

goodman lp conversion kit instructions

Goodman LP Conversion Kit Instructions are essential for homeowners looking to convert their natural gas heating systems to propane. This conversion not only allows for greater flexibility in fuel choice but can also lead to improved efficiency and cost savings. In this article, we will provide a comprehensive guide to understanding and utilizing the Goodman LP conversion kit, ensuring you have a smooth and successful conversion process.

Understanding the Goodman LP Conversion Kit

Before diving into the installation instructions, it's important to understand what a Goodman LP conversion kit is and why it's necessary. This kit contains all the components required to convert your Goodman gas furnace or air conditioning unit from natural gas to propane. The conversion is crucial because the two types of gas have different properties and require specific adjustments to ensure safe and efficient operation.

Components of the Goodman LP Conversion Kit

Typically, a Goodman LP conversion kit will include the following components:

- Gas valve adjustment kit
- Burner orifice replacements
- Regulator adjustment instructions
- Conversion label

Each component plays a vital role in the conversion process, ensuring that the system operates safely and efficiently on propane.

Safety Precautions Before Starting the Conversion

Before beginning the conversion process, it's important to take the necessary safety precautions:

1. Turn off the power to the heating system.
2. Shut off the gas supply to the unit.
3. Ensure that you have the proper tools available, including wrenches, screwdrivers, and any

additional items specified in the kit.

4. Work in a well-ventilated area to avoid gas build-up.
5. Wear safety goggles and gloves for protection.

Following these precautions will help ensure a safe working environment during the conversion.

Step-by-Step Instructions for Converting Goodman Units

The following instructions will guide you through the LP conversion process for your Goodman heating system. While the specific steps may vary slightly depending on the model, the general process remains consistent.

Step 1: Prepare the Unit

1. Disconnect Power and Gas Supply: As mentioned earlier, turn off the power and gas supply to the unit.
2. Access the Burner Assembly: Remove the access panel to reach the burner assembly. This usually involves unscrewing a few screws.

Step 2: Replace the Burner Orifices

1. Identify the Existing Orifices: Locate the existing burner orifices, which are typically brass fittings at the top of the burners.
2. Remove Existing Orifices: Using a wrench, carefully unscrew the natural gas orifices.
3. Install New Propane Orifices: Take the provided propane orifices from the conversion kit and install them in the same locations. Ensure they are tightened securely but do not overtighten, as this can damage the fittings.

Step 3: Adjust the Gas Valve

1. Locate the Gas Valve: The gas valve is usually found near the furnace or heating unit's burners.
2. Adjust the Valve: Follow the instructions included in the conversion kit to adjust the gas valve for propane use. This may involve turning specific screws or switches to the 'LP' setting.
3. Label the Conversion: After making the adjustment, affix the conversion label provided in the kit to the unit, indicating that it has been converted to propane.

Step 4: Check the Regulator

1. Inspect the Regulator: The gas regulator must also be adjusted for propane. Check the manufacturer's specifications for the correct pressure settings.
2. Adjust if Necessary: If the regulator is not set correctly, adjust it according to the instructions provided in the kit.

Step 5: Reassemble and Test the Unit

1. Reassemble the Access Panel: Once all adjustments and replacements are complete, replace the access panel securely.
2. Reconnect the Gas Supply: Turn on the propane gas supply, and ensure all connections are tight to prevent leaks.
3. Restore Power: Turn the power back on to the unit.
4. Perform a Leak Test: Before operating the system, perform a leak test using a soap solution on all joints and connections. If bubbles form, there is a leak that needs to be addressed before proceeding.
5. Test Operation: Finally, turn on the unit and monitor its operation. Listen for any unusual noises and check that the burners ignite properly.

Common Issues During Conversion

While the process is straightforward, you may encounter some common issues:

1. Gas Leaks

If you smell gas or see bubbles during the leak test, immediately turn off the gas supply and check all connections for tightness. If leaks persist, consult a professional.

2. Incomplete Combustion

If the flames appear yellow instead of blue after conversion, it may indicate improper adjustments. Check the orifice sizing and gas valve settings again.

Conclusion

Converting your Goodman heating system with an LP conversion kit can enhance your home's energy flexibility and efficiency. By following the above instructions carefully, you can ensure a safe and effective conversion process. If at any point you feel uncertain about the process, do not hesitate to contact a certified HVAC professional for assistance. Proper installation and adjustments are crucial for the safe operation of your heating system on propane.

Frequently Asked Questions

What is a Goodman LP conversion kit used for?

A Goodman LP conversion kit is used to convert a natural gas furnace to operate on propane (LP gas), ensuring compatibility with different fuel sources.

How do I know if I need a Goodman LP conversion kit?

You need a Goodman LP conversion kit if your furnace is set up for natural gas but you plan to use propane as your fuel source.

What tools are required to install a Goodman LP conversion kit?

Common tools required include a screwdriver, wrench set, pliers, and possibly a gas leak detector for safety.

Are there specific instructions for installing the Goodman LP conversion kit?

Yes, the installation instructions for the Goodman LP conversion kit are provided with the kit and typically include step-by-step guidance for a safe and effective conversion.

Can I install the Goodman LP conversion kit myself?

While it is possible to install the Goodman LP conversion kit yourself, it is recommended to hire a licensed HVAC technician to ensure safety and compliance with local codes.

What safety precautions should I take when converting to LP gas?

Ensure the gas supply is turned off, use gas leak detection methods, and follow all manufacturer instructions carefully to avoid any hazards during conversion.

Is a permit required for installing a Goodman LP conversion kit?

Permits may be required depending on local regulations. It's best to check with your local authorities to ensure compliance before proceeding with the installation.

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