

Skyflame SK-FD0030-SS1

Skyflame Stainless Steel Fire Pit Gas Burner Spark Ignition Kit

MODEL: SK-FD0030-SS1 (1/2 INCH, SILVER)

Instruction Manual

1. Product Overview

The Skyflame Stainless Steel Fire Pit Gas Burner Spark Ignition Kit is designed to convert manual ignition fire pits and gas burners into a convenient push-button operation. This kit provides reliable spark ignition and precise flame control for your outdoor heating appliance.



Image: Skyflame Stainless Steel Fire Pit Gas Burner Spark Ignition Kit.

Key Features:

- **Fuel Compatibility:** Designed for use with natural gas or liquid propane fuels. Rated at 300,000 BTU; 1/2 PSI.
- **Ball Valve Specifications:** Features 1/2 inch inlet and outlet with standard female NPT threads.
- **Push Button Ignition System:** Converts manual ignition systems to battery-operated spark ignition for ease of use.
- **Durable Construction:** Stainless steel face plate provides durable and professional mounting for both the push-button igniter and chrome keyed shut-off ball valve.
- **Adjustable Face Plate:** Base Plate measures 4 inches H by 5 inches W. The Face Plate measures 8 inches L by 4 inches H and can be extended to a maximum length of 12 inches.

2. Safety Information

Read and understand all instructions before installation and operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- Ensure all gas connections are tight and leak-free. Use a leak detection solution to check all connections after installation.
- Do not operate the fire pit in an enclosed space. Ensure adequate ventilation.
- Keep flammable materials away from the fire pit during operation.
- Always turn off the gas supply when the fire pit is not in use.
- Never leave an operating fire pit unattended.
- Installation must be performed by a qualified installer, service agency, or gas supplier.

- A AAA battery (not included) is required for the spark igniter. Ensure correct polarity when inserting.

3. Package Contents

Verify that all components are present before beginning installation:

- Stainless Steel Igniter Panel (with push-button igniter and ball valve)
- Chrome Ball Valve with 3 inch Chrome Key
- Spark Ignitor with Leads and Ground Wire

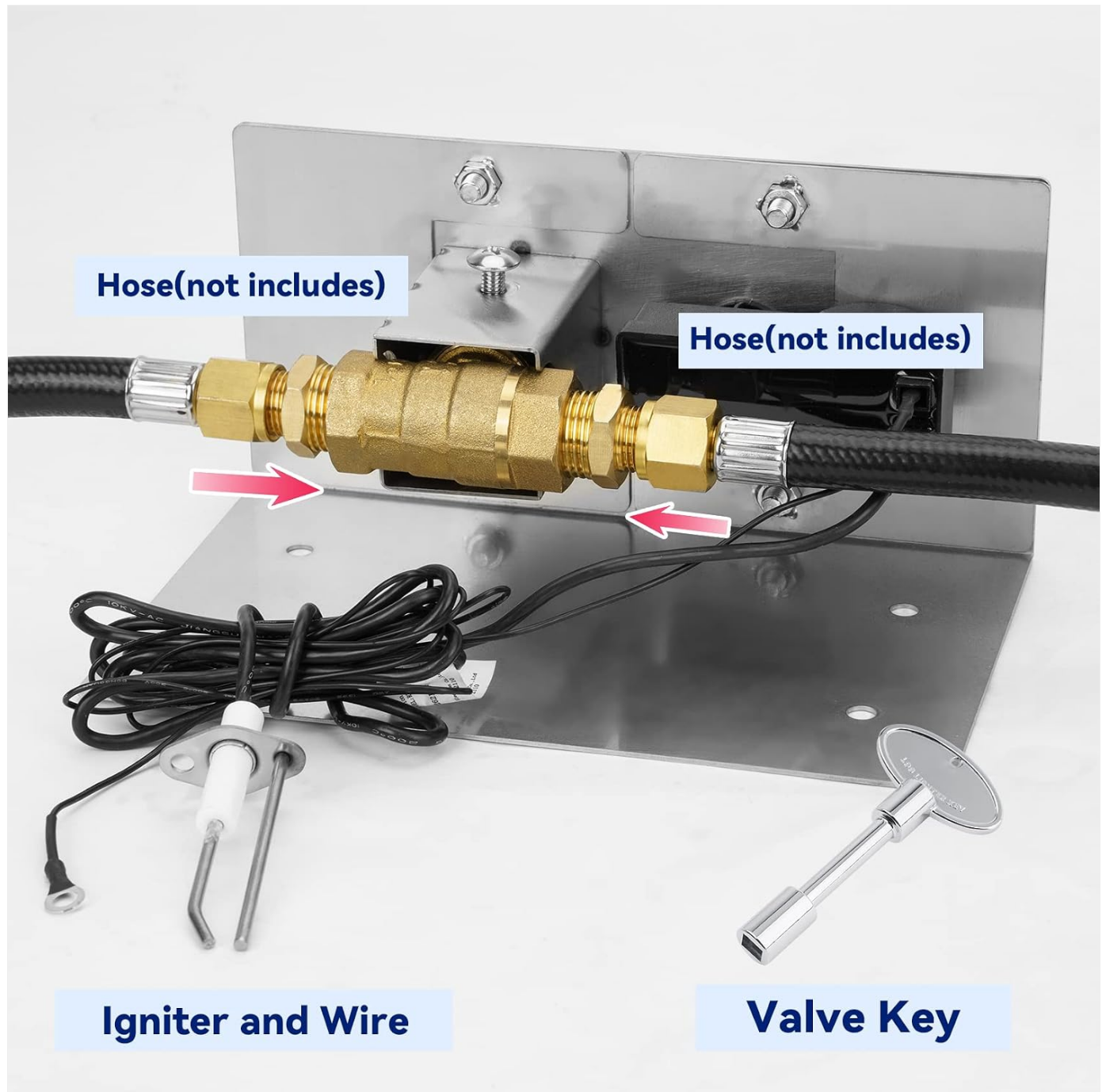


Image: Kit components including igniter and wire, and valve key.

4. Setup and Installation

This kit is designed for easy installation, converting your manual fire pit to a push-button ignition system. Professional installation is recommended for gas appliances.

Installation Steps:

1. **Prepare Mounting Location:** Choose a suitable location on your fire pit enclosure for the igniter panel. Ensure there is enough space behind the panel for gas connections and igniter wiring.
2. **Mount the Igniter Panel:** Secure the stainless steel igniter panel to the fire pit enclosure using appropriate fasteners. The face plate can be extended from 8 inches to 12 inches in length to accommodate various wall thicknesses.

Updated Retractable Igniter Panel

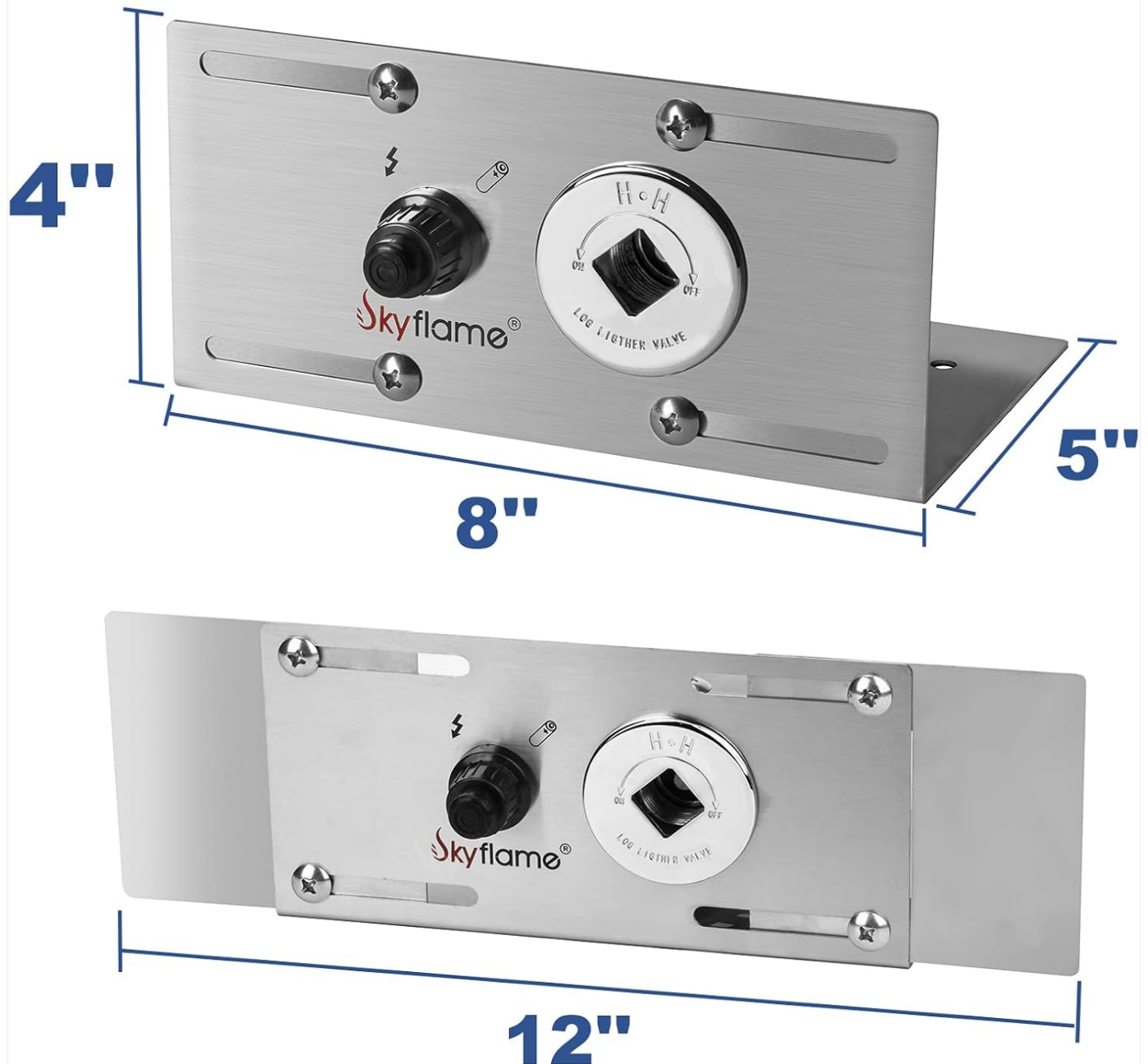


Image: Igniter panel dimensions and adjustability.

3. **Connect Gas Lines:** Connect your gas supply line to the inlet of the ball valve and the fire pit burner ring to the outlet. The ball valve features 1/2 inch female NPT threads for standard connections.

1/2 inch inlet and outlet with standard female NPT threads

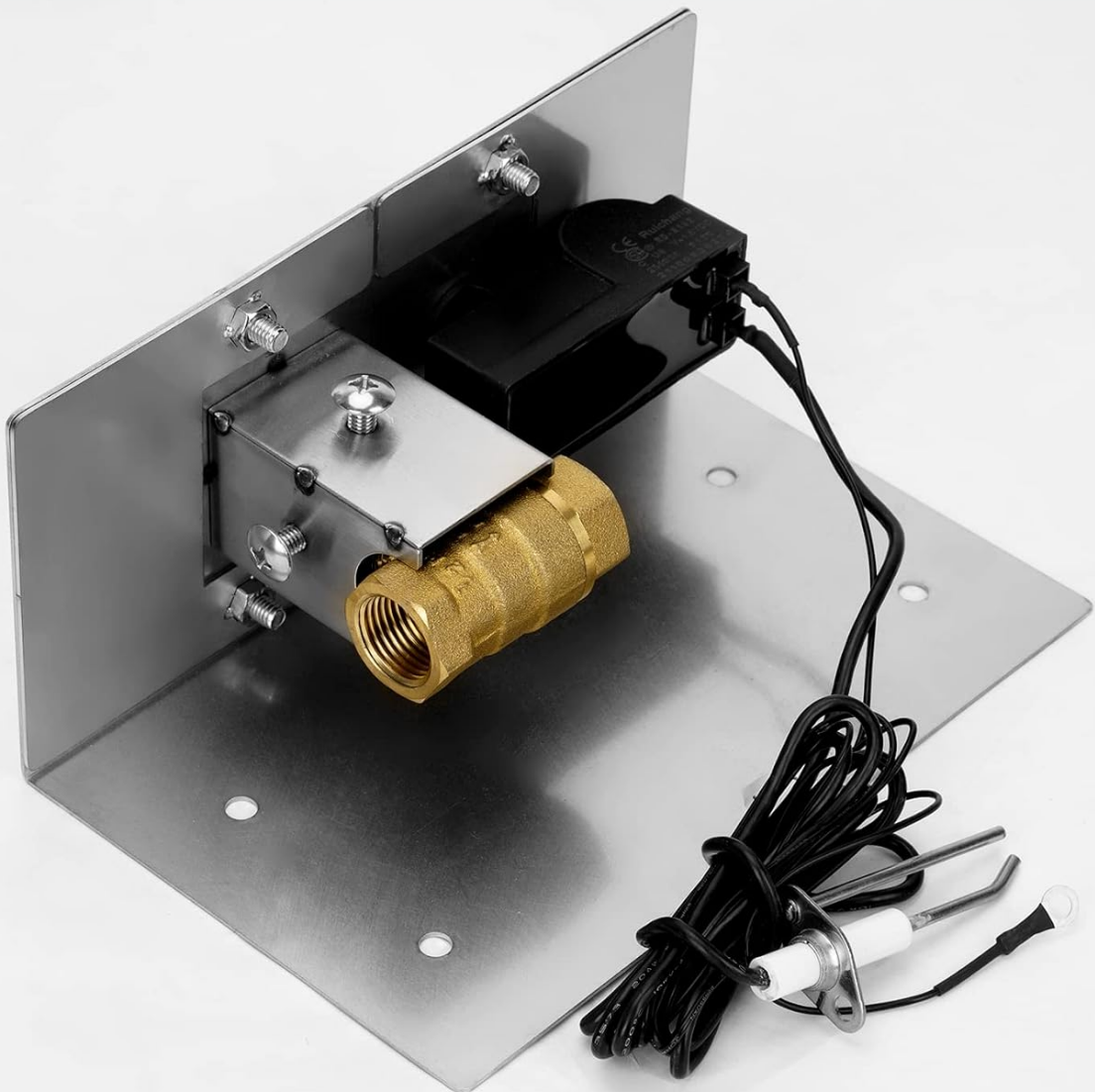


Image: Gas valve connections.

4. **Install Spark Ignitor:** Connect the spark ignitor leads to the push-button igniter on the panel. Ensure the ground wire is securely attached.
5. **Insert Battery:** Insert one AAA battery (not included) into the igniter module, ensuring correct polarity.
6. **Leak Test:** After all connections are made, perform a thorough leak test using a soap and water solution on all gas connections. Bubbles indicate a leak. Tighten connections as necessary and re-test until no bubbles appear.

EASY TO INSTALL

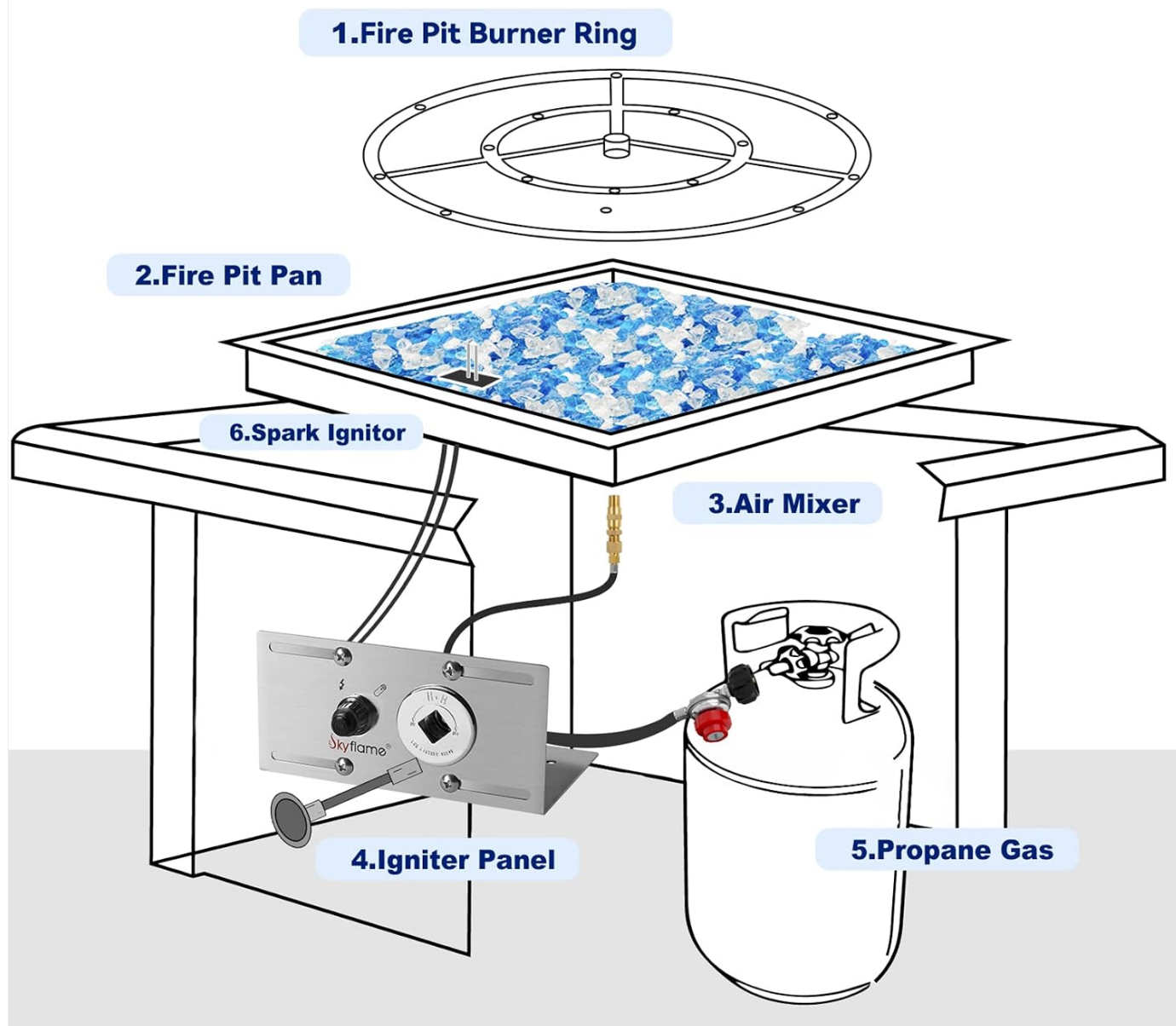


Image: Easy installation diagram for the fire pit ignition kit.

Installation Video:

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Video: This video demonstrates the installation process for the Skyflame Fire Pit Gas Burner Spark Ignition Kit, showing how to connect the gas lines and secure the igniter panel.

5. Operating Instructions

Follow these steps to safely operate your fire pit with the Skyflame Spark Ignition Kit:

- 1. Open Gas Supply:** Slowly open the main gas supply valve to your fire pit.
- 2. Insert Key:** Insert the chrome key into the ball valve on the igniter panel.
- 3. Turn Gas ON:** Turn the key counter-clockwise to open the gas flow to the burner. You should hear the gas flowing.
- 4. Ignite Burner:** Immediately press and hold the push-button igniter. You should hear a clicking sound and see a spark at the burner. Continue holding the button until the gas ignites.

5. **Adjust Flame:** Once ignited, release the igniter button. Use the chrome key to adjust the flame height by turning it clockwise (to decrease) or counter-clockwise (to increase).



Image: Using the valve key to control flame height.

To Turn OFF:

1. Turn the chrome key clockwise until the gas flow is completely shut off and the flame extinguishes.
2. Remove the chrome key from the valve.
3. Close the main gas supply valve to your fire pit.

6. Maintenance

Regular maintenance ensures safe and efficient operation of your ignition kit.

- **Inspect Connections:** Periodically check all gas connections for leaks using a soap and water solution.
- **Clean Igniter:** Ensure the spark ignitor tip is clean and free from debris to ensure consistent sparking.

- **Battery Replacement:** If the igniter fails to spark, replace the AAA battery in the igniter module.
- **Panel Cleaning:** Clean the stainless steel igniter panel with a soft cloth and mild detergent. Avoid abrasive cleaners.

7. Troubleshooting

If you encounter issues with your Skyflame Spark Ignition Kit, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Igniter does not spark.	Dead or incorrectly installed AAA battery. Igniter tip is dirty or wet. Loose igniter wire connection.	Replace battery, ensuring correct polarity. Clean and dry igniter tip. Check and secure igniter wire connections.
Gas flows but does not ignite.	No spark from igniter (see above). Insufficient gas pressure. Igniter tip too far from gas outlet.	Troubleshoot igniter spark. Ensure main gas supply is fully open. Adjust igniter tip closer to the gas outlet if possible.
Flame is weak or inconsistent.	Low gas pressure. Partially closed gas valve. Obstruction in gas line or burner.	Ensure main gas supply is fully open. Turn the control key fully counter-clockwise. Inspect gas lines and burner for blockages.
Gas leak detected.	Loose gas connections. Damaged gas line or valve.	Immediately turn off gas supply. Tighten all connections. If leak persists or damage is visible, do not operate and contact a qualified technician.

8. Specifications

- **Model Number:** SK-FD0030-SS1
- **Fuel Type:** Natural Gas or Liquid Propane
- **BTU Rating:** 300,000 BTU
- **Gas Pressure:** 1/2 PSI
- **Ball Valve Connections:** 1/2 inch NPT (Female) inlet and outlet
- **Igniter Panel Base Dimensions:** 4 inches (H) x 5 inches (W)
- **Igniter Panel Face Plate Dimensions:** 8 inches (L) x 4 inches (H), extendable to 12 inches (L)
- **Item Weight:** 2.75 pounds
- **Package Dimensions:** 10.51 x 8.5 x 4.41 inches
- **Manufacturer:** Skyflame

9. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact Skyflame customer service directly. Keep your purchase receipt for warranty claims.

Manufacturer: Skyflame

Website: [Visit the Skyflame Store on Amazon](#)

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