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TK Torch Match Lit



Installation

We suggest that our products be installed by professionals that are locally licensed by the authority having jurisdiction in gas piping.

Service



We suggest that our products be serviced by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.

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 TK 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: It is the installer's responsibility to ensure a safe installation and to educate the end user as to proper operation. Leave this manual with the end user.

WARNING: Never alter product or configuration in any way.

WARNING: FOR REMOTE CONTROL USE: To prevent accidental start-up from unwanted RF signals it is the responsibility of the end user to turn off power to electric outlet for the remote control receiver when the TK is not in use via wall switch or breaker.

WARNING: We suggest that our products be installed by professionals that are locally licensed by the authority having jurisdiction in gas piping. We suggest that our products be serviced annually by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists 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: Product is not intended to be a starter for wood or any other combustibles.

WARNING: It is the responsibility of the installer to follow ALL LOCAL CODES concerning the installation and operation of the TK. In the absence of local codes, please follow:

- Fixed piping system: The *National Fuel Gas Code, ANSI Z223.1/NFPA 54* or *International Fuel Gas Code*.

- Electrical ground: The *National Electrical Code, ANSI/NFPA 70*.

WARNING: Only use gas/fuel type specified for this TK see label on the TK control Box. Verify correct gas/fuel type and pressure. Never use an alternative fuel to include bio-fuel, ethanol, lighter fluid or any other fuel.

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.
 - Outlet Pressure: 3.5" to 5.0" W.C.

- LP Gas:

- Supply Pressure: Minimum: 8.0" W.C.; Maximum: 15.0" W.C.
 - Outlet Pressure: 10.0" to 12.0" W.C.

2) Selecting the Location

WARNING: The TK is designed for outdoor use only.

WARNING: The TK creates very high temperatures-it is very important that combustibles and people are kept at a safe distance.

WARNING: For installation of the 24vac powered TK, it is required to install a wall switch or breaker for the TK electrical outlet away from the TK to prevent unwanted ignition of the fire pit.

WARNING: The TK location must accommodate a gas shut off in an accessible area.

WARNING: Fire pits create very high temperatures - Combustibles must be located far enough away that there is no risk of ignition.

WARNING: Overhead Clearance applies to tree limbs and branches only- DO NOT install unit under overhang or ceiling.

- TK Clearance:

<u>TK Clearances</u>	
Sides Surrounding TK	48"
Above TK	96"

- The gas line should be a minimum of 1/2" or larger based on the number of TK's or other fire features and the distance from the energy source to the TK. Consult your local professional for proper gas line sizing.
- To enjoy your TK, select a location that allows for sufficient clearance from combustible materials.
- Choose a location that allows easy access for installation and maintenance of the TK. Make sure that trees and shrubbery are well clear around and above the TK.
- Pick a location that allows sufficient horizontal room to enjoy the TK while allowing a safe distance from the heat and flame.
- The TK is designed to be installed on a post. It is recommended that the TK flame is a minimum of 84" off the ground. This is a guideline. Installers should follow local code.
- The unit needs to be installed in a manner that ensures that pedestrian traffic cannot get closer than a 48" perimeter around the flame.
- Select a location where the TK can be attended during operation. Never leave an operating TK unattended or by someone not familiar with its operation or emergency shut off locations.

3) Site Preparation

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

IMPORTANT: Design site so the gas connection and 24vac electric supply when applicable are accessible after installation for maintenance.

IMPORTANT: If flex hose is used care must be taken not to drop the hose down the post. This can be especially problematic if the post is buried in concrete.

IMPORTANT: It is not recommended to mortar the post in place. This may make servicing the unit difficult. If the post will be mortared in place it may be advantageous to run solid pipe through the post to prevent accidentally dropping the flex hose down the post.

IMPORTANT: Determine installation method from Figure 1 or plan another method following the guidelines of this manual.

4) TK 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. Refer to label on this appliance.

WARNING: Always use proper materials and construction for gas supply, power, and post. Select materials that are non-combustible.

WARRANTY REQUIREMENT: The TK should be supported by a 3" Post of sufficient strength to support the TK head and withstand winds.

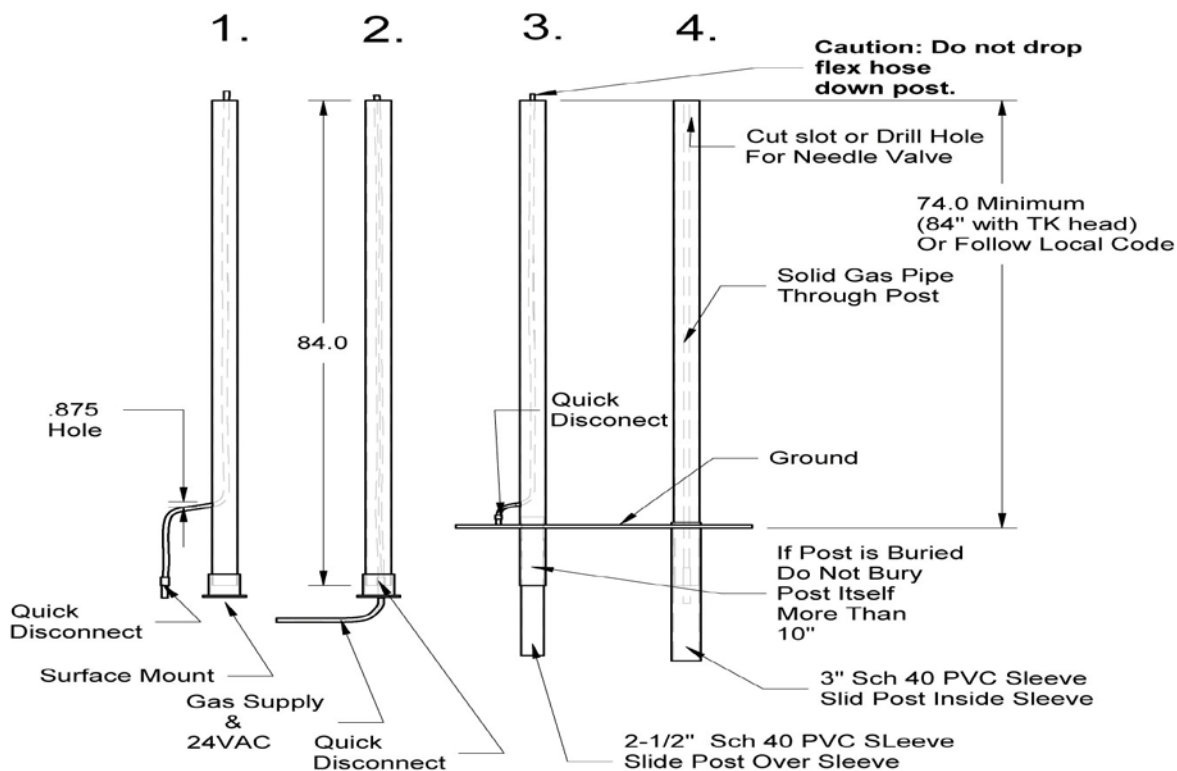
WARRANTY REQUIREMENT: Do not change the TK configuration in any way.

IMPORTANT: If method 3 or 4 is used check PVC/Post fit as desired before mortaring PVC in place.

Installation

1. Ensure gas and power to the TK location are shut off.
2. Cut a 3/8" by 2-1/4" slot in the top of the post for the needle valve stem. (Image 3&4, pg 6)
3. Run Flex Hose through post (if used).
4. Connect 1/4" Male end of flex hose to TK Head. Avoid sharp bends with flex hose to prevent whistling.
5. Turn on main gas supply and check all fittings in and around TK for leaks using a leak reactant, leak detector or soapy water. If leaks are found, shut off gas supply repair leaks and retest.
6. Set post in place and secure.
7. Secure Post by chosen installation method.
 - a. For method 3 & 4 mortar the PVC sleeve in place.
 - b. Choose inside or out sleeve and ensure your PVC fits your post prior to mortaring in place
 - Slide post over or inside of PVC Sleeve and back fill.
 - Allows for the post to be removed for service.
8. Ensure finished installation is sturdy.
 - a. For the 3" PVC a bead of silicone at the post/PVC seam can be applied to add stability if needed.

Figure 1 - Examples of Installation Methods



5) TK Operation

WARNING: Before use, be sure to test all gas connections for leaks. Do not use TK if there is any evidence of leaking gas. If leaking gas suspected, turn off the main gas supply and repair immediately.

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

WARNING: For electronic ignition models power to TK must be turned off via wall switch or breaker when not in operation.

WARNING: Never use any material that is non-porous and holds moisture such as 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.

WARNING: Solid fuels shall not be burned in the TK. Leaves, sticks, wood, paper, clothing, food material, should be kept away from the TK. Make sure that there is no vegetation or other objects over the top or sides of the Tk that could interfere with safe operation. See clearances in section 2 Selecting the Location.

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

WARNING: Never alter the design of the TK.

WARNING: Never leave TK unattended by an adult that is familiar with emergency shut-down.
WARNING: Children should be supervised when they are in the vicinity of the TK.
WARNING: Inspect exposed fuel supply connections (including all quick disconnect hoses) before use.

- a. Replace hose if there is evidence of abrasion or wear.

WARNING: Ensure use of proper hose and regulator.

WARNING: Only use “US Department of Transportation” approved LP cylinders.

WARNING: LP gas cylinder supply system must be properly vented.

WARNING: Turn off LP cylinder when not in use.

IMPORTANT: **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 you smell gas”(Pg. 1)
2. Confirm there is no debris in the TK.
3. Place long handled lighter while burning on top of TK.
4. Slowly turn on gas valve.
5. After burner lights remove flame.
6. Adjust flame to desired height.
7. If burner does not light turn valve off and allow gas to clear then repeat steps 1~6.

SHUTDOWN

1. Turn Off gas valve.
2. Turn Off LP cylinder when not in use.

6) Maintenance

WARNING: Any guard or protective device removed for servicing must be replaced prior to operating the fire pit.

WARNING: Installation and repair should be done by a qualified service person. TK should be inspected prior to use and at least annually by a qualified service person.

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

IMPORTANT: Regular Cleaning of the Top, Burner, and Kano Sleeve will reduce the amount of soot build up and extend the outward appearance of your TK.

- 1) Keep any debris out of TK clean as needed.
- 2) TK Cleaning.
 - a) Cleaning Frequency will depend on fuel type and hours burned.
 - b) Ensure gas is shut-off.
 - c) Allow the unit to cool.
 - d) Carefully remove the top by turning clockwise and lifting.
 - e) Lift the Kano sleeve off.
 - a. The Kano sleeve and top can be cleaned with a soft rag, water and a mild soap.
 - b. Use a non abrasive soap to prevent scratching the Kano sleeve.

Service



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7) 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 (Section 1) |

Will Not Stay Lit

- | | |
|--------------------------|---|
| 1. Gas Pressure Improper | Confirm proper gas pressure found (Section 1) |
|--------------------------|---|

Noise

- | | |
|--------------------|---|
| 1. Whistling Sound | Change Flex line routing, confirm proper gas pressure |
|--------------------|---|

Image 1



Image 2



Image 3



Image 4



8) Warranty

Limited Warranty

Hearth Products Controls Company (HPC) warrants TK Torch against manufacturing defects that prevent safe and correct function as follows:

- Electronics, Gas Valve: Commercial-6mos; Residential- 1 yr.**

- 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.