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Dorman W19107

Dorman W19107 Drum Brake Wheel Cylinder Instruction Manual

Model: W19107

1. Introduction

This instruction manual provides essential information for the proper installation, maintenance, and troubleshooting of the Dorman W19107 Drum Brake Wheel Cylinder. This component is designed as a direct replacement for the original wheel cylinder on specific vehicle models. Adherence to these instructions is crucial for ensuring optimal brake system performance and safety. Professional installation is recommended.

2. Product Overview

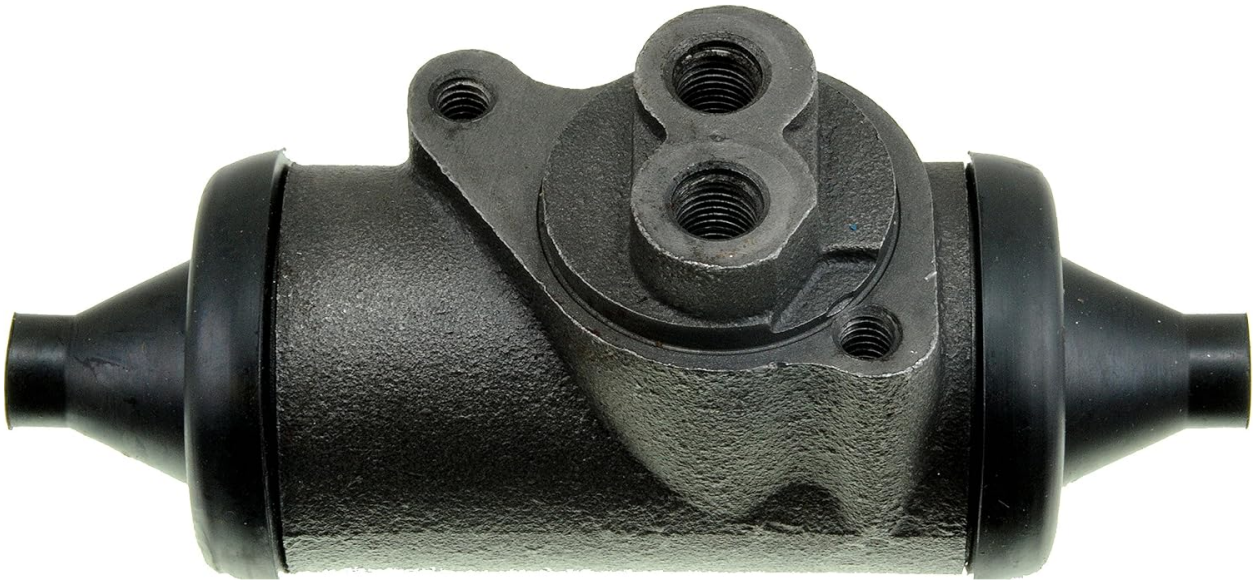
2.1 Product Description

The Dorman W19107 Drum Brake Wheel Cylinder is engineered to match the fit, function, and performance of the original wheel cylinder in particular vehicles. It is manufactured and tested to ensure quality and reliability within the vehicle's drum brake system.

2.2 Key Features

- **Direct Replacement:** Specifically engineered to be a direct match for the original drum brake wheel cylinder on particular vehicles.
- **Cost-Effective Solution:** Replacing the cylinder during drum brake service is an efficient method to ensure brake performance.
- **Quality Construction:** Manufactured with high-quality EPDM rubber cups and boots for long-lasting performance and durability.
- **Professionally Tested:** Wheel cylinder bores are surface-tested to ensure an optimum sealing surface for the pressure cups, contributing to reliable braking.

2.3 Product Images



Front view of the Dorman W19107 Drum Brake Wheel Cylinder, showing the main body and brake line connections.



End view of the Dorman W19107 Drum Brake Wheel Cylinder, highlighting the protective rubber boot.



Side view of the Dorman W19107 Drum Brake Wheel Cylinder, illustrating its cylindrical shape.

3. Safety Information

Working on vehicle brake systems requires caution. Always observe the following safety guidelines:

- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery if working near electrical components.
- Brake fluid is corrosive. Avoid contact with skin and painted surfaces. Clean up spills immediately.
- Dispose of old brake fluid and components according to local environmental regulations.
- If you are unsure about any step, consult a qualified automotive technician.

4. Vehicle Compatibility

To ensure this part fits your exact vehicle, it is essential to verify compatibility using your vehicle's make, model, and trim level. Refer to the manufacturer's specifications or a reputable automotive parts database for precise fitment information before installation.

5. Installation Instructions

The following steps provide a general guide for replacing a drum brake wheel cylinder. Specific procedures may vary depending on the vehicle model. Always consult your vehicle's service manual for detailed instructions.

5.1 Pre-Installation Checklist

- New Dorman W19107 Drum Brake Wheel Cylinder.
- Appropriate tools (wrenches, pliers, brake spoon, brake spring tools, bleeder wrench).
- New brake fluid (DOT 3 or DOT 4, as specified by your vehicle manufacturer).
- Clean rags and brake cleaner.
- Container for old brake fluid.
- Safety glasses and gloves.
- Vehicle service manual.

5.2 Installation Steps

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Loosen the lug nuts on the wheel to be serviced.
2. **Lift and Secure:** Safely lift the vehicle using a jack and support it with jack stands. Remove the wheel.
3. **Remove Brake Drum:** Carefully remove the brake drum. This may require releasing the automatic adjuster or using a brake drum puller.
4. **Remove Brake Shoes:** Disconnect the brake shoe return springs and hold-down springs. Remove the brake shoes, noting their orientation for reassembly.
5. **Disconnect Brake Line:** Place a drain pan beneath the wheel cylinder. Using a flare nut wrench, disconnect the brake line from the rear of the wheel cylinder. Be prepared for brake fluid leakage.
6. **Remove Old Wheel Cylinder:** Remove the mounting bolts that secure the wheel cylinder to the backing plate. Carefully remove the old wheel cylinder.
7. **Install New Wheel Cylinder:** Position the new Dorman W19107 wheel cylinder onto the backing plate. Install and tighten the mounting bolts to the manufacturer's specified torque.
8. **Connect Brake Line:** Reconnect the brake line to the new wheel cylinder. Tighten the flare nut securely, but do not overtighten.
9. **Reinstall Brake Shoes and Drum:** Reinstall the brake shoes, springs, and hardware in their correct positions. Ensure all components are properly seated. Reinstall the brake drum.
10. **Bleed Brake System:** Bleed the brake system to remove any air introduced during the installation. Follow the vehicle manufacturer's recommended bleeding procedure. This typically involves having an assistant pump the brake pedal while you open and close the bleeder screw on the wheel cylinder.
11. **Final Checks:** Reinstall the wheel and tighten lug nuts to specification. Lower the vehicle. Test the brake pedal for firmness before driving. Check for any brake fluid leaks.

6. Maintenance

Regular inspection of your vehicle's brake system is crucial for safety and longevity. During routine maintenance, inspect the wheel cylinders for:

- **Fluid Leaks:** Check for any signs of brake fluid leaking from around the rubber boots or brake line connections.
- **Rubber Boot Condition:** Ensure the rubber boots are intact, not torn, cracked, or swollen, as this can indicate internal issues or allow contaminants to enter.
- **Brake Fluid Level and Condition:** Regularly check the brake fluid reservoir level and the fluid's condition. Replace brake fluid according to your vehicle manufacturer's recommendations.

7. Troubleshooting

If you experience issues after installation or during normal operation, consult the following table for common problems and potential solutions:

Problem	Possible Cause	Solution
Brake fluid leak at wheel	Loose brake line fitting, damaged wheel cylinder, torn rubber boot.	Tighten fitting, inspect/replace wheel cylinder, replace boot if possible (often requires cylinder replacement).

Problem	Possible Cause	Solution
Spongy brake pedal	Air in the brake lines, improper bleeding.	Re-bleed the brake system thoroughly.
Brakes drag or stick	Wheel cylinder pistons seized, brake shoes improperly adjusted.	Inspect wheel cylinder for free movement, adjust brake shoes.
Uneven braking	Faulty wheel cylinder on one side, contaminated brake shoes.	Inspect both wheel cylinders and brake shoes; replace as necessary.

8. Product Specifications

Specification	Detail
Manufacturer	Dorman Products
Brand	Dorman
Model	W19107
Item Weight	3.1 pounds
Product Dimensions	3.75 x 2.62 x 5.5 inches
Exterior Finish	Machined
Manufacturer Part Number	W19107
OEM Part Numbers	134.82009; 33334; 84-58009; F19107; W-92009; W906111; WC19107; WC251820; 166769R91; 1688295; 17970016; 2331947; 5473145; B6Q-2261-A

9. What's Included

The Dorman W19107 Drum Brake Wheel Cylinder package typically includes:

- One (1) Dorman W19107 Drum Brake Wheel Cylinder

10. Warranty and Support

For information regarding product warranty, returns, or technical support, please refer to the official Dorman Products website or contact their customer service directly. Keep your purchase receipt for warranty claims.

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