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> Dorman 630-212 Rear Passenger Side Drive Axle Shaft: Installation and Maintenance Manual

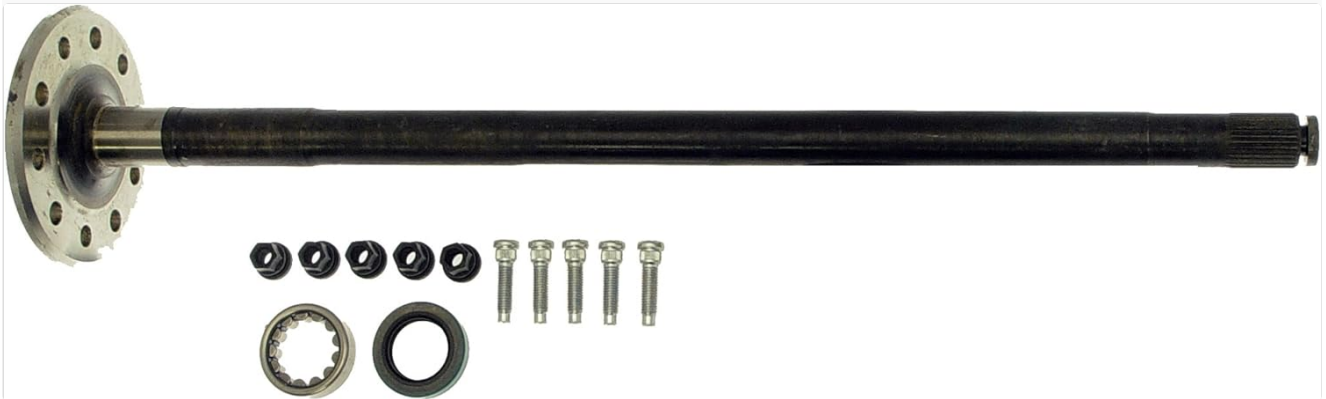
Dorman 630-212

Dorman 630-212 Rear Passenger Side Drive Axle Shaft

INSTALLATION AND MAINTENANCE MANUAL

1. Product Overview

The Dorman 630-212 Rear Passenger Side Drive Axle Shaft is a direct replacement component designed for specific Ford vehicle years, makes, and models. This axle shaft is engineered to restore proper function to your vehicle's drivetrain when the original axle shaft is damaged or its bearings are worn out. It includes all necessary application-specific installation components for a complete repair.



This image displays the Dorman 630-212 Rear Passenger Side Drive Axle Shaft, which is a long, cylindrical metal component with a flange on one end and splines on the other. Alongside it are smaller components including wheel studs, wheel nuts, a bearing, and a seal, all necessary for installation.

2. Package Contents

The Dorman 630-212 Rear Passenger Side Drive Axle Shaft package typically includes the following components:

- Axle Shaft
- Wheel Studs
- Wheel Nuts
- Bearing

- Seal

3. Key Features

- **Direct Replacement:** Engineered to directly replace the original equipment axle shaft on specific vehicle applications.
- **Complete Kit:** Each shaft is supplied with critical installation hardware and components required for specific vehicle applications.
- **Durable Construction:** Manufactured to rigorous standards and tested to ensure reliable performance and longevity.
- **Trustworthy Solution:** Developed and supported by a team of engineers and quality control specialists in the United States.

4. Compatibility

This Dorman axle shaft is compatible with select Ford models. To ensure proper fitment for your specific vehicle, it is crucial to verify compatibility using the vehicle's make, model, and trim level. Consult your vehicle's service manual or a reputable automotive parts database for precise application details.

5. Safety Information

Automotive repair can be hazardous. Always prioritize safety when working on your vehicle. It is recommended that installation be performed by a qualified automotive technician.

- Always 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 before performing electrical work.
- Use the correct tools for each task.
- Refer to your vehicle's specific service manual for detailed procedures and torque specifications.

6. Installation Guidelines

The following are general steps for replacing a rear axle shaft. Specific procedures may vary depending on your vehicle's make and model. Always consult your vehicle's service manual for detailed instructions.

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the front wheels. Loosen the rear lug nuts, then raise the rear of the vehicle and support it securely with jack stands. Remove the rear wheels.
2. **Drain Differential Fluid (if necessary):** Place a drain pan under the differential and remove the differential cover bolts to drain the fluid.
3. **Remove Differential Components:** Remove the pinion shaft lock bolt and the pinion shaft. Push the axle shaft inward to expose the C-clip, then remove the C-clip.
4. **Remove Old Axle Shaft:** Carefully slide the old axle shaft out of the axle housing. Inspect the axle housing and bearing surface for any damage or debris.
5. **Install New Bearing and Seal:** If not pre-installed, install the new axle bearing and seal into the axle housing according to your vehicle's service manual.
6. **Install New Axle Shaft:** Lubricate the new axle shaft splines and carefully slide the new Dorman axle shaft into the housing until it engages with the differential side gear.

7. **Secure Axle Shaft:** Push the axle shaft inward, install the C-clip, then pull the axle shaft outward to seat the C-clip. Reinstall the pinion shaft and its lock bolt.
8. **Reassemble Differential:** Clean the differential cover and housing mating surfaces. Apply a new gasket or RTV sealant to the cover and reinstall it with new bolts, torquing them to specifications. Refill the differential with the correct type and amount of gear oil.
9. **Final Assembly:** Reinstall the wheels, tighten lug nuts, lower the vehicle, and torque lug nuts to factory specifications.

Warning: Improper installation can lead to serious vehicle damage or personal injury. If you are not confident in your ability to perform this installation, seek professional assistance.

7. Operating Principles

The rear drive axle shaft is a critical component of your vehicle's drivetrain. Its primary function is to transmit power from the differential to the rear wheels, allowing them to rotate and propel the vehicle. It must withstand significant rotational forces and vehicle weight, making its structural integrity and proper installation essential for safe and effective vehicle operation.

8. Maintenance

While the axle shaft itself typically requires minimal maintenance, its longevity is directly tied to the health of related components and proper vehicle care:

- **Differential Fluid:** Regularly check and change your differential fluid according to your vehicle manufacturer's recommendations. Clean, adequate fluid is vital for lubricating the differential gears and axle shaft splines.
- **Bearing and Seal Inspection:** During routine service, inspect the axle bearings and seals for signs of wear, leaks, or damage. Replace them as needed to prevent premature axle shaft failure.
- **Avoid Overloading:** Do not exceed your vehicle's Gross Vehicle Weight Rating (GVWR) or towing capacity, as excessive loads can stress axle components.
- **Regular Inspections:** Periodically inspect the axle shaft for any signs of bending, cracks, or unusual wear, especially after off-road driving or heavy use.

9. Troubleshooting

If you experience issues after axle shaft replacement or during vehicle operation, consider the following common problems and potential causes:

- **Noise (Humming, Whining, Clunking):**
 - **Cause:** Worn or damaged axle bearings, insufficient differential fluid, incorrect gear mesh, or loose components.
 - **Action:** Check differential fluid level and condition. Inspect axle bearings for play or roughness. Verify all fasteners are torqued correctly.
- **Vibration:**
 - **Cause:** Bent axle shaft, unbalanced wheel, or worn universal joints (if applicable).
 - **Action:** Inspect the axle shaft for straightness. Check wheel balance.
- **Fluid Leaks from Axle Seal:**
 - **Cause:** Damaged or improperly installed axle seal, worn bearing allowing excessive shaft movement, or

clogged differential vent.

- **Action:** Inspect the seal for damage and ensure proper installation. Check the differential vent for obstructions.

- **Wheel Stud Issues (Loose or Stripped):**

- **Cause:** Improper torque during wheel installation, damaged studs, or incorrect lug nuts.
- **Action:** Ensure lug nuts are torqued to vehicle specifications. Replace any damaged studs or lug nuts.

For persistent or severe issues, consult a certified automotive technician.

10. Specifications

| Specification | Detail |
|--------------------------------|-------------------------------------------------------|
| Brand | Dorman |
| Model Number | 630-212 |
| Auto Part Position | Rear |
| Material | Alloy Steel |
| Included Components | Axle Shaft, Wheel Studs, Wheel Nuts, Bearing and Seal |
| Item Weight | 24.2 pounds |
| Product Dimensions | 38.88 x 8.18 x 8.18 inches |
| Automotive Fit Type | Vehicle Specific Fit |
| Manufacturer Part Number | 630-212 |
| OEM Part Number(s) | AXK202; MG2192; SK630212; F75Z 4234-NA |
| Hollander Number(s) | 447-2192R, 447-2435R, 447-2482R, 447-2552R |
| Bolt Pattern (Number of Holes) | 5 |
| UPC | 019495095255 |

11. Warranty and Support

Dorman products are backed by a commitment to quality and customer satisfaction. For specific warranty information regarding your Dorman 630-212 Rear Passenger Side Drive Axle Shaft, please refer to the warranty documentation included with your purchase or visit the official Dorman website. For technical support, installation assistance, or to inquire about warranty claims, please contact Dorman customer service directly through their official channels.