

SCITOO 175797-5336-1037100001

SCITOO Front Left CV Axle Drive Shaft Instruction Manual

Model: 175797-5336-1037100001

INTRODUCTION

This manual provides essential information for the installation, maintenance, and troubleshooting of your SCITOO Front Left CV Axle Drive Shaft. This high-quality component is designed to meet or exceed OEM specifications, ensuring reliable and long-lasting performance for your vehicle.



Image: The SCITOO Front Left CV Axle Drive Shaft, a crucial component for vehicle power transmission.

VEHICLE COMPATIBILITY

The SCITOO Front Left CV Axle is compatible with various Mazda models. Please verify your vehicle's year, model, submodel, and engine type against the list below to ensure proper fitment.



Image: Detailed compatibility chart for Mazda 3, Mazda 3 Sport, and Mazda 5 models.

Compatible Models:

- 2005-2013 for Mazda 3 2.0L
- 2005-2009 for Mazda 3 2.3L
- 2010-2013 for Mazda 3 2.5L
- 2009-2013 for Mazda 3 Sport 2.0L
- 2010-2013 for Mazda 3 Sport 2.5L
- 2006-2010 for Mazda 5 2.3L
- 2012-2015 for Mazda 5 2.5L



Image: Part one of the comprehensive compatibility list for Mazda vehicles.



Image: Part two of the comprehensive compatibility list for Mazda vehicles.

PRODUCT FEATURES AND COMPONENTS

The SCITOO CV Axle is engineered for durability and performance, featuring high-quality materials and precise construction.



Image: Exploded view illustrating the internal and external components of the CV axle, including the axle nut, inner race, cage, steel balls, center shaft, stainless steel clamp, outer race, tripod, and CV boot.

- **Top Quality Materials:** Made from high-quality materials for durable and reliable long-lasting performance.
- **Reinforced Chassis:** New CV axles utilize quality materials to strengthen the chassis, improving ruggedness.
- **High Precision:** Precision grinding ensures smooth rotation of the CV shaft, providing accurate and sensitive operation.
- **Stainless Steel Dust-proof Clamp:** Provides strong sealing to protect internal components.
- **Neoprene Dust Cover:** Offers strong durability for extended lifespan.



Image: Close-up view detailing the robust stainless steel dust-proof clamp and the durable neoprene dust cover, essential for protecting the CV joint.



Image: A mechanic indicates satisfaction with the performance upgrade provided by the SCITOO CV axle, highlighting reduced noise, smooth operation, strong steel shaft, and stable durability.

INSTALLATION (SETUP)

Installation of a CV axle requires specific tools and mechanical knowledge. It is crucial to follow proper safety procedures and vehicle-specific service manual instructions.

1. **Preparation:** Ensure the vehicle is safely lifted and supported on jack stands. Remove the wheel and brake components as necessary to access the old CV axle.
2. **Removal of Old Axle:** Disconnect the old CV axle from the transmission/transaxle and the wheel hub assembly. Be prepared for fluid leakage from the transmission/transaxle.
3. **Installation of New Axle:** Carefully insert the new SCITOO CV axle into the transmission/transaxle, ensuring it seats correctly. Then, connect the outer joint to the wheel hub assembly.
4. **Secure Components:** Reinstall all removed components, ensuring all bolts and nuts are tightened to the manufacturer's specified torque settings.
5. **Final Checks:** Lower the vehicle, check fluid levels (if applicable), and perform a test drive to ensure proper function and no unusual noises.



Image: A close-up view demonstrating the precise installation of the SCITOO half-shaft assembly, highlighting accurate positioning of mounting holes to reduce deviation.

Note: This CV axle is designed for in-situ installation and a longer life. It has undergone strict quality testing to ensure it meets or exceeds OEM specifications.

MAINTENANCE

Regular inspection of your CV axle can help prevent premature failure and ensure safe operation of your vehicle. Pay attention to the condition of the CV boots.

- **Visual Inspection:** Periodically inspect the CV boots for any signs of cracks, tears, or grease leakage. Damaged boots can lead to contamination and premature joint failure.
- **Noise Check:** Listen for unusual clicking, popping, or clunking noises, especially when turning or accelerating. These can be indicators of a failing CV joint.
- **Vibration Check:** Notice any excessive vibration during driving, particularly at certain speeds. This could also indicate an issue with the CV axle.



Image: A visual comparison highlighting the robust construction of the new SCITOO CV axle versus an obsolete, potentially damaged CV axle, emphasizing the importance of quality materials for longevity.

TROUBLESHOOTING COMMON ISSUES

If you experience any of the following symptoms, your CV axle may require inspection or replacement.

- **Clicks when cornering:** When the CV axle is worn excessively, the axle joints can loosen, causing a clicking sound during turns.
- **Grease on the edge of the tire or under the vehicle:**This indicates a torn or damaged CV boot, allowing grease to escape and contaminants to enter the joint.
- **Excessive vibration when driving:** Vehicle vibrates while driving and the steering wheel shakes. This can be a sign of a worn or unbalanced CV axle.



Image: Visual guide to common symptoms of CV axle wear, including clicking noises during turns, grease leaks, and vehicle vibrations.

SPECIFICATIONS

Key technical specifications for the SCITOO Front Left CV Axle Drive Shaft:

Feature	Detail
Manufacturer	SCITOO
Brand	SCITOO
Model	Axle shaft bearings
Item Weight	14.77 pounds
Product Dimensions	29.55 x 5.52 x 5.52 inches
Item Model Number	175797-5336-1037100001
OEM Part Numbers	66-8175, 60-8175, 60-8174, 60-8226, MZ-8152, MZ-8252, MZ-9547
Inner Spline	28 Spline
Outer Spline	28 Spline
Compression Length	25.1 Inch

Feature	Detail
Tripod Temperature Range	-60°C to 200°C
What's in the Box	1 x CV Axle Drive Shaft



Image: A detailed diagram outlining the key product specifications such as inner and outer spline counts, compression length, and the temperature range for the tripod joint.



Image: This visual highlights the high precision and smooth rotation capabilities of the CV axle, crucial for optimal vehicle performance.

IMPORTANT NOTES AND DISCLAIMER

Attention: Please confirm whether the product model and size are suitable for your car before installation. If you do not have the installation manual or do not have enough skills to install this part, it is recommended to seek help from a professional auto repair shop or mechanic.



Image: A warning message emphasizing the importance of verifying product compatibility and seeking professional assistance for installation if required.

Legal Disclaimer: All references to brand names and models are for compatibility purposes only and do not imply any affiliation or endorsement by the original manufacturer.

SUPPORT

If you have any problems during the installation or use of your SCITOO CV Axle, please contact us. We are committed to providing professional technical support and assistance.

For further information or inquiries, please visit the official SCITOO store:[SCITOO Auto Parts Store](#)

ASK A QUESTION ABOUT THIS MANUAL

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