



Manuals.plus /

› Febi bilstein /

› febi bilstein 07778 Tie Rod Instruction Manual

## Febi bilstein 07778

# febi bilstein Tie Rod Instruction Manual

MODEL: 07778

## 1. Introduction

---

This instruction manual provides comprehensive information for the febi bilstein 07778 Tie Rod. This component is an original febi bilstein spare part, engineered to meet the specific requirements of various vehicle manufacturers. It is crucial to read and understand all instructions before installation and use to ensure proper function and safety.

## 2. Safety Information

---

- Always ensure the vehicle is securely supported on jack stands or a lift before working underneath.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Installation should ideally be performed by a qualified mechanic or technician.
- Ensure all fasteners are torqued to the vehicle manufacturer's specifications.
- After installation, a wheel alignment is highly recommended to ensure proper steering geometry and tire wear.
- Keep hands and clothing clear of moving parts.

## 3. Product Overview

---

The febi bilstein 07778 Tie Rod is a critical component of your vehicle's steering system, connecting the steering rack to the steering knuckle. It allows for precise steering input and helps maintain proper wheel alignment. This specific tie rod is designed for adjustable applications, suitable for both left-hand drive (LHD) and right-hand drive (RHD) vehicles depending on the specific vehicle configuration.



Image: The febi bilstein 07778 Tie Rod, showing its adjustable design and included nuts.

### Key Features:

- Original febi bilstein spare part - Solutions "Made in Germany"
- Tailored to specific vehicle requirements, not a universal product.
- Adjustable design for compatibility with left (left hand drive) and right (right hand drive) applications.
- Constructed from durable steel with a green finish.

## 4. Setup and Installation

---

Proper installation is vital for the safety and performance of your vehicle. It is strongly recommended that this part be installed by a certified automotive professional.

1. **Vehicle Identification:** Before beginning, use the vehicle identification information (e.g., VIN, make, model, year) to confirm compatibility of this part with your specific vehicle. Refer to the product specifications and any vehicle-specific guides.
2. **Preparation:** Lift the vehicle safely and secure it on jack stands. Remove the wheel to access the steering components.
3. **Removal of Old Part:** Loosen and remove the nuts securing the old tie rod. Use appropriate tools to separate the tie rod ends from the steering knuckle and steering rack. Note the exact position and number of turns if adjusting the new tie rod to match the old one's length for initial alignment.
4. **Installation of New Part:** Install the new febi bilstein 07778 Tie Rod. Ensure the threads are clean and free of debris. Securely fasten the tie rod ends to the steering knuckle and steering rack using the provided nuts.
5. **Torque Specifications:** Tighten all nuts to the vehicle manufacturer's specified torque values. Do not overtighten or undertighten.
6. **Final Checks:** Re-install the wheel. Lower the vehicle.
7. **Wheel Alignment:** A professional wheel alignment is mandatory after replacing a tie rod to ensure correct steering geometry, prevent premature tire wear, and maintain vehicle stability.

## 5. Operating Principles

---

The tie rod translates the rotational motion of the steering wheel, through the steering column and rack, into the lateral movement required to turn the vehicle's wheels. The adjustable nature of the febi bilstein 07778 allows for precise length adjustments, which are critical for setting the vehicle's toe alignment. Proper toe alignment ensures that the wheels are parallel to each other and perpendicular to the road, optimizing handling and tire longevity.

## 6. Maintenance

---

Regular inspection of your vehicle's steering components, including the tie rods, is recommended as part of routine vehicle maintenance. Look for the following:

- **Wear and Tear:** Check for excessive play in the tie rod ends. This can indicate worn ball joints within the tie rod.
- **Boot Integrity:** Inspect the rubber boots covering the ball joints for cracks, tears, or signs of grease leakage. Damaged boots can lead to contamination and premature failure.
- **Corrosion:** Check for significant rust or corrosion on the tie rod body or threads.
- **Damage:** Look for any signs of bending or impact damage to the tie rod.

If any issues are detected, consult a qualified mechanic for assessment and potential replacement.

## 7. Troubleshooting

---

If you experience any of the following symptoms after tie rod replacement or during general driving, it may indicate an issue with the tie rod or related steering components:

- **Uneven Tire Wear:** Often a sign of incorrect wheel alignment, which can be caused by a faulty or improperly adjusted tie rod.
- **Loose Steering:** Excessive play in the steering wheel, or a feeling of looseness when turning.
- **Steering Wheel Vibration:** Vibrations felt through the steering wheel, especially at certain speeds.
- **Clunking or Popping Noises:** Sounds coming from the front suspension or steering area, particularly when going over bumps or turning.
- **Vehicle Pulling to One Side:** The vehicle consistently drifts to the left or right without steering input.

If you encounter any of these issues, it is recommended to have your vehicle inspected by a professional mechanic immediately.

## 8. Specifications

---

Attribute	Value
Brand	Febi bilstein
Model Number	07778
Item Weight	1.41 pounds (0.64 kg)
Product Dimensions	9 x 6.06 x 4.14 inches (238 mm length; 66 mm height/thickness)
Outside Thread 1	M10 x 1.25
Outside Thread 2	M12 x 1.5
Thread Length 1	20 mm
Thread Length 2	51 mm
Wrench Size (Metric)	17 mm
Thread Mode	Right-hand thread; Left-hand thread
Color	Green
Material	Steel
Position	Front Left (vehicle-dependent)
OEM Part Number (for comparison)	Mercedes Benz PKW 201 330 15 03
Compatible Vehicles (among others)	Mercedes Benz: 190 'er (BM 201)

## 9. Warranty and Support

---

febi bilstein stands for continuity, quality, service, reliability, and innovation, operating under the motto 'solutions Made in Germany.' As a leading manufacturer and supplier in the independent aftermarket for over 170 years, febi bilstein is committed to providing high-quality, OE matching spare parts.

For specific warranty information or technical support, please refer to the official febi bilstein website or contact their customer service directly. Always ensure you have your product details and purchase information available when seeking support.

For further assistance or to verify compatibility, you may use the febi LIVE! tool on the official febi bilstein website.