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Flame King FK-4P-01E

Flame King Heavy Duty 120,000 BTU Propane Burner User Manual

Model: FK-4P-01E | Brand: Flame King

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient operation of your Flame King Heavy Duty 120,000 BTU Propane Burner. Designed for robust outdoor cooking, this single burner propane stove is ideal for a variety of uses including turkey frying, home brewing, maple syrup preparation, and Cajun cooking. Its portable and easy-to-set-up design makes it a versatile solution for camping, outdoor events, or as an emergency backup.



Image: The Flame King Heavy Duty 120,000 BTU Propane Burner, showcasing its sturdy black frame and integrated hose with regulator.

2. IMPORTANT SAFETY INFORMATION

WARNING: For outdoor use only. Do not operate indoors. Read all instructions before assembly and use of this appliance. Failure to follow these instructions could result in fire, explosion, or carbon monoxide poisoning, which could cause property damage, personal injury, or death.

- Always operate the burner on a level, non-combustible surface.

- Keep children and pets away from the burner during operation.
- Ensure adequate ventilation.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Check all gas connections for leaks using a soapy water solution before each use.
- Never leave the operating burner unattended.
- Allow the burner to cool completely before moving or storing.

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 Warning).

3. PACKAGE CONTENTS

Upon opening your Flame King Propane Burner package, please verify that all components are present and undamaged:

- Heavy-duty cast iron burner frame
- Cast iron burner head
- 0-20 PSI adjustable pressure regulator with 5-ft (1.5m) hose (QCC1 Type-1 Valve compatible)
- Assembly hardware (screws, washers, nuts)
- User Manual (this document)



Image: All components of the Flame King Propane Burner laid out, including the frame, burner head, hose with regulator, and instruction manual.

4. SETUP AND ASSEMBLY

Assembly of your Flame King Propane Burner is straightforward. Follow these steps:

1. Carefully remove all components from the packaging.
2. Unfold the burner frame and secure the legs using the provided hardware. Ensure all screws are tightened for stability.
3. Insert the cast iron burner head into the center of the frame and secure it with the appropriate screws.
4. Attach the 0-20 PSI adjustable pressure regulator hose to the burner's gas inlet. Hand-tighten securely.
5. Connect the other end of the regulator hose to a standard BBQ propane tank (QCC1 Type-1 Valve). Ensure a tight connection.
6. Before first use, perform a leak test: Apply a soapy water solution to all connections. If bubbles appear, there is a leak. Tighten connections or replace parts as necessary. Do not use if a leak is detected.



Image: A detailed diagram illustrating the components and assembly points of the Flame King Propane Burner, including the flame control knob, air/fuel mixture control, and 0-20 PSI adjustable pressure regulator.



Image: Close-up view of the regulator connecting to the burner's gas inlet, showing the secure attachment point.

Setup and Operation Video Guide:

Your browser does not support the video tag.

Video: This video demonstrates the assembly process and initial lighting of the Flame King Propane Burner, including connecting the regulator to the propane tank and adjusting the flame.

5. OPERATING INSTRUCTIONS

Once assembled and leak-tested, your Flame King Propane Burner is ready for use:

1. Ensure the burner's flame control knob is in the "OFF" position.
2. Slowly open the valve on your propane tank.
3. Carefully turn the burner's flame control knob to the "ON" position and immediately ignite the burner using a long lighter or match.
4. Adjust the flame intensity using the flame control knob. For an even blue flame, adjust the air supply regulator ring located near the burner head.
5. Place your cooking vessel (recommended diameter: 9-17 inches) securely on the burner grates.
6. After cooking, turn the burner's flame control knob to the "OFF" position, then close the valve on the propane tank.
7. Allow the burner to cool completely before disconnecting the propane tank or moving the unit.

HIGH QUALITY CAST IRON BURNER

120,000 BTU

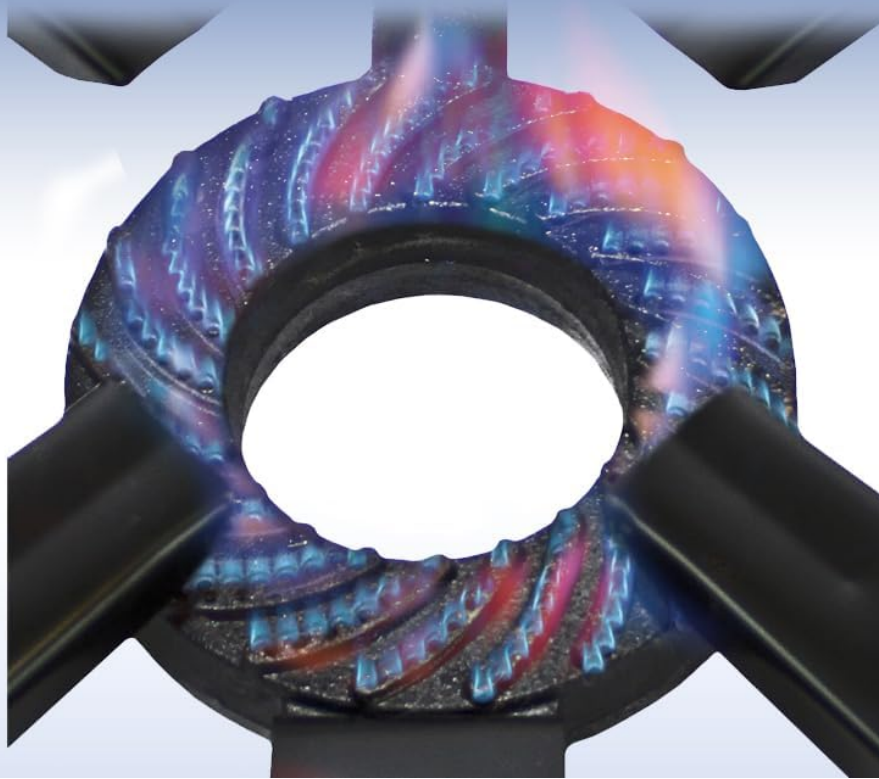


Image: A close-up of the burner head showing a strong, even blue flame, indicating proper air/fuel mixture.

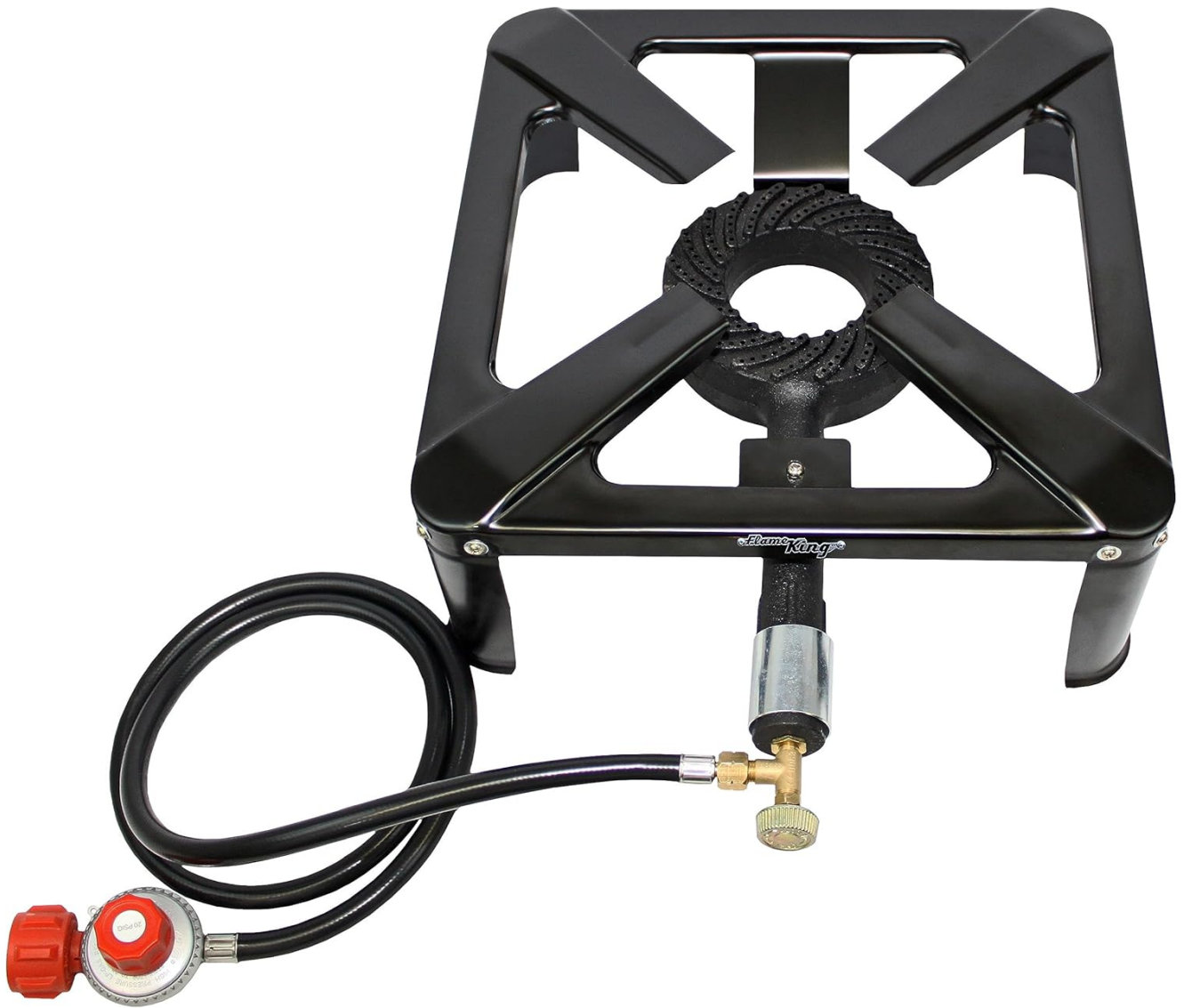


Image: The Flame King Propane Burner in outdoor use with a large pot, demonstrating its capacity for various cooking tasks.

6. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your Flame King Propane Burner:

- Clean the burner and frame regularly after each use, once cooled. Use a damp cloth and mild detergent. Avoid abrasive cleaners.
- Inspect the hose and connections for any signs of wear, cracks, or damage before each use. Replace if necessary.
- Ensure the burner ports are clear of debris. Use a small wire or needle to clear any blockages if the flame appears uneven.
- Store the burner in a dry, protected area when not in use to prevent rust and damage.

7. TROUBLESHOOTING

If you encounter issues with your Flame King Propane Burner, refer to the following common problems and

solutions:

Problem	Possible Cause	Solution
Burner does not light or has a very low flame.	Propane tank valve not fully open. Regulator safety device tripped. Gas line kinked or blocked. Low propane in tank.	Ensure tank valve is fully open. Close all valves, disconnect regulator, wait 30 seconds, reconnect, and slowly open tank valve. Check hose for kinks or blockages. Replace or refill propane tank.
Flame is yellow or orange.	Improper air/fuel mixture.	Adjust the air supply regulator ring until a blue flame is achieved.
Gas smell detected.	Gas leak.	Immediately turn off gas at the tank. Perform a leak test with soapy water. Do not use if leak persists. Contact qualified service personnel.

8. SPECIFICATIONS

- **Brand:** Flame King
- **Model Number:** FK-4P-01E
- **Fuel Type:** Propane
- **Maximum Energy Output:** 120,000 British Thermal Units (BTU)
- **Pressure Regulator:** 0-20 PSI adjustable, with 5-ft (1.5m) hose
- **Material:** Cast Iron, Carbon Steel
- **Product Dimensions:** 15.5"L x 15.5"W x 6.5"H
- **Item Weight:** 9 Pounds
- **Recommended Cooking Pan Diameter:** 9-17 inches
- **UPC:** 850034692326



Image: A close-up view of the Flame King burner's cast iron construction, highlighting its robust design.

9. WARRANTY AND SUPPORT

Your Flame King Heavy Duty Propane Burner comes with a **1-Year Manufacturer's Defect Warranty**.

For warranty claims, technical support, or replacement parts, please refer to the contact information provided on the Flame King official website or your purchase documentation. You can also find additional resources and FAQs on the [Flame King Store on Amazon](#).

An official User Manual (PDF) is also available for download: [Download PDF Manual](#)