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› Dorman 630-413 Drive Axle Shaft Instruction Manual

Dorman 630-413

Dorman 630-413 Drive Axle Shaft Instruction Manual

Model: 630-413

PRODUCT OVERVIEW

The Dorman 630-413 Drive Axle Shaft is a direct replacement component designed for specific Ford, Lincoln, and Mercury models. This part is engineered to replace original equipment axle shafts that may be damaged or have worn-out bearings, ensuring proper vehicle operation and safety.

It comes as a complete kit, including all necessary application-specific installation components such as the axle shaft, ABS tone ring, wheel studs, wheel nuts, bearing, and seal.



Figure 1: Complete Dorman 630-413 Drive Axle Shaft. This image shows the full length of the axle shaft, including the hub flange with wheel studs on one end and the splined shaft on the other.

COMPATIBILITY

This axle shaft is compatible with the following vehicle models and years:

- **Ford Crown Victoria:** 2005, 2006, 2007, 2008, 2009, 2010, 2011
- **Lincoln Town Car:** 2005, 2006, 2007, 2008, 2009, 2010, 2011
- **Mercury Grand Marquis:** 2005, 2006, 2007, 2008, 2009, 2010, 2011

Note: Always confirm fitment for your specific vehicle trim using a reliable vehicle fitment tool before installation.

SETUP AND INSTALLATION

Installation of the Dorman 630-413 Drive Axle Shaft requires specialized automotive knowledge and tools. It is recommended that installation be performed by a qualified technician.

Required Components (Included):

- Axle Shaft
- ABS Tone Ring
- Wheel Studs (pre-pressed)
- Wheel Nuts
- Bearing
- Seal

General Installation Steps (Consult Service Manual for Specifics):

1. Safely lift and support the vehicle on jack stands.
2. Remove the wheel and tire assembly.
3. Remove the brake caliper and rotor.
4. Access and remove the differential cover to drain fluid and remove the C-clip retaining the axle shaft.
5. Carefully slide the old axle shaft out of the axle housing.
6. Inspect the axle housing and differential for any damage or debris.
7. Install the new Dorman 630-413 axle shaft, ensuring the new bearing and seal are properly seated.
8. Reinstall the C-clip, differential cover (with new gasket and fluid), brake components, and wheel assembly.
9. Torque all fasteners to manufacturer specifications.

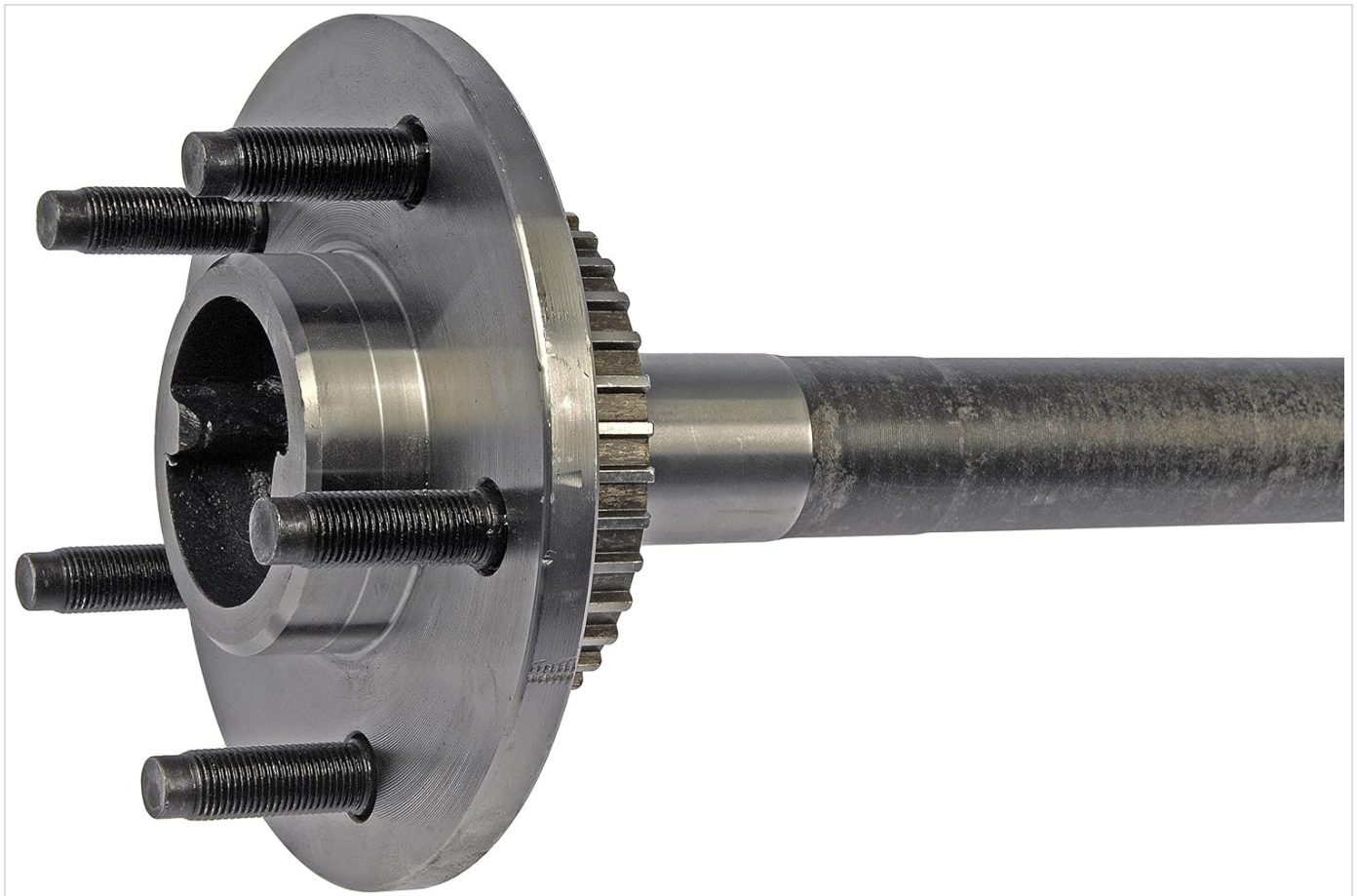


Figure 2: Hub Flange and Wheel Studs. This image provides a detailed view of the hub flange, showing the pre-installed wheel studs and the ABS tone ring.

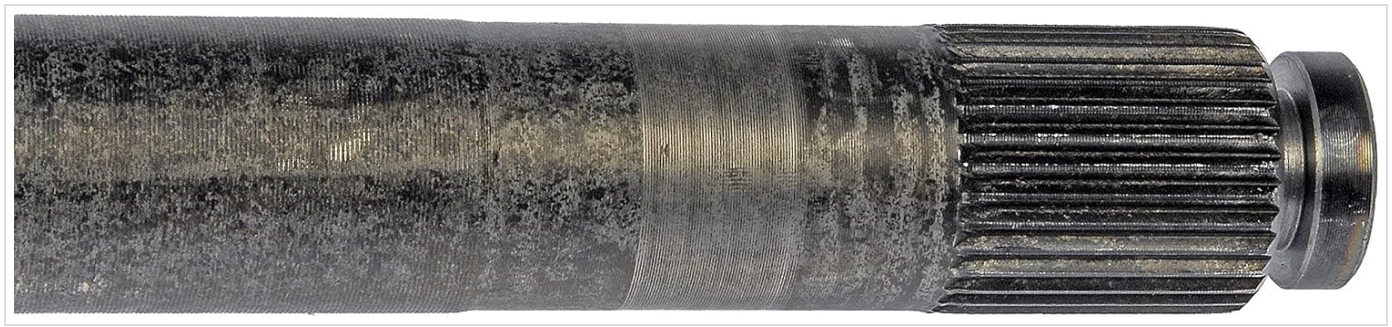


Figure 3: Splined End of Axle Shaft. This image shows the splined end of the axle shaft, which engages with the differential.

OPERATING CONSIDERATIONS

Once installed, the Dorman 630-413 Drive Axle Shaft operates as an integral part of your vehicle's drivetrain. No specific operational adjustments are required for the axle shaft itself after proper installation.

- **Initial Drive:** After installation, drive the vehicle cautiously to ensure all components are functioning correctly and there are no unusual noises or vibrations.
- **Fluid Levels:** Ensure differential fluid levels are correct after installation, as specified by your vehicle manufacturer.

MAINTENANCE

The Dorman 630-413 Drive Axle Shaft is designed for long-term durability and typically requires no routine maintenance beyond standard vehicle inspections.

- **Regular Inspections:** During routine vehicle maintenance (e.g., tire rotations, brake inspections), visually inspect the axle shaft, seals, and surrounding components for signs of wear, leaks, or damage.
- **Bearing and Seal Integrity:** Pay attention to any unusual noises from the rear axle area, which could indicate bearing wear. Address any fluid leaks from the axle seals promptly.
- **Cleanliness:** Keep the area around the axle shaft free from excessive dirt and debris, especially around the seals.

TROUBLESHOOTING

If issues arise after installation, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Vibration at speed	Improper installation, bent axle shaft (rare), wheel imbalance, worn universal joints (if applicable)	Verify proper installation and torque specifications. Check wheel balance. Inspect other drivetrain components.
Grinding or humming noise from rear	Worn axle bearing, differential issue, low differential fluid	Inspect axle bearing and differential. Check differential fluid level and condition.
Fluid leak around axle seal	Damaged or improperly seated axle seal, excessive differential pressure	Inspect and replace axle seal if necessary. Ensure differential breather is clear.
ABS light illuminated	Damaged ABS tone ring, faulty ABS sensor, wiring issue	Inspect ABS tone ring for damage. Check ABS sensor and wiring. Scan for ABS fault codes.

For complex issues, consult a certified automotive technician.

SPECIFICATIONS

Attribute	Detail
Brand	Dorman
Model Number	630-413
Item Weight	18.72 pounds
Product Dimensions	38.88 x 8.18 x 8.18 inches
Manufacturer Part Number	630-413
OEM Part Numbers	6W1Z4234A; AXK201; SK630413; 5W1Z4234A; 6W1Z 4234-A
Hollander Number	447-124, 447-124X
Included Components	Axle Shaft, ABS Tone Ring, Wheel Studs, Wheel Nuts, Bearing and Seal

WARRANTY AND SUPPORT

Dorman products are designed to rigorous standards and tested to ensure performance. For specific warranty information and technical support, please refer to the official Dorman website or contact Dorman customer service directly.

Dorman Contact Information:

- **Website:** www.dormanproducts.com
- **Customer Service:** Refer to the website for current contact methods (phone, email, etc.).

When contacting support, please have your product model number (630-413) and purchase details available.