is the responsibility of the installer to follow all local and state codes concerning the installation and operation of the fire pit.

WARNING: Confirm your gas type matches the requirement for the fire pit.
Gas Pressure: This should be checked prior to use and installation:

- **Natural Gas Fire Pit:**
Supply Pressure: Minimum: 5.0" W.C.; **Maximum: 7.0" W.C.**
- **LP Gas:**
Supply Pressure: Minimum: 10.0" W.C.; **Maximum: 14.0" W.C.**

WARNING: Keep area surrounding fire pit clear and free from combustible materials, gasoline, and other flammable vapors.

WARNING: Solid fuels cannot be burnt within the fire pit.

WARNING: Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WARNING: This unit must be isolated from incoming gas line via a manual shutoff valve for maintenance or pressure testing.

2) Part List

- 1 Trough Pan
- 2 T-burner

For FPS Kit

- 1 Coupler
- 2 24" Flex Line
- 3 Decorative Key Valve
- 4 FPT ~ M Flare Fitting
- 5 M Flare ~ MPT Fitting
- 6 Burner Brackets (x2)
- 7 Center Bracket

3) Selecting the Location

WARNING: The Fire Pit is designed for outdoor use only. *HEARTH PRODUCTS CONTROLS CO.* must be notified of any other use.

WARNING: Fire Pits create very high temperatures-it is very important that combustibles and people are kept at safe distances.

WARNING: The fire pit location must accommodate a gas shut off within **4 feet** of the fire pit. Gas shut off must be outside of fire pit. The gas line should be sized minimum gas pressure at maximum flow rate (Btu/hr).

IMPORTANT: It is recommended that material such as granite, marble or other dense stone be kept away from heat and especially flame due to risk of cracking. Manufacturer is not responsible for damage.

- The gas line should be a minimum of 1/2" or larger based on the number of fire features and the distance from the energy source. Consult your local professional for proper gas line sizing.
- To enjoy your fire pit, select a well drained location that allows for sufficient clearance from combustible materials.
- Choose a location that allows easy access for installation and maintenance of the fire pit. Make sure that trees and shrubbery are well clear around and above the fire pit.
- Pick a location that allows sufficient horizontal room to enjoy the fire pit while allowing a safe distance from the heat and flame.
- Select a location where the fire pit can be attended during operation. Never leave an operating fire pit unattended or by someone not familiar with its operation or emergency shut off locations.
- Wooden or solid surfaces such as granite or marble must be located far enough away that they do not reach a temperature of more than 100 degrees F plus ambient air temperature.
Example: If surrounding air temperature is 70, the wood surface temperature must stay at or below 170 degrees F.

- Clearance:

| <u>Fire Pit</u> | |
|------------------------|------|
| Sides Surrounding | 48" |
| Above | 120" |

4) Site Preparation

WARNING: Ensure sufficient clearance from all combustibles and pedestrian traffic as outlined in “Selecting The Location”.

WARNING: ALWAYS USE PROPER MATERIALS AND CONSTRUCTION FOR GAS SUPPLY, POWER, AND ENCLOSURE.

WARNING: The enclosure must incorporate 1 vent on at least two Sides, 180 degrees apart at a minimum size of **18 sq. inches each** (Example: 3”x 6” or larger).

1. Ensure good drainage around fire pit.
2. Ensure specified clearances.
3. Consider pedestrian traffic in and around fire pit.



Vents- 2 Total

WARRANTY REQUIREMENT: The enclosure must be constructed on a stable surface. The weight of the fire pit must be supported by the pan. Make sure that the fire pit is high enough that the pan is above the grade to prevent water damage.

- **Some enclosures may require more ventilation based on material, size, and extended use.** This vent may work as a drain as well when installed at bottom sidewall to prevent water build up.

WARRANTY REQUIREMENT: The interior void space of the enclosure surrounding the valve box cannot be filled with any material (gravel, crushed rock, concrete, etc.)- It is a requirement to have a **minimum of 6”** under the pan for proper ventilation.

- Select materials that are non-combustible in both initial installations as well as over time.
- Ensure enclosure is level.

5) Installation

WARNING: Confirm this appliance is built for the gas used – natural gas or LP. Do not use natural gas appliance with LP or LP appliance with natural gas.

WARNING: Always use proper materials and construction. Select materials that are non-combustible.

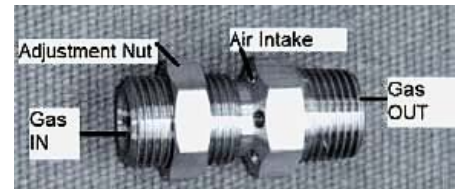
WARNING: TESTING FOR LEAKS- Use soapy water at every connection point in the gas line. If bubbles appear, turn off gas, repair leak and test again.

WARNING: Do not use flame to test for leaks.

WARNING: Gas Plumbing Connections: Use only joint compound or Teflon tape that is resistant to all gases. Apply to all male pipe fittings only- DO NOT use on FLARED fittings. Be sure to tighten every joint securely.

WARNING: Liquid Propane gas units must be leak and back pressure tested with media over the burner to confirm no leaks out of the air-mixer. This may need to be done prior to placing the unit in the enclosure if no access door.

WARNING: Confirm “Gas In” is towards control valve or shutoff valve. Installing backwards will result in severe gas leak and risk of explosion.



IMPORTANT HPC Offers Hose and Regulators for small tank applications.

Installation for Natural Gas

- 1) Ensure gas to the fire pit location are shut off.
- 2) Remove fire pit from packaging material.
- 3) Read Instructions
- 4) Call Manufacturer for clarification as needed.
- 5) Inspect the Burner for any signs of damage or corrosion.
- 6) Apply pipe dope or gas rated tape to all threads.
 - a) Do not use pipe dope on Flare fittings.

For FPS Kits

- 7) Assemble flex line to “T-Burner”
 - a) For Natural Gas attach flex line to T-Burner as shown.



- 8) Assemble Flex Line to Key Valve.
- 9) Connect fuel supply line to Key Valve.
- 10) Perform leak test as described in this manual.
- 11) Install unit in enclosure.
 - a) **IMPORTANT** To reduce whistling ensure flex line does not have sharp bends.



Installation for Liquid Propane

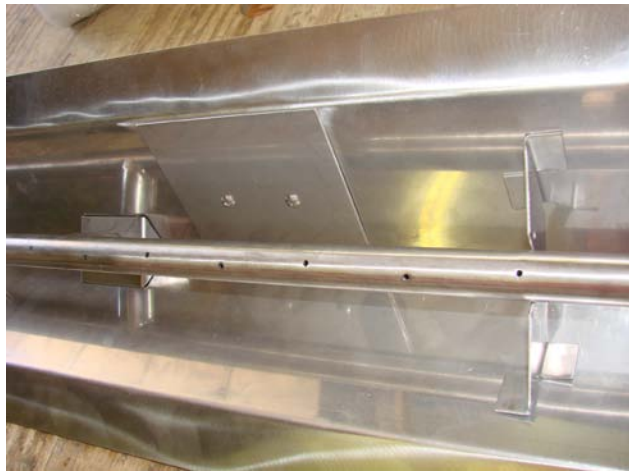
1) Ensure 2 burner brackets, center bracket and punch out plate are installed as shown.

a) Punch-Out Plate

i) Maybe be mounted on the interior or exterior of the pan.



b) Center bracket and burner brackets.



- c) For LP (Liquid Propane) attach flex line to flare adapter, air-mixer, coupler, and T-Burner as shown.

(1) **WARNING:** The air-mixer must be oriented correctly!

For FPS Kits

- 2) Assemble Flex Line to Key Valve.
- 3) Connect fuel supply line to Key Valve.
- 4) Perform leak test as described in this manual.
- 5) Install unit in enclosure.
 - a) **IMPORTANT** To reduce whistling ensure flex line does not have sharp bends.

- 6) Use adjustment nut (If supplied) on air-mixer 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.



For LP Gas Connection- Small tank (20 lbs. Bottle)

1. Use only the proper tank with external threads, the tank will be marked "Use with type 1".
2. Ensure the tank valve is turned off.
3. Ensure hose assembly is suited for small tank applications and is properly regulated.
4. Place hose out of the way of any foot traffic.
5. 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!**

6) Media Installation

WARNING: Use only media intended for use with fire. Use of unapproved media can result in serious injury.

WARNING: If using Glass with LP gas only cover the burner with ¼" of glass as shown. Incorrectly applied media can result in serious injury. The example shows properly applied glass over an elevated burner as shown above.

WARNING: For LP Models it is imperative to check for back pressure from the air mixer and for excessive settling after the media has been installed. It is your responsibility to ensure a safe operating condition. Burner should be ran in all operating conditions(High, Medium and Low) for 15 minutes and checked for settling and back pressure. This may need to be done prior to installation if there is no access door.

IMPORTANT Lave rock may be applied to a maximum depth of 3" above the burner due to its larger size.

1. Carefully fill pan with desired media.



2. Turn on main gas supply and check all fittings in and around fire pit for leaks using a leak reactant, leak detector or soapy water. If leaks are found, shut off gas supply repair leaks and retest.

7) Operation

WARNING: Before use test all gas connections for leaks. Do not use fire pit if there is any evidence of leaking gas. If leaking gas is suspected turn off the main gas supply and repair.

WARNING: When fire pit is not in operation turn off gas valve.

WARNING: Leaves, sticks, wood, paper, clothing, food material, should always be kept away from the fire pit. Make sure that there is no vegetation or other objects over the top or sides of the fire pit that could ignite or interfere with safe and proper operation.

WARRANTY REQUIREMENT Keep the fire pit covered at all time when not in use,

Initial Start-up: It may be necessary to purge air in gas lines after system installation.

START UP

1. **STOP! Read the safety information on “What to Do If Smell Gas” (Pg. 1).**
2. Confirm there is no debris in fire pit (as mentioned in warnings).
3. Place long handled lighter or match while burning on top of the fire pit.
4. Slowly Turn “ON” gas valve.
5. After burner lights remove flame.
6. Adjust flame to desire height.
7. If burner does not light turn valve off and allow gas to clear then repeat steps 1 ~ 6
8. Never alter the design of the fire pit.
9. Never leave fire pit unattended by an adult that is familiar with emergency shut-down.
10. Flammable materials should not be placed on or near the fire pit.
11. Children should be supervised when they are in the vicinity of the fire pit.
12. Inspect the fuel supply connection (including all quick disconnect hoses) before use.
 - a. Replace hose is there is evidence of abrasion or wear.
13. The proper hose and regulator must be used. Do not alter or change.
14. Only use “US Department of Transportation” Approved LP cylinders.
15. LP gas cylinder supply system must be properly vented.
16. Turn off LP cylinder when not in use.

SHUTDOWN

1. Turn “OFF” gas valve.
2. Turn OFF LP cylinder when applicable
3. After cooling cover fire pit.

8) Maintenance

WARNING: Ensure power and gas are off to unit prior to any cleaning or maintenance and allow system to cool.

- 1) **Keep fire pit covered at all times when not in use.**
- 2) Ring Cleaning: If flames exhibit any abnormal shapes or behavior, or if burner fails to ignite properly, then the burner holes may require cleaning. If this occurs, it is preferable to contact your nearest dealer to get the appliance serviced. Alternatively, the appliance can be cleaned by carefully removing the logs and media to allow access to burner. Use a brush to carefully remove dust, spider webs, and loose particles from base, logs, and fire ring itself.
- 3) 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

9) Troubleshooting

Below are some potential causes and countermeasures to the symptoms indicated in bold. If still unable to resolve issue, please contact your retailer or certified technician.

Will Not Light

- | | |
|--------------------------|--|
| 1. Air in gas line. | If new install, may take several attempts to purge air |
| 2. Debris in gas line. | Confirm gas line is clear (insulation, dirt, plastic, excessive pipe sealer etc..) |
| 3. Gas Pressure Improper | Confirm proper gas pressure found (Pg. 2) |

Will Not Stay Lit

- | | |
|-----------------------------|---|
| 1. Gas Pressure Improper | Confirm proper gas pressure found (Pg. 2) |
| 2. Improperly applied media | Review Install Instruction |

Noise

- | | |
|--------------------|---------------------------|
| 1. Whistling Sound | Change Flex line routing. |
|--------------------|---------------------------|

10) Warranty

Limited Warranty

Hearth Products Controls Company (HPC) warranties match-lit products against manufacturing defects that prevent safe and correct function as follows:

●**Stainless Steel/Aluminum Components: Commercial-1yr.; Residential 3yrs.**

This commences from the date of original sale / shipment from HPC FOB Dayton, Ohio.

This warranty is for parts and in-house (HPC) labor. The defective product must be sent back to HPC with a Return Merchandise Authorization (RMA) issued by HPC for that specific product and any other additional information for the nature of the defect or warranty claim.

The warranty does not cover items that have been damaged by overheating, modification, abuse, or improper storage. Also any labor involving installation or maintenance with the unit is not covered.

This warranty excludes claims for consequential, indirect-collateral expenses arising from product defects or warranty recovery.