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Cardone 66-3732

Cardone 66-3732 New CV Constant Velocity Drive Axle Shaft User Manual

Model: 66-3732 | Brand: Cardone

1. Product Overview

The Cardone 66-3732 New CV Constant Velocity Drive Axle Shaft is engineered to meet and exceed Original Equipment (OE) performance standards. This product is designed with advanced solutions to prevent common failures found in typical CV axles, ensuring long-lasting and reliable performance for your vehicle.

Key Features:

- Proprietary engineering processes ensure that all CV Drive Axles meet OE form, fit and function.
- Neoprene boots are designed with additional bellows, when needed, to resist bellow stress and cracking, which is the leading cause of boot failure.
- An axle retaining nut is supplied with every unit for a hassle-free installation, due to the likelihood that the original retaining nut is worn or stripped.
- CV Drive Axle measurements are validated after assembly to ensure a proper fit; Threads are precision rolled to ensure proper fit when axle nut is installed.
- Boot clamps are pneumatically crimped, creating a perfect seal between the boot and housing.

2. What's in the Box

- 1 x Cardone 66-3732 New CV Constant Velocity Drive Axle Shaft
- 1 x Axle Retaining Nut (pre-installed or separate, as applicable)

3. Installation Guide (Setup)

Note: Installation of a CV drive axle shaft requires mechanical knowledge and specialized tools. If you are not confident in your ability to perform this installation, it is highly recommended to seek professional assistance from a certified mechanic.

Before You Begin:

- Ensure the vehicle is safely lifted and supported on jack stands.
- Gather all necessary tools, including wrenches, sockets, pry bar, torque wrench, and a drain pan for transmission fluid (if applicable).

- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.

Installation Steps:

1. Remove the wheel and brake caliper assembly to gain access to the axle nut.
2. Loosen and remove the axle nut.
3. Separate the lower control arm or tie rod end from the steering knuckle to allow for axle removal.
4. Carefully pull the old CV axle shaft out of the transmission/transaxle and the wheel hub. Be prepared for transmission fluid leakage if applicable.
5. Inspect the transmission seal and replace if necessary.
6. Insert the new Cardone 66-3732 CV Drive Axle Shaft into the transmission/transaxle, ensuring it seats fully.
7. Align the outer spline with the wheel hub and push it through.
8. Reassemble the suspension components, ensuring all bolts are tightened to manufacturer specifications.
9. Install the new axle retaining nut and torque it to the vehicle manufacturer's specifications.
10. Reinstall the brake caliper and wheel.
11. Lower the vehicle and check transmission fluid levels, topping up if needed.



Figure 1: The Cardone 66-3732 New CV Constant Velocity Drive Axle Shaft, showing the full assembly with inner and outer joints and boots.

4. Operating Principles

The Constant Velocity (CV) drive axle shaft is a critical component of your vehicle's drivetrain, responsible for transmitting power from the transmission to the wheels while accommodating the up-and-down motion of the suspension and the steering angle of the wheels. The "constant velocity" aspect means it can transmit torque at a constant rotational speed, regardless of the angle of the joint, which is essential for smooth power delivery during turns and over uneven terrain.

The Cardone 66-3732 is designed to maintain this constant velocity, preventing vibrations and ensuring a smooth driving experience. Its precision-rolled splines and accurately machined transmission seal diameter contribute to optimal fit and long-term performance.



Figure 2: Close-up view of the outer CV joint and the durable neoprene boot, designed to resist cracking and stress.

5. Maintenance

While CV drive axle shafts are generally low-maintenance components, regular inspection can significantly extend their lifespan and prevent costly repairs. The primary area of concern for CV axles is the protective boots.

Recommended Maintenance:

- **Visual Inspection:** During routine vehicle maintenance (e.g., oil changes, tire rotations), visually inspect the CV boots for any signs of cracking, tearing, or grease leakage. A damaged boot allows dirt and moisture to enter the joint, leading to premature failure.
- **Listen for Noises:** Pay attention to any clicking, popping, or clunking noises, especially when turning or accelerating. These can be indicators of a failing CV joint.
- **Check for Vibrations:** Unusual vibrations, particularly during acceleration, might suggest an issue with the axle shaft.

If a boot is found to be damaged, it is crucial to address it promptly. While boot replacement kits are available, replacing the entire axle shaft (like the Cardone 66-3732) is often recommended for a more reliable and long-term solution, especially if the joint has been exposed to contaminants for an extended period.



Figure 3: Close-up view of the inner CV joint, highlighting the robust construction and secure boot clamp.

6. Troubleshooting

Common symptoms of a failing CV drive axle shaft include:

- **Clicking or Popping Noise:** Most noticeable when turning, especially at low speeds. This often indicates a worn outer CV joint.
- **Clunking Noise:** Heard when shifting from drive to reverse, or during acceleration/deceleration. This can point to excessive play in the inner CV joint.
- **Vibration:** A persistent vibration that increases with speed, particularly during acceleration, can be caused by a worn inner CV joint or an unbalanced axle shaft.
- **Grease Leaks:** Visible grease on the inside of the wheel or under the vehicle, originating from a torn CV boot. This is a precursor to joint failure.

If you experience any of these symptoms, it is recommended to have your vehicle inspected by a qualified mechanic. Early diagnosis and replacement can prevent further damage to other drivetrain components.

7. Specifications

Attribute	Detail
Brand	Cardone
Model	66-3732
Item Weight	21.7 pounds
Product Dimensions	7 x 6.13 x 5.25 inches
Manufacturer Part Number	66-3732
OEM Part Number	52124713AB, 52124713AC
Exterior Finish	Painted

8. Warranty Information

Specific warranty details for Cardone products are typically provided at the point of purchase or can be found on the official Cardone website. It is recommended to retain your purchase receipt as proof of purchase for any warranty claims.

Cardone products are known for their quality and are often backed by a limited warranty against defects in materials and workmanship. Please refer to the official Cardone warranty policy for the most accurate and up-to-date information regarding coverage, duration, and claim procedures.

9. Support

For technical assistance, installation questions, or warranty inquiries regarding your Cardone 66-3732 New CV Constant Velocity Drive Axle Shaft, please contact Cardone customer support directly.

- **Cardone Official Website:** www.cardone.com
- **Customer Service:** Refer to the "Contact Us" section on the official website for phone numbers or email support.

When contacting support, please have your product model number (66-3732) and purchase information readily available.

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