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> SurTrack AD-8018 CV Axle Shaft User Manual

## SurTrack AD-8018

# SurTrack AD-8018 CV Axle Shaft User Manual

Model: AD-8018

## INTRODUCTION

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This user manual provides essential information regarding the SurTrack AD-8018 CV Axle Shaft. It covers product overview, installation considerations, maintenance, troubleshooting, and specifications. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your CV axle shaft.

## PRODUCT OVERVIEW

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The SurTrack AD-8018 is a high-quality Constant Velocity (CV) Axle Shaft designed for passenger cars and light-duty trucks. It is a critical component of your vehicle's drivetrain, responsible for transmitting power from the transmission to the wheels while accommodating suspension travel and steering angles.

### Key Features:

- **100% New Manufactured Axle:** Ensures optimal performance and reliability, free from remanufactured components.
- **Complete Installation Kit:** Each axle comes with all necessary hardware and grease required for a complete installation.
- **ABS Consolidated Design:** Engineered for compatibility with both ABS (Anti-lock Braking System) and non-ABS applications.
- **Torture Tested Durability:** Each SurTrack axle undergoes rigorous testing to failure, guaranteeing it meets or exceeds Original Equipment (OE) requirements.
- **Limited Lifetime Warranty:** Provides assurance of product quality and long-term support.

### What's in the Box:

- SurTrack AD-8018 CV Axle Shaft
- Necessary hardware for installation
- Grease (pre-applied or included for specific components)



Figure 1: The SurTrack AD-8018 CV Axle Shaft as packaged in its retail box. The packaging highlights "NEW PREMIUM AXLE" and "CONSTANT VELOCITY DRIVE AXLE".

## SETUP AND INSTALLATION

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Installation of a CV axle shaft requires specialized tools and mechanical expertise. For safety and proper function, it is highly recommended that installation be performed by a qualified automotive technician. Improper installation can lead to premature component failure, vehicle damage, or personal injury.

### General Installation Considerations:

- Ensure the vehicle is safely lifted and supported on jack stands or a lift.
- Refer to your vehicle's specific service manual for detailed removal and installation procedures, torque specifications, and any special tools required.
- Clean mating surfaces thoroughly before installing the new axle.
- Apply the included grease as instructed for proper lubrication of splines and seals.
- Ensure all fasteners are tightened to the manufacturer's specified torque.

## OPERATING PRINCIPLES

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The CV axle shaft is a passive component that operates continuously while the vehicle is in motion. Its primary function is to transfer rotational power from the differential or transaxle to the wheels, allowing for smooth power delivery even when the wheels are turning or moving up and down due to suspension travel. A properly functioning CV axle should operate silently and without vibration.

## MAINTENANCE

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CV axle shafts are generally designed to be maintenance-free units. However, periodic inspection is crucial to ensure their longevity and prevent unexpected failures. The most common point of failure for a CV axle is the protective rubber boots that cover the CV joints.

### Recommended Inspections:

- **Visual Inspection:** During routine vehicle maintenance (e.g., oil changes, tire rotations), visually inspect the CV axle boots for any signs of tears, cracks, or punctures.
- **Grease Leaks:** Check for any grease leaking from the boots or around the axle ends. Grease leaks indicate a damaged boot, which can lead to contamination and premature joint wear.
- **Unusual Noises:** Listen for clicking, popping, or clunking noises, especially when turning or accelerating. These sounds can indicate a worn or damaged CV joint.
- **Vibrations:** Notice any unusual vibrations felt through the steering wheel or floorboard, which could be a symptom of an unbalanced or failing axle.

If any signs of damage or wear are observed, it is recommended to have the vehicle inspected by a qualified technician promptly to prevent further damage to the drivetrain.

## TROUBLESHOOTING

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While the SurTrack AD-8018 CV Axle Shaft is manufactured to high standards, issues can arise, often due to external factors or wear over time. Below are common symptoms associated with CV axle problems and potential causes.

Symptom	Possible Cause	Action
Clicking or Popping Noise (especially when turning)	Worn outer CV joint, lack of lubrication due to torn boot.	Inspect CV boots for damage. Professional diagnosis and replacement recommended.
Vibration (during acceleration or at certain speeds)	Worn inner CV joint, bent axle shaft, unbalanced axle.	Professional diagnosis to identify the source of vibration. May require axle replacement.
Grease Leaking from Boot	Torn, cracked, or improperly seated CV boot.	Replace the damaged boot promptly to prevent joint failure. If joint is contaminated, axle replacement may be necessary.
Clunking Noise (when shifting gears or accelerating/decelerating)	Excessive play in CV joint, loose axle nut, worn differential.	Professional inspection to determine the exact cause.

*Note:* Many CV axle issues present symptoms similar to other drivetrain or suspension problems. Always seek professional diagnosis to accurately identify the root cause before attempting repairs.

## SPECIFICATIONS

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Detailed specifications for the SurTrack AD-8018 CV Axle Shaft:

- **Model:** AD-8018
- **Manufacturer:** SurTrack
- **Item Weight:** 16.3 pounds (approximate)
- **Product Dimensions:** 24 x 1 x 6.1 inches (approximate, packaged)
- **Exterior Finish:** Machined
- **Manufacturer Part Number:** AD-8018
- **ASIN:** B00DCNEP3U
- **Overall Compressed Length:** 20 7/16 inches
- **Flange:** 6 Holes
- **Outer CV Joint Teeth:** 45
- **Inner CV Joint Splines:** 38



Figure 2: Dimensional drawing of the AD-8018 CV Axle Shaft, illustrating key measurements such as overall compressed length, flange hole count, and spline/teeth counts.

## WARRANTY INFORMATION

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The SurTrack AD-8018 CV Axle Shaft is backed by a **Limited Lifetime Warranty**. This warranty covers defects in materials and workmanship under normal use and service. For specific terms, conditions, and claim procedures, please refer to the warranty documentation provided with your purchase or contact SurTrack customer support.

*Note:* The warranty typically does not cover damage resulting from improper installation, abuse, neglect, accidents, or unauthorized modifications.

## CUSTOMER SUPPORT

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For technical assistance, warranty claims, or any questions regarding your SurTrack AD-8018 CV Axle Shaft, please contact the manufacturer, SurTrack, or the authorized seller from whom you purchased the product. Have your product model number (AD-8018) and purchase details ready when contacting support.

You may also find additional information and resources on the official SurTrack website (if available, link not provided in source data).