

ALLIANCE LAUNDRY SYSTEMS 458P3

ALLIANCE LAUNDRY SYSTEMS LP Gas Conversion Kit 458P3 Instruction Manual

1. INTRODUCTION

This instruction manual provides essential information for the safe and correct installation and use of the ALLIANCE LAUNDRY SYSTEMS LP Gas Conversion Kit, model 458P3. This kit is designed to convert specific natural gas (NG) dryers to operate on liquid propane (LP) gas. Proper installation is critical for safety and appliance performance.

This kit is compatible with various dryer brands including Ipso, Huebsch, Speed Queen, Unimac, Econo-Wash, Primus, and other Alliance Laundry Systems models.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Installation must be performed by a qualified service technician or gas installer.
- Ensure the gas supply to the dryer is turned off before beginning any conversion procedures.
- Disconnect electrical power to the dryer before installation.
- Always check for gas leaks after conversion using a non-corrosive leak detection solution. Never use an open flame.
- Ensure adequate ventilation during and after installation.
- Keep flammable materials away from the dryer.

3. KIT CONTENTS

The ALLIANCE LAUNDRY SYSTEMS LP Gas Conversion Kit 458P3 includes the necessary components for converting your dryer from natural gas to liquid propane.



Image 1: Components of the LP Gas Conversion Kit 458P3. This image displays two brass gas orifices (one with a white plastic tip, one without) and several white adhesive labels. The labels are printed with conversion information in English, French, and Spanish, indicating the dryer has been converted to LP gas, along with spaces for date, kit number (458P3), installer's name, and address. Other labels specify orifice size (#53), BTU/hour (25,000), and manifold/inlet pressure settings for LP gas.

The kit typically contains:

- One (1) LP gas orifice, size #53.
- Conversion labels for the dryer's rating plate and control panel.

4. SETUP AND INSTALLATION

4.1 Pre-Installation Steps

1. Ensure the dryer is disconnected from the electrical supply and the natural gas supply valve is closed.
2. Verify that the area is well-ventilated.
3. Gather necessary tools, which may include wrenches, screwdrivers, and a gas leak detection solution.
4. Locate the dryer's gas valve and burner assembly. Refer to your dryer's specific service manual for detailed component locations.

4.2 Conversion Procedure

1. **Replace Orifice:** Carefully remove the existing natural gas orifice from the burner assembly. Install the new LP gas orifice, size #53, provided in this kit. Ensure it is securely tightened to prevent leaks.
2. **Adjust Pressure Regulator:** Locate the gas pressure regulator on the dryer's gas valve. Adjust the regulator for LP gas operation. The manifold pressure for LP gas should be set to **10.5 inches Water Column (W.C.)**. The inlet pressure should be between **8.5 inches W.C. (minimum)** and **11.5 inches W.C. (maximum)**. Consult your dryer's service manual for specific regulator adjustment instructions.
3. **Apply Conversion Labels:** Affix the provided conversion labels to the dryer. One label should be placed near the existing rating plate, and another on the control panel, as indicated by the label instructions. These labels confirm the dryer has been converted to LP gas. Fill in the date of conversion, kit number (458P3), and the name and address of the converting organization or individual.
4. **Leak Test:** After reassembling the dryer and reconnecting the LP gas supply, perform a thorough leak test on all gas connections using a non-corrosive leak detection solution. Bubbles indicate a leak. Tighten connections as needed and retest until no leaks are detected.
5. **Verify Operation:** Reconnect electrical power. Turn on the LP gas supply. Operate the dryer through a

full cycle to ensure proper ignition and heating. Observe the flame for proper appearance (blue, stable flame).

5. OPERATING INSTRUCTIONS

After successful conversion and verification, operate your dryer according to its original operating manual. The primary change is the type of gas used. Always ensure proper ventilation and never operate the dryer if you detect a gas odor.

6. MAINTENANCE

Regular maintenance of your LP gas dryer is similar to a natural gas dryer. Periodically:

- Inspect the gas supply line and connections for any signs of wear or leaks.
- Clean the lint filter before or after every load.
- Ensure the exhaust vent is clear of obstructions to maintain proper airflow and prevent fire hazards.
- For any issues related to gas components, contact a qualified service technician.

7. TROUBLESHOOTING

If your dryer experiences issues after conversion, consider the following:

- **No Heat or Weak Heat:** Verify the LP gas supply is open and the tank is not empty. Check that the gas pressure regulator is correctly set to 10.5" W.C.
- **Gas Odor:** Immediately turn off the gas supply and disconnect power. Do not operate the dryer. Ventilate the area and contact a qualified service technician or your gas provider. Do not attempt to locate the leak yourself with an open flame.
- **Dryer Not Starting:** Ensure all electrical connections are secure and the dryer door is properly closed. This is typically not related to gas conversion.

For persistent problems, consult a qualified appliance technician.

8. SPECIFICATIONS

Feature	Specification
Part Number	458P3
Orifice Size	#53
BTU/Hour	25,000
Manifold Pressure (LP)	10.5" W.C.
Inlet Pressure (LP)	8.5" W.C. (Min) - 11.5" W.C. (Max)
Material	Alloy Steel, Stainless Steel
Item Weight	4.3 ounces
Package Dimensions	11.9 x 10.35 x 0.9 inches

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding the ALLIANCE LAUNDRY SYSTEMS LP Gas Conversion Kit 458P3, please refer to the documentation provided with your original dryer or contact ALLIANCE LAUNDRY SYSTEMS directly through their official website or customer service channels.