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Dorman TI96000

Dorman TI96000 Front Inner Steering Tie Rod End User Manual

Model: TI96000 | Brand: Dorman

INTRODUCTION

This manual provides essential information for the Dorman TI96000 Front Inner Steering Tie Rod End. This component is designed as a direct replacement for original equipment tie rods in specific vehicle applications. It is engineered to ensure smooth and safe operation of your vehicle's steering system. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the part.

PRODUCT OVERVIEW

The Dorman TI96000 is a critical component of your vehicle's steering linkage, connecting the steering rack to the steering knuckle. It allows for the necessary articulation of the wheels during steering maneuvers.



Figure 1: The Dorman TI96000 Front Inner Steering Tie Rod End, showing its threaded shaft and ball joint housing. This is the primary component responsible for transmitting steering input to the wheel.



Figure 2: The Dorman TI96000 Tie Rod End along with its accompanying hardware, which typically includes a hexagon nut and a locked CIR clip for secure installation. A packet of grease is also shown, indicating the need for lubrication during assembly.

DORMAN CHASSIS

Premium construction, unrivaed coverage.

Designed, engineered and manufactured
to match or exceed the specifications and
performance of the original equipment.

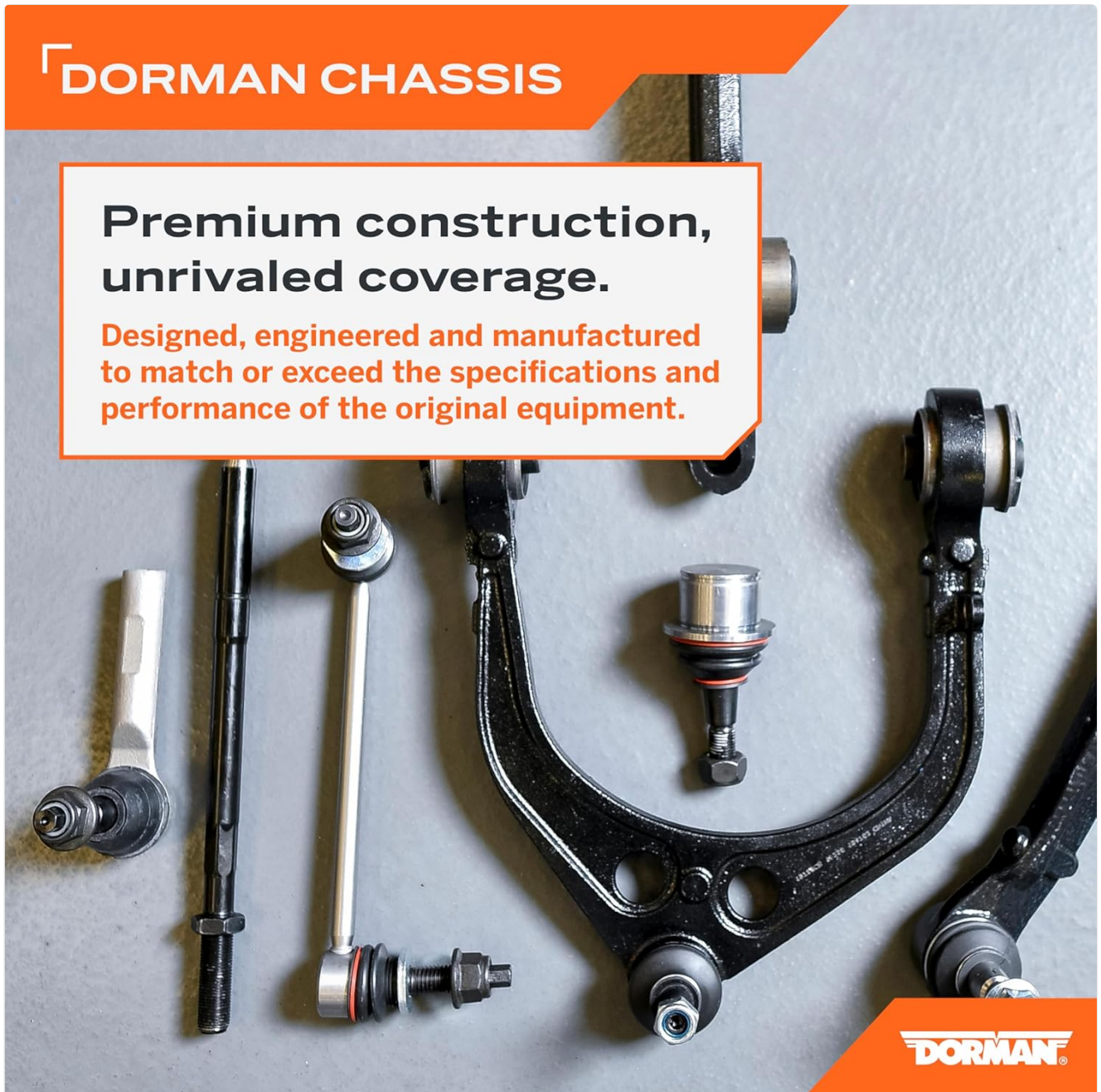


Figure 3: An illustration highlighting Dorman's commitment to quality. The image depicts various chassis components, emphasizing that the TI96000 tie rod end is designed, engineered, and manufactured to meet or exceed original equipment specifications for reliable performance.

Key Features:

- **Trustworthy Replacement:** Directly replaces original equipment on specific vehicle applications.
- **Durably Designed:** Features a factory-sealed and precision-forged housing to resist corrosion.
- **Reliably Engineered:** Constructed to minimize wear rate and ensure overall strength.
- **Quality Assurance:** Backed by a team of professional engineers and quality control specialists in the United States.

WHAT'S IN THE BOX

Upon opening the product packaging, you should find the following components:

- 1 x Tie Rod
- 1 x Hexagon Nut

- 1 x Locked CIR Clip

COMPATIBILITY

The Dorman TI96000 Front Inner Steering Tie Rod End is compatible with the following vehicle models:

- **Jeep Commander:** 2006, 2007, 2008, 2009, 2010
- **Jeep Grand Cherokee:** 2005, 2006, 2007, 2008, 2009, 2010

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

INSTALLATION

Installation of steering components requires specialized tools and knowledge. It is highly recommended that this part be installed by a qualified automotive technician.

General Installation Steps (Consult Service Manual for Specifics):

1. Safely lift and support the vehicle.
2. Remove the wheel and access the existing tie rod end.
3. Measure and record the exposed thread length of the old tie rod end to aid in initial alignment.
4. Remove the retaining nut and separate the old tie rod end from the steering knuckle using appropriate tools.
5. Unscrew the old tie rod end from the inner tie rod.
6. Thread the new Dorman TI96000 tie rod end onto the inner tie rod, matching the previously recorded thread length as closely as possible.
7. Connect the new tie rod end to the steering knuckle and secure it with the provided hexagon nut and locked CIR clip. Ensure all fasteners are torqued to manufacturer specifications.
8. Reinstall the wheel and lower the vehicle.
9. **Important:** A professional wheel alignment is mandatory immediately after replacing any steering components to ensure proper vehicle handling and tire wear.

Installation Type: Bolt-On.

OPERATING PRINCIPLES

The inner tie rod end, such as the Dorman TI96000, is a pivotal connection point in your vehicle's rack and pinion steering system. It connects the steering rack to the outer tie rod end, which then connects to the steering knuckle. When you turn the steering wheel, the steering rack moves horizontally, pushing or pulling the inner tie rod. The ball joint design of the tie rod end allows for the necessary angular movement as the suspension articulates and the wheels turn, ensuring precise control and responsiveness of the vehicle's steering.

MAINTENANCE

Regular inspection of your vehicle's steering and suspension components is crucial for safety and performance. While the Dorman TI96000 is designed for durability, periodic checks can help identify potential issues early.

Recommended Maintenance:

- **Visual Inspection:** During routine oil changes or tire rotations, visually inspect the tie rod ends for any signs of

damage, such as torn dust boots, excessive rust, or bent components.

- **Play Check:** With the vehicle safely lifted, grasp the wheel at the 3 and 9 o'clock positions and attempt to move it horizontally. Any noticeable play or clunking sounds could indicate a worn tie rod end.
- **Lubrication:** If the tie rod end has a grease fitting (zirc fitting), ensure it is periodically lubricated with appropriate chassis grease as per your vehicle's service manual. The Dorman TI96000 is factory-sealed, reducing the need for external lubrication.

TROUBLESHOOTING

If you experience any of the following symptoms, your tie rod end may be worn or damaged. Prompt attention to these issues is important for safety.

Symptom	Possible Cause (Tie Rod End Related)	Action
Loose or sloppy steering	Worn ball joint in the tie rod end allowing excessive play.	Inspect tie rod ends for play; replace if worn.
Uneven tire wear (feathering or cupping)	Improper toe alignment due to worn tie rod end.	Replace worn tie rod end and perform a wheel alignment.
Clunking or popping noises from front suspension	Loose or worn tie rod end.	Inspect and replace any loose or worn components.
Steering wheel not returning to center easily	Stiff or seized tie rod end.	Inspect for stiffness; replace if necessary.

Always consult a professional mechanic for diagnosis and repair of steering and suspension issues.

SPECIFICATIONS

Attribute	Detail
Model Number	TI96000
Brand	Dorman
Item Weight	1.5 pounds
Product Dimensions	16 x 4 x 4 inches
Installation Type	Bolt-On
Vehicle Service Type	Truck
Manufacturer	Dorman Products
UPC	843295055245

Attribute	Detail
OEM Part Numbers	1306012; 45A1224; 612.58032; 613.58032; ES4474; ES4583; ES800467; EV800467; EV80782; GS25700; JAR1151; MS25700; TA5325; TA5650; 52090488AE; 68000400AB; 68066486AA

WARRANTY & SUPPORT

Dorman Products are manufactured to high-quality standards and undergo rigorous evaluation processes. For specific warranty information and customer support, please refer to the official Dorman Products website or contact their customer service directly.

You can also visit the [Dorman Store on Amazon](#) for more information and product offerings.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question