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MOOG ES800533

MOOG ES800533 Steering Tie Rod End

INSTRUCTION MANUAL

Introduction

The MOOG ES800533 Steering Tie Rod End is engineered to deliver reliable performance and ensure fast, hassle-free installation. This component is crucial for maintaining proper steering and suspension function in compatible vehicles. It is designed with superior materials and undergoes rigorous testing to meet or exceed original equipment (OE) requirements.



Image: The MOOG ES800533 Steering Tie Rod End, showing its robust construction and components.

Compatibility

This MOOG ES800533 Steering Tie Rod End is compatible with the following vehicle models:

- 2010-2015 Lexus RX350
- 2010-2015 Lexus RX450h

- 2008-2019 Toyota Highlander
- 2009-2016 Toyota Venza

Important: Before purchasing or installing, always verify compatibility by entering your vehicle's year, make, model, engine, and trim information. Refer to the manufacturer's official compatibility guides for precise fitment details.

Key Features

Patented Pressed-In Cover Plate



This innovative design effectively seals out debris and minimizes looseness within the assembly. This feature significantly reduces bearing wear, contributing to a longer service life for the tie rod end.

Greaseable Socket

Greaseable DESIGN



FOR EASY MAINTENANCE AND LONGER WEAR

The greaseable socket allows for periodic lubrication, which is essential for inhibiting corrosion and wear. Fresh lubricant flushes out contaminants, ensuring smooth operation and extended durability.

Belleville Preload Washer



This component helps maintain the tightness of the bearing package as the bearings experience normal wear over time. It plays a critical role in absorbing impact and maintaining consistent performance.

Problem Solver Gusher Bearing



Slotted GUSHER BEARING

**DELIVERS LUBRICATION
TO REDUCE WEAR**

Featuring a metal-to-metal design, this bearing provides exceptional strength. Its unique construction allows grease to flow directly through the bearing surface, significantly reducing friction and contributing to a long operational life.

Heat-Treated Ball Studs



Heat **TREATED** **STUD**

**FOR EXTRA STRENGTH
AND DURABILITY**

The ball studs are subjected to a heat processing treatment to meet or exceed OE requirements. This process enhances their fatigue strength and inhibits premature failure, ensuring robust and durable performance.

Setup and Installation

The MOOG ES800533 Tie Rod End is designed for straightforward installation, offering precision tolerances that facilitate easy fitting and steering alignment. While professional installation is recommended for automotive components, the design aims to simplify the process.

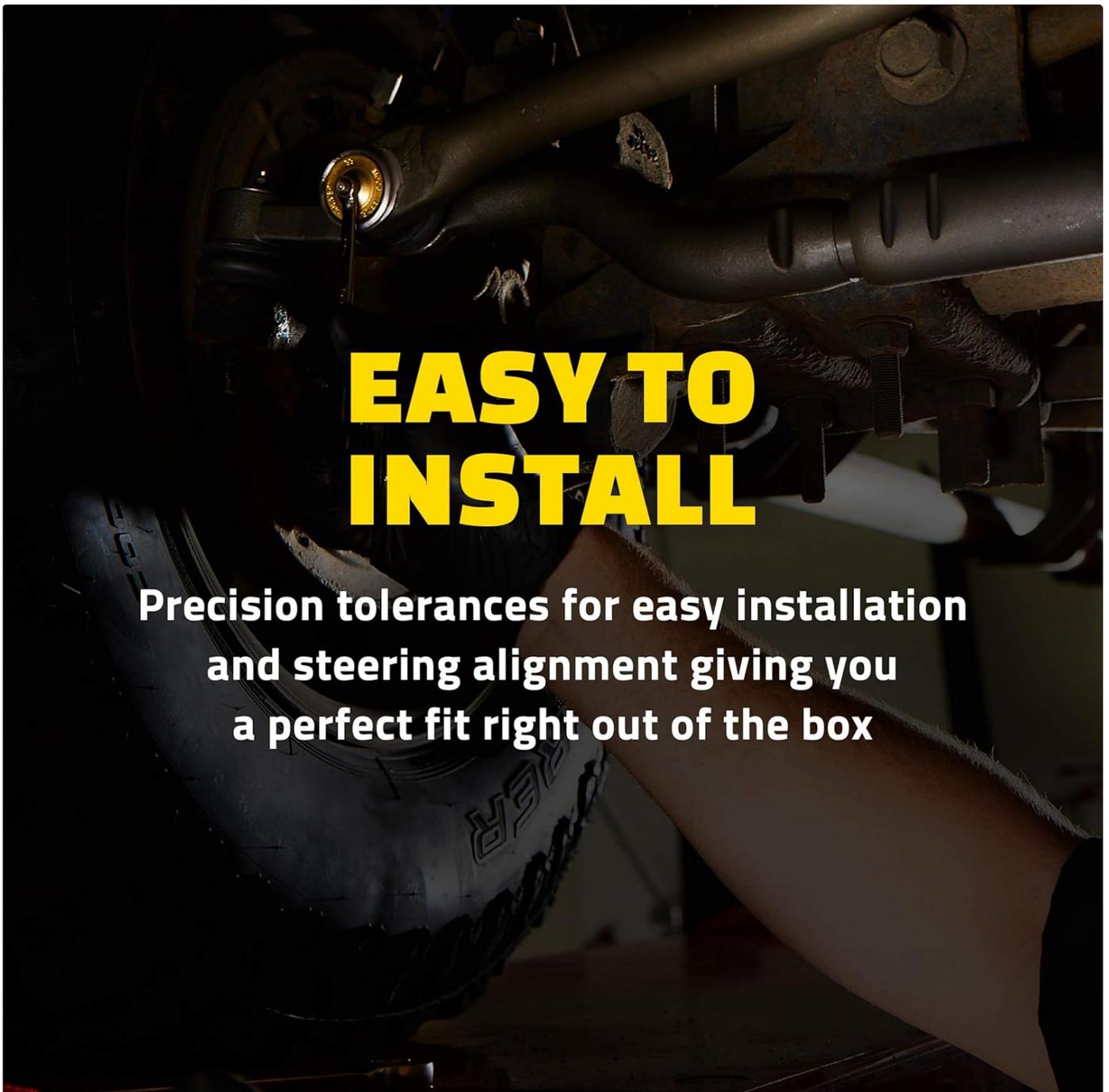


Image: Illustration of the tie rod end being installed, highlighting its ease of fitment.

Installation Tips:

- Ensure the vehicle is properly supported and secured before beginning any work.
- Always follow vehicle-specific service manual instructions for tie rod end replacement.
- After installation, a professional wheel alignment is highly recommended to ensure proper steering geometry and tire wear.

Maintenance

Regular maintenance of your MOOG ES800533 Tie Rod End, particularly utilizing its greaseable socket, will significantly extend its lifespan and maintain optimal performance.

Greasing Procedure:

1. Locate the grease fitting (zerk) on the tie rod end.
2. Using a grease gun, apply a high-quality chassis grease until a small amount of fresh grease begins to seep from

the boot. This indicates that old contaminants have been flushed out and the joint is adequately lubricated.

3. Wipe off any excess grease.

Consult your vehicle's service manual for recommended greasing intervals, typically during routine oil changes or vehicle inspections.

Troubleshooting Common Steering Issues

While the MOOG ES800533 is designed for durability, understanding common symptoms of worn steering components can help identify when replacement is necessary or if other issues are present.

Uneven Tire Wear



Symptom 1

Excessive wear on the inner or outer edges of tires can indicate issues with alignment, often caused by worn tie rod ends or other steering components.

Loose Steering or Wandering



Symptom 2

If your vehicle feels less responsive or tends to drift from a straight line, it could be a sign of worn tie rod ends contributing to excessive play in the steering system.

Vibrations in Steering Wheel



Symptom 3

Vibrations felt through the steering wheel, especially at certain speeds, can indicate worn components, including tie rod ends, affecting the balance and stability of the front end.

Clunking or Popping Noises



Symptom 4

Audible clunking or popping sounds when turning or going over bumps may indicate excessive play in the tie rod end

or other suspension joints.

If you experience any of these symptoms, it is advisable to have your vehicle inspected by a qualified mechanic to diagnose and address the issue promptly.

Specifications

Attribute	Detail
Brand	MOOG
Model Number	ES800533
Material	Rubber (for boot), Metal (for component)
Item Dimensions (L x W x H)	9.75 x 3.5 x 2.63 inches
Item Weight	1 Pound
Bearing Type	Ball Bearing
Compatible Lubricant	Grease
UPC	080066445953
Manufacturer	MOOG Chassis Products

Warranty and Support

For detailed warranty information regarding your MOOG ES800533 Steering Tie Rod End, please refer to the official MOOG website or the documentation included with your purchase. Warranty terms and conditions may vary.

If you require technical assistance, have questions about installation, or need to report a product issue, please contact MOOG customer support directly. Contact information can typically be found on the MOOG official website or product packaging.

You can visit the official MOOG store on Amazon for more products and information: [MOOG Store](#)