

## Lemfema 10-Foot Natural Gas Hose Conversion Kit

# Lemfema 10-Foot Natural Gas Hose Conversion Kit User Manual

Model: 10-Foot Natural Gas Hose Conversion Kit

## 1. INTRODUCTION

This manual provides essential instructions for the safe and proper installation, operation, and maintenance of your Lemfema 10-Foot Natural Gas Hose Conversion Kit. This kit is designed to convert outdoor cooking appliances from propane to a natural gas connection, ensuring a reliable low-pressure gas supply.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these instructions could result in fire, explosion, property damage, personal injury, or death.**

- This kit is suitable only for **low-pressure natural gas applications**. Do not use for high-pressure applications or with propane gas unless specifically designed for such conversion.
- Do not use the product over **1/2 PSI applications**.
- Ensure the hose is kept **far from open flames or heat sources** during installation and operation.
- Always check for gas leaks using a soapy water solution after installation and before each use. Never use an open flame to check for leaks.
- Installation should be performed by a qualified professional if you are unsure about any steps.
- Turn off the gas supply at the source before connecting or disconnecting any gas lines.
- Ensure all connections are tight and secure to prevent gas leaks.

## 3. PRODUCT COMPONENTS

The Lemfema Natural Gas Hose Conversion Kit includes the following components:

- One (1) 2.13-foot Low Pressure Natural Gas Hose (1/2" Male NPT to 3/8" Female Flare)
- One (1) 10-foot Low Pressure Natural Gas Hose (1/2" Male NPT to 3/8" Female Flare)

- One (1) 5-inch Water Column Range Pressure Regulator

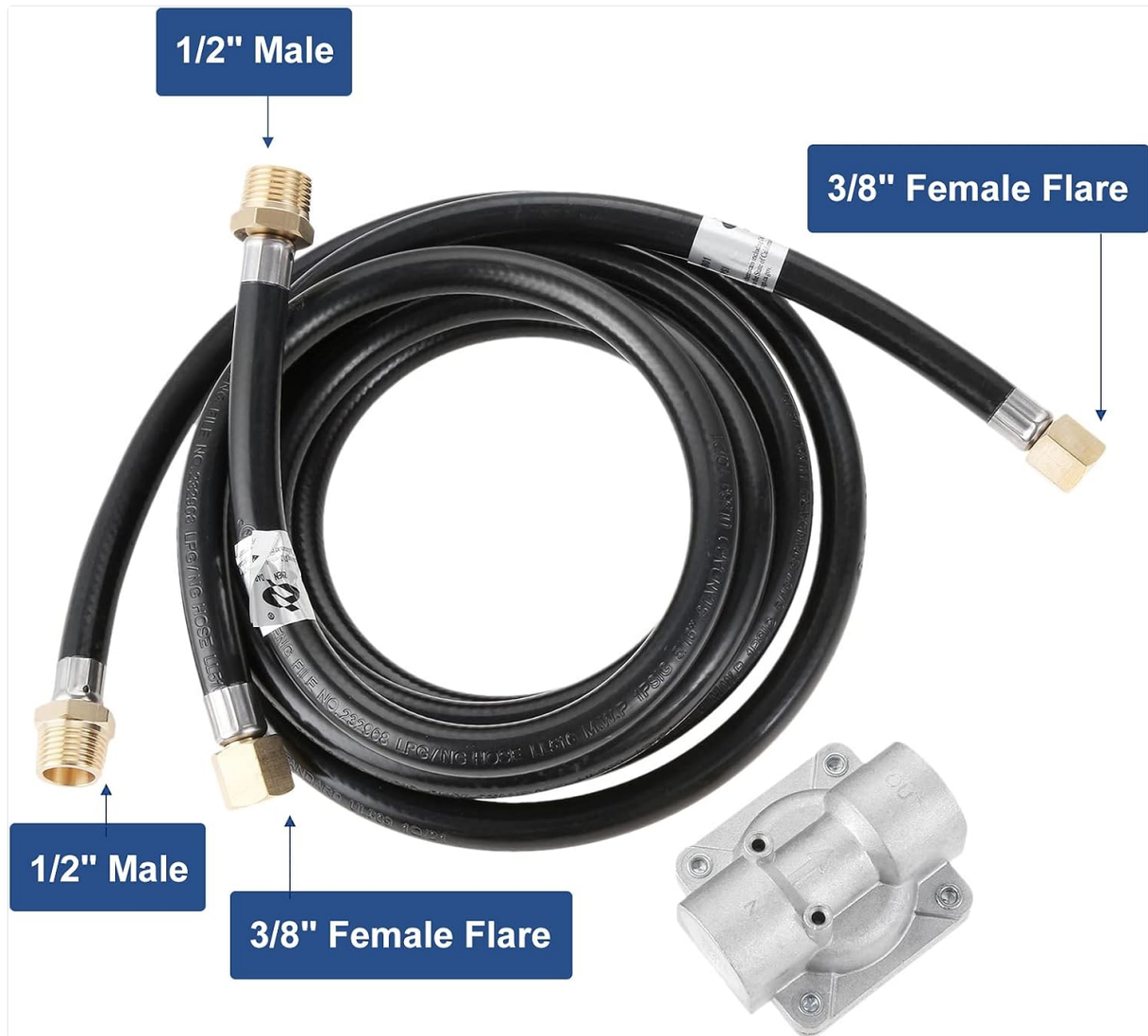


Figure 3.1: Overview of the Lemfema Natural Gas Hose Conversion Kit components, highlighting the 1/2" Male NPT and 3/8" Female Flare connections on the hoses and the pressure regulator.



Figure 3.2: Detailed view of the pressure regulator integrated with the hoses, showing the connection points.



Figure 3.3: Close-up of the 5-inch water column pressure regulator.

## 4. SETUP AND INSTALLATION

Follow these steps to properly install the natural gas hose conversion kit:

1. **Ensure Gas Supply is Off:** Before beginning installation, turn off the natural gas supply at the main valve.
2. **Connect Regulator to Appliance:** The pressure regulator has a 1/2" Male NPT fitting. Connect this to the 1/2" Female NPT inlet of your natural gas appliance (e.g., grill, cooking range). Use appropriate thread sealant for gas connections.
3. **Connect Hoses to Regulator:** The hoses have 1/2" Male NPT fittings on one end and 3/8" Female Flare fittings on the other. Connect the 1/2" Male NPT ends of both the 2.13-foot and 10-foot hoses to the outlet ports of the pressure regulator. Ensure these connections are tight.
4. **Connect Hoses to Natural Gas Supply:** The 3/8" Female Flare end of the 10-foot hose is designed to connect to your natural gas supply manifold or quick-connect fitting. The 3/8" Female Flare end of the 2.13-foot hose is typically used for connecting to the appliance's internal gas line if it has a 3/8" Male Flare connection.
5. **Secure All Connections:** Hand-tighten all connections, then use a wrench to tighten them an additional 1/4 to 1/2 turn. Do not overtighten.
6. **Check for Leaks:** Turn on the natural gas supply slowly. Apply a soapy water solution to all connections. If bubbles appear, there is a leak. Turn off the gas supply immediately and re-tighten the connection. Repeat the leak test until no bubbles are observed.

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Video 4.1: This video demonstrates the components and assembly process of the Lemfema Natural Gas Hose Conversion Kit, showing how the hoses connect to the pressure regulator.

## 5. OPERATING INSTRUCTIONS

Once the kit is properly installed and leak-tested:

- Ensure all appliance control knobs are in the OFF position.
- Slowly open the natural gas supply valve.
- Follow your appliance's specific operating instructions to ignite and use it.
- After use, turn off the appliance control knobs and then close the natural gas supply valve.

## 6. MAINTENANCE

Regular maintenance ensures safe and efficient operation:

- **Inspect Hoses:** Periodically check the hoses for any signs of wear, cracks, cuts, or damage. Replace immediately if any damage is found.
- **Check Connections:** Regularly inspect all gas connections for tightness. Re-perform a soapy water leak test if you suspect a leak or after moving the appliance.
- **Clean Regulator:** Keep the pressure regulator clean and free from debris. Do not attempt to disassemble the regulator.
- **Storage:** If storing the appliance for an extended period, disconnect the gas supply and store the hose kit in a clean, dry place away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Gas leak detected (bubbles during soapy water test)	Loose connection, damaged hose/fitting	Turn off gas supply. Re-tighten all connections. Inspect hoses and fittings for damage and replace if necessary. Re-test for leaks.
Appliance not receiving gas or low flame	Gas supply valve closed, kinked hose, faulty regulator, incorrect pressure setting	Ensure gas supply valve is fully open. Check hose for kinks. Verify regulator is installed correctly and not obstructed. If issues persist, consult a professional.
Hose appears damaged	Wear and tear, physical damage	Immediately turn off gas supply. Do not use the damaged hose. Replace with a new, compatible hose.

## 8. SPECIFICATIONS

- **Hose Lengths:** 2.13 feet and 10 feet

- **Connections:** 1/2" Male NPT x 3/8" Female Flare
- **Regulator Type:** 5-inch Water Column Range Pressure Regulator
- **Application:** Low pressure natural gas only (Max 1/2 PSI)
- **Material:** Flexible hose with brass connections
- **Item Weight:** 2.16 pounds
- **Manufacturer:** Lemfema

## 9. WARRANTY AND SUPPORT

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For any issues or questions regarding your Lemfema Natural Gas Hose Conversion Kit, please contact Lemfema customer service. Please confirm the product size before purchase to avoid wasting your money and time. If there is any problem with the kit, please contact us as soon as possible, we will reply you in time.