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Huarntwo PP205, HA3005, KFA1022

Huarntwo PP205, HA3005, KFA1022 5/8 inch Rotor Kit Instruction Manual

Model: PP205, HA3005, KFA1022

Brand: Huarntwo

1. Introduction and Overview

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Huarntwo 5/8 inch Rotor Kit. Adhering to these guidelines will ensure optimal performance and longevity of your heater's pump system. This kit is designed to replace worn or damaged rotor and vane components in compatible forced air heaters, restoring proper fuel atomization and combustion.

2. Product Compatibility

This rotor kit is designed as a replacement part for various forced air heater models. It is compatible with the following part numbers and brands:

- Replaces PP205 (Not OEM), HA3005, 5/8 inch Rotor Kit.
- Fits Mi-T-M part# 68-3044.
- **DESA:** Dayton, Knipco, Koehring, Master, Reddy, Remington, Sears, TSC (PP205, HA3005, M22456-2).
- **PINNACLE:** ProTemp, Master, Remington, Heat-Stream, WorkHorse, Heat Hog & SunStream (71-022-1350, 710221350, 71-022-1010, 710221010).
- **GHP:** RMC, Dyna-Glo, Thermoheat, Dyna Glo Pro, Dyna Glo Delux (SP-KFA1022, SPKFA1022, KFA1022).

3. Kit Contents

The Huarntwo 5/8 inch Rotor Kit includes the following components:

- 1 Rotor (M224561)
- 4 Vanes (M8643)
- 1 Insert (M22009)
- Intake filter (M29633) - used as required



Figure 1: Complete Rotor Kit components.

4. Specifications

Key specifications for the Huarntwo 5/8 inch Rotor Kit:

- **Rotor Thickness:** 5/8 inch
- **Rotor Diameter:** 2 1/8 inches
- **Item Weight:** 2.11 ounces
- **Package Dimensions:** 3.39 x 2.8 x 1.1 inches



Figure 2: Rotor diameter measurement.



Figure 3: Rotor thickness measurement.

5. Setup and Installation

Proper installation of the rotor kit is crucial for the efficient operation of your heater. Please follow these steps carefully. For a visual guide, refer to the installation video below.

1. **Preparation:** Ensure the heater is disconnected from its power source and has cooled down completely. Access the pump assembly where the rotor kit will be installed.
2. **Remove Old Components:** Carefully remove the old drive key, rotor, and vanes from the motor shaft. Inspect the shaft for any damage or debris and clean if necessary.
3. **Install New Drive Key:** Place the new drive key (insert M22009) onto the motor shaft. Ensure it sits securely. The video demonstrates placing the drive key onto the shaft, noting its non-round shape with two flat sides.
4. **Install New Rotor:** Slide the new rotor (M224561) onto the shaft, aligning its keyways with the drive key. The rotor should fit snugly and be flush with the pump ring. The video shows aligning the rotor with the drive key and snapping it into place, ensuring it is flush with the ring.
5. **Insert Vanes:** Carefully insert the four new vanes (M8643) into the slots of the rotor. Ensure each vane is inserted correctly so that it sits flush with the rotor's surface. Incorrect insertion can lead to air pressure loss. The video emphasizes that vanes are not perfectly square and must be inserted in the correct orientation to be flush.
6. **Verify Flush Fit:** After installing all components, gently rotate the rotor by hand to confirm that all vanes are flush

and move freely within their slots. There should be no gaps or protruding parts. The video demonstrates how an improperly installed vane will not be flush, creating a gap that allows air to escape, thus reducing air pressure.

7. **Reassemble:** Reattach any covers or housing components that were removed to access the pump. Ensure all connections are secure.

Installation Video Guide

▶ **Watch video online**
Rotor kit install video

Video 1: This detailed video demonstrates the step-by-step process of installing a rotor kit, including the drive key, rotor, and vanes, into two different heater pump assemblies (DeWalt and All-Pro models). It provides clear visual instructions on how to correctly align and insert each component, emphasizing the critical importance of ensuring all parts sit flush to prevent air pressure loss. The video also illustrates the consequences of improper vane installation and explains how the pump generates air pressure.

6. Operating Instructions

After successful installation of the rotor kit, operate your heater according to its original manufacturer's instructions. The rotor kit is an internal component of the pump system and does not alter the heater's general operating procedures. Ensure the fuel supply is adequate and all safety precautions are observed as outlined in your heater's primary user manual.

7. Maintenance

Regular maintenance of your heater's pump system, including the rotor kit, can extend its lifespan and ensure efficient operation.

- **Regular Inspection:** Periodically inspect the rotor and vanes for signs of wear, cracks, or damage. Replace the kit if significant wear is observed, as worn components can lead to reduced performance.
- **Cleanliness:** Keep the pump area clean and free from dust, debris, or fuel residue that could impede vane movement or damage components.
- **Filter Check:** If your heater uses an intake filter (M29633), check and clean or replace it as recommended by your heater's manual to prevent contaminants from reaching the pump and causing premature wear.

8. Troubleshooting

If your heater experiences issues related to fuel delivery or air pressure after installing the rotor kit, consider the following:

- **Low Air Pressure:** Re-check the installation of the vanes. Ensure they are all inserted correctly and sit flush within the rotor slots. A loose or improperly seated vane can cause significant pressure loss, affecting combustion.
- **No Fuel Flow:** Verify that the drive key is correctly installed and securely engaging both the motor shaft and the rotor. A dislodged or damaged drive key will prevent the rotor from turning, leading to no fuel delivery.

- **Unusual Noises:** If you hear grinding, scraping, or excessive rattling noises from the pump area, immediately shut down the heater and inspect the rotor and vanes for any obstructions, damage, or improper seating.

If issues persist after checking these points, consult a qualified technician or the heater's original service manual.

9. Warranty Information

For specific warranty details regarding the Huarntwo 5/8 inch Rotor Kit, please refer to the product packaging or contact the seller directly. Keep your proof of purchase for any warranty claims.

10. Support Information

For technical assistance or further inquiries about the Huarntwo 5/8 inch Rotor Kit, please contact the seller through the platform where the purchase was made. Provide your order details and a clear description of the issue for prompt support.

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