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AP Products 014-134543

AP Products 014-134543 6000-7000Lbs Brake Hub Instruction Manual

Brand: AP Products | **Model:** 014-134543

Product Overview

The AP Products 014-134543 is a heavy-duty brake hub designed for 6000-7000Lbs axle applications. This critical component is integral to the braking system of trailers and other heavy-duty vehicles, providing the mounting point for the wheel and brake drum, and housing the wheel bearings. It features durable zinc-plated studs for secure wheel attachment, ensuring reliable performance and longevity.



Figure 1: AP Products 014-134543 6000-7000Lbs Brake Hub. An overhead view of the AP Products 014-134543 6000-7000Lbs Brake Hub, showing its robust black cast iron body, central bearing housing, and eight zinc-plated studs for wheel attachment.

Installation and Setup

Installation of the brake hub requires specialized tools and knowledge of vehicle braking systems. It is highly recommended that installation be performed by a qualified mechanic or technician to ensure proper function and safety.

General Installation Steps (Consult Vehicle Service Manual for Specifics):

1. **Safety First:** Ensure the vehicle is securely supported on jack stands and the wheels are chocked. Disconnect the battery if working near electrical components.
2. **Remove Old Components:** Carefully remove the wheel, brake drum, and existing hub assembly. Note the orientation and placement of all components.
3. **Inspect Axle Spindle:** Clean and inspect the axle spindle for any damage or wear. Ensure it is free of debris.
4. **Bearing Installation:** If bearings are not pre-installed, carefully press new bearings and races into the hub. Pack bearings with appropriate high-temperature wheel bearing grease.

5. **Install Hub Assembly:** Slide the new brake hub onto the axle spindle. Install the inner and outer bearings, washer, and spindle nut according to manufacturer specifications.
6. **Torque Spindle Nut:** Torque the spindle nut to the vehicle manufacturer's specifications to set bearing preload. This is critical for bearing life and proper wheel rotation.
7. **Install Brake Drum and Wheel:** Reinstall the brake drum and wheel, ensuring all lug nuts are torqued to specification.
8. **Final Checks:** Verify that the wheel spins freely without excessive play. Test the braking system in a safe environment before putting the vehicle into service.

Note: *Proper torque specifications and bearing preload are crucial for the safe and effective operation of the brake hub. Refer to your vehicle's specific service manual for detailed instructions.*

Functionality and Usage Context

The AP Products 014-134543 brake hub serves as a foundational component within a vehicle's wheel and braking system. Its primary function is to provide a robust mounting surface for the brake drum and wheel, while also housing the wheel bearings that allow the wheel to rotate smoothly. This hub is designed for heavy-duty applications, specifically for axles rated between 6000 and 7000 pounds, making it suitable for various trailers and utility vehicles. The zinc-plated studs offer enhanced corrosion resistance and secure attachment for the wheel.
Proper installation and maintenance are essential to ensure the hub performs its critical role in supporting vehicle load and facilitating effective braking.

Maintenance

Regular maintenance is vital for the longevity and safe operation of your brake hub. Adhere to the vehicle manufacturer's recommended service intervals.

- **Bearing Inspection and Lubrication:** Periodically inspect wheel bearings for wear, noise, or excessive play. Repack bearings with high-temperature wheel bearing grease at recommended intervals, typically every 12,000 miles or annually, whichever comes first.
- **Stud Inspection:** Check the zinc-plated studs for any signs of damage, corrosion, or stripped threads. Replace any damaged studs immediately.
- **Brake Drum and Hub Surface:** Inspect the mating surfaces of the brake drum and hub for rust, pitting, or uneven wear. Ensure proper contact for effective braking.
- **Overall Condition:** Look for any cracks, deformities, or signs of impact damage on the hub body. Any significant damage warrants immediate replacement.
- **Torque Checks:** Periodically re-check the torque of lug nuts and the spindle nut (if accessible and recommended by vehicle manufacturer) to ensure they remain at specified values.

Troubleshooting

If you experience issues related to your brake hub, consider the following common problems and potential solutions. Always consult a qualified mechanic for diagnosis and repair.

Symptom	Possible Cause	Action
Grinding or Squealing Noise from Wheel	Worn or damaged wheel bearings; brake component issues.	Inspect and replace wheel bearings. Check brake pads/shoes and drum.

Symptom	Possible Cause	Action
Excessive Wheel Play (Wobble)	Loose or worn wheel bearings; loose spindle nut.	Adjust or replace wheel bearings. Torque spindle nut to specification.
Vibration During Driving or Braking	Warped brake drum; unbalanced wheel; damaged hub.	Inspect brake drum for runout. Check wheel balance. Inspect hub for damage.
Wheel Studs Breaking or Stripping	Improper lug nut torque; damaged studs; excessive load.	Replace damaged studs. Ensure proper lug nut torque. Review load capacity.

Specifications

Attribute	Detail
Product Type	Auto Accessory (Brake Hub)
Brand	AP Products
Model Number	014-134543
Manufacturer Part Number	14134543
Weight (Item)	5 pounds
Product Dimensions (L x W x H)	14 x 14 x 7 inches
Axle Capacity	6000-7000 Lbs
Studs	Zinc Plated
Country of Origin	United States

Warranty and Support

For specific warranty information regarding the AP Products 014-1345543 Brake Hub, please refer to the documentation provided with your purchase or contact AP Products directly. Warranty terms and conditions may vary. If you require technical support, have questions about installation, or need assistance with troubleshooting, it is recommended to contact the manufacturer, AP Products, or the authorized seller from whom the product was purchased. Professional assistance is advised for all installation and repair procedures.
You can often find contact information for AP Products on their official website or through your product's packaging.

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