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Cardone 66-2018

Cardone 66-2018 New CV Constant Velocity Drive Axle Shaft Instruction Manual

Model: 66-2018 | Brand: Cardone

Introduction

This manual provides essential information for the proper installation, maintenance, and troubleshooting of your Cardone 66-2018 New CV Constant Velocity Drive Axle Shaft. Adhering to these instructions will help ensure optimal performance and longevity of the component.

Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working on vehicle components.
- Ensure the vehicle is securely supported on jack stands before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery before performing any electrical work.
- Refer to your vehicle's service manual for specific torque specifications and additional safety guidelines.

Installation

Proper installation is crucial for the performance and lifespan of the CV drive axle. If you are not experienced with automotive repairs, it is recommended to seek professional assistance.

Tools and Materials Required:

- Socket set and wrenches
- Torque wrench
- Pry bar or slide hammer (for axle removal)
- Jack and jack stands
- Brake cleaner
- New cotter pins (if applicable)
- Fluid drain pan

Installation Steps:

1. **Vehicle Preparation:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Loosen the lug nuts on the wheel corresponding to the axle being replaced. Raise the vehicle and secure it with jack stands. Remove the wheel.
2. **Axle Nut Removal:** Remove the cotter pin (if present) and the axle retaining nut. The Cardone 66-2018 includes a new axle retaining nut to ensure a hassle-free installation, as the original may be worn or stripped.
3. **Component Disassembly:** Disconnect any components that obstruct axle removal, such as brake calipers, rotors, and suspension links. Refer to your vehicle's service manual for specific procedures.
4. **Old Axle Removal:** Carefully separate the outer CV joint from the wheel hub. Use a pry bar to gently dislodge the inner CV joint from the transmission or differential. Be prepared for some transmission fluid to drain.
5. **New Axle Installation:**

   Insert the new Cardone 66-2018 CV Drive Axle into the transmission/differential, ensuring it seats fully. The splines are precision rolled to ensure proper fit. Guide the outer CV joint into the wheel hub. Ensure all components align correctly.



Image: The complete Cardone 66-2018 New CV Constant Velocity Drive Axle Shaft, showing the shaft connecting the inner and outer CV joints, each protected by a neoprene boot.

6. **Reassembly:** Reconnect all suspension and brake components. Install the new axle retaining nut and torque it to the vehicle manufacturer's specifications. The threads are precision rolled to ensure proper fit when the axle nut is installed. Install a new cotter pin if required.
7. **Final Checks:** Reinstall the wheel and lower the vehicle. Check the transmission fluid level and top up if necessary. Test drive the vehicle to ensure proper operation and absence of unusual noises or vibrations.

The Neoprene boots on this axle are designed with additional bellows, when needed, to resist bellow stress and cracking, which is a leading cause of boot failure. Boot clamps are pneumatically crimped, creating a perfect seal between the boot and housing.



Image: Close-up view of the outer CV joint of the Cardone 66-2018 axle, highlighting the splined shaft, the axle nut, and the protective neoprene boot with its clamps.

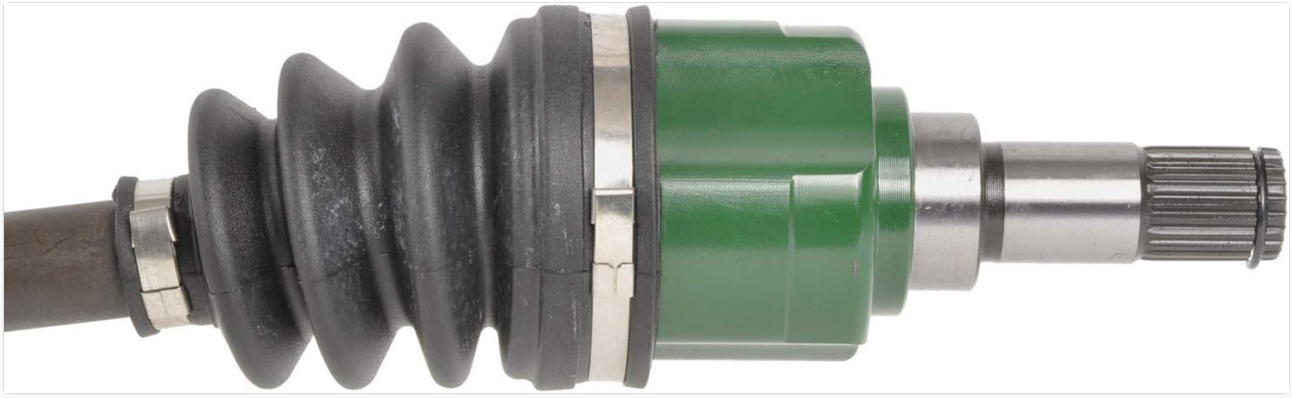


Image: Close-up view of the inner CV joint of the Cardone 66-2018 axle, showing the splined end that connects to the transmission/differential and the protective neoprene boot.

Operating Principles

The Cardone 66-2018 CV Drive Axle is a critical component of your vehicle's drivetrain, responsible for transmitting power from the transmission to the wheels while accommodating the varying angles of suspension travel and steering. Its constant velocity design ensures smooth power delivery without fluctuations, contributing to a comfortable and stable driving experience. The high-quality grease used within the joints is designed to withstand high-temperature and high-torque demands, ensuring long-lasting, reliable performance.

Maintenance

CV drive axles are generally designed for long-term, maintenance-free operation. However, periodic inspection can help identify potential issues before they become severe.

- **Boot Inspection:** Regularly inspect the neoprene boots for any signs of cracking, tearing, or punctures. Damaged boots can allow dirt and moisture to enter the CV joint, leading to premature failure.
- **Leak Detection:** Check for any grease leaks around the boots or axle seals. Grease leaks indicate a compromised boot or seal.
- **Noise Check:** Listen for unusual clicking, popping, or grinding noises, especially when turning or accelerating, which could indicate a worn CV joint.

If any damage or unusual symptoms are observed, it is recommended to have the axle inspected by a qualified technician.

Troubleshooting

Symptom	Possible Cause	Solution
Clicking or popping noise when turning	Worn outer CV joint	Inspect and replace the CV axle if necessary.
Vibration during acceleration	Worn inner CV joint or bent axle shaft	Inspect and replace the CV axle if necessary. Cardone axles are individually verified for straightness to prevent vibration.
Grease leaking from boot	Damaged or cracked CV boot	Replace the CV boot or the entire axle if the joint is contaminated.

Symptom	Possible Cause	Solution
Clunking noise when shifting gears or accelerating/decelerating	Excessive play in CV joint or loose axle nut	Check axle nut torque. Inspect CV joints for play and replace axle if excessive play is found.

Specifications

Attribute	Detail
Brand	Cardone
Model Number	66-2018
Item Weight	18 pounds
Product Dimensions	7 x 6.13 x 5.25 inches
Manufacturer Part Number	66-2018
OEM Part Number(s)	E8BZ3B436A, F0BZ3B436C
Exterior Finish	Painted
First Available	March 29, 2017

Warranty and Support

For specific warranty information regarding your Cardone 66-2018 CV Drive Axle, please refer to the documentation included with your purchase or visit the official Cardone website. For technical support or further assistance, please contact Cardone customer service directly.

Contact Information:

- Refer to Cardone's official website for the most current contact details.

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