Mevotech TXMS25645

Mevotech TTX Steering Tie Rod Ends Kit User Manual

Model: TXMS25645
Brand: Mevotech

Product Overview

The Mevotech TTX Steering Tie Rod Ends Kit is engineered for enhanced durability and performance in vehicle steering systems. Featuring advanced design elements, this kit provides a robust connection between the steering rack and the steering knuckle, crucial for precise steering control and vehicle stability.

Key features include:

- **Maximum Toughness:** Utilizes patented sintered bearings for extended performance life.
- **Contaminant Protection:** Equipped with a patented sealing ring that securely locks the boot onto the ball joint housing, preventing ingress of dirt and debris.
- **Simplified Installation:** Designed for quick and easy installation, including a part-specific Slotted Castle Nut and Easy Snap Cotter Pin.
- **Ease of Service:** Features a 180 Degree SAE grease fitting for convenient lubrication.
- **Optimized Performance:** Incorporates an application-specific ball stud system with a larger sphere for improved pressure distribution and overall performance.



Image: Mevotech TTX Steering Tie Rod End, showing the main component with its green boot and silver hardware.

TTX TIE ROD ENDS

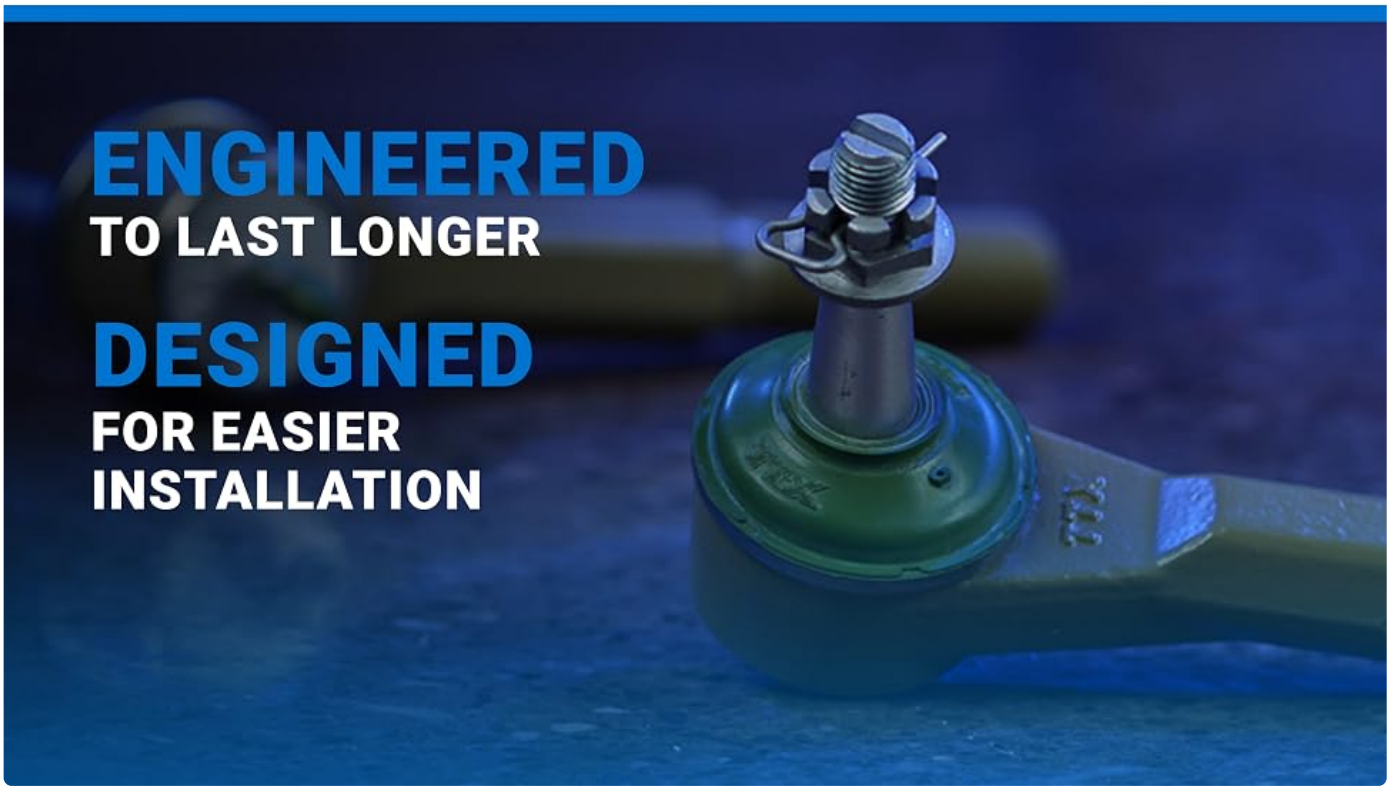


Image: Promotional banner highlighting the engineering and design benefits of the TTX Tie Rod Ends.

Installation Guide

Proper installation of the Mevotech TTX Steering Tie Rod Ends is critical for vehicle safety and performance. It is highly recommended that installation be performed by a qualified automotive technician. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

Pre-Installation Steps:

1. Safely lift and support the vehicle on jack stands.
2. Remove the wheel to access the tie rod end.
3. Loosen the jam nut on the inner tie rod.
4. Remove the cotter pin and castle nut from the tie rod end stud.
5. Use a tie rod end puller or fork to separate the tie rod end from the steering knuckle.
6. Carefully count the number of turns required to remove the old tie rod end from the inner tie rod. This count will be used to approximate the initial length for the new tie rod end to maintain alignment.

Installation Steps:

1. Thread the new Mevotech TTX tie rod end onto the inner tie rod, turning it the same number of turns counted during removal of the old part. This will provide a preliminary alignment setting.
2. Insert the tie rod end stud into the steering knuckle.
3. Secure the tie rod end to the steering knuckle using the provided Slotted Castle Nut. Torque to vehicle manufacturer specifications.
4. Insert the Easy Snap Cotter Pin through the castle nut and stud to secure it. Bend the ends of the cotter pin to prevent removal.

5. Tighten the jam nut on the inner tie rod against the new tie rod end.
6. Reinstall the wheel and lower the vehicle.

Important: After installation, a professional wheel alignment is mandatory to ensure proper steering geometry and tire wear.



Image: Included hardware for installation, featuring the castle nut, cotter pin, and grease fitting cap.

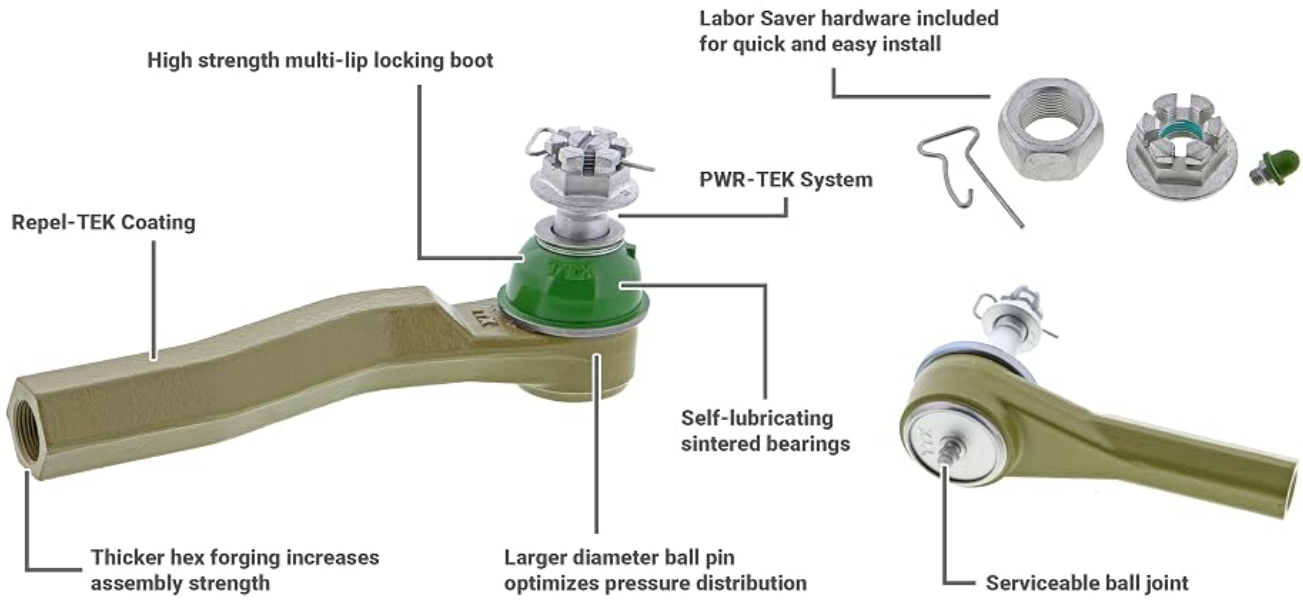


Image: Detailed diagram illustrating key features of the TTX Tie Rod End, including the PWR-TEK System, Repel-TEK Coating, multi-lip locking boot, sintered bearings, and larger ball pin.

Operating Principles

The Mevotech TTX Steering Tie Rod End is a critical component of your vehicle's steering and suspension system. It connects the steering rack (or steering box) to the steering knuckle, allowing the wheels to turn in response to steering wheel input. The ball-and-socket design facilitates rotational and pivotal movement, accommodating suspension travel and steering angles.

Proper functioning of the tie rod ends ensures:

- Accurate and responsive steering.
- Stable vehicle handling.
- Even tire wear.
- Reduced vibration and noise from the front end.



Image: Bottom view of the Mevotech TTX Tie Rod End, showing the grease fitting and the robust construction.

Maintenance

Regular maintenance is essential to maximize the lifespan and performance of your Mevotech TTX Steering Tie Rod Ends. These components are designed for durability, but periodic inspection and lubrication are recommended.

Lubrication:

The Mevotech TTX tie rod ends are equipped with a 180 Degree SAE grease fitting for easy servicing. It is recommended to lubricate the tie rod ends with a high-quality chassis grease at regular service intervals, typically during oil changes or tire rotations, or as specified by your vehicle manufacturer.

1. Locate the grease fitting on the tie rod end.
2. Clean the grease fitting to prevent contamination.
3. Attach a grease gun filled with appropriate chassis grease.
4. Pump grease until the boot begins to swell slightly, indicating it is full. Do not overfill, as this can damage the boot.
5. Remove the grease gun and wipe off any excess grease.



Image: Close-up of the grease fitting on the Mevotech TTX Tie Rod End, indicating its serviceability.

Inspection:

Periodically inspect the tie rod ends for signs of wear or damage:

- Check the rubber boot for cracks, tears, or punctures. A damaged boot can lead to contamination and premature failure.
- Inspect for excessive play in the joint. With the vehicle safely lifted, grasp the wheel at the 3 and 9 o'clock positions and attempt to rock it. Any significant play may indicate a worn tie rod end.
- Look for any signs of corrosion or damage to the metal components.

Troubleshooting

If you experience issues with your vehicle's steering or suspension after installing or while using Mevotech TTX Steering Tie Rod Ends, consider the following common symptoms and potential causes. Always consult a professional mechanic for diagnosis and repair.

Common Symptoms:

- **Loose or Sloppy Steering:** Excessive play in the steering wheel, requiring constant corrections to keep the vehicle straight.
- **Uneven Tire Wear:** Particularly on the inner or outer edges of the tires, indicating alignment issues or worn components.
- **Clunking or Popping Noises:** Sounds coming from the front suspension, especially when turning, going over bumps, or braking.
- **Vibration in Steering Wheel:** Vibrations that increase with speed or when turning.
- **Vehicle Pulling to One Side:** The vehicle consistently drifts left or right without steering input.

Potential Causes and Solutions:

- **Improper Installation:** Ensure all nuts are torqued to specification and cotter pins are correctly installed. Re-check the jam nut on the inner tie rod.
- **Incorrect Wheel Alignment:** A professional wheel alignment is crucial after tie rod end replacement. This is the most common cause of pulling and uneven tire wear.
- **Worn Components:** While new, inspect for any manufacturing defects. If symptoms persist, other steering or suspension components (e.g., ball joints, control arm bushings, inner tie rods, wheel bearings) may be worn.
- **Lack of Lubrication:** Ensure the tie rod ends are properly greased as per the maintenance section.
- **Damaged Boot:** A torn or cracked boot can lead to contamination and premature wear. Replace the tie rod end if the boot is compromised.

If you are unsure about the cause of a problem, or if symptoms persist, seek immediate assistance from a certified automotive technician.

Specifications

Specification	Detail
Brand	Mevotech
Model	Tie Rod End
Item Model Number	TXMS25645
Manufacturer Part Number	TXMS25645
Item Weight	1.35 pounds
Product Dimensions	7.2 x 4.5 x 4.5 inches
Exterior Finish	Machined
First Available Date	August 28, 2018

Warranty Information

Specific warranty terms for the Mevotech TTX Steering Tie Rod Ends Kit are provided by Mevotech. Please refer to the official Mevotech website or contact their customer service directly for detailed warranty coverage, terms, and conditions. Keep your proof of purchase for any warranty claims.

Customer Support

For technical assistance, product inquiries, or support regarding your Mevotech TTX Steering Tie Rod Ends Kit, please contact Mevotech customer service. You can typically find contact information on the official Mevotech website or through the retailer where the product was purchased.

When contacting support, please have the following information ready:

- Product Model Number: TXMS25645
- Date of Purchase
- Description of the issue

© 2023 Mevotech. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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