WARMING TRENDS®

OUTDOOR FIREPLACE COLLECTION OWNER'S GUIDE AND INSTRUCTION MANUAL

THANK YOU FOR YOUR PURCHASE!

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WARMING-TRENDS.COM

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www.warming-trends.com/patents

SCAN TO SEE AN UPDATED
ICC-ES LIST

Version 2

IMPORTANT PRODUCT WARNINGS / AVERTISSEMENTS IMPORTANTS CONCERNANT LES PRODUITS

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.

DANGER
RISQUE D'INCENDIE OU D'EXPLOSION
S'il y a une odeur de gaz :
Coupez l'admission de gaz de l'arrareil.
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.

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.

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.

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

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.

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

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!

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.

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 entrainer la mort.

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

Do not use this appliance if it has been submerged, even partially, in water. Call a qualified technician to inspect the unit and replace any part of the control system and any control which has been under water.

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.

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

INSTALLATEUR: Laissez ce manuel ave l'appliance
CONSOMMATEUR: Conserves ce manuel pour référence ultérieure.

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CERTIFIED BURNER SYSTEM UNITS

ICC ES PMG | ICC ES | ICC ES LISTED

ICC-ES Report PMG-1213

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*

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

PBIK

Model # CFBT110 NG/LP with PBIK
Model # CFBT170 NG/LP with PBIK
Model # CFBT230 NG/LP with PBIK
Model # CFBT290 NG/LP with PBIK
Model # CFBH120 NG/LP with PBIK
Model # CFBH160 NG/LP with PBIK
Model # CFBH240 NG/LP with PBIK

MERCURY IGNITION SYSTEM™

Model # CFBT110 NG/LP with Mercury
Model # CFBT170 NG/LP with Mercury
Model # CFBT230 NG/LP with Mercury
Model # CFBT290 NG/LP with Mercury
Model # CFBH120 NG/LP with Mercury
Model # CFBH160 NG/LP with Mercury
Model # CFBH240 NG/LP with Mercury

PLATINUM IGNITION SYSTEM™

Model # CFBT110 NG/LP with Platinum
Model # CFBT170 NG/LP with Platinum
Model # CFBT230 NG/LP with Platinum
Model # CFBT290 NG/LP with Platinum
Model # CFBH120 NG/LP with Platinum
Model # CFBH160 NG/LP with Platinum
Model # CFBH240 NG/LP with Platinum

CERTIFIED UNITS

SCAN FOR UPDATED CERTIFICATIONS

PATENTS

SCAN FOR UPDATED PATENTS

GENERAL INFORMATION

This Owner's Guide and Instruction Manual contains critical information for the safe assembly and operation of your Outdoor Fireplace Insert Kit. **You must read this manual in its entirety prior to assembly and/or operation. Failure to follow these instructions may result in property damage, personal injury, or death.** Instructions are updated as needed, and it is the owners' responsibility to periodically review Warming Trend's website for applicable updates (Warming-Trends.com) Please keep this manual with your important papers.

WARNING: THE OUTDOOR FIREPLACE INSERT KIT WILL BECOME EXTREMELY HOT WHEN IN USE.

HOT! DO NOT TOUCH.

SEVERE BURNS MAY RESULT.

CLOTHING IGNITION MAY RESULT.

- **Keep the unit out of reach of children.**
- **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.**
- **Never leave the unit unattended while in use.**

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 place any objects inside the burner component or add wood or other materials to the fire. Do not put any combustible materials into the fire table.

WARNING:
Only use the fuel specific to your burner unit (i.e. Liquid Propane or Natural Gas, as applicable). Do not use LP for NG burners, or vice versa.
Do not use an alternative fuel.

WARNING:

CARBON MONOXIDE HAZARD

- This burner is a combustion appliance, and all such appliances generate Carbon Monoxide (CO) during the combustion process. It is important to ensure that there is adequate airflow into and out of the appliance.
- Carbon Monoxide (CO) poisoning can cause flu-like symptoms, such as headaches, dizziness, fatigue, nausea, watery eyes, and can even lead to death. Carbon Monoxide gas is both odorless and invisible, making it a potentially lethal threat. If any of these symptoms occur during the operation of this appliance, move to a well-ventilated area immediately.
- **FOR OUTDOOR USE ONLY! Never use this appliance indoors, in a house, camper, tent, vehicle, or any other enclosed space. This appliance consumes oxygen from the air, and using it in an unventilated or enclosed area can put you and others at risk of asphyxiation.**

WARNING:

DO NOT USE IN THE PRESENCE OF COMBUSTIBLE MATERIALS.

Do not leave the appliance unattended while it's in use, and operate it in a safe area away from anything that could ignite in the presence of combustible materials, such as paper, cardboard, gasoline, or other flammable liquids or powders.

CODE REQUIREMENTS

We require our products be installed by a professional that is locally licensed by the authority having jurisdiction in gas piping. It is the responsibility of the installer to consult with the local municipality and to **FOLLOW ALL LOCAL CODES** and Fireplace Manufacturer recommendations and specifications concerning the installation and operation of the Outdoor Fireplace Insert Kits.

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.

The appliance when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70; or the Canadian Electrical Code, CSA C22.1, if applicable.

MINIMUM AND MAXIMUM GAS INLET PRESSURES

The licensed gas professional installer is responsible for using the correct fuel lines and/or regulation to provide gas to the Outdoor Fireplace Insert Kit within the specified minimum and maximum gas inlet pressures below:

PBIK	MINIMUM GAS INLET PRESSURE	MAXIMUM GAS INLET PRESSURE
Natural Gas	3.5" W.C. (.8718 Kpa)	7.0" W.C. (1.7436 Kpa)
Liquid Propane	11.0" W.C. (2.7399 Kpa)	13.0" W.C. (3.2381 Kpa)
MERCURY IGNITION SYSTEM™	**MINIMUM GAS INLET PRESSURE**	**MAXIMUM GAS INLET PRESSURE**
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)
PLATINUM IGNITION SYSTEM™	**MINIMUM GAS INLET PRESSURE**	**MAXIMUM GAS INLET PRESSURE**
Natural Gas	3.5" W.C. (.8718 Kpa)	14.0" W.C. (3.4872 Kpa)

LOCATION CONSIDERATIONS

The Outdoor Fireplace Collection is designed and intended for outdoor use only.

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 shutoff procedure.

Pick a location that allows sufficient horizontal room to enjoy the appliance while allowing a safe distance from the heat and flame.

Keep the area around the appliance clear of combustible materials, gasoline, and other flammable substances. Do not burn solid fuels in this appliance.

Choose a location that allows easy access to the fireplace.

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

OPTIONAL IGNITION UPGRADE INSTALLATION

If you purchased your Outdoor Fireplace Kit with a PBIK Ignition System and would like to upgrade to a Mercury Ignition System™ or a Platinum Ignition System™, please contact Orders@Warming-Trends.com or call 303-346-2224. If you opt to upgrade your ignition, we require a licensed gas professional follow the Installation Instructions linked below.

SCAN FOR **PLATINUM IGNITION SYSTEM** INSTALLATION INSTRUCTIONS

SCAN FOR **MERCURY IGNITION SYSTEM** INSTALLATION INSTRUCTIONS

OUTDOOR FIREPLACE KITS

104369 / 104370 Kit Shown

INCLUDED IN EACH OUTDOOR FIREPLACE KIT

1. CROSS**FIRE**® Brass Burner strapped to an elevated black powder-coated aluminum plate
2. Steel Grate
3. Push Button Ignition Kit: PBIK Ignition, 3" Key, 12" Key, 65K Reducing Orifice, 90K Reducing Orifice, and Flex Line Kit (Available ignition upgrades: Mercury or Platinum Ignition Systems™)
4. 8" Key Valve Extension

TECH TIP

Some commercially available enclosures are restricted to a maximum of 90K BTUs. If you need to restrict your fireplace kit to 90K BTUs, please utilize the 90K Reducing Orifice. If local or state regulations require a maximum of 65K BTUs, please use the 65K Reducing Orifice.

LP Reducing Orifices have been sized at 11" Water Column. NP Reducing Orifices have been sized at 7" Water Column. If you need to adjust, please scan the following QR Code:

FITS A 24" FIREPLACE OPENING OR LARGER

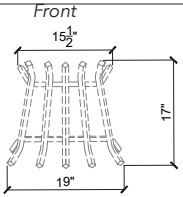
104694 (NG) | 104695 (LP)

CFBH120 H-Style Brass Burner
15 ½" x 9 ¾" Elevated Powder-Coated Aluminum Plate
19" W x 17" D Steel Fireplace Grate
Push Button Ignition Kit

104696 (NG) | 104697 (LP)

CFBT110 Tree-Style Brass Burner
15 ½" x 9 ¾" Elevated Powder-Coated Aluminum Plate
19" x 17" D Steel Fireplace Grate
Push Button Ignition Kit

Front



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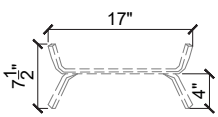


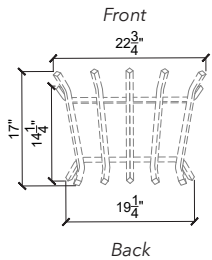
FITS A 30" FIREPLACE OPENING OR LARGER

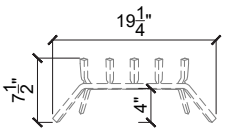
104355 (NG) | 104356 (LP)

CFBH120 H-Style Brass Burner
15 ½" x 9 ¾" Elevated Powder-Coated Aluminum Plate
22 ¾" W x 17" D Steel Fireplace Grate
Push Button Ignition Kit

104357 (NG) | 104358 (LP)

CFBT110 Tree-Style Brass Burner
15 ½" x 9 ¾" Elevated Powder-Coated Aluminum Plate
22 ¾" x 17" D Steel Fireplace Grate
Push Button Ignition Kit





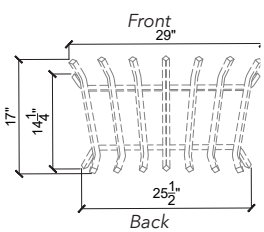
FITS A 36" FIREPLACE OPENING OR LARGER

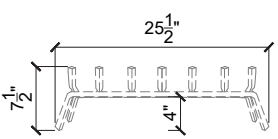
104359 (NG) | 104360 (LP)

CFBH160 H-Style Brass Burner
21 ½" x 9 ¾" Elevated Powder-Coated Aluminum Plate
29" W x 17" D Steel Fireplace Grate
Push Button Ignition Kit

104361 (NG) | 104362 (LP)

CFBT170 Tree-Style Brass Burner
21 ½" x 9 ¾" Raised, Powder-Coated Aluminum Plate
29" W x 17" D Steel Fireplace Grate
Push Button Ignition Kit





FITS A 42" FIREPLACE OPENING OR LARGER

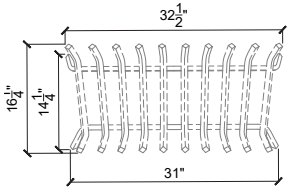
104363 (NG) | 104364 (LP)

CFBH200 H-Style Brass Burner
27" x 10 ½" Elevated Powder-Coated Aluminum Plate
32 ½" W x 17" D Steel Fireplace Grate
Push Button Ignition Kit

104365 (NG) | 104366 (LP)

CFBT230 Tree-Style Brass Burner
27" x 10 ½" Elevated Powder-Coated Aluminum Plate
32 ½" W x 17" D Steel Fireplace Grate
Push Button Ignition Kit

Front



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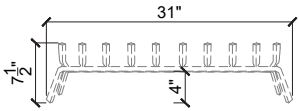


FITS A 48" FIREPLACE OPENING OR LARGER

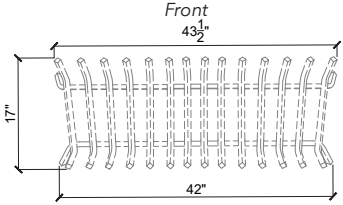
104367 (NG) | 104368 (LP)

CFBH240 H-Style Brass Burner
34 ¾" x10 ½" Elevated Powder-Coated Aluminum Plate
43 ½" W x 17" D Steel Fireplace Grate
Push Button Ignition Kit

104369 (NG) | 104370 (LP)

CFBT290 Tree-Style Brass Burner
34 ¾" x10 ½" Elevated Powder-Coated Aluminum Plate
43 ½" W x 17" D Steel Fireplace Grate
Push Button Ignition Kit

Front



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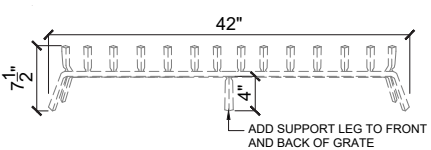
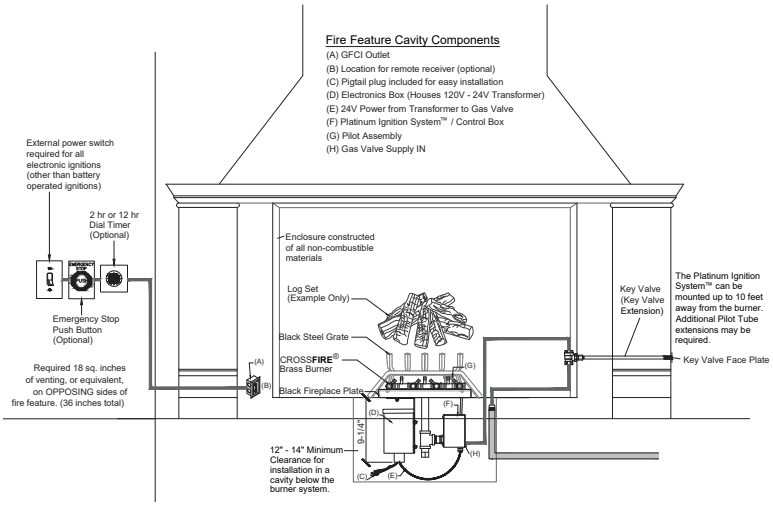


PBIK AND PLATINUM IGNITION SYSTEM

Never use your Outdoor Fireplace Kit on a combustible surface. Refer to Fireplace Manufacturer recommendations and specifications or licensed gas professional for clearance requirements.

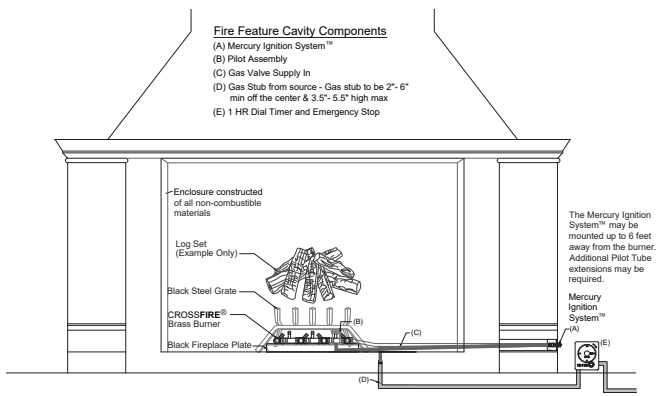
Always consult with local municipality regarding any local code requirements.



MERCURY IGNITION SYSTEM

Never use your Outdoor Fireplace Kit on a combustible surface. Refer to Fireplace Manufacturer recommendations and specifications or licensed gas professional for clearance requirements.

Always consult with local municipality regarding any local code requirements.



IF YOU ARE PLACING AN OUTDOOR FIREPLACE KIT IN A VESSEL, PLEASE SCAN FOR FIRE FEATURE CLEARANCE DIAGRAMS.

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 5.

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.

5. For models that include electronic ignitions, be sure to have a qualified electrician install proper power supply following all local codes.

6. Inspect flex line(s) for punctures or breaks in line(s).

7. 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.

8. Refer to Placement Diagrams on page 10 for applicable gas connections.

9. Position burner safely with access to all gas connections for testing. Position burner to allow sufficient clearance from the fire feature sides and capstone to avoid damage.

10. Turn on gas supply to perform repeat leak tests on main gas supply and all connections to appliance and repair as needed.

11. Do not use appliance if there is evidence of leaking gas. If leak is suspected, turn off main gas supply immediately.

12. 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).

13. Ignite burner. See applicable ignition instructions within Operating Instructions starting on page 34.
After installation of any jet or end jet or the performance of any other service, the burner must be tested for leaks.

14. Electronic ignitions can either be hard wired into main power supply or plugged into a location-specific outlet/ receptacle per local codes. **The electrical supply must be connected to an ON/OFF switch that is external to the pit.** Remote controls, emergency stops, and dial timers are optional add-ons.

15. Once appliance is lit, perform leak test on all gas connections and repair as needed.

16. Turn off appliance and allow to cool.

17. 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. Control boxes and gas valves must be above grade with adequate drainage to prevent water damage. 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 feature 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 Placement Diagrams on previous pages.**

18. To allow for regular maintenance, any capstone materials should not overhang the interior edge of the fire feature. See **Outdoor Fireplace Placement Diagrams** on page 10 for placement. Warming Trends® is not responsible for any damages to the capstone.

19. 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.

20. Only use fire rated media (glass, lava rock, decorative 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.

21. To avoid dust and clogs getting into the system, do not dump the media over the burner. Hand place the media onto the plate or pan. **Burner should be covered by approved media up to but no more than 1/2" 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.**

22. Do not cover the ignition pilot assembly or wind cage more than halfway with any form of media. Do not place decorative logs within 2" of the pilot assembly as this may cause excessive heat and system failure that is not covered by warranty.

GENERAL INSTALLATION INSTRUCTIONS: CONTINUED

23. Complete final verification of correct operation and lighting.

24. Review Instruction Manual with end user and instruct end user as to requirements herein.

LIQUID PROPANE GUIDELINES

For safe operation of LP appliances, it is important to use LP cylinders that meet the following criteria:

- The cylinders must be constructed and marked in accordance with the LP-Gas Cylinders Standard of ANSI/NFPA or CAN/CSA which specifies the requirements for cylinders, spheres, and tubes for the transportation of dangerous goods.
- The cylinders must be equipped with a listed overfilling prevention device.
- The cylinder connection device must be compatible with the connector for outdoor appliances.

ESCUTCHEON PLATE INSTALLATION INSTRUCTIONS

1. Insert the Escutcheon Plate into the opening on the Faceplate {**See Figure 1**} making sure that the text is oriented at the top. {**See Figure 2**}

Figure 1: Inserting the Escutcheon Plate into the Faceplate

Figure 2: Text at top of Faceplate

2. Attach the nut to the Escutcheon Plate and secure it firmly using a wrench ensuring it remains properly aligned with the front. {**See Figure 3**}

Figure 3: Attaching the nut to the Escutcheon Plate

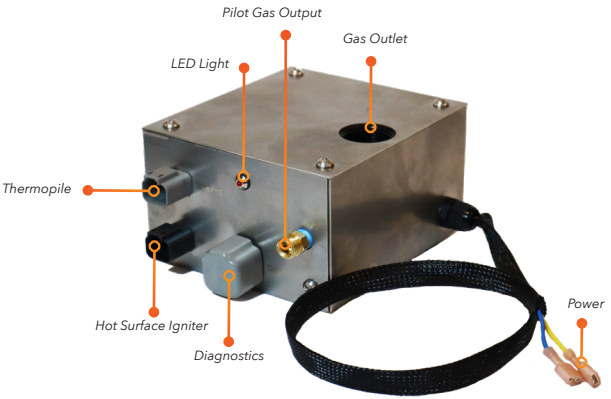
3. Tighten the Key Valve onto the Escutcheon Plate until it is secured. {**See Figure 4**}

Figure 4: Tightening the Key Valve to the Escutcheon Plate

Note: If you need to use the optional Key Valve Extension, please tighten it onto the Escutcheon Plate until it is secured and then securely screw the Key Valve onto the Escutcheon Plate until it is secured. **{See Figure 5}**

Figure 5: Key Valve Extension

CONTROL BOX LAYOUT



PLATINUM IGNITION SYSTEM: INSTALLATION INSTRUCTIONS

If the Pilot Assembly for the Platinum Ignition System™ is not installed on the Plate or Pan, start here for complete installation instructions. If your Plate or Pan does not have Precut Knockouts, skip to Step 2. If the Pilot Assembly has been installed on the plate or pan, skip to Step 3 below for installation instructions.

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

The Plate or Pan that was included with your burner 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. To install the pilot assembly:

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 Figure 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 Figure 2}**

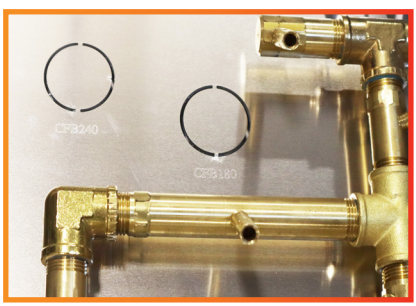


Figure 1: Pilot Assembly Knockouts

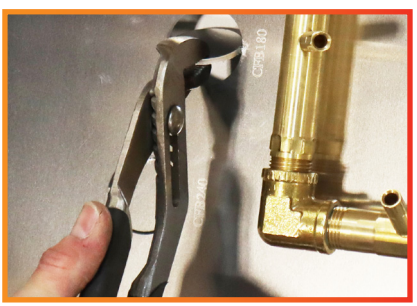


Figure 2: Breaking the Knockouts

2. INSTALLING THE PILOT ASSEMBLY ON THE PLATE/PAN

2.1 Locate the Pilot Assembly. The Pilot Assembly consists of a wind cage, wind cage cap, pilot burner, and self-tapping screws. On the pilot assembly, you will see a hot surface igniter, a pilot burner, and a thermopile. **{See Figure 3a and 3b}**

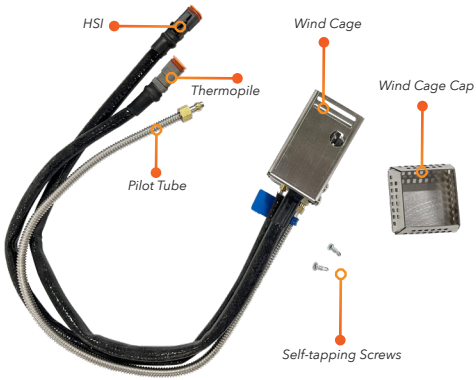


Figure 3a: Pilot Assembly

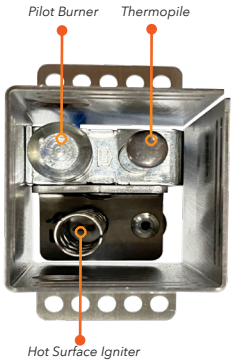


Figure 3b: Top-Down View of Pilot Assembly

2.2 Remove the wind cage 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. 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 wind cage and thermopile are adjacent to the nearest jet with the thermopile nearest to the jet. Position the pilot assembly to cover the entire knockout opening. **{See Figure 4a and 4b}**

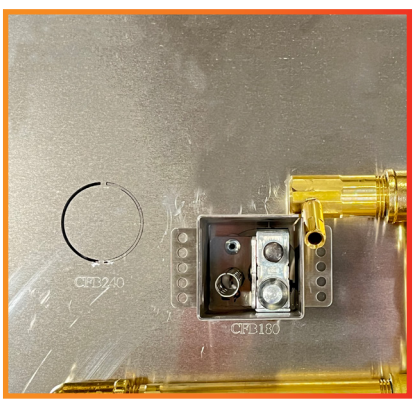


Figure 4a: Wind Cage Positioning

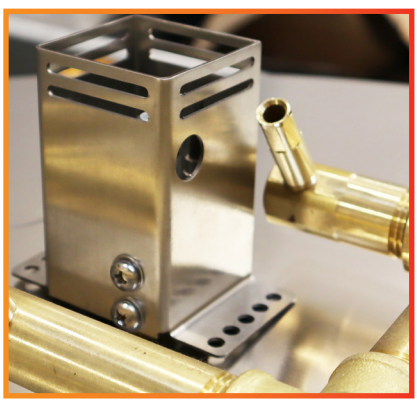


Figure 4b: Wind Cage Circular Opening Positioning

SCAN FOR PLATINUM IGNITION SYSTEM INSTALLATION VIDEO

When installing the Platinum Ignition System™ with an Outdoor Fireplace Insert Kit, there are some options regarding the installation. Please contact Warming Trends for details by emailing Orders@Warming-Trends.com or calling (303) 346 - 2224.

2.5 Once the wind cage is properly aligned, use the self-tapping screws to secure the wind cage to the plate or pan. **{See Figure 5)**

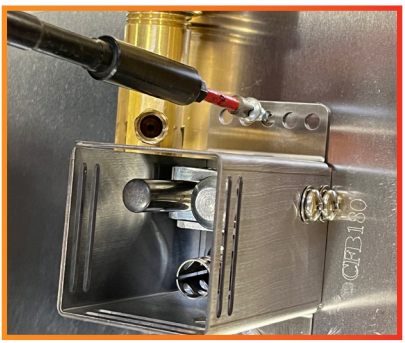


Figure 5: Securing the Wind Cage to the Plate/Pan

3. INSTALLING THE VALVE INTO THE PLATE/PAN

Warming Trends has two different drip legs for the Platinum Ignition System depending on the BTU supply of the burner. The first drip leg is for burners up to 299K BTUs and is made out of ½" piping. **{See Figure 6}** The second drip leg is for burners with 300K BTUs or more and is made out of ¾" piping.

3.1 Identify the coupling under the plate and choose the correct drip leg. Apply joint compound, thread sealant, or plumbing tape to the threads of the exposed end of the provided 5" nipple on the drip leg assembly and tighten to the female end of the coupling with a wrench to avoid leaks. Align the tee so it is facing away and perpendicular to the two small holes cut out on the plate. **{See Figure 7}**

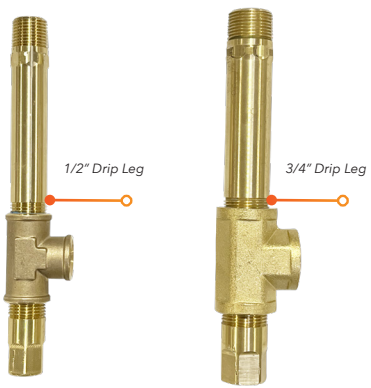


Figure 6: Drip Legs

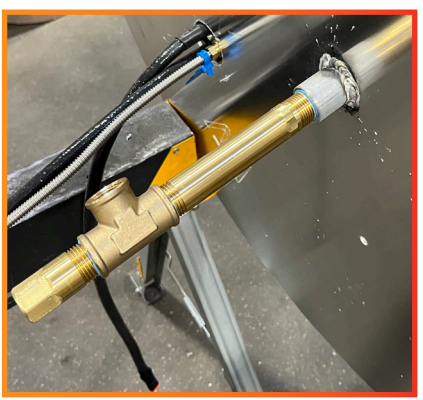


Figure 7: Installing the Drip Leg

3.2 Identify the gas outlet on the valve box assembly. The outlet should have a ½" x 2" nipple with a ½" x ¾" Reducing Bushing attached for units under 299K BTUs **{See Figure 8a}** or a ¾" x 3" nipple attached for units over 300K BTUs **{See Figure 8b}**

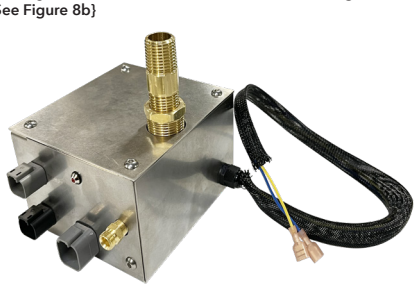


Figure 8a: Valve Box for Units Under 299K BTUs

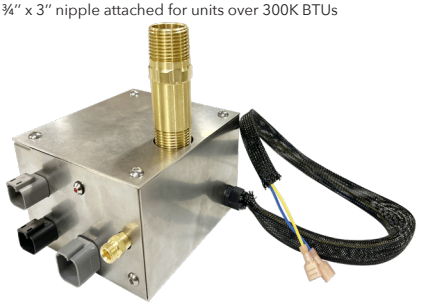


Figure 8b: Valve Box for Units Over 300K BTUs

3.3 Apply joint compound, thread sealant, or plumbing tape to the threads of the exposed end of the nipple on the valve and tighten to the female end of the tee on the drip leg. Tighten with a wrench to avoid leaks. **{See Figure 9}** Orient the valve so that the connectors on it face away from the plate. **{See Figure 10}**

Figure 9: Attaching the Valve Box to the Drip Leg

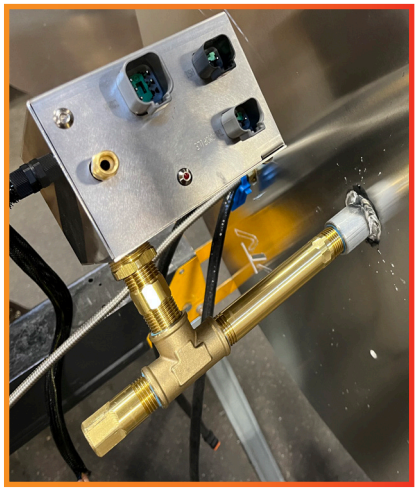


Figure 10: Orienting the Valve

4. CONNECTING THE PILOT TO THE VALVE ASSEMBLY

4.1 Identify the connector ports on the valve. One is black and labeled Hot Surface Igniter and one is gray and labeled Thermopile. Locate the connectors of the same color on the pilot assembly and plug them in to the matching connectors. **{See Figure 11}**

4.2 Identify the brass male thread on the valve. Locate the corresponding brass female thread on the metal pilot tube extending from the wind cage. Join the female end on the pilot assembly to the male end on the valve using a ½" wrench (DO NOT APPLY ANY THREAD SEALANT). **{See Figure 12}**

Figure 11: Electronic Connections from the Pilot to Valve

Figure 12: Connecting the Gas Line From the Pilot to the Valve

5. CONNECTING THE TRANSFORMER TO THE VALVE ASSEMBLY

5.1 Identify the transformer unit attached to an aluminum mounting bracket. The transformer unit also comes with two screws, two nuts, and two lock washers. There are two pre-cut holes on the plate. Line the holes on the bracket up with the holes on the plate and fasten the two together with the screws provided. Ensure the transformer unit is facing away from the center of the plate. **{See Figure 13}**

5.2 Locate the two Phillips head screws on the transformer box that hold the panel in place. Unfasten these screws and remove the panel**. {See Figure 14}**

Figure 13: Mounting the Transformer to the Plate

Figure 14: Removing the Front Panel

5.3 On the bottom of the transformer unit, there are two large gray strain reliefs. One has a pigtail coming out of it to connect to the power supply and the other is empty**. {See Figure 15}** Loosen the empty strain relief and remove the cap.

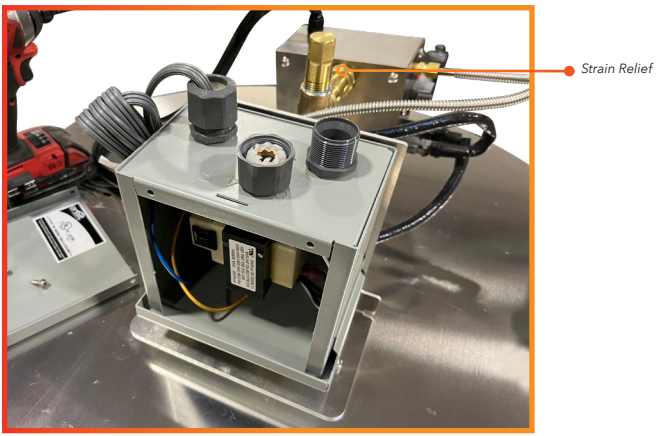


Figure 15: Loosening the Knob

5.4 On the valve assembly, there are blue and yellow wires sleeved together with connectors on the ends. Feed this through the uncapped strain relief on the transformer unit and tighten the strain relief back down around the wires. **{See Figures 16a and 16b}**

Figure 16a: Feeding the Valve Wires into the Transformer Box

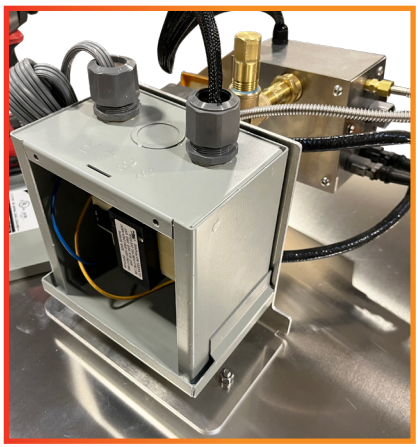


Figure 16b: Reconnecting the Knob

5.5 Inside of the transformer unit, there are blue and yellow wires with connectors on the ends. Connect these to the corresponding blue and yellow wires that were fed from the valve into the unit. **{See Figure 17}**

Figure 17: Connecting the Valve to the Transformer

5.6 Once the wires are connected, re-attach the panel on to the transformer unit.

FLEX LINE KITS ASSEMBLY INSTRUCTIONS THE FOR THE PLATINUM IGNITION SYSTEM

FK1 INSTRUCTIONS:

6.1 Identify your FK1 flex line kit for units up to 249K BTUs. **{See Figure 18}**

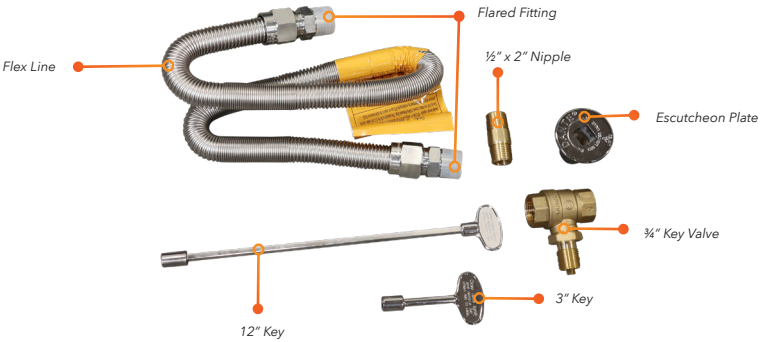


Figure 18: FK1 Flex Line Kit

6.2 Identify the flared fitting that comes on the end of your flex line. There should be two total. Unscrew the flared fitting from the flex line, then apply thread sealant to the non-flared end of the fitting **{See Figure 19}** and screw into the "IN" side of the valve. Tighten with a wrench to avoid leaks. **{See Figure 20}**

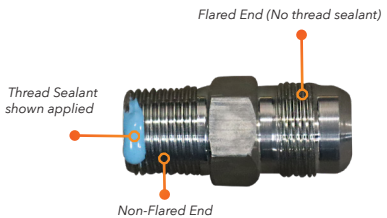


Figure 19: Flared Fitting with Thread Sealant

Figure 20: Connecting the Flared Fitting to the Platinum Valve

6.3 Screw the flex line onto the flared end of the flared fitting that is attached to the valve. Do not use thread sealant. Tighten with a wrench to avoid leaks. **{See Figure 21}**

Figure 21: Attaching the Flex Line

6.4 Apply thread sealant to the non-flared end of the second flared fitting and screw into one side of the provided key valve using thread sealant. Tighten with a wrench to avoid leaks. **{See Figure 22}**

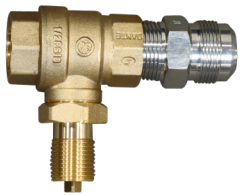


Figure 22: Connecting the Flared Fitting to the Key Valve

6.5 Mount the key valve and escutcheon plate to your fire pit, and then take the other end of the flex line and screw it into the flared end of the flared fitting on the key valve, connecting the key valve to the Platinum Valve. Do not use thread sealant. Tighten with a wrench to avoid leaks. **{See Figure 23}** The other end of the key valve will then connect to your gas supply.

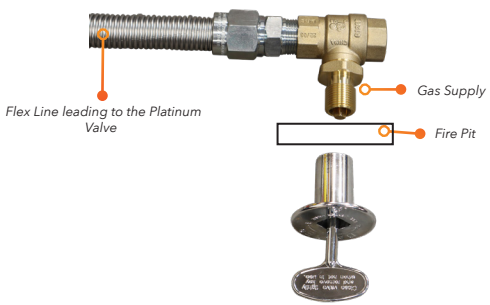


Figure 23: Connecting the Flex Line from the Platinum Valve to the Key Valve

FK2 INSTRUCTIONS:

6.6 Identify your FK2 for 250K BTU and above units. **{See Figure 24}**

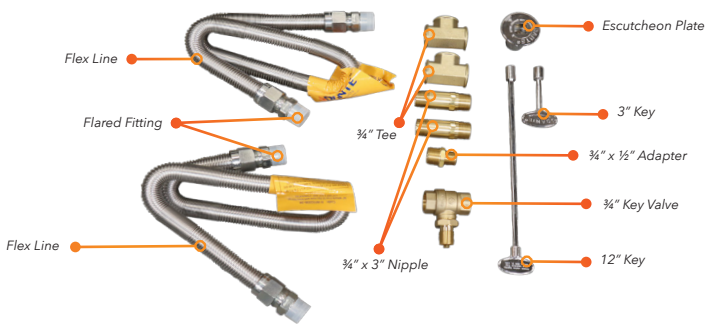


Figure 24: FK2 Flex Line Kit

6.7 Identify one of the 3/4" x 3" nipples that comes with your kit. Apply thread sealant to one end of the nipple and screw into the "IN" side of the valve. Tighten with a wrench to avoid leaks. **{See Figure 25}**

Figure 25: Connecting the ¾" x 3" nipple to the Platinum Valve

6.8 Your FK2 kit should have two flex lines. Each flex line comes with two flared fittings screwed onto the end. Remove these from the flex line. Identify the ¾" tee that comes with your kit. Screw this onto the end of the ¾" x 3" nipple attached to the valve. Then, screw the non-flared ends of two of the flared fittings into the tee. Use thread sealant on all connections and tighten all connections with a wrench to avoid leaks. **{See Figure 26} for complete installation.**

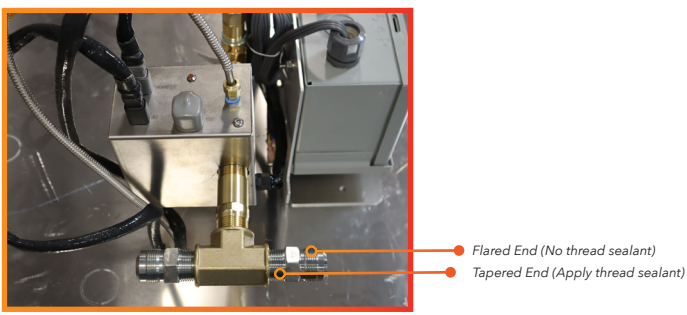


Figure 26: Connecting the Flared Fittings and ¾" Tee to the 3" Nipple

6.9 Take the ends of your two flex lines and screw them into the flared ends of the two flared fittings seen in Figure 26. Do not use thread sealant. Tighten with a wrench to avoid leaks. **{See Figure 27}**

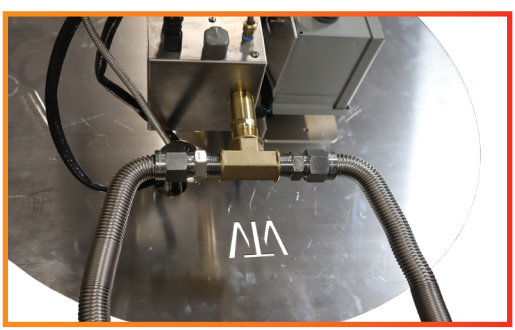


Figure 27: Connecting the Flex Lines to the Flared Fittings

6.10 Identify your other tee, nipple, remaining two flared fittings, and ¾" key valve that come with the kit. Using thread sealant for all joints, assemble these components. Tighten with a wrench to avoid leaks. **{See Figure 28}**

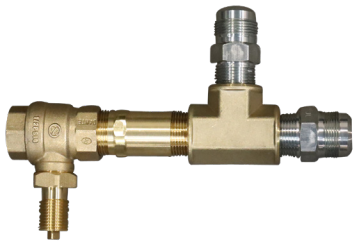


Figure 28: Constructing the Key Valve Assembly that will connect to the Platinum Valve

6.11 Mount the key valve assembly from Step 6.10 as well as the provided escutcheon plate to your fire pit. Then, take the two open ends of the flex lines from Step 6.9 and connect them to the flared fittings on the tee attached to your key valve assembly. This will connect the Key Valve to the Platinum Valve **{See Figure 29}.** The other end of the key valve will then connect to your gas supply. Do not use thread sealant. Tighten with a wrench to avoid leaks.

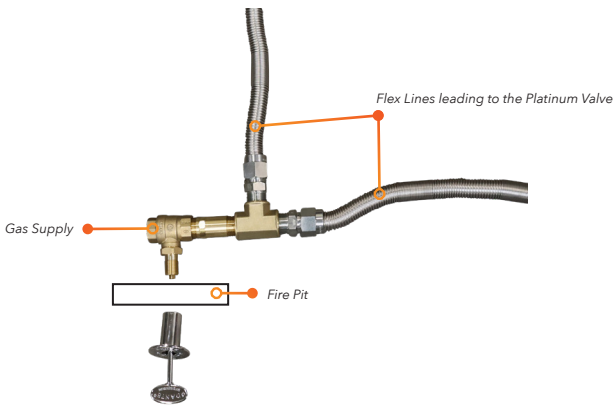


Figure 28: Connecting the Flex Lines from the Platinum Valve to the Key Valve

7. FINISHING UP

7.1 Once all connections have been completed, place the burner system in the fire feature. Put the wind cage cap back on the wind cage. This must be done before any media is added to the feature to prevent any pieces from falling into the wind cage. Make sure the power to the feature is turned off. Plug the 6' pigtail into the GFCI outlet. Turn the power on to ignite.

MERCURY IGNITION SYSTEM:
INSTALLATION INSTRUCTIONS

If the Pilot Assembly for the Mercury Ignition System™ 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 Figure 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 Figure 2}**

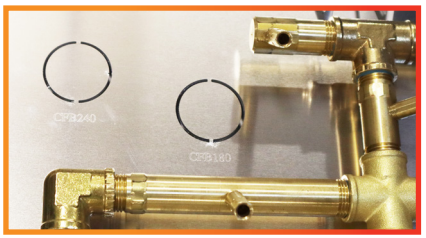


Figure 1: Pilot Assembly Knockouts

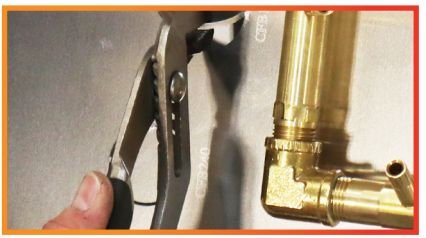


Figure 2: Breaking the Knockouts

2. INSTALLING THE PILOT ASSEMBLY ON THE PLATE/PAN

Locate the Pilot Assembly. This includes the Pilot Hood, the Electrode, and Thermocouple. **{See Figure 3a and 3b}**

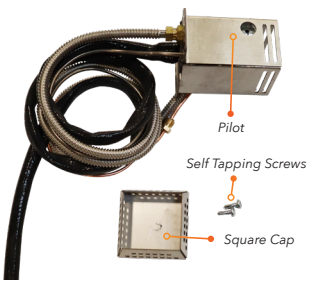


Figure 3a: Full Pilot Assembly

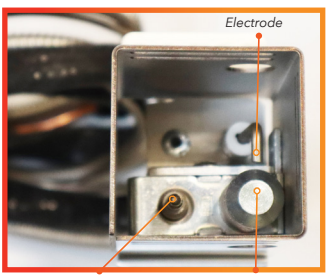


Figure 3b: Top-Down View of Pilot Assembly

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 Figure 4a and 4b}.**

Figure 4a: Thermocouple Positioning

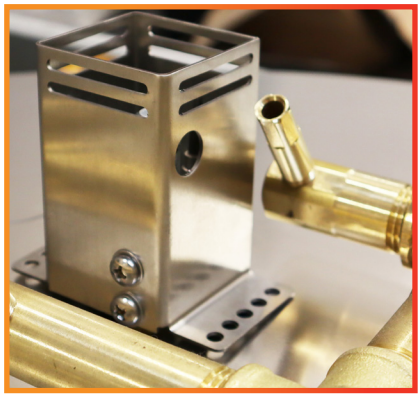


Figure 4b: Pilot Hood Circular Opening Positioning

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

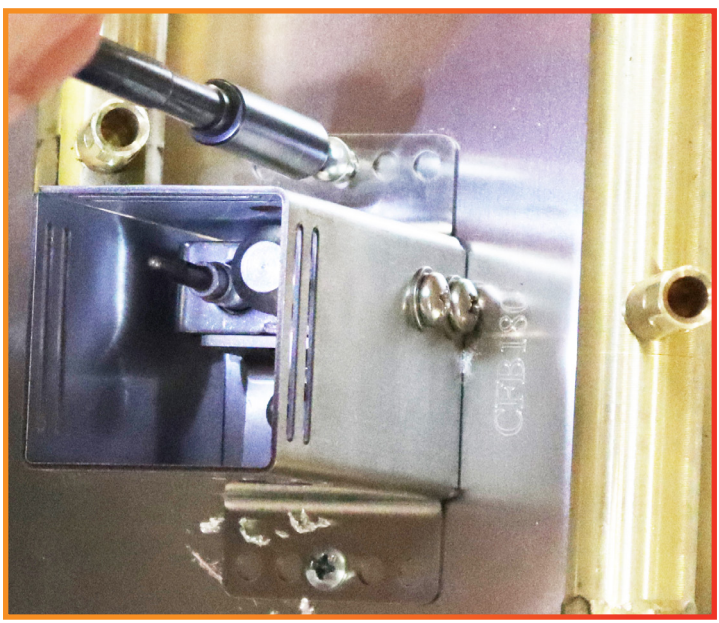


Figure 5: Securing the Pilot to the Plate/Pan

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 10 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 System, depending on the BTU supply of the burner. The FKM1 has one (1) flex line and fits burners up to 249 BTUs. **{See Figure 6}** The FKM2 has two (2) flex lines and fits burners 250 BTUs or more. **{See Figure 7}** Follow the assembly instructions below specific to your Flex Line Kit.

Figure 6: FKM1

Figure 7: FKM2

FKM1 INSTRUCTIONS:

4.1 Identify the "outlet" on the Valve Assembly. The outlet should have a pre-installed ½" x 2" nipple attached. **{See Figure 8a}** Apply joint compound, thread sealant, or plumbing tape to the threads of the exposed end of the ½" x 2" nipple. **{See Figure 8b}**

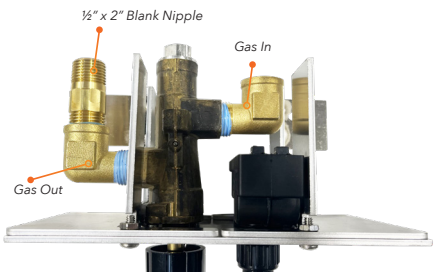


Figure 8a: Valve Assembly

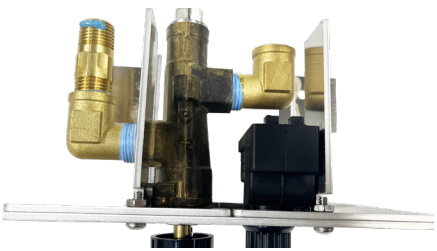


Figure 8b: Applying Joint Compound

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 ½" x 2" nipple of the valve assembly "outlet". **{See Figure 9}** Tighten with a wrench to avoid leaks.

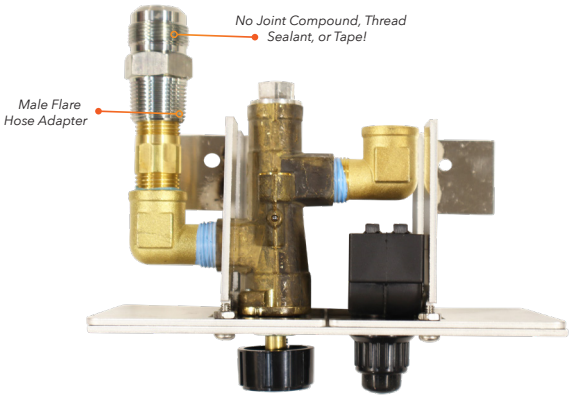


Figure 9: Attaching the Hose Adapter

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 Figure 10}**

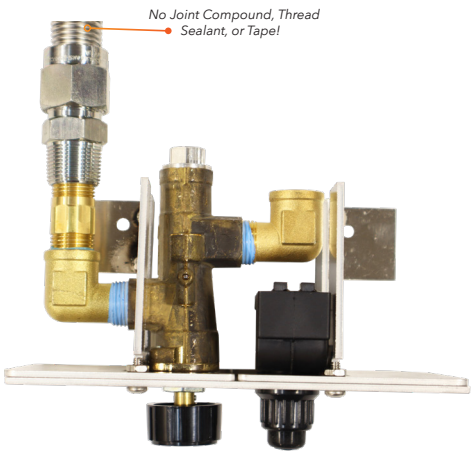


Figure 10: Connecting the Flex Line

FKM2 INSTRUCTIONS:

4.5 Identify the "outlet" on the Valve Assembly. The outlet should have a pre-installed ½" x 2" nipple attached. **{See Figure 8a}** Apply joint compound, thread sealant, or plumbing tape to the threads of the exposed end of the ½" x 2" nipple. **{See Figure 8b}**

4.6 Apply joint compound, thread sealant, or plumbing tape to the threads of the male end of the 1/2" x 2" nipple on the Valve Assembly "outlet" and connect it to the ¾" x ½" reducing bushing. Tighten with a wrench to avoid leaks. **{See Figure 11a and 11b to see which threads need sealant and the assembly order}**

4.7 Apply joint compound, thread sealant, or plumbing tape to the ¾'' male threads on the ¾'' x ½'' reducing bushing and connect it to the side of the ¾" Tee. Tighten with a wrench to avoid leaks. **{See Figure 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 ¾" Tee. Tighten with a wrench to avoid leaks. **{See Figure 11a and 11b to see which threads need sealant and the assembly order}**

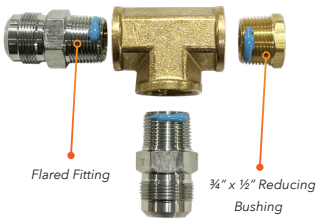


Figure 11a: Assembly Order

Figure 11b: Final Assembly Configuration

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 ¾" Tee. Tighten with a wrench to avoid leaks. **{See Figure 12}**

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 Figure 13}** Do not use pliers as this can put excess pressure on the connection, which could damage the thermocouple.

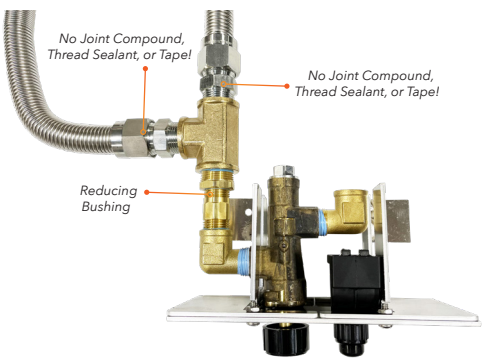


Figure 12: Final Assembly with Flex Lines Connected

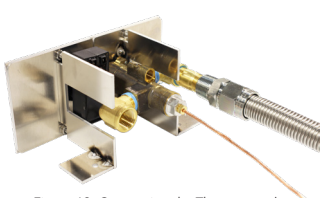


Figure 13: Connecting the Thermocouple

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 Figure 14}** Tighten with a 7/16 in wrench and confirm that the pilot tube is firmly seated to avoid leaks.

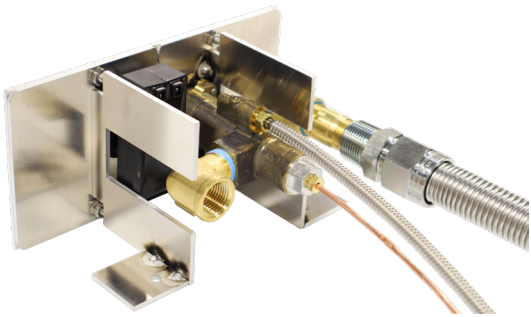


Figure 14: Connecting the Pilot Tube

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 Figure 15}** (Either wire will work in either receptacle). Confirm they are firmly secured.

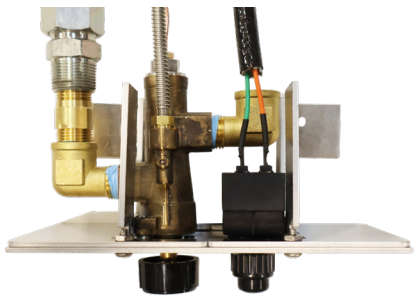


Figure 15: Connecting the Spark Generator to the Push Button Module

6. CONNECTING THE FLEX LINE TO THE PLATE

FKM1 INSTRUCTIONS:

6.1 Identify your FKM1 Flex Line kit for units and the Mercury Ignition System up to 249K BTUs.

Figure 16: Attaching the ½" x 2" Nipple to the Plate Coupling

6.2 Identify the coupling under the plate. Apply joint compound, thread sealant, or plumbing tape to the threads of the exposed end of the provided ½" x 2" nipple and tighten to the female end of the coupling with a wrench to avoid leaks. **{See Figure 16}**

6.3 A male flare hose adapter is loosely attached flex line. Remove the male flare hose adapter from the end of the flex line.

6.4 Apply joint compound, thread sealant, or plumbing tape to the threads of the ½" x 2" nipple. Thread the non-flared end of the hose adapter on to the ½" x 2" nipple on the valve assembly "outlet". **{See Figure 17}** Tighten with a wrench to avoid leaks.

Figure 17: Attaching the Male Flare Hose Adapter

6.5 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 Figure 18}**

Figure 18: Connecting the Flex Line

FKM2 INSTRUCTIONS:

6.6 Identify the coupling under the plate. Apply joint compound, thread sealant, or plumbing tape to the threads of the ½" end of the ½" x ¾" reducing fitting and tighten to the female end of the coupling with a wrench to avoid leaks. **{See Figure 19a and 19b to see which threads need sealant and assembly order}**

6.7 Apply joint compound, thread sealant, or plumbing tape to the threads to the ¾" end of the ½" x ¾" reducing fitting and connect to the bottom of the ¾" Tee. Tighten with a wrench to avoid leaks. **{See Figure 19a and 19b to see which threads need sealant, and the assembly order}**

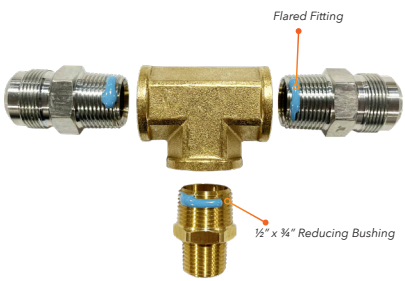


Figure 19a: Assembly Order

Figure 19b: Final Assembly Configuration

6.8 A flared fitting is loosely attached to each Flex Line. Remove the flared fitting from the ends of each Flex Line.

6.9 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 ¾" Tee. Tighten with a wrench to avoid leaks. **{See Figure 19a and 19b to see which threads need sealant, and the assembly order}**

7.0 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 ¾" Tee. Tighten with a wrench to avoid leaks. **{See Figure 20}**

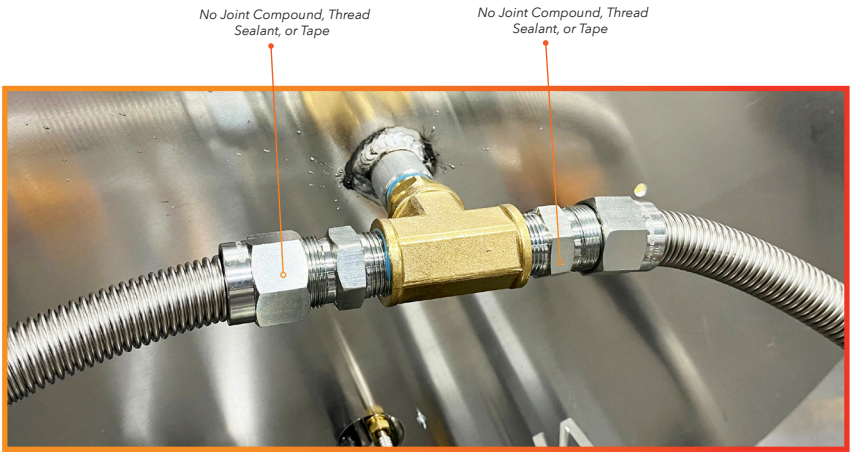


Figure 20: Connecting the Flex Lines

8. PLACE THE PLATE/PAN WITH THE ATTACHED PILOT ASSEMBLY INTO THE FIRE FEATURE.

9. PUT THE TOP OF PILOT HOOD BACK IN PLACE.

10. REFER TO THE GENERAL INSTALLATION INSTRUCTIONS FOR ALL UNITS ON PAGE 11 OF THIS INSTRUCTION MANUAL.

MEDIA INSTALLATION

Only use approved fire rated media (lava rock, fire glass, decorative 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.** Hand place the media onto the plate.

The appliance is designed to use approved fire rated 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 only be covered by approved fire rated media no more 1/2" above the jets. PLEASE NOTE - Covering jets by more than 1/2" 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 assembly / wind cage. The pilot gas orifice opening and the pilot cooling holes must be above the media to allow the pilot flame to easily reach the gas jet orifice. Incorrect media installation that blocks the pilot cooling holes will cause the pilot flame to stifle, blocking of thermal sensor and/or a delay in burner ignition. {**See Figure 7**}

Example of proper media height on pilot assembly.

Figure 7: Pilot Cooling Hole

WARNING: DO NOT use solid fuel, such as wood or charcoal, in gas fueled Outdoor Fireplace Insert Kits.

Inspect the burner before each use of the appliance, if there is any evidence that the burner is damaged, it must be replaced before operating, Upon completing the gas line connection, a small amount of air will be in the lines. When first lighting the burner, it will take a few minutes for the lines to purge themselves of this air. Subsequent lighting of the appliance will not require such purging.

You must have clear and easy access to the Ignition valve AFTER the appliance is installed and connected to the gas supply in order to safely turn on the burner. We require our products be installed by a professional that is locally licensed by the authority having jurisdiction in gas piping.

FOR YOUR SAFETY, READ BEFORE LIGHTING

- Before operating the Fireplace, smell around the appliance area for gas odors. Be sure to smell the surrounding floor area as some gases are heavier than air and will settle on the ground.
- Use only your hand to turn the control knob. Never use tools. If the valve will not turn by hand, do not try to repair it. Call a qualified service technician. Force of attempted repair may result in a fire or explosion.

For detailed operating guidelines, lighting instructions, and information for each specific ignition system, please see:

OPERATING and LIGHTING INSTRUCTIONS

OUTDOOR FIREPLACE WITH THE PBIK IGNITION SYSTEM

PBIK Ignition System

Location of Battery in Faceplate

OPERATING GUIDELINES

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

Solid fuels shall not be burned in the Outdoor Fireplace Kit. Leaves, sticks, wood, paper, clothing, food material, etc. should be kept away from the Outdoor Fireplace Kit. Make sure there is no vegetation or other objects over the top or sides of the Out door Fireplace Kit that could interfere with safe operation. If there are any questions as to clearances, please refer to the Fireplace Manufacturer for their specifications and recommendations or licensed gas professional for clearance requirements.

All fire rated media (lava rock, volcanic stone, fire glass, etc.) has the potential of thermal spalling. This process may occur when the 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 lighting, allow 30 minutes to dry out the media and monitor from a distance until all popping has ceased before fully enjoying the fire.

⚠ **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.**

Confirm that your main Natural Gas or Liquid Propane supply to the appliance is open. **Do not open your Control Knob at this time.**

Before lighting, visually inspect Outdoor Fireplace Kit for other combustible debris.

LIGHTING INSTRUCTIONS

STOP! READ ALL THE SAFETY INFORMATION.

LIGHTING YOUR PBIK IGNITION SYSTEM

1. Confirm that your Natural Gas or Liquid Propane supply to the appliance is OPEN or ON.
2. Press and hold the **Ignition Button.**
3. Slightly Rotate the **Key Valve** counterclockwise and turn to the ON position until a flame appears.
4. Once the Burner is lit, turn **Key Valve** counterclockwise to achieve desired flame height.
5. If burner does not light, turn **Key Valve** to the OFF position. Wait 3 - 5 minutes before repeating lighting instructions.

TURNING OFF YOUR PBIK IGNITION SYSTEM

1. Turn **Key Valve** to OFF position by turning key clockwise.
2. Verify flame is OUT.
3. If using a LP tank, be sure to turn tank to CLOSED position.

REPLACING THE BATTERY

If your PBIK is not lighting, you may need to replace the battery.

To replace the battery in your PBIK Ignition System:

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

SCAN TO WATCH A TUTORIAL ON HOW TO LIGHT AN OUTDOOR FIREPLACE OR FIRE FEATURE WITH THE PBIK IGNITION SYSTEM.

Mercury Ignition System

Mercury Battery Location

OPERATING GUIDELINES

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

Solid fuels shall not be burned in the Outdoor Fireplace Kits. Leaves, sticks, wood, paper, clothing, food material, etc. should be kept away from the Outdoor Fireplace Kits. Make sure 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, please refer to the Fireplace Manufacturer for their specifications and recommendations or licensed gas professional for clearance requirements.

All fire rated media (lava rock, volcanic stone, fire glass, etc.) has the potential of thermal spalling. This process may occur when the 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 Outdoor Fireplace. Extra caution should be taken when lighting in high humidity or moisture. After lighting, allow 30 minutes to dry out the media and monitor from a distance until all popping has ceased before fully enjoying the fire.

⚠ 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.

Confirm that your main Natural Gas or Liquid Propane supply to the appliance is open. **Do not open your Control Knob at this time.**

Before lighting, visually inspect Outdoor Fireplace Kit and remove any accumulated leaves or other combustible debris.

LIGHTING INSTRUCTIONS

STOP! READ ALL THE SAFETY INFORMATION. LIGHTING

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 30 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 AA battery and replace with a new AA battery.
3. Replace the battery cover and turn clockwise to tighten.

SCAN TO WATCH A TUTORIAL ON HOW TO LIGHT AN OUTDOOR FIREPLACE OR FIRE FEATURE WITH THE MERCURY IGNITION SYSTEM.

Platinum Ignition System

OPERATING GUIDELINES

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

Solid fuels shall not be burned in the Outdoor Fireplace Kit. Leaves, sticks, wood, paper, clothing, food material, etc. should be kept away from the Outdoor Fireplace Kit. Make sure there is no vegetation or other objects over the top or sides of the Outdoor Fireplace Kit that could interfere with safe operation. If there are any questions as to clearances, please refer to the Fireplace Manufacturer for their specifications and recommendations or licensed gas professional for clearance requirements.

All fire rated media (lava rock, volcanic stone, fire glass, etc.) has the potential of thermal spalling. This process may occur when the 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 lighting, allow 30 minutes to dry out the media and monitor from a distance until all popping has ceased before fully enjoying the fire.

⚠ **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.**

Confirm that your main Natural Gas or Liquid Propane supply to the appliance is open. **Do not open your Control Knob at this time.**

Before lighting, visually inspect the Outdoor Fireplace Kit and remove any accumulated leaves or other combustible debris.

LIGHTING INSTRUCTIONS

STOP! READ ALL THE SAFETY INFORMATION.

LIGHTING YOUR PLATINUM IGNITION SYSTEM

WARNING: A qualified, licensed electrician must install power supply for the Platinum Ignition System. An outdoor NEMA rated GFCI Receptacle outlet should be installed within the interior of the enclosure above grade to supply power to system.

1. Confirm that your Natural Gas or Liquid Propane supply to the appliance is OPEN or ON.
3. If you do not smell gas, use the key to turn the **Key Valve** or gas control valve to the ON position by turning the key to the left.
5. Turn on power to the fire feature with switch, button, or remote. Within 10 seconds of power application Pilot Flame should be lit and visible. Once the pilot is lit, the main burner will ignite shortly after.
7. Use **Key Valve** to adjust flame to desired height.

TURNING OFF YOUR PLATINUM IGNITION SYSTEM

1. Turn off power to the Outdoor Fireplace – with remote control or wall switch.
2. Turn **Key Valve** to OFF position by turning key to the right.
4. If using LP bottle/tank – turn bottle/tank to CLOSED position.
6. Verify flame is OUT.

WARNING: FOR REMOTE CONTROL USE: To prevent unwanted startup, turn off power to the appliance when not in use.

WARNING: If the Outdoor Fireplace Kit fails to turn off completely (small flames still visible), turn off gas supply using the main valve by your meter, and contact your gas supplier or qualified technician.

WARNING: For Platinum Ignition Systems, which have an extended or detached valve box, the area in which the valve box is installed must conform with all installation requirements, including, but not limited to location, construction, venting and local codes. Failure to do so may result in property damage, personal injury, or death.

SCAN TO WATCH A TUTORIAL ON HOW TO LIGHT AN OUTDOOR FIREPLACE OR FIRE FEATURE WITH THE PLATINUM IGNITION SYSTEM.

MAINTENANCE and TROUBLESHOOTING

WARNING

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.

WARNING

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

WARNING

Ensure gas and power are shut off and appliance is cool before servicing.

PRIOR TO EACH USE

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

JET ORIFICE CLEANING

Annual inspection and cleaning of the fireplace 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. {**See Figure 8**}

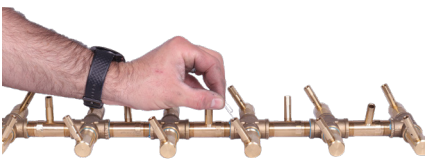


Figure 8: Cleaning the Jets

SEMI-ANNUALLY FOR MERCURY AND PLATINUM IGNITION SYSTEMS

Every six months, or as needed, remove media, lava rock, or fire 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 32.

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.

ANNUALLY

Annual inspection and cleaning of the fireplace 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. To clean the appliance, carefully remove 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 Outdoor Fireplace Collection kit performs properly.

TROUBLESHOOTING - PBIK IGNITION

NO SPARKS

- **BATTERY IS DEAD** - *Follow the steps on page 34 to replace the battery.*

PILOT SPARKS BUT BURNER WON'T LIGHT

- **FIX DISTANCE BETWEEN ELECTRODE AND JET** - *The Electrode is factory installed to be located 1/12" - 1/8" between the Electrode and Jet. If the Electrode has been bumped out of position, gently bend back into place.* {**See Figure 9**}
- **REPLACE THE IGNITER** - *If the previous steps do not resolve your issues on the PBIK, please contact Orders@Warming-Trends.com or call (303) 346 - 2224 to order a replacement Igniter.*

Figure 9: Fixing the Electrode

TROUBLESHOOTING - MERCURY AND PLATINUM 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 5. 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.

Error codes are displayed by a flashing LED. This LED's primary function is to aid a trained technician in diagnosing basic issues with the device. The repetition period of the flashes is 10 seconds, each flash is ON for 0.5 seconds and OFF for 0.5 seconds.

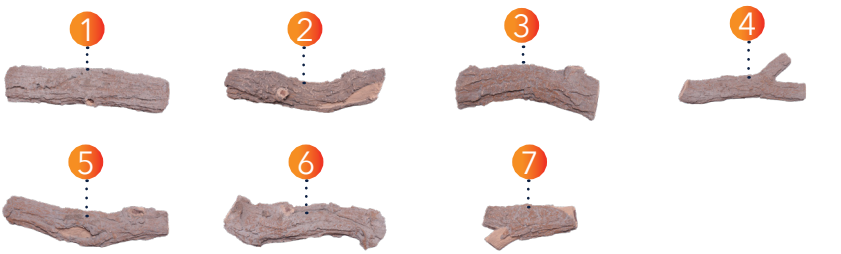
NUMBER OF FLASHES	ERROR REASON
Solid LED	*No issue. Pit is ON and operational.*
LED Off	*No issue. Pit is OFF.*
1	**HSI ISSUE DETECTED** - *HSI did not prove, likely needs to be replaced.*
2	**THERMOPILE ISSUE DETECTED** - *Thermopile did not detect heating or did not get hot/stay hot, likely needs to be replaced or pilot assembly has been damaged.*
3	**24 HOUR TIMER TRIGGER** - *Pit has been on for more than the maximum allowed time. Power cycle is required.*
4	**HARDWARE ISSUES DETECTED** - *Please contact customer service at (303) 346-2224 or Orders@Warming-Trends.com.*

CERAMIC LOG ASSEMBLY INSTRUCTIONS

CERAMIC LOGS FOR 24" FIREPLACE OPENINGS OR LARGER

H-STYLE (104694 - NG | 104695 - LP)
TREE-STYLE (104696 - NG | 104697 - LP)

Fits Optional Ceramic Log Sets: Western Oak Small (WOS) or Mountain Split Small (MSS). (Sold Separately)



STEP 1

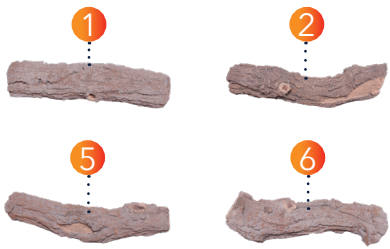
STEP 2

STEP 3

CERAMIC LOGS FOR 30" FIREPLACE OPENINGS OR LARGER

H-STYLE (104355 - NG | 104356 - LP)
TREE-STYLE (104357 - NG | 104358 - LP)

Fits Optional Ceramic Log Sets: Western Oak Small (WOS) or Mountain Split Small (MSS). (Sold Separately)



STEP 1

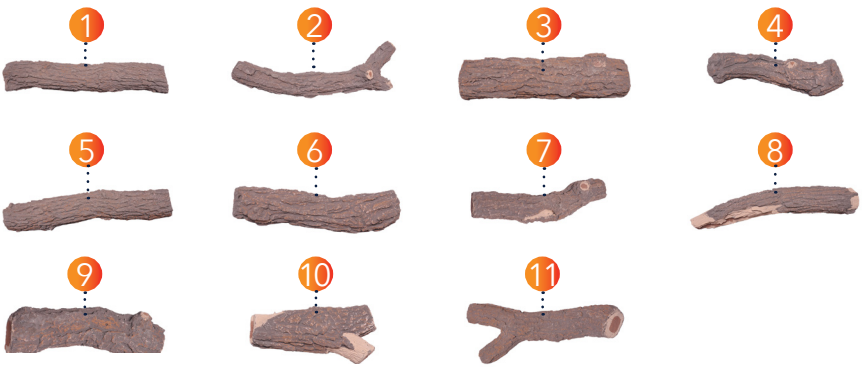
STEP 2

STEP 3

CERAMIC LOGS FOR 36" FIREPLACE OPENINGS OR LARGER

H-STYLE (104359 - NG | 104360 - LP)
TREE-STYLE (104361 - NG | 104362 - LP)

Fits Optional Ceramic Log Sets: Western Oak Medium (WOM), Western Oak Large (WOL), Mountain Split Medium (MSM), or Mountain Split Large (MSL). (Sold Separately)

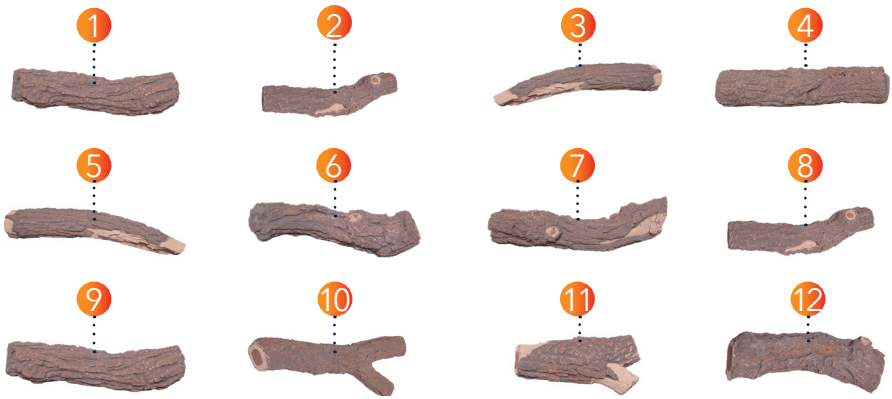


STEP 3

STEP 4

H-STYLE (104363 - NG | 104364 - LP)
TREE-STYLE (104365 - NG | 104366 - LP)

Fits Optional Ceramic Log Sets: Western Oak Large (WOL) or Mountain Split Large (MSL). (Sold Separately)



STEP 1

STEP 2

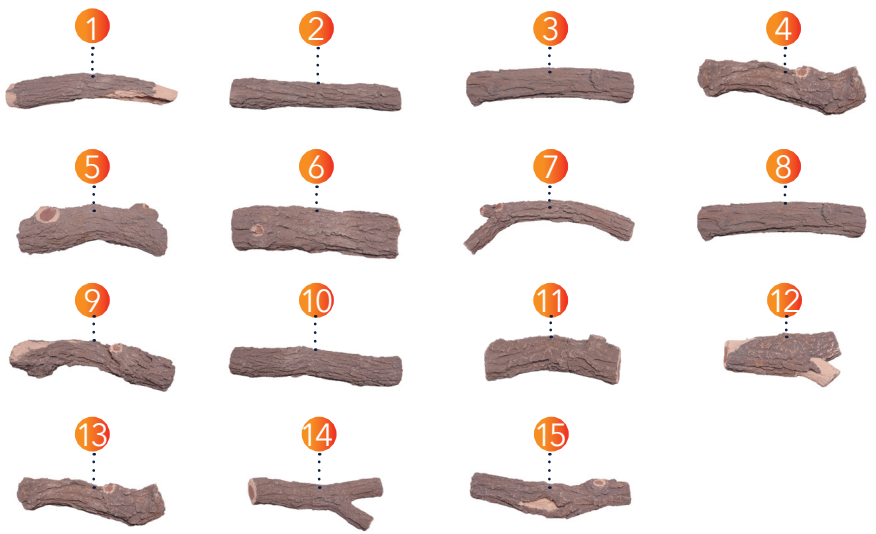
STEP 3

STEP 4

CERAMIC LOGS FOR 48" FIREPLACE OPENINGS OR LARGER

H-STYLE (104367 - NG | 104368 - LP)
TREE-STYLE (104369 - NG | 104370 - LP)

Fits Optional Ceramic Log Sets: Western Oak Large (WOL) or Mountain Split Large (MSL). (Sold Separately)



STEP 1

STEP 2

STEP 3

STEP 4

WARRANTY

FULL LIFETIME WARRANTY FOR CROSSFIRE® BURNERS

Warming Trends warrants that each Warming Trends® CROSS**FIRE®** 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 re-sellers. 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 CROSS**FIRE®** 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 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. 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 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 CROSS**FIRE®** 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 CROSS**FIRE®** 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
ALL BURNERS AND ELECTRONICS MUST BE COVERED WHEN NOT IN USE OR WARRANTY IS NULL AND VOID.
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.

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. 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.
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.

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 Figures/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.

PRODUCT ACCESSORIES AND PACKAGING

Product returns must include all accessories and packaging. If not included, we may either deny the return, or allow a return with a nonrefundable deduction on your refund for what is missing.

CALIFORNIA RESIDENT 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.

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®

OUTDOOR FIREPLACE COLLECTION OWNER'S GUIDE AND INSTRUCTION MANUAL

THANK YOU FOR YOUR PURCHASE!

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