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Hearth Products Controls UMVK-NP

Universal Millivolt Pilot Kit Instruction Manual

Model: UMVK-NP
Brand: Hearth Products Controls

Introduction

This manual provides essential information for the safe and proper installation, operation, and maintenance of your Hearth Products Controls Robertshaw 7000 Series Universal Millivolt Pilot Kit (UMVK-NP). This kit is designed to provide a high-quality replacement millivolt gas valve for fireplace and heating applications. It is rated for 82,000 BTU and 225°F and is compatible with both natural gas and propane installations.
Please read this manual thoroughly before installation and keep it for future reference. Adherence to these instructions and all local codes is crucial for safe and efficient operation.

Important 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 professional in accordance with all local codes and regulations, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.
- Ensure all gas and electrical connections are properly sealed and tested for leaks before operation.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Always turn off the gas supply to the appliance before performing any service or maintenance.
- Verify that the gas type (natural gas or propane) matches the valve's configuration.

Package Contents

The Hearth Products Controls Robertshaw 7000 Series Universal Millivolt Pilot Kit (UMVK-NP) includes the following components:

- Robertshaw 7000 Series Millivolt Gas Valve
- Pilot Assembly
- Vermiculite (for insulation)
- Various Fittings (for gas connections)

- Insulated Heat Shield
- Flexible Gas Lines
- Mounting Hardware



Figure 1: Components of the UMVK-NP kit. This image displays the main gas valve, pilot assembly with thermocouple and thermopile, a bag of vermiculite, various brass and black iron fittings, an insulated heat shield, and two flexible gas lines.

Setup and Installation

NOTE: Installation should only be performed by a qualified gas appliance installer or service agency. Failure to follow these instructions can result in fire, explosion, or carbon monoxide poisoning, causing property damage, personal injury, or death.

1. **Preparation:** Ensure the main gas supply to the appliance is turned off. Disconnect any existing gas lines and components.
2. **Mounting the Valve:** Securely mount the Robertshaw 7000 Series gas valve in an accessible location, ensuring it is protected from excessive heat. Use the provided mounting hardware.
3. **Gas Connections:**
    - Apply pipe thread sealant (suitable for gas) to all male pipe threads.
    - Connect the main gas supply line to the inlet of the gas valve.
    - Connect the flexible gas lines and appropriate fittings from the valve outlet to the appliance's burner.
    - Ensure all connections are tight and secure.
4. **Pilot Assembly Installation:**
    - Mount the pilot assembly in a position that ensures proper ignition of the main burner.
    - Connect the pilot tubing from the gas valve to the pilot assembly.
    - Connect the thermocouple and thermopile leads from the pilot assembly to the appropriate terminals on the gas valve (TH and TP/TH terminals).
5. **Heat Shield and Vermiculite:** Position the insulated heat shield as directed by the appliance manufacturer to protect the valve from radiant heat. Distribute the vermiculite around the pilot assembly and gas connections as

needed for insulation and flame protection.

6. **Leak Test:** After all connections are made, slowly turn on the main gas supply. Use a leak detection solution (soap and water) to check all gas connections for leaks. Bubbles indicate a leak. If a leak is detected, turn off the gas, tighten the connection, and re-test.
7. **Ventilation:** Ensure adequate ventilation for the appliance and the room where it is installed.

Operating Instructions

This millivolt pilot kit operates in conjunction with a millivolt thermostat or switch. The system generates its own electricity from the heat of the pilot flame, eliminating the need for external power.

1. **Lighting the Pilot:**
    - Ensure the gas control knob on the valve is in the "OFF" position.
    - Turn the knob to the "PILOT" position.
    - Press and hold the knob down. Simultaneously, use a long lighter or match to ignite the pilot flame.
    - Continue to hold the knob down for approximately 30-60 seconds after the pilot lights. This allows the thermocouple to heat up and generate enough millivoltage to hold the pilot valve open.
    - Release the knob. If the pilot extinguishes, repeat the process.
2. **Turning on the Main Burner:**
    - Once the pilot is lit and stable, turn the gas control knob from "PILOT" to the "ON" position.
    - The main burner will now be ready to operate when called for by the thermostat or switch.
3. **Turning off the Appliance:**
    - To turn off the main burner, set the thermostat to its lowest setting or turn off the wall switch.
    - To turn off the pilot and the entire appliance, turn the gas control knob to the "OFF" position.

Maintenance

Regular maintenance ensures the longevity and safe operation of your millivolt pilot kit. It is recommended that a qualified service technician inspect your gas appliance and its components annually.

- **Pilot Flame Inspection:** Periodically check the pilot flame. It should be strong, blue, and engulf the tip of the thermocouple and thermopile. A weak, yellow, or wavering flame may indicate a dirty pilot orifice or low gas pressure.
- **Cleaning:** Keep the pilot assembly area clean and free of dust, lint, or debris. Use a soft brush or compressed air to gently clean the pilot orifice and surrounding components.
- **Connections:** Annually inspect all gas connections for signs of corrosion or leaks. Re-test for leaks if any connections have been disturbed.
- **Component Wear:** Over time, components like the thermocouple and thermopile may wear out. If the pilot frequently goes out or the main burner fails to ignite, these components may need replacement.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Pilot will not light or stay lit.	No gas supply. Pilot orifice clogged. Thermocouple faulty or not heated. Gas control knob not held long enough.	Check main gas supply valve. Clean pilot orifice. Ensure pilot flame engulfs thermocouple tip; replace thermocouple if necessary. Hold knob down for 30-60 seconds after pilot lights.
Main burner does not ignite.	Pilot not lit or weak. Thermopile faulty or not generating enough millivoltage. Thermostat/switch not calling for heat. Gas control knob not in "ON" position.	Relight pilot; ensure strong flame. Ensure pilot flame engulfs thermopile; replace thermopile if necessary. Check thermostat setting or wall switch. Turn gas control knob to "ON".
Smell of gas.	Gas leak.	**Immediately turn off gas supply. Ventilate area. Do not operate appliance. Contact a qualified service technician.**

If you are unable to resolve an issue after consulting this troubleshooting guide, contact a qualified service technician.

Specifications

Model Number	UMVK-NP
Brand	Hearth Products Controls (HPC)
Valve Type	Millivolt Gas Valve
BTU Rating	82,000 BTU
Max Temperature Rating	225°F (107°C)
Gas Compatibility	Natural Gas (NG) or Propane (LP)
Material	Metal
Product Dimensions (L x W x H)	1 x 13 x 13 inches
Item Weight	6 pounds
Certifications	ASME, ANSI, CSA, UL, IAPMO

Warranty and Support

For specific warranty information regarding your Hearth Products Controls Robertshaw 7000 Series Universal Millivolt Pilot Kit, please refer to the warranty documentation included with your purchase or visit the official Hearth Products Controls website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase. For technical support, replacement parts, or service inquiries, please contact Hearth Products Controls directly or your authorized dealer. When contacting support, please have your product model number (UMVK-NP) and purchase

information readily available.

Hearth Products Controls Contact Information:

Please refer to the manufacturer's official website or product packaging for the most current contact details.

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