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Poagavgs PP204 HA3004

Poagavgs PP204 HA3004 Rotor Kit Instruction Manual

Replacement Rotor Kit for Desa, Master, Reddy, Sears, and other Space Heaters

1. Introduction

This instruction manual provides essential information for the installation and maintenance of the Poagavgs PP204 HA3004 1/2" Rotor Kit. This kit is designed as a replacement part for various forced-air kerosene and diesel space heaters. Proper installation and maintenance are crucial for the safe and efficient operation of your heater.
Always refer to your specific heater's original manufacturer manual for detailed disassembly and reassembly instructions, safety precautions, and specific torque settings. This manual supplements, but does not replace, the original heater documentation.

2. Product Overview

The PP204 HA3004 Rotor Kit is a critical component in the air pump assembly of compatible space heaters. It consists of a rotor and a set of vanes, which work together to create the necessary air pressure for fuel atomization and combustion. This kit is manufactured from durable polypropylene material to ensure reliable performance.

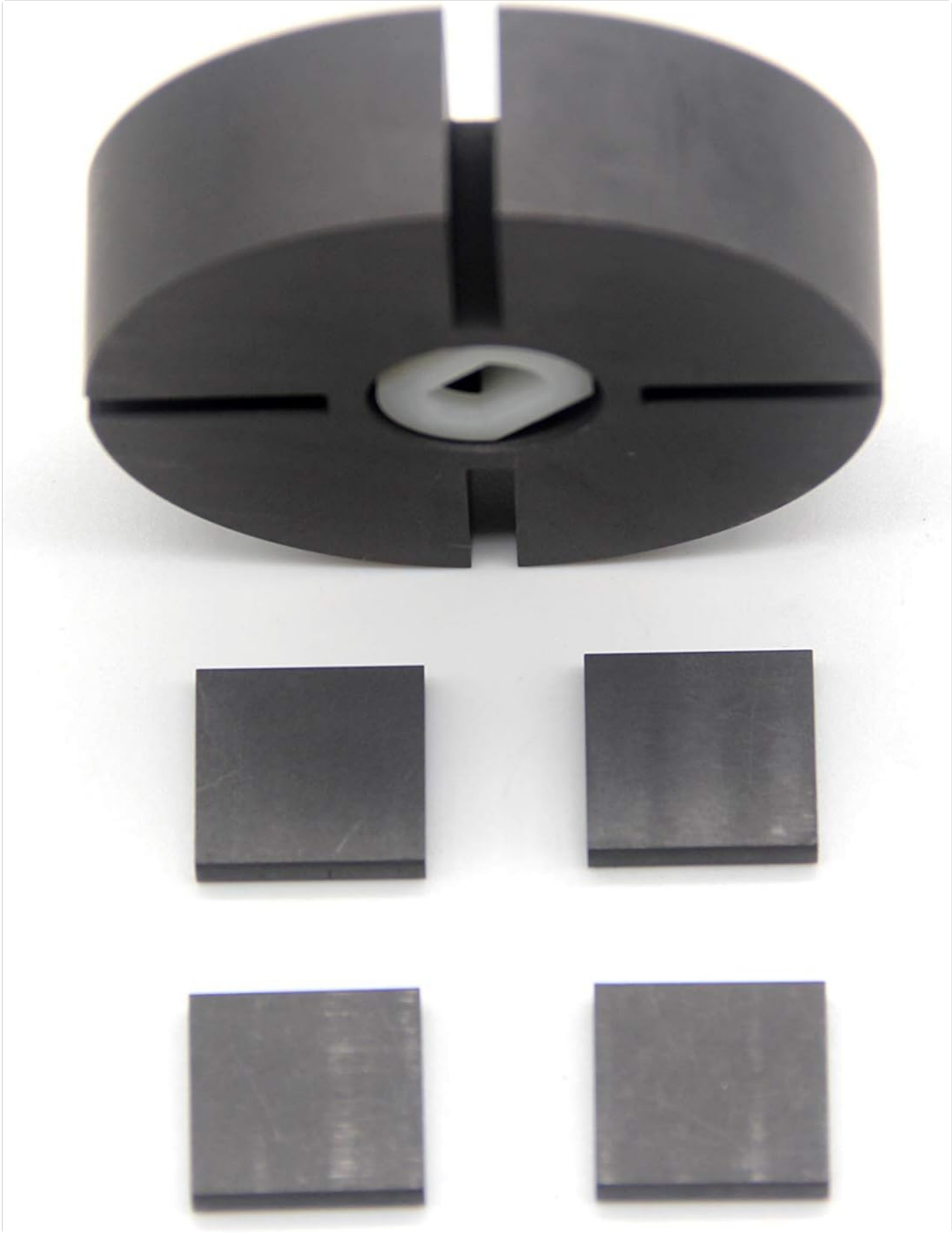


Image 1: The Poagavgs PP204 HA3004 Rotor Kit, including the main rotor component and four individual vanes.

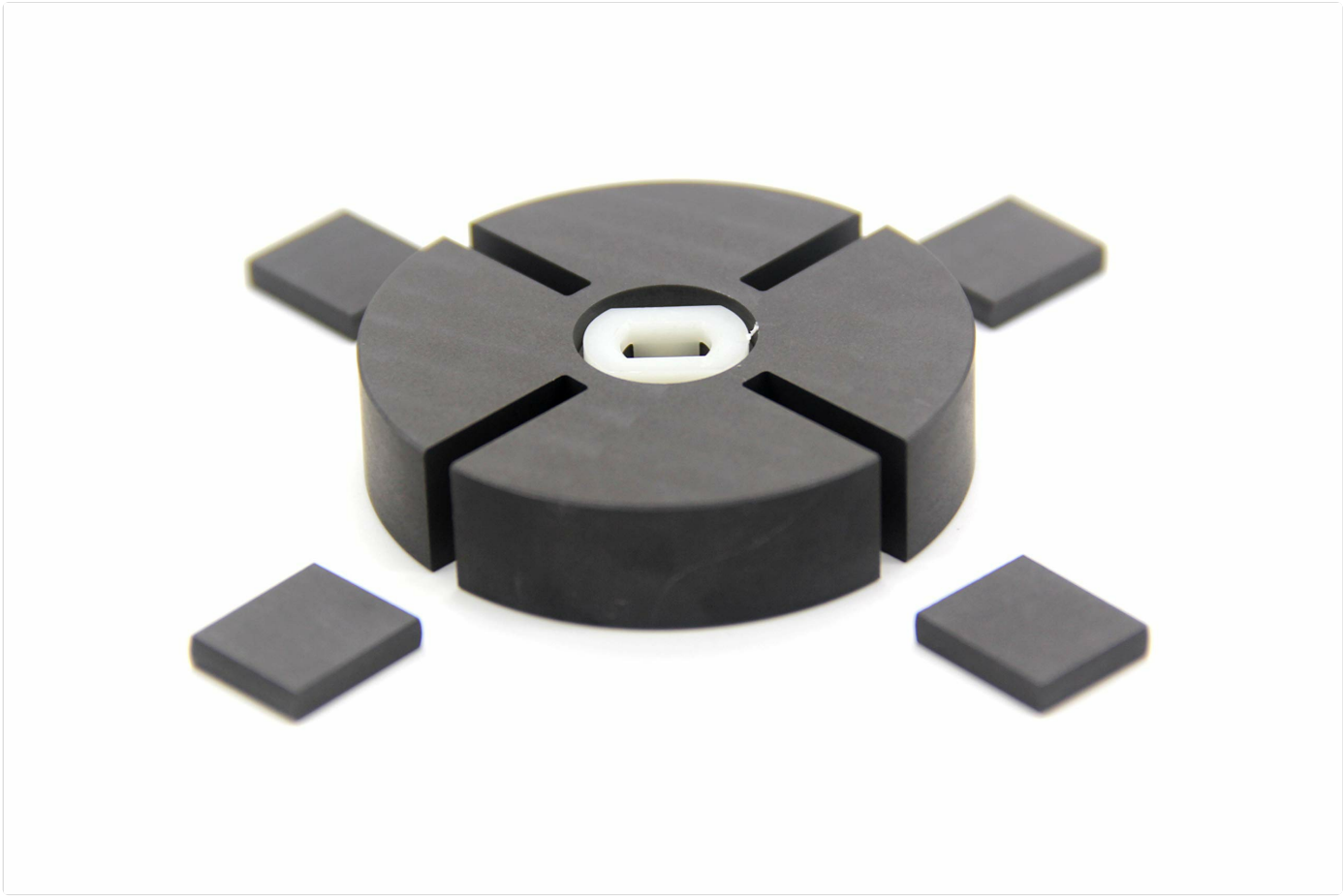


Image 2: A detailed view of the PP204 HA3004 rotor, highlighting its central shaft opening and vane slots.

3. Parts List

The Poagavgs PP204 HA3004 Rotor Kit includes the following components:

- 1x Rotor (1/2" thick, 2 1/8" diameter)
- 4x Vanes
- 1x Insert (typically pre-installed in the rotor)

These parts are designed to replace original components with part numbers such as PP204, HA3004, M22456-1, 70-022-0100, 700220100, 71-022-1300, 710221300, SP-KFA1000, SPKFA1000, KFA1000, and 68-3043.

4. Compatibility

This rotor kit is compatible with a wide range of forced-air space heaters from various brands. Please verify your heater's model number against the list below to ensure compatibility. If your heater's original part number matches any of those listed in Section 3, this kit is likely compatible.

Compatible Heater Brands and Models:

- **Reddy Heater:** R30, R35, R35A, R35B, R50, R50A, R50B, R70, R70A, R70B, R70BT, R70CT, R100, R100A, R100B, R110, R150, R150A, R150AT, R150B, R150BT, R150D, R150M, R155, R165, M30, M50A, M66D, M100D.
- **DESA:** C35, C35A, C35B, C50D, C50E, C50F, C100D, C100E, C100F, C150D, C150E, C150F.
- **Master:** B50A, B50B, B50D, B50E, B50F, B66D, B70B, B70BT, B70D, B100A, B100B, B100D, B100G, B110, B110A&B, B150B, B150C, B150F, B150FT, B150G, B150GT, B150M, B165, B200, B200AT, B350, B600.
- **Knipco:** F30, F50A, F50E, F50F, F50G, F66D, F110D, F110E, F110F, F110G, F110H, F150F, F150G, F150H.

- **Remington:** REM35, REM35A, REM50, REM50W, REM50A, REM50AW, REM100, REM100A, REM110, REM150, REM150A, REM150B, REM165.
- **Koehring:** K30, K50A, K100, K100A, PKC70ET, PKC115DT, PKC165DT.
- **Other Brands:** Dayton, ProTemp, Heat-Stream, WorkHorse, Heat Hog, SunStream, Dyna-Glo, Thermoheat, Dyna Glo Pro, Dyna Glo Delux, Mi-T-M, Pinnacle, Sears, TSC.

5. Installation (Setup)

Safety First: Before attempting any repair or installation, ensure the heater is unplugged from its power source and has completely cooled down. Wear appropriate personal protective equipment, such as gloves and eye protection.

1. **Access the Air Pump:** Locate and carefully remove the outer casing or cover of your heater to gain access to the air pump assembly. Refer to your heater's specific manual for exact instructions on accessing internal components.
2. **Remove Old Rotor Kit:**
    - Carefully detach any hoses or connections to the air pump.
    - Unscrew and remove the air pump housing.
    - Extract the old rotor and vanes. Note their orientation and how they fit within the pump housing. It is common for old vanes to be worn or broken.
3. **Clean the Assembly:** Thoroughly clean the air pump housing and surrounding areas to remove any debris, dust, or oil residue. A clean environment is essential for optimal performance and longevity of the new parts.
4. **Install New Rotor and Vanes:**
    - Insert the new vanes into the slots of the new rotor. Ensure they slide freely.
    - Carefully place the new rotor assembly into the air pump housing, ensuring it is correctly seated and aligned with the motor shaft. The vanes should be able to move freely within their slots.
5. **Reassemble:**
    - Reattach the air pump housing, ensuring all screws are tightened securely but do not overtighten.
    - Reconnect any hoses or electrical connections that were detached.
    - Replace the heater's outer casing or cover.
6. **Test Operation:** After reassembly, plug in the heater and perform a test run according to the manufacturer's instructions. Observe for proper operation, including consistent flame and adequate heat output.

If you are unsure about any step, consult a qualified technician or refer to online resources specific to your heater model.

6. Operating Instructions

The Poagavgs PP204 HA3004 Rotor Kit is an internal component of your space heater's air pump system. It does not have separate operating controls. Once correctly installed, its function is integrated into the overall operation of the heater.
For instructions on how to operate your space heater, including starting, stopping, and adjusting heat settings, please refer to the original operating manual provided with your heater.

7. Maintenance

Regular maintenance of your heater's air pump, including the rotor and vanes, can extend the life of the unit and ensure efficient operation.

- **Periodic Inspection:** Annually, or before each heating season, inspect the rotor and vanes for signs of wear, cracks, or damage. Replace the kit if any damage is observed.
- **Cleaning:** Keep the air pump housing and the rotor/vane assembly clean. Dust and debris can impede vane movement and reduce air pressure. Use a soft brush or compressed air to remove buildup.
- **Lubrication:** The vanes are typically self-lubricating or operate dry. Do not apply oil or grease unless specifically instructed by your heater's manufacturer, as this can attract dust and cause issues.

Always disconnect power and allow the heater to cool before performing any maintenance.

8. Troubleshooting

If your heater is experiencing issues after installing the new rotor kit, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Heater not starting or inconsistent flame	• Incorrect rotor/vane installation • Vanes stuck or damaged • Air leaks in pump housing • Other heater component failure (e.g., fuel filter, nozzle, igniter)	• Re-check rotor and vane seating. Ensure vanes move freely. • Inspect pump housing for proper sealing. • Consult heater's manual for other potential causes.
Reduced air pressure	• Worn or damaged vanes • Debris in air pump • Improperly sealed pump housing	• Inspect and replace vanes if necessary. • Clean air pump assembly. • Ensure pump housing is securely fastened.

If problems persist after troubleshooting, it is recommended to contact a qualified service technician.

9. Specifications

- **Part Numbers:** PP204, HA3004 (also replaces M22456-1, 70-022-0100, 700220100, 71-022-1300, 710221300, SP-KFA1000, SPKFA1000, KFA1000, 68-3043)
- **Rotor Dimensions:** 1/2" (12.7 mm) thick, 2 1/8" (54 mm) diameter
- **Material:** Polypropylene
- **Item Weight:** Approximately 0.09 Kilograms (0.2 lbs)
- **UPC:** 791311070188

10. Warranty and Support

For information regarding the warranty of your Poagavgs PP204 HA3004 Rotor Kit, please refer to the purchase documentation or contact the seller directly. Specific warranty terms and conditions may vary.
For technical support or further assistance, please reach out to the retailer or manufacturer from whom you purchased this product.

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