

WARMING TRENDS®

MERCURY IGNITION SYSTEM OWNER'S GUIDE AND INSTRUCTION MANUAL



THANK YOU FOR YOUR PURCHASE!

Version 4.2

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IMPORTANT PRODUCT WARNINGS


 **DANGER**
FIRE OR EXPLOSION HAZARD


If you smell gas:

- Shut off gas to the appliance.
- Extinguish any open flame.
- If odor continues, leave the area immediately.
- After leaving the area, call your gas supplier or fire department.
- Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.

 **WARNING**
Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliances.

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

 **WARNING: For Outdoor Use Only.**
Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

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

 **DANGER!**



CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed space can kill you.
Never use this appliance in an enclosed space such as a camper, tent, car, or home.

INSTALLER: Leave this user guide with the appliance.

CONSUMER: Retain this user guide for future reference.

The installer is responsible for using the correct fuel line sizing and/or regulation to provide gas within the specified minimum and maximum gas inlet pressures of the fire feature.



DANGER
RISQUE D'INCENDIE OU D'EXPLOSION

S'il y a une odeur de gaz :

- Coupez l'admission de gaz de l'appareil.
- Éteindre toute flamme nue.
- Si l'odeur persiste, éloignez-vous de l'appareil et appelez immédiatement le fournisseur de gaz ou le service d'incendie.
- Si ces précautions ne sont pas respectées, cela pourrait provoquer un incendie ou une explosion, pouvant causer des dommages matériels, des blessures ou la mort.



AVERTISSEMENT

Ne pas entreposer ni utiliser de l'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de l'appareil, ni de tout autre appareil.

Une bouteille de propane qui n'est pas raccordée en vue de son utilisation, ne doit pas être entreposée dans le voisinage de cet appareil ou de tout autre appareil.



AVERTISSEMENT: Pour utilisation à l'extérieur seulement.

L'installation et l'entretien doivent être effectués par un installateur qualifié, une agence de service ou le fournisseur de gaz.



AVERTISSEMENT: Si les informations de ce manuel ne sont pas suivies à la lettre, un incendie ou une explosion peut en résulter et causer des dommages matériels, des blessures corporelles ou la mort.



DANGER!



MONOXYDE DE CARBONE

Cette appareil peut produire du monoxyde de carbone, un gaz inodore.

L'utilisation de cet appareil dans des espaces clos peut entraîner la mort.

Ne jamais utiliser cet appareil dans un espace clos comme un véhicule de camping, une tente, une automobile, ou une maison.

Ne pas utiliser cet appareil s'il a été plongé, même partiellement, dans l'eau. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de commande et toute commande qui a été plongée dans l'eau.

INSTALLATEUR: Laissez ce manuel avec l'appareil

CONSOMMATEUR: Conservez ce manuel pour référence ultérieure.

Il incombe à l'installateur d'utiliser le dimensionnement et / ou la régulation corrects de la conduite de carburant pour fournir du gaz dans les pressions d'entrée minimum et maximum spécifiées pour la fonction incendie.

TABLE OF CONTENTS

Important Product Warnings.....	2
Avertissements Importants Concernant les Produits.....	3
Certified Burner System.....	5
Code Requirements	6
Minimum and Maximum Gas Inlet Pressures.....	6
Location Considerations	7
Construction of Enclosure	8
Fire Feature Clearance Diagram.....	9
General Installation Instructions	10
Mercury Installation Instructions.....	12
Operating Instructions	22
Mercury Lighting Instructions	22
Warning Label.....	23
Media Installation	23
General Maintenance.....	24
Troubleshooting.....	25
Warranty.....	25
California Resident PROP 65 Warning.....	27
Return Policy.....	27
Contact Us	27

CERTIFIED BURNER SYSTEMS

Compliance with the following codes:

1. 2021, 2018, 2015, 2012, and 2009 International Fire Code® (IFC)
2. 2021, 2018, 2015, 2012, and 2009 International Fuel Gas Code® (IFGC)
3. 2024, 2021, 2018, 2015, 2012, and 2009 Uniform Mechanical Code® (UMC)*
4. 2020, 2015, and 2010 Natural Gas and Propane Installation Code**

*Uniform Plumbing Code is a copyrighted publication of the International Association of Plumbing and Mechanical Officials

**Copyrighted publication of Canadian Standard Association

MERCURY IGNITION SYSTEMS

Model # CFB60 NG/LP with MERC
 Model # CFB60XL NG/ LP with MERC
 Model # CFB84 NG/LP with MERC
 Model # CFB100 NG/LP with MERC
 Model # CFB120 NG/ LP with MERC
 Model # CFB180 NG/LP with MERC
 Model # CFB240 NG/LP with MERC
 Model # CFB290 NG/LP with MERC
 Model # CFBH120 NG/LP with MERC
 Model # CFBH160 NG/LP with MERC
 Model # CFBH200 NG/LP with MERC
 Model # CFBH240 NG/LP with MERC
 Model # CFBL90 NG/LP with MERC
 Model # CFBL110 NG/LP with MERC
 Model # CFBL130 NG/LP with MERC
 Model # CFBL150 NG/LP with MERC

Model # CFBL170 NG/LP with MERC
 Model # CFBL190 NG/LP with MERC
 Model # CFBL210 NG/LP with MERC
 Model # CFBL250 NG/LP with MERC
 Model # CFBL270 NG/LP with MERC
 Model # CFBO140 NG/LP with MERC
 Model # CFBO180 NG/LP with MERC
 Model # CFBO280 NG/LP with MERC
 Model # CFBO320 NG/ LP with MERC
 Model # CFBT110 NG/LP with MERC
 Model # CFBT170 NG/LP with MERC
 Model # CFBT230 NG/LP with MERC
 Model # CFBT290 NG/LP with MERC
 Model # CFBT350 NG/LP with MERC

Compliance with the following standards:

1. ANSI Z21.97/CSA 2.41-2017 Outdoor Decorative Gas Appliances
 Product: Outdoor Decorative Gas Fire Feature and Fireplaces



ICC-ES Report PMG-1213

Scan to view the Most
 up-to-date Certified
 Burners List:



High Capacity (HC) ignitions
 may be substituted for Standard
 Capacity (SC) ignitions.

GENERAL INFORMATION

This Owner's Guide and User Guide contains critical information for the safe installation and operation of your Mercury Ignition. **You must read this user guide in its entirety prior to installation and/or operation. Failure to follow these instructions may result in property damage, personal injury, or death.**

WARNING:

HOT! DO NOT TOUCH.

SEVERE BURNS MAY RESULT.

CLOTHING IGNITION MAY RESULT.

- Young children should be carefully supervised when they are in the area of the appliance.
- Clothing or other flammable materials should not be hung from the appliance or placed on or near the appliance.
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

Installation and service must be performed by a qualified installer, service agency, or the gas supplier. It is the installer's responsibility to read thoroughly before installing or servicing this equipment to ensure a safe installation and to educate the end user as to proper operation.

Warming Trends® is not responsible for damage due to improperly installed or operated units. Installers must leave this user guide with the end user. Instructions are updated as needed, and it is the installer or owners' responsibility to periodically review Warming Trends website for applicable updates (www.Warming-Trends.com.) Please keep this with your important papers.

WARNING:

Do not use 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 that has been under water.

WARNING:

DO NOT USE OXYGEN MIXERS WITH YOUR WARMING TRENDS APPLIANCE. Mixers may create leakage in the cavity of the feature and could cause fire or explosion which could cause property damage, personal injury, or death.

WARNING:

Product is not intended to be used to burn wood or other combustibles. Solid fuels shall not be burned in the appliance.

Do not put any combustible materials into the fire feature.

WARNING:

Only use Liquid Propane or Natural Gas as specified for your Warming Trends appliance or burner.

Do not use an alternative fuel.

CODE REQUIREMENTS

It is the responsibility of the installer to consult with the local municipality and to **FOLLOW ALL LOCAL CODES** concerning the installation and operation of the fire feature.

For systems with Mercury Ignition Systems:

When the appliance is for connection to a fixed piping system, the installation must conform with local codes, or in the absence of local codes with the *National Fuel Gas Code, ANSI Z223.1-NFPA54; National Fuel Gas and Propane Installation Code, CSA B149.1; or Propane Storage and Handling Code, CSAB149.2, as applicable.*

MINIMUM AND MAXIMUM GAS INLET PRESSURES

The installer is responsible for using the correct fuel lines and/or regulation to provide gas to the fire feature within the specified minimum and maximum gas inlet pressures below:

GAS INLET PRESSURES

MERCURY	Minimum	Maximum
Natural Gas	3.5" W.C. (.8718 Kpa)	10.0" W.C. (2.4908 Kpa)
Liquid Propane	11.0" W.C. (2.7399 Kpa)	13.0" W.C. (3.2381 Kpa)

LOCATION CONSIDERATIONS

All appliances, match lit kits, spark ignition, and electronic ignition systems are designed and intended for outdoor use only.

All appliances must have a gas shutoff located outside of the appliance to allow for emergency shutoff and maintenance.

Select a location where the appliance can be attended during operation. Never leave an operating appliance unattended or by someone not familiar with its operation or emergency shutoff locations.

Appliances may create very high temperatures - combustibles must be located far enough away that there is no risk of ignition.

IMPORTANT: It is recommended that material such as granite, marble, or other dense stone be kept an appropriate distance away from flame due to risk of cracking. Manufacturer is not responsible for damage to any enclosure material for any reason.

FIRE PIT CLEARANCES

- 36" horizontally from any combustible structure or materials.
- Overhead clearance should be a minimum of 120" from combustible structures or materials.
- Choose a location that allows easy access for installation and maintenance of the fire feature.
- Pick a location that allows sufficient horizontal room to enjoy the appliance while allowing a safe distance from the heat and flame.
- Always consult with local municipality regarding any local code requirements.
- See Clearance Diagram on page 9.

The enclosure must be constructed on a stable surface and must be level.

For models with electronic ignitions, the control/valve box must be above grade with adequate drainage to prevent water exposure to the controls inside the box. Additionally, the weight of the burner system must not be supported by or rest upon the control valve/box. A plate, pan, or other surface should be used to support the weight of the burner system.

Blocks, bricks, or metal collars (L-brackets) can be used to build a support for the system, plate, or pan. Larger plates and pans should include additional support to avoid bowing. A center support (using blocks, bricks or other non-combustible materials) is recommended for round or square plates and pans over 30" and for rectangular plates or pans over 40".

Warming Trends Burners, Ignitions, Media, and other Accessories may be installed in Outdoor Fire Places. The clearances, materials, venting, and construction standards for Outdoor Fire Places may be determined by Local or National Codes. Such Codes may incorporate or defer to the recommendations or requirements of the Outdoor Fire Place Manufacturer or the party designing the Fire Place. It is the installer's responsibility to ensure conformance to applicable local standards.

CONSTRUCTION OF ENCLOSURE

If located on the vessel, key valve should be mounted below the plate and through the side wall of the vessel. Key valves may be mounted remotely or on adjacent surfaces.

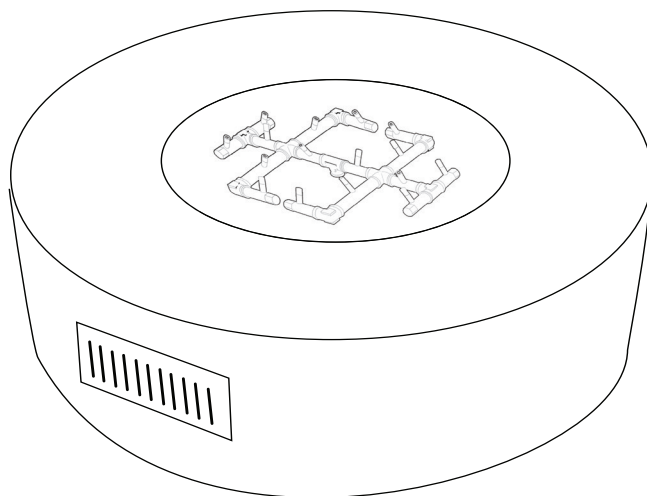
Always use proper materials and construction for gas supply, power, and enclosure. Materials must be non-combustible in both initial installations as well as over time.

The interior space of the enclosure cannot be filled with any material (gravel, crushed rock, concrete, etc.). The appliance assembly should be recessed 4" - 6" from the top of the enclosure to protect flame from excessive wind. Some conditions may require deeper recession.

It is the responsibility of the installer to provide proper installation to allow for easy accessibility for service and/or repairs. Installer must not build capstone inner ledge over outer lip of plates or pans (unless access panel door or alternate access is incorporated). Building capstone inner ledge over outer edge of plates or pans will impede access to system and result in the need to crack or remove capstones to gain access. Warming Trends is not responsible for damage to enclosure for any reason whatsoever.

Minimum ventilation requirement: incorporate venting on at least 2 opposing sides (two (2) areas of venting) at a minimum of 18 sq inches of venting each. Installation of the vents in the mid-to-lower area of the enclosure is recommended. Ventilation allows for heat and/or residual fuel to escape. Failure to properly vent enclosure may result in appliance overheating or explosion. Overheating could lead to heat damage to internal components. Some enclosures may require more ventilation based upon material, size, and extended use. Always consult with local municipality regarding any code requirements.

Ready-to-Finish Kits come with Fire Feature Vent Kit (FPVK). Vents do not come pre-installed on Ready-to-Finish Kit as placement and installation depends on veneer. Vents to be installed by contractor on site.



WARNING:

All appliances must have a gas shutoff on the outside of the fire feature to allow for emergency shut off and maintenance.

WARNING:

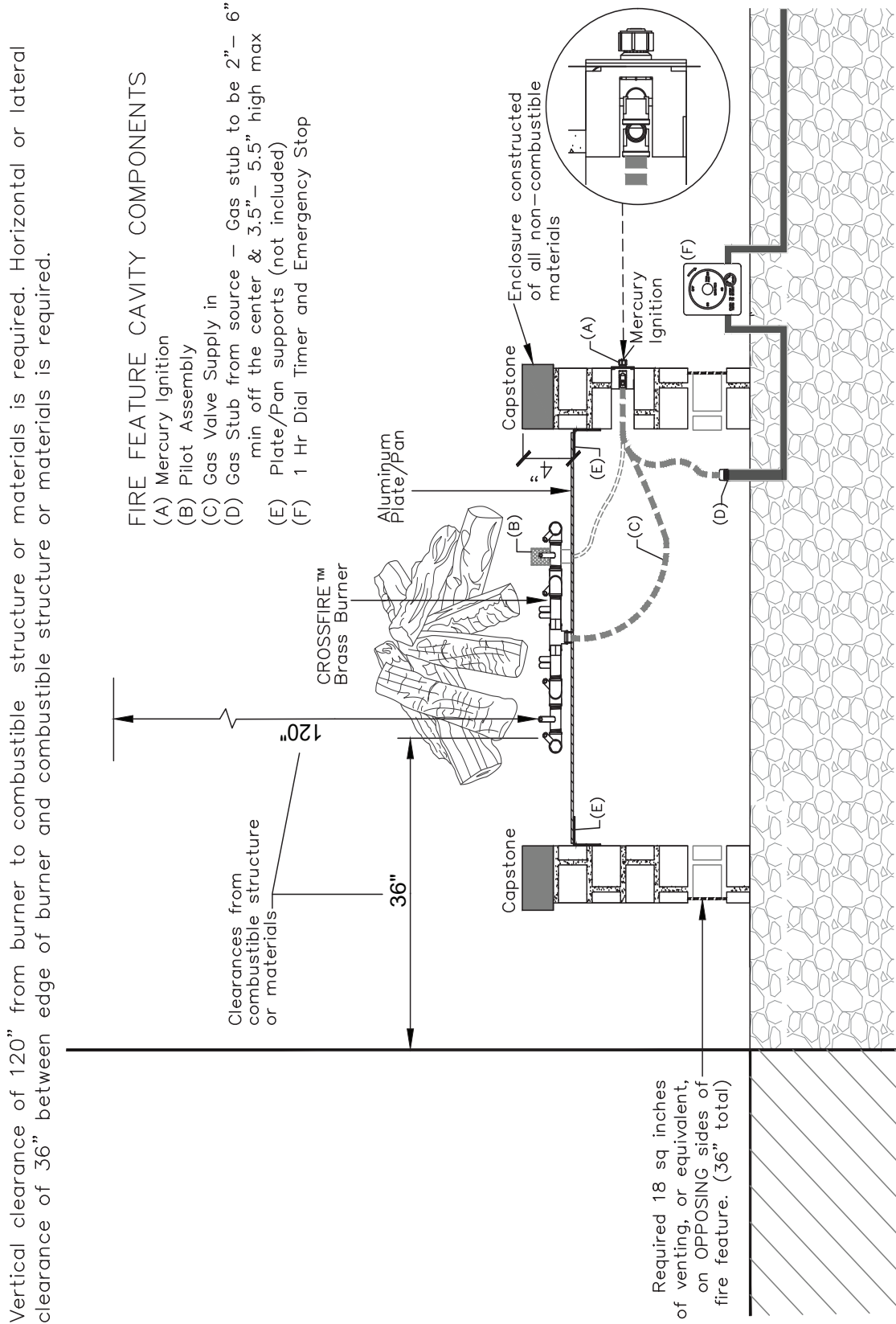
For electronic ignition models, there must be an electrical shutoff (wall switch or breaker) on the exterior of the appliance or on adjacent structure to allow for emergency shutdown and maintenance. Verify correct power supply.

WARNING:

These instructions do not apply to vessels or appliances with self contained propane gas supply systems. Appliances or vessels with self contained propane gas supply systems have additional specific requirements which must be identified and met by the vessel installer or manufacturer. Please consult with a qualified installer for guidance and required installation procedures.

FIRE FEATURE CLEARANCE DIAGRAM - MERCURY IGNITION SYSTEM

Vertical clearance of 120" from burner to combustible structure or materials is required. Horizontal or lateral clearance of 36" between edge of burner and combustible structure or materials is required.



GENERAL INSTALLATION INSTRUCTIONS

Use only joint compound, thread sealant, or tape specific to gas use that is resistant to all gases. Apply joint compound, thread sealant or tape to all male pipe fittings only and **DO NOT USE ON FLARED END OF FLARED FITTINGS**. Be sure to tighten every joint securely.

Ignition systems are recommended on any burner over 300K BTUs. If you are lighting manually be sure to maintain a minimum safe distance to avoid property damage, personal injury, or death. Please refer to match lit instructions.

1. Verify gas supply matches burner type.
2. Verify gas inlet pressure is within the specified minimum and maximum pressures. Consult Gas Inlet Pressures on page 6.
3. Purge gas lines of air, water, and debris.
4. Perform all leak tests with leak detector or leak reactant on main gas supply and repair leaks as necessary. Turn off gas supply.

After installation of any jet or end jet or the performance of any other service, the burner must be tested for leaks.

5. Inspect flex line(s) for punctures or breaks in line(s).
6. **Make sure the key turns in the key valve before installing.** Use only your hand to turn the gas key valve. Never use tools. If the key valve will not turn by hand, don't try to repair it. Force or attempted repair may cause a fire or explosion.
7. **Refer to Clearance Diagram on page 9 for applicable gas connections.**
8. Position burner safely with access to all gas connections for testing. Position burner to allow sufficient clearance from the fire pit sides and capstone to avoid damage.
9. Turn on gas supply to perform repeat leak tests on main gas supply and all connections to appliance and repair as needed.
10. Do not use appliance if there is evidence of leaking gas. If leak is suspected, turn off main gas supply immediately.
11. For appliances for use with a fixed fuel piping system and equipped with an appliance gas pressure regulator, the appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressure in excess of ½ psi (3.5kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi (3.5 kPa).

12. Ignite burner. See lighting instructions on page 22. Once appliance is lit, perform leak test on all gas connections and repair as needed.
13. Turn off appliance and allow to cool.
14. Set appliance into properly constructed, level, non-combustible enclosure. The enclosure must be on a stable surface. The weight of the appliance must be supported by the plate or pan and not by any control box or gas valve. Blocks, bricks, metal collars, or L-brackets can be used to build a support ledge for the system plate or pan. If applicable, Control boxes and gas valves must be above grade with adequate drainage to prevent water damage. If applicable, installer is responsible for making sure there is enough space in the cavity for any electronics and piping. **The lower cavity of the enclosure cannot be filled with any material (i.e. gravel, crushed rock, concrete, etc).** The fire pit assembly should be recessed 4" to 6" from the top of the enclosure to protect flame from excessive wind and to allow coverage of burner. **See Clearance Diagram on previous page.**
15. To allow for regular maintenance, any capstone materials should not overhang the interior edge of the fire pit. See **Clearance Diagram** on page 9 for placement. Warming Trends® is not responsible for any damages to the capstone.
16. Venting is required to avoid heat damage to internal components and to allow airflow in case of gas pooling. Incorporate 1 vent on at least two opposing sides (two [2]vents total) at a minimum size of 18 sq inches each for 36" total (example: 3"x 6"). Installation of the vents in the mid to lower area of the enclosure is recommended. Some enclosures may require more ventilation based on material, size, and extended use. Ready-to-Finish Kits come with Fire Pit Vent Kit (FPVK). Vents do not come pre-installed on Ready-to-Finish. Fire Pit Vent Kits must be installed on site.
17. Only use fire rated media (glass, lava rock, log sets, etc.) approved for use with high temperatures that have been manufactured for specific use in fire features. Never use any material for media that is non-porous and holds moisture such as gravel, pebbles, river rock, etc. Such material, when heated, may cause the trapped moisture to boil, fracture unexpectedly and/or explode and which could cause personal injury, damage, or death.
18. To avoid dust and clogs getting into the system, do not dump the media over the burner. Place the media onto the plate or pan. **Burner should be covered by approved media up to but no more than ½" above the jets. Excessive media coverage may cause back pressure and dangerous pooling of gas which can result in explosion which could cause property damage, personal injury, or death.**

GENERAL INSTALLATION INSTRUCTIONS - CONTINUED

19. Do not cover the ignition pilot assembly or wind cage more than halfway with any form of media. Do not place ceramic logs too close to the pilot assembly as this may cause excessive heat and system failure that is not covered by warranty.
20. Complete final verification of correct operation and lighting.
21. Review instruction manual with end user and instruct end user not to change/modify fire pit or media in any way.

MERCURY IGNITION SYSTEM: INSTALLATION INSTRUCTIONS

If the Pilot Assembly for the Mercury Ignition is not installed on the Plate or Pan, start here for complete installation instructions. If the Pilot Assembly has been installed on the plate or pan, skip to step 3 below for installation instructions.

INSTALLATION OF THE MERCURY IGNITION PILOT ASSEMBLY TO THE PLATE USING PRE-CUT KNOCKOUTS

The Warming Trends plate/pan that was included with your Order should have pre-cut pilot assembly knockouts for various burners. The burner type and size are etched into the plate/pan next to the knockout for that burner's pilot assembly location.

1. LOCATE AND REMOVE THE APPROPRIATE KNOCKOUT

- 1.1 Confirm the type and size of your burner on the Packing Slip for your Order.
- 1.2 Locate the Pilot Assembly knockout on the plate/pan that matches your burner type and size. {See Photo 1}.
- 1.3 Remove the matching knockout by placing a screwdriver or other small tool in the opening at the edge of the knockout. Push one side of the knockout down to break the connector and remove the circular piece of aluminum with pliers. Do not remove any other knockouts. {See Photo 2}.

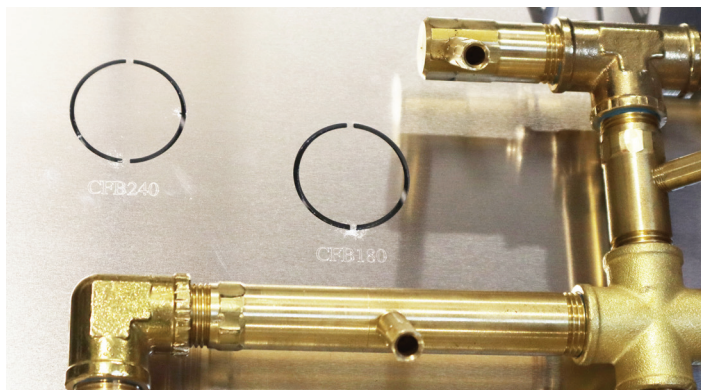


Photo 1: Pilot Assembly Knockouts



Photo 2: Breaking the Knockouts

2. INSTALLING THE PILOT ASSEMBLY ON THE PLATE/PAN

- 2.1 Locate the Pilot Assembly. This includes the Pilot Hood, the Electrode and Thermocouple. {See Photo 3a and 3b}.

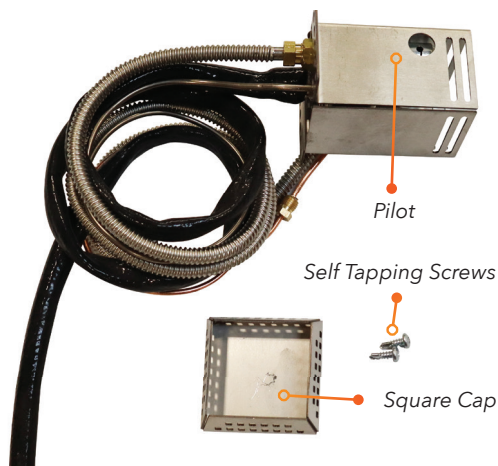


Photo 3a: Full Pilot Assembly

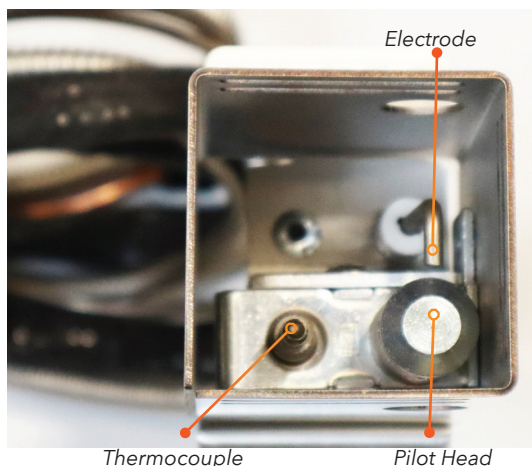


Photo 3b: Top-Down View of Pilot Assembly

MERCURY IGNITION SYSTEM: INSTALLATION CONTINUED

- 2.2 Remove the square cap from the top of the Pilot Assembly and set it aside until the plate/pan is installed onto your fire feature.
- 2.3 Carefully unroll the wires coming from the bottom of the Pilot. *Over handling of the thermocouple wire can cause breakage or malfunction.* Feed the wires through the knockout opening created in step 1.3.
- 2.4 Rotate the Pilot Assembly in the knockout opening until the circular opening on the Pilot Hood and Thermocouple are adjacent to the nearest jet with the Thermocouple nearest to the jet. Position the Pilot Assembly to cover the entire knockout opening. {See Photo 4a and 4b}.

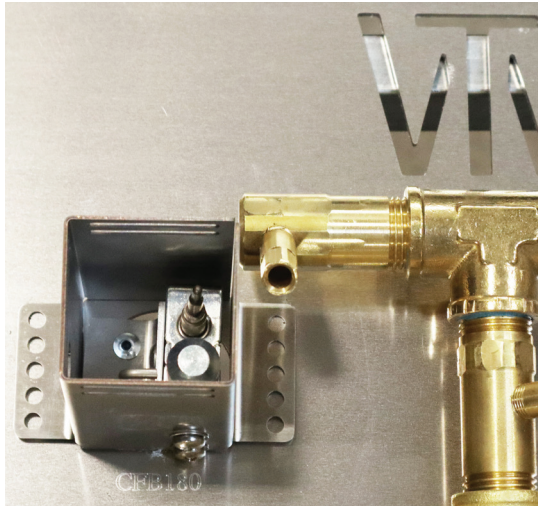


Photo 4a: Thermocouple Positioning

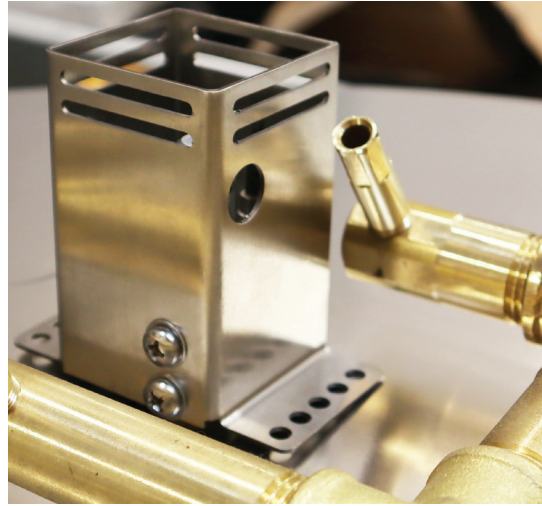


Photo 4b: Pilot Hood Circular Opening Positioning

- 2.5 Once the Pilot is properly aligned, use the self-tapping screws to secure the Pilot to the plate/pan. {See Photo 5}



Photo 5: Securing the Pilot to the Plate/Pan

MERCURY IGNITION SYSTEM: INSTALLATION CONTINUED

3. INSTALL THE VALVE ASSEMBLY IN THE VESSEL

- 3.1 Install the Ignition Control/Valve Assembly in the exterior wall of the vessel and secure in place. {See Clearances Diagram on page 9 of this Instruction Manual.}

4. CONNECTING THE FLEX LINE TO THE VALVE ASSEMBLY

Please Note: Warming Trends sells two Flex Line Kits for the Mercury Ignition, depending on the BTU supply of the burner. The FKM1 has one (1) flex line and fits burners up to 249 BTUs {See Photo 6}. The FKM2 has two (2) flex lines and fits burners 250 BTUs or more {See photo 7}. Follow the assembly instructions below specific to your Flex Line Kit.



Photo 6: FKM1

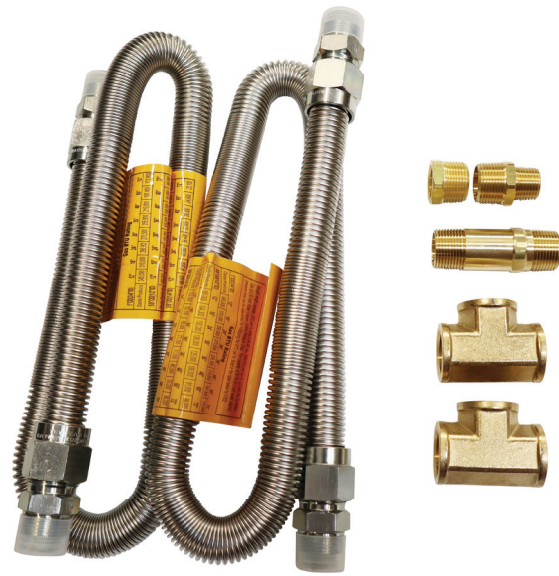


Photo 7: FKM2

FKM1 INSTRUCTIONS:

- 4.1 Identify the "outlet" on the Valve Assembly. The outlet should have a pre-installed $\frac{1}{2}$ " x 2" nipple attached. {See Photo 8a}. Apply joint compound, thread sealant, or plumbing tape to the threads of the exposed end of the $\frac{1}{2}$ " x 2" nipple. {See Photo 8b}.

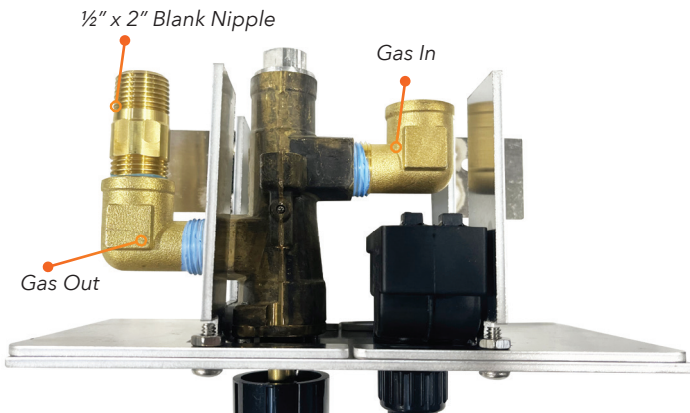


Photo 8a: Valve Assembly

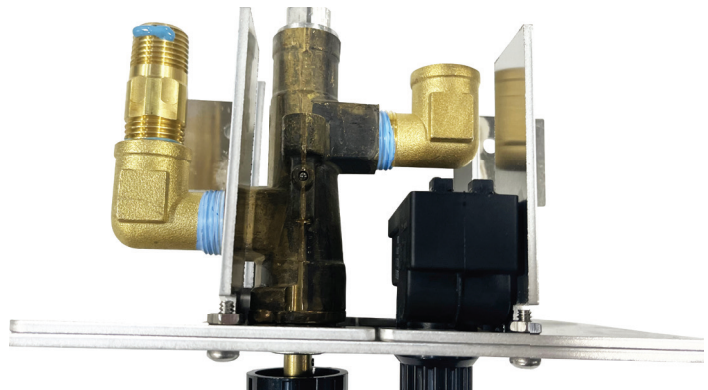


Photo 8b: Applying Joint Compound

MERCURY IGNITION SYSTEM: INSTALLATION CONTINUED

- 4.2 The Flex Line is provided with a male flare hose adapter loosely attached. Remove the flare hose adapter from the end of the Flex Line.
- 4.3 Thread the female, non-flared end, of the hose adapter on to the exposed end of the 1/2" x 2" nipple of the valve assembly "outlet". {See Photo 9}. Tighten with a wrench to avoid leaks.

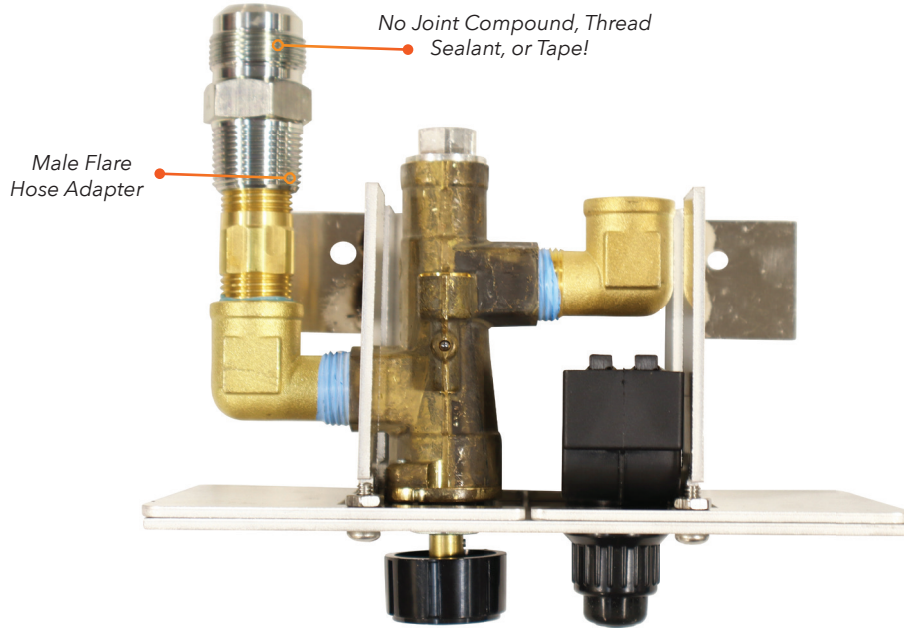


Photo 9: Attaching the Hose Adapter

- 4.4 DO NOT USE ANY JOINT COMPOUND, THREAD SEALANT, OR PLUMBING TAPE ON THE FLARED END OF FLARED FITTINGS - DOING SO CAN CAUSE LEAKS! Attach the female flared end of the Flex Line to the male flared end of the hose adapters on the Valve Assembly {See Photo 10}.

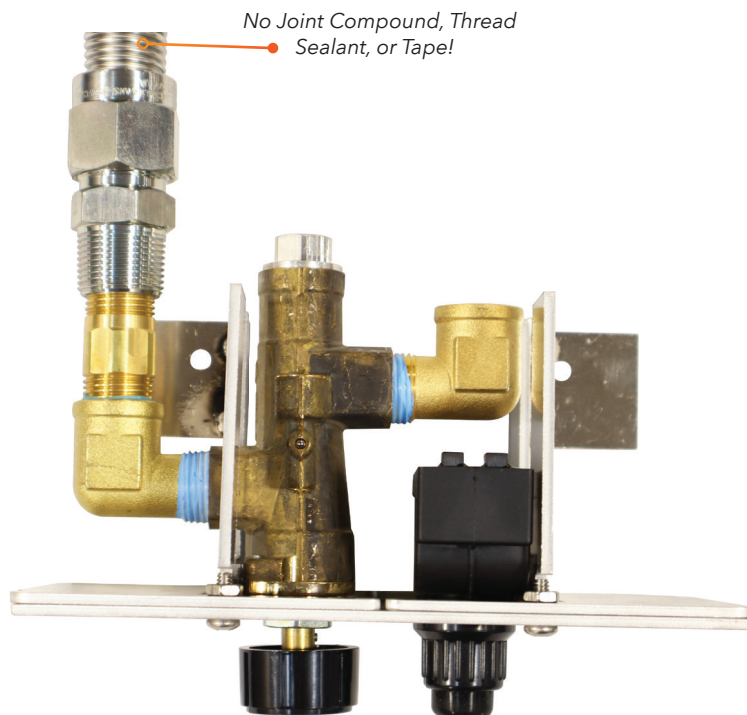


Photo 10: Connecting the Flex Line

FKM2 INSTRUCTIONS:

- 4.5 Identify the "outlet" on the Valve Assembly. The outlet should have a pre-installed $\frac{1}{2}$ " x 2" nipple attached. {See Photo 8a} Apply joint compound, thread sealant, or plumbing tape to the threads of the exposed end of the $\frac{1}{2}$ " x 2" nipple. {See Photo 8b}.
- 4.6 Apply joint compound, thread sealant, or plumbing tape to the threads of the male end of the $\frac{1}{2}$ " x 2" nipple on the Valve Assembly "outlet" and connect it to the $\frac{3}{4}$ " x $\frac{1}{2}$ " reducing bushing. Tighten with a wrench to avoid leaks. {See Photo 11a and 11b to see which threads need sealant and the assembly order}

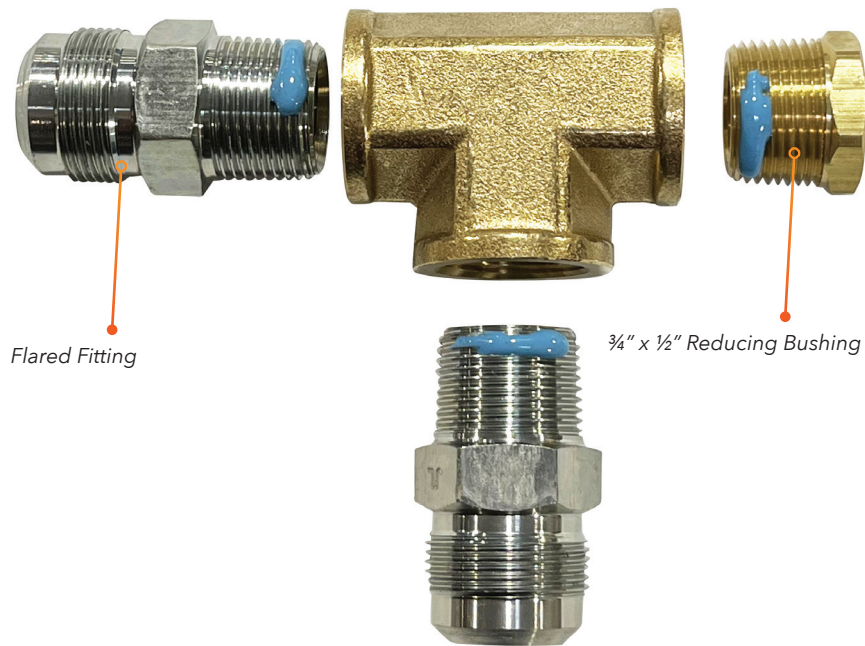


Photo 11a: Assembly Order



Photo 11b: Final Assembly Configuration

MERCURY IGNITION SYSTEM: INSTALLATION CONTINUED

- 4.7 Apply joint compound, thread sealant, or plumbing tape to the $\frac{3}{4}$ " male threads on the $\frac{3}{4}$ " x $\frac{1}{2}$ " reducing bushing and connect it to the side of the $\frac{3}{4}$ " Tee. Tighten with a wrench to avoid leaks. {See Photo 11a and 11b to see which threads need sealant and the assembly order}
- 4.8 Apply joint compound, thread sealant, or plumbing tape to the threads of the male end of two of the flared fittings. Connect the male ends to the bottom and side of the $\frac{3}{4}$ " Tee. Tighten with a wrench to avoid leaks. {See Photo 11a and 11b to see which threads need sealant and the assembly order}
- 4.9 **WITHOUT ANY THREAD SEALANT**, connect one end of each of the two Flex Lines to the flared end of each of the flared fittings extending from the $\frac{3}{4}$ " Tee. Tighten with a wrench to avoid leaks. {See Photo 12}.

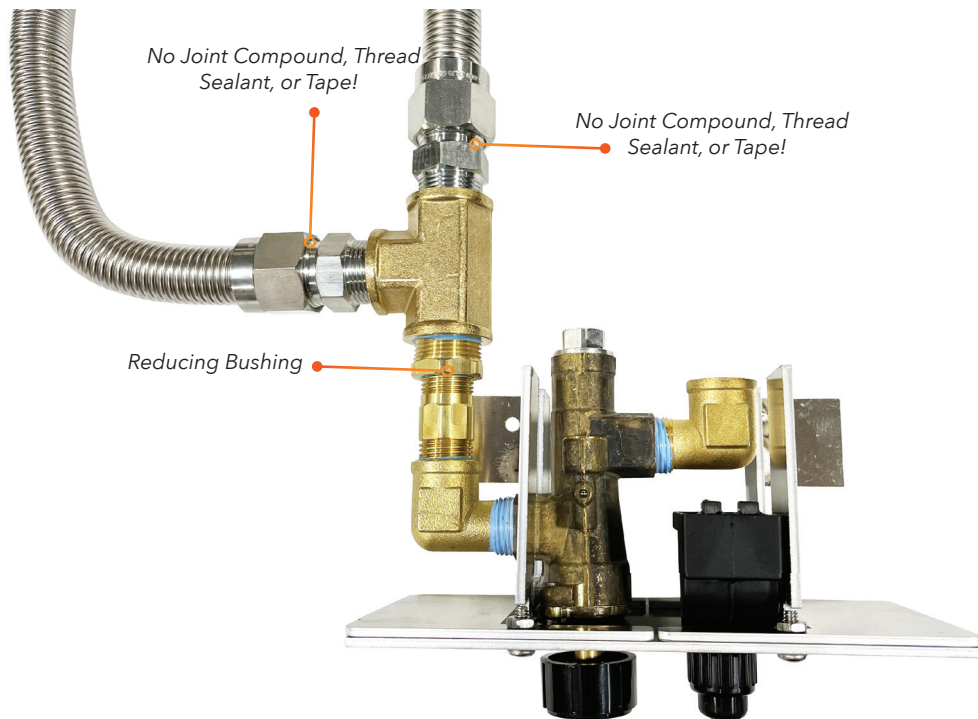


Photo 12: Final Assembly with Flex Lines Connected

5. CONNECT THE 4 PILOT CONNECTIONS TO THE VALVE ASSEMBLY

- 5.1 The Thermocouple connects to the female threaded bushing of the Valve Assembly. Thread the Thermocouple in place, tighten with a 9mm wrench, and confirm it is firmly seated. {See Photo 13}. Do not use pliers as this can put excess pressure on the connection, which could damage the thermocouple.

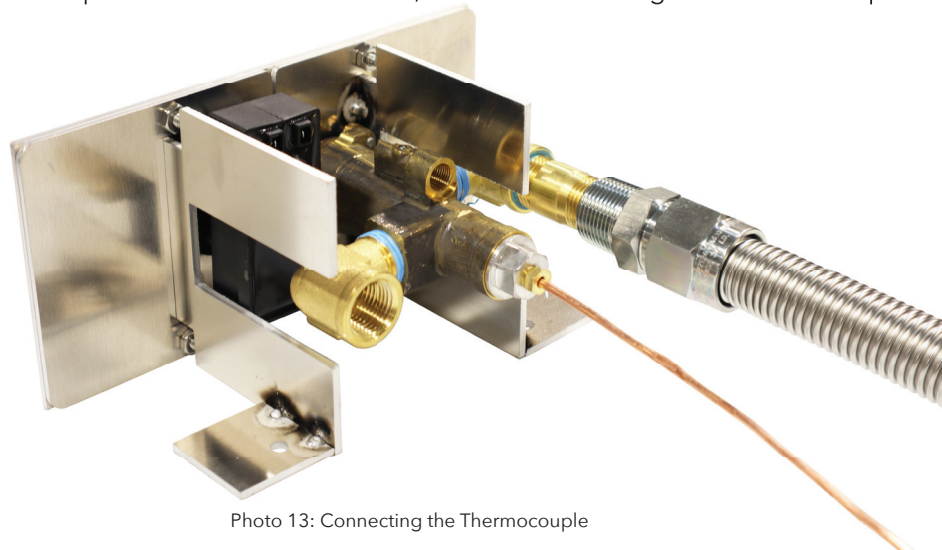


Photo 13: Connecting the Thermocouple

MERCURY IGNITION SYSTEM: INSTALLATION CONTINUED

5.2 The pilot tube connects directly above the thermocouple. Thread the pilot tube into the brass fitting integrated into the valve body that is directly above the thermocouple connection. {See Photo 14}. Tighten with a 7/16 in wrench and confirm that the pilot tube is firmly seated to avoid leaks.

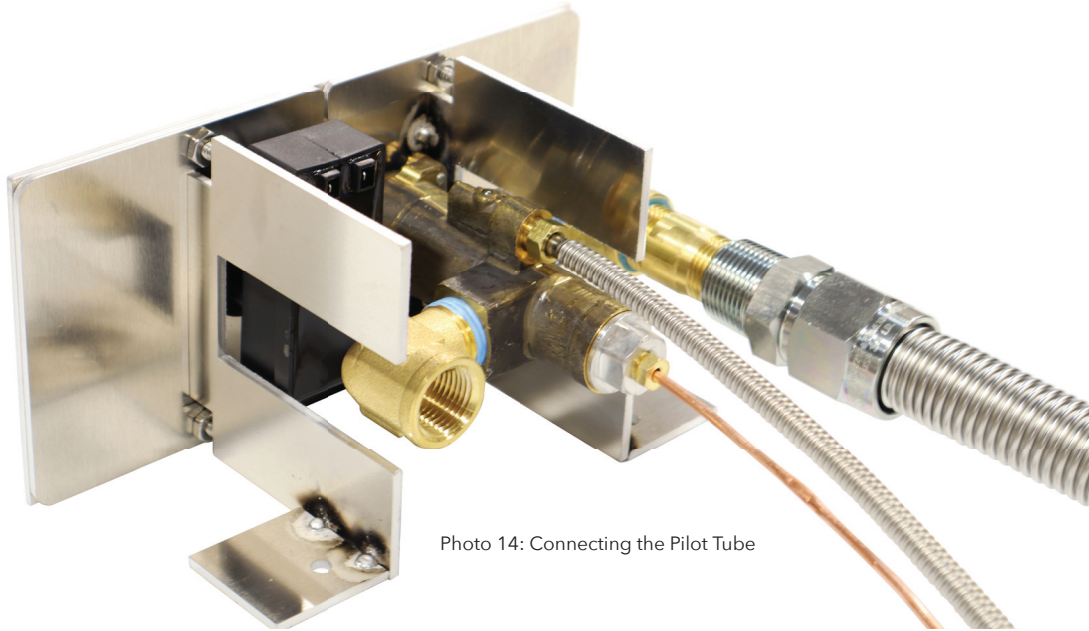


Photo 14: Connecting the Pilot Tube

5.3 Connect the loose ends of the spark generator to the push button module by the two wires within the thermal sleeve - one orange and one green. (The other ends of the wires are pre-installed to the Pilot Assembly). Push each wire firmly into one of the two (2) receptacles on the push button module, which is behind the valve inlet. {See Photo 15}. (Either wire will work in either receptacle). Confirm they are firmly secured.

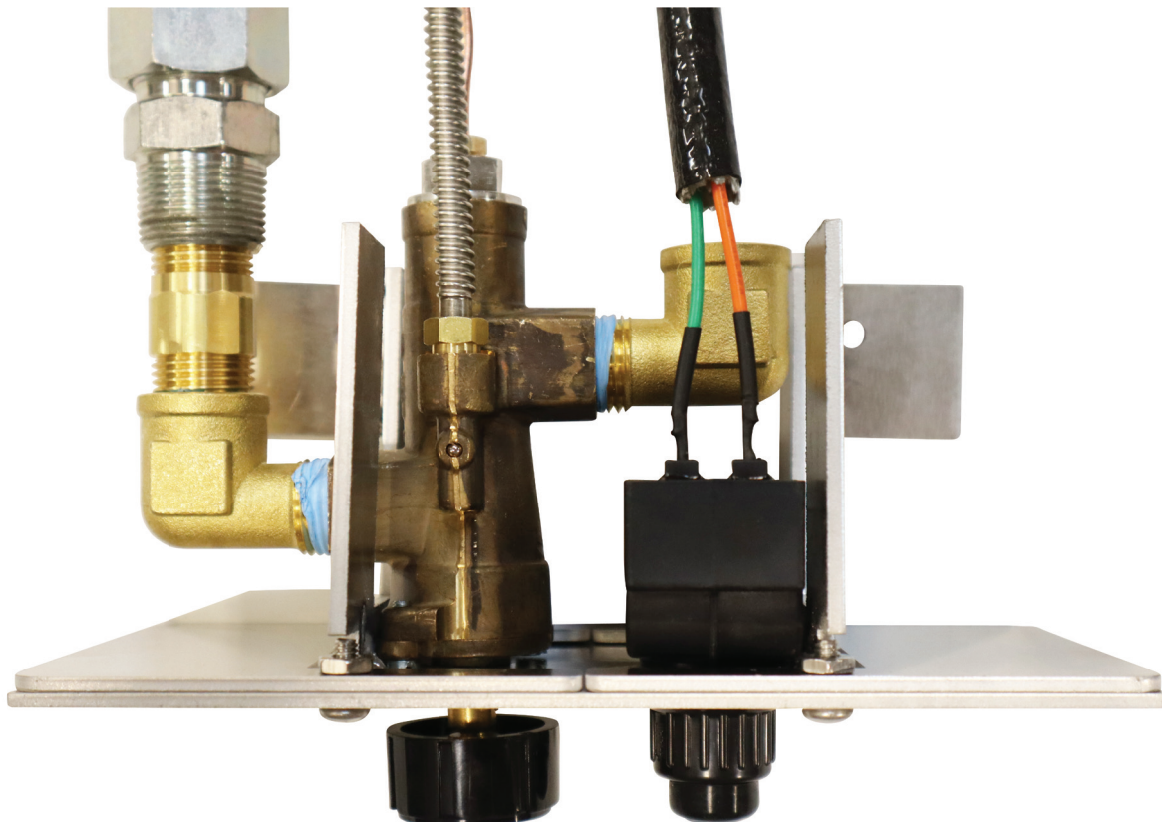


Photo 15: Connecting the Spark Generator to the Push Button Module

MERCURY IGNITION SYSTEM: INSTALLATION CONTINUED

6. CONNECTING THE FLEX LINE TO THE PLATE

FKM1 INSTRUCTIONS:



Photo 16: Attaching the 1/2" x 2" Nipple to the Plate Coupling

- 6.1 Identify the coupling under the plate. Apply joint compound, thread sealant, or plumbing tape to the threads of the exposed end of the provided 1/2" x 2" nipple and tighten to the female end of the coupling with a wrench to avoid leaks. {See Photo 16}.
- 6.2 A male flare hose adapter is loosely attached flex line. Remove the male flare hose adapter from the end of the flex line.



Photo 17: Attaching the Male Flare Hose Adapter

MERCURY IGNITION SYSTEM: INSTALLATION CONTINUED

6.3 Apply joint compound, thread sealant, or plumbing tape to the threads of the $\frac{1}{2}$ " x 2" nipple. Thread the non-flared end of the hose adapter on to the $\frac{1}{2}$ " x 2" nipple on the valve assembly "outlet". {See Photo 17}. Tighten with a wrench to avoid leaks.



Photo 18: Connecting the Flex Line

6.4 WITHOUT ANY THREAD SEALANT take the other end of the flex line attached to the valve assembly from Step 4 and attach the female flared end to the male flared end that is attached to the plate from Step 6.3. {See Photo 18}

FKM2 INSTRUCTIONS:

6.5 Identify the coupling under the plate. Apply joint compound, thread sealant, or plumbing tape to the threads of the $\frac{1}{2}$ " end of the $\frac{1}{2}$ " x $\frac{3}{4}$ " reducing fitting and tighten to the female end of the coupling with a wrench to avoid leaks. {See Photo 19a and 19b to see which threads need sealant and assembly order}.

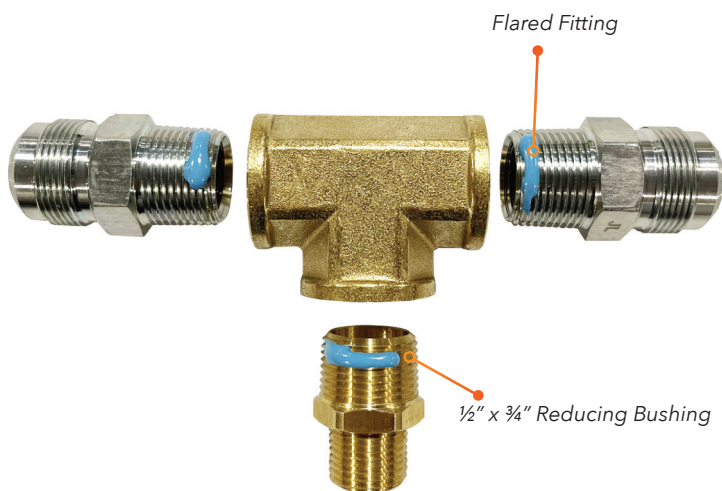


Photo 19a: Assembly Order

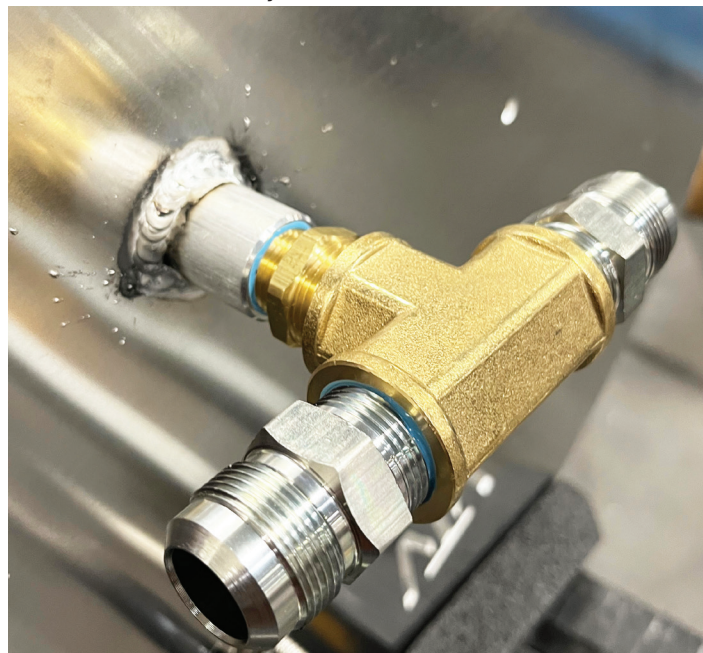


Photo 19b: Final Assembly Configuration

MERCURY IGNITION SYSTEM: INSTALLATION CONTINUED

- 6.6 Apply joint compound, thread sealant, or plumbing tape to the threads to the $\frac{3}{4}$ " end of the $\frac{1}{2}$ " x $\frac{3}{4}$ " reducing fitting and connect to the bottom of the $\frac{3}{4}$ " Tee. Tighten with a wrench to avoid leaks. {See Photo 19a and 19b to see which threads need sealant, and the assembly order}
- 6.7 A flared fitting is loosely attached to each Flex Line. Remove the flared fitting from the ends of each Flex Line.
- 6.8 Apply joint compound, thread sealant, or plumbing tape to the threads of the male end of two of the flared fittings. Connect the male ends to the two sides of the $\frac{3}{4}$ " Tee. Tighten with a wrench to avoid leaks. {See Photo 19a and 19b to see which threads need sealant, and the assembly order}.
- 6.9 **WITHOUT ANY THREAD SEALANT**, take the female flared ends of the flex lines attached to the valve assembly from Step 4 and attach to the male flared end of each of the flared fittings extending from the $\frac{3}{4}$ " Tee. Tighten with a wrench to avoid leaks. {See Photo 20}.

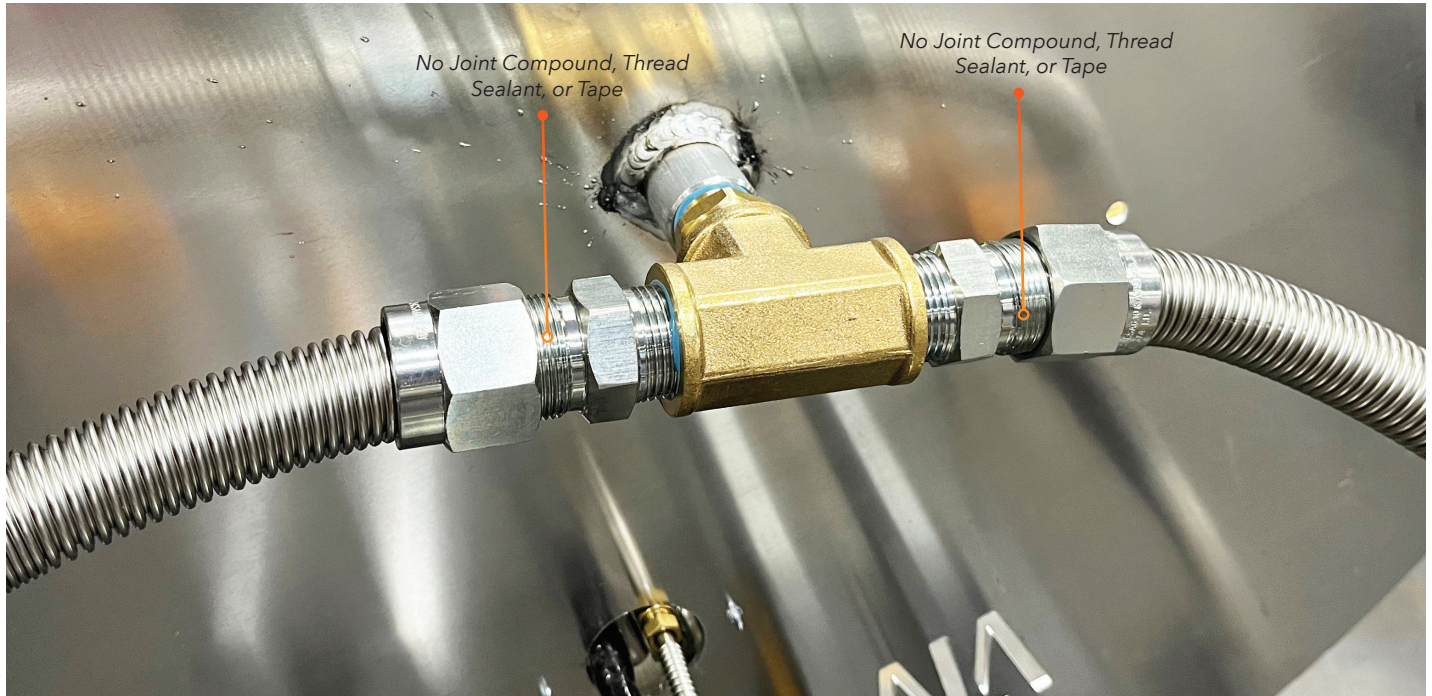


Photo 20: Connecting the Flex Lines

7. PLACE THE PLATE/PAN WITH THE ATTACHED PILOT ASSEMBLY INTO THE FIRE FEATURE.
8. PUT THE TOP OF PILOT HOOD BACK IN PLACE.
9. REFER TO THE GENERAL INSTALLATION INSTRUCTIONS FOR ALL UNITS ON PAGE 10 OF THIS INSTRUCTION MANUAL.

OPERATING INSTRUCTIONS

Keep the area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

Solid fuels shall not be burned in the fire feature. Leaves, sticks, wood, paper, clothing, food material, etc. should be kept away from the fire feature. Make sure that there is no vegetation or other objects over the top or sides of the fire feature that could interfere with safe operation. If there are any questions as to clearances, refer to CLEARANCE DIAGRAM on page 9 in your Installation User Guide for specific clearance allowances.

Wind and gusty conditions may cause the flame to behave in an unpredictable manner. If conditions exist, turn off the fire feature.

All media (lava rock, volcanic stone, fire glass, etc.) has the potential of thermal spalling. This process may occur when media is wet and moisture gets trapped inside of the material due to rapid temperature differences. When this happens, the media has the potential to crack or pop outside of the fireplace. Extra caution should be taken when lighting in high humidity or moisture. After igniting, allow 30 minutes to dry out the media and monitor from a distance until all popping has ceased before fully enjoying the fire.

LIGHTING INSTRUCTIONS: MERCURY IGNITION SYSTEM

STOP! READ ALL THE SAFETY INFORMATION. IGNITING YOUR MERCURY IGNITION SYSTEM

1. Confirm that your Natural Gas or Liquid Propane supply to the appliance is OPEN or ON.
2. Press **Control Knob** and turn to the **Pilot** position.
3. Fully depress the **Control Knob**. Simultaneously, press the **Ignition** button until a flame appears.
4. Once pilot is lit, release the **Ignition** button. Continue to depress **Control Knob** for 45 seconds. Pilot should remain lit.
5. Once the pilot is lit, press **Control Knob** in and turn counterclockwise to achieve desired flame height.
6. If burner does not light, turn **Control Knob** to the OFF position. Wait 3-5 minutes before repeating lighting instructions.

TURNING OFF YOUR MERCURY IGNITION SYSTEM

1. Press **Control Knob** in and turn to OFF position and verify flame is out.
2. If using a LP tank, be sure to turn tank to CLOSED position.

REPLACING THE BATTERY


If your Mercury Ignition System™ is not lighting, you may need to replace the battery.


To replace the battery in your Mercury Ignition System:

1. Turn battery cover counterclockwise to remove cover and set aside.
2. Remove the expired AA Battery and replace with a new AA battery.
3. Replace the battery cover and turn clockwise to tighten.


WARNING LABEL


The following label has been provided with the appliance. Affix the label in a conspicuous location adjacent to the appliance.

 **WARNING:** Improper installation, adjustment alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Refer to the owner's user guide provided with this appliance. Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

 **WARNING:** Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliances.

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other

 **AVERTISSEMENT:** Une installation, un ajustement, une modification, une réparation ou un entretien inapproprié peuvent être la cause de blessures ou de dommages. Veuillez lire attentivement les instructions d'installation, d'utilisation et d'entretien avant d'installer ou de réparer ce matériel.

 **AVERTISSEMENT:** Ne pas entreposer ni utiliser de l'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de l'appareil, ni de tout autre appareil.

MEDIA INSTALLATION

Only use approved decorative media (glass, lava rock, ceramic log sets, steel log sets, etc.) that have been manufactured for specific use in outdoor fire features.

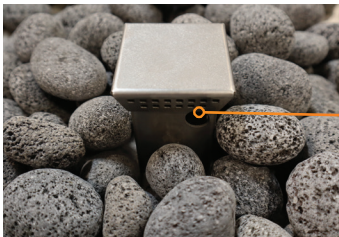
Media must be ½" or larger in size to prevent media from falling into gas orifices and blocking flow of gas out of jets. Use approved media only. **To avoid media dust or debris from getting into the system, do not dump the media over the burner.** Place the media onto the plate or pan.

The appliance is designed to use approved media that is correctly installed over the burner to achieve proper combustion. Use of any media outside of the approved media may void warranty and affect proper operations.

Burner may be covered by approved media up to ½" above the jets. PLEASE NOTE - Covering jets by more than ½" of media may create back pressure and gas leakage resulting in pooling of gas under the fire feature which can result in explosion which could cause property damage, personal injury, or death.

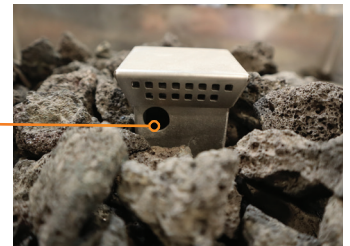
Media should be piled no more than halfway up the pilot of assembly so that pilot gas orifice opening and the pilot cooling holes are above the media allowing for pilot flame to easily reach gas jet orifice. Incorrect media installation that blocks pilot cooling holes will cause the pilot flame to stifle, blocking of thermal sensor and/or a delay in burner ignition. (See pictures below for examples of proper installation heights.)

For Ceramic Log Sets: Place logs on top of lava rock or media base according to preference and desired flame pattern. Do not block, cover, or obstruct the pilot assembly. Blocking, covering, or placing ceramic logs too close to the pilot assembly may cause excessive heat on pilot causing system to fail. This is not covered under warranty.



Examples of proper media height on pilot assembly.

Pilot Cooling Holes
1 1/2"



GENERAL MAINTENANCE

Any guard or protective device removed for servicing must be replaced prior to operating the appliance.

Installation and repair should be done by a qualified technician. Appliances should be inspected prior to each use and inspected at least once annually by a qualified gas appliance service professional.

Ensure gas and power (if applicable) are shut off and fire feature is cool before servicing.

Keep fire feature covered at all times when not in use.

Keep any debris out of appliance - clean as needed. If debris is found, remove before lighting system.

We strongly recommend covering your fire feature when not in use to protect your investment. Other than units that are equipped with a WATERSTOP, all fire features must be covered when not in use or any applicable ignition system warranty is null and void.

JET ORIFICE CLEANING

Annual inspection and cleaning of the fire feature is recommended. If at any time the flames exhibit any abnormal shapes or behavior or if burner fails to ignite properly, the holes located in the base of the gas jet orifices may require cleaning. 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. Periodical inspection by a qualified service technician of the air-intake on the side of the jet is recommended to ensure your fire feature performs properly.

If a jet is clogged, use a wire or small puncture tool and carefully insert in jet. Tool should be the size of a small paper clip.

SEMI-ANNUALLY

Every six months, or as needed, remove media, lava rock, or glass from around the pilot assembly. Clean the thermocouple of any soot using a soft brush. Be careful not to damage the igniter element. Be sure when returning your media to the feature to avoid over covering the jets or the pilot assembly as detailed on page 23.

If the gas is not consistently flowing from the pilot gas orifice, it should also be cleaned. Remove the wind cage cap and clean the opening on the side of the orifice of any debris or soot that may be obstructing gas flow from the pilot gas orifice. Replace the wind cage cap when done.

WARNING:

Fire feature should be inspected by user prior to each use and inspected at least once annually by a qualified gas appliance service professional.

TROUBLESHOOTING

IGNITION SYSTEMS

Below are some potential causes and countermeasures to the symptoms.

- **NO PILOT FLAME - PILOT SPARKS BUT PILOT WON'T LIGHT**
 - **AIR IN THE GAS LINE** - *If this is a new install, it may take several attempts to purge the air.*
 - **DEBRIS IS IN THE GAS LINE** - *Clear the gas line.*
 - **WATER/MOISTURE IS IN THE GAS LINE** - *Clear the gas line.*
 - **INCORRECT GAS PRESSURE** - *Confirm proper gas pressure.*
 - **PILOT GAS ORIFICE IS DIRTY** - *Remove the pilot head and clean.*
 - *Wind conditions might be too severe.*
- **PILOT LIGHTS BUT BURNER WILL NOT LIGHT**
 - **GAS PRESSURE IS INCORRECT** - *Confirm proper gas pressure.*
 - **SMALL PILOT FLAME** - *Remove the pilot head and clean pilot gas orifice.*
 - **DIRTY THERMAL SENSOR** - *Clean using soft brush.*
 - **CROSSFIRE® BURNER HAS AN OBSTRUCTION** - *Confirm there is no debris blocking gas orifice jets in burner, purge water and air from gas lines or in the burner, and confirm there is no debris in gas lines.*

• **BURNER TURNING OFF UNEXPECTEDLY**

- **IMPROPERLY APPLIED MEDIA** - Make sure your media is not covering the pilot assembly and that your logs are not placed over or too near the wind cage.
- **GAS PRESSURE IS INCORRECT** - Confirm proper gas pressure by checking at the gas stub to the feature and the Gas Inlet Pressure.
- **WIND CONDITIONS** - Confirm the burner is properly located 4 - 6" inside the feature, and be sure the wind conditions are not too severe for safe use.

• **FIRE FEATURE IS MAKING A WHISTLING SOUND**

- **FLEX LINE ISSUE** - Confirm the correct size flex line is installed and there are no kinks or tight bends in the line.
- **GAS PRESSURE IS IN CORRECT** - If the whistling is coming from the jets, confirm the gas pressure is within the ranges recommended on the Gas Pressure Inlet chart provided on page 6. Adjust as needed.

Please contact your retailer or certified technician for service and repair if these suggestions do not solve the issue. If replacement parts are required – contact your retailer or licensed technician for authorized replacement parts. Warranty is null and void if unauthorized parts are used.

WARRANTY

FULL LIFETIME WARRANTY FOR CROSSFIRE® BURNERS

Warming Trends warrants that each Warming Trends® CROSSFIRE® and other jetted-flame-brass burners sold through Warming Trends' distribution network (each as "Burner") is free from defects in materials and workmanship and conforms to its specifications, which are available upon request.

We offer a lifetime, full warranty for our Burners, regardless of ownership, beginning on the date of purchase ("Warranty Period"). This warranty is transferable, but we reserve the right to require proof of ownership for any transferred burners including proof that the Burner was not acquired through improper means or unauthorized resellers. During the Warranty Period, Warming Trends provides repair and exchange services for the Burners, without charge. If a Burner does not function as warranted during the Warranty Period and, after a reasonable number of attempts, Warming Trends is unable to either:

1) make it do so or 2) replace it with one that is at least functionally equivalent, you may return it to Warming Trends and your money will be refunded. The warranty stated above will not apply to the extent that there has been misuse or use contrary to specifications or the appropriate user or operating manual, installation defect, accident, modification, unsuitable physical or operating environment, operation in other than the specified operating environment (e.g., outdoor burners should only be used outdoors) improper maintenance by you, or failure caused by a product for which Warming Trends is not responsible. With respect to Burners, the warranty is voided by removal or alteration of any identification labels or marks on any Burner or part. Any use of unapproved fuels and/or combustible materials will void all warranties.

ITEMS NOT COVERED BY FULL WARRANTY FOR BURNERS

OTHER THAN AS EXPRESSLY STATED ABOVE, WARMING TRENDS DOES NOT WARRANT UNINTERRUPTED OR ERROR-FREE OPERATION OF ANY BURNER, OR THAT WARMING TRENDS WILL CORRECT ALL DEFECTS.

This warranty is specific to Burners and does not apply to any other product sold by Warming Trends, which may be covered by separate warranties with different terms. Warming Trends does not warrant any services related to our Burners, including installation, unless we provided those services to you. You may have warranty rights from the service provider, but we make no representations or warranties express or implied regarding any third-party service provider and our warranties do not apply to failures caused by their work.

IGNITION SYSTEMS WARRANTIES

RESIDENTIAL INSTALLATIONS

Platinum Ignition Systems™ are warranted for three (3) years from date of purchase, when installed on a Warming Trends plate or pan and with listed CROSSFIRE® burners as set forth as Certified with Platinum Ignition Systems in the Platinum Ignition System Instruction Manual or as otherwise approved by Warming Trends, in writing, prior to sale. In the event a Platinum Ignition System must be replaced due to a defect or malfunction of the system, Warming Trends® will repair or replace the system at no cost for the first three (3) years. This warranty does not cover labor costs and will be automatically voided if the ignition system is installed or used with a non-specified burner, accessories or recommended plate or pan, and cover.

24VIK and 3VIK systems are warranted for one (1) year from the date of purchase and, thereafter, are covered by a

limited warranty for two (2) years from date of purchase. In the event a 24VIK or 3VIK system must be replaced due to a defect or malfunction of the system, Warming Trends® will repair or replace the system at no cost for the first year. In the event a 24VIK or 3VIK system fails after the first year from date of purchase and within two years from date of purchase, Warming Trends will repair or replace the system for a cost of 50% of the current list price. This warranty does not cover labor costs.

P24VIK Systems are warranted for three (3) years from date of purchase. In the event a system must be replaced due to a defect or malfunction of the system, Warming Trends will repair or replace the system at no cost for the first three (3) years. This warranty does not cover labor costs.

Mercury Ignition Systems‡ are warranted for three (3) years from date of purchase, when installed on a Warming Trends plate or pan and with listed CROSSFIRE® burners as set forth as Certified with Mercury Ignitions in the Mercury Ignition Instruction Manual or as otherwise approved by Warming Trends, in writing, prior to sale. In the event a Mercury Ignition system must be replaced due to a defect or malfunction of the system, Warming Trends will repair or replace the system at no cost for the first three years.

This warranty does not cover labor costs and will be automatically voided if the ignition system is installed or used with a non-specified burner, accessories or recommended plate or pan, and cover.

Push Button Ignition Systems are warranted for one (1) year from date of purchase. In the event a Push Button Ignition System must be replaced due to a defect or malfunction of the system, Warming Trends will repair or replace the system at no cost. This warranty does not cover labor costs and will be automatically voided if the ignition system is installed or used with a non-specified burner, accessories or recommended plate or pan, and cover.

COMMERCIAL INSTALLATIONS

Platinum Ignition Systems™ are warranted for one (1) year from date of purchase, when installed on a Warming Trends plate or pan and with listed CROSSFIRE® burners as set forth as Certified with Platinum Ignition Systems in the Platinum Ignition System Instruction Manual or as otherwise approved by Warming Trends, in writing, prior to sale. In the event a Platinum Ignition System must be replaced due to a defect or malfunction of the system, Warming Trends will repair or replace the system at no cost. This warranty does not cover labor costs and will be automatically voided if the ignition system is installed or used with a non-specified burner, accessories or recommended plate or pan, and cover.

24VIK, 3VIK, and P24VIK systems are warranted for one (1) year from date of purchase. In the event a 24VIK, 3VIK, or P24VIK system must be replaced due to a defect or malfunction of the system, Warming Trends will repair or replace the system at no cost. This warranty does not cover labor costs.

Mercury Ignition Systems™ are warranted for one (1) year from date of purchase, when installed on a Warming Trends plate or pan and with listed CROSSFIRE® burners as set forth as Certified with Mercury Ignitions in the Mercury Ignition Manual or as otherwise approved by Warming Trends, in writing, prior to sale. In the event a Mercury Ignition system must be replaced due to a defect or malfunction of the system, Warming Trends will repair or replace the system at no cost for the first year. This warranty does not cover labor costs and will be automatically voided if the ignition system is installed or used with a non-specified burner, accessories or recommended plate or pan, and cover.

Push Button Ignition Systems are warranted for six (6) months from date of purchase. In the event a Push Button Ignition System must be replaced due to a defect or malfunction of the system, Warming Trends will repair or replace the system at no cost. This warranty does not cover labor costs and will be automatically voided if the ignition system is installed or used with a non-specified burner, accessories or recommended plate or pan, and cover.

ITEMS NOT COVERED BY WARRANTIES FOR IGNITION SYSTEMS

Warming Trends does not warrant any services related to our Electronic and Manual Ignition Systems, including, without limitation, installation, unless we provided those services to you. You may have warranty rights from the service provider, but we make no representations or warranties express or implied regarding any third-party service provider and our warranties do not apply to failures caused by their work.

Problems or defects in the functioning of the systems due to gas plumbing or electrical installed by others are not covered by any warranty offered by Warming Trends.

DISCLAIMER OF ADDITIONAL WARRANTIES

OTHER THAN THE SPECIFIC WARRANTIES SET FORTH IN THIS WARRANTY POLICY, WARMING TRENDS MAKES NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO ITS BURNERS OR IGNITION SYSTEMS, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

No dealer, distributor, or other person has the authority to represent or warrant a Warming Trends product beyond the

terms contained within this warranty, and Warming Trends assumes no liability for such warranty representations. Any questions concerning this warranty should be directed to the Warming Trends corporate office or via email to legal@warming-trends.com.

ADDITIONAL TERMS AND CONDITIONS

WE STRONGLY RECOMMEND COVERING YOUR FIRE FEATURE WHEN NOT IN USE TO PROTECT YOUR INVESTMENT. OTHER THAN UNITS EQUIPPED WITH A WATERSTOP, ALL BURNERS AND ELECTRONICS MUST BE COVERED WHEN NOT IN USE OR ANY APPLICABLE IGNITION SYSTEM WARRANTY IS NULL AND VOID. IGNITION SYSTEMS MAY NOT BE SUBMERGED UNDER WATER OR ANY OTHER LIQUID UNDER ANY CIRCUMSTANCES, AND ANY SUCH SUBMERSSION SHALL VOID ANY AND ALL APPLICABLE IGNITION SYSTEM WARRANTIES.

While some of our warranties are passed-through or provided in cooperation with affiliates and/or third parties, Warming Trends will honor the warranties contained in this Warranty Policy for all products purchased from us, but we may coordinate internally with the necessary third parties in order to do so.

PROP 65 WARNING



WARNING: This product can expose you to chemicals including nickel, which is known to the State of California to cause cancer, carbon monoxide and Bisphenol A, which are known to the State of California to cause birth defects or other reproductive harm, and lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

RETURN POLICY

RETURNS

We hope that you truly enjoy your Warming Trends purchase. If you are not satisfied, we accept product returns for thirty (30) days of date of purchase, subject to the conditions below.

We only accept returns for products purchased directly from Warming Trends. Proof of Purchase from Warming Trends is required. For products purchased elsewhere, please contact that business regarding your return.

Please email your request for return together with the Proof of Purchase to Orders@Warming-Trends.com Upon receipt of your request, we will email you our return address. All returns must be shipped by the customer to Warming Trends at the customer's expense and risk of loss.

Upon receipt of your return, we will process it within 7-10 business days. Depending on your bank's processing time, it may take up to 10 days after we process the return to reflect on your account.

HOLIDAY SEASON RETURNS

Purchases made between December 1st and December 24th may be returned for forty-five (45) days from the date of purchase, subject to the conditions below.

DAMAGED, DEFECTIVE, OR INCORRECT ITEMS

Once you receive your order, you have seven (7) days to open and inspect the product(s). If anything is missing or damaged, or not what you ordered, please contact us at Orders@Warming-Trends.com with photos/videos of the issue. One of our team members will reach out to assist you with a return/replacement.

LIKE-NEW CONDITION

Items must be in like-new condition upon our receipt. Items that are damaged, unsanitary, dented, scratched, or missing parts will not be accepted for return.

CONTACT US

Replacement Parts, Questions, or Need Assistance? Our team is happy to help.

Call our Flame Specialists at (303) 346-2224 or email us at Orders@Warming-Trends.com.

For more information about Warming Trends products, please visit us at www.Warming-Trends.com.

WARMING TRENDS®

MERCURY IGNITION SYSTEM OWNER'S GUIDE AND INSTRUCTION MANUAL



THANK YOU FOR YOUR PURCHASE!

Version 4.1

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SCAN TO SEE AN UPDATED
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