

## TRQ SCA39046

# TRQ Front Strut & Coil Spring Assembly SCA39046 User Manual

Model: SCA39046

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## 1. PRODUCT OVERVIEW

The TRQ SCA39046 Front Strut & Coil Spring Assembly is engineered as a direct replacement for the original equipment in compatible BMW vehicles. This complete assembly integrates the strut, coil spring, and upper mount into a single unit, simplifying the installation process. It is designed to restore the vehicle's original ride height, handling, and stability.



Image 1.1: The TRQ SCA39046 Front Strut & Coil Spring Assembly, showcasing its integrated design.

## 2. VEHICLE COMPATIBILITY

This TRQ Strut & Coil Spring Assembly (SCA39046) is compatible with the following BMW models and years, specifically for vehicles **without Dynamic Drive**:

- **2004-2007 BMW 525i:** Front Driver Side and Front Passenger Side
- **2008-2010 BMW 528i:** Front Driver Side and Front Passenger Side
- **2004-2007 BMW 530i:** Front Driver Side and Front Passenger Side
- **2008-2010 BMW 535i:** Front Driver Side and Front Passenger Side

Always verify fitment using your vehicle's specific year, make, and model to ensure proper application.

# STRUT ASSEMBLY

## Product Features

Complete Assembly.....

Increased Tube Thickness.....

Upgraded Piston Rods.....



Image 2.1: Reminder to verify product fitment for your specific vehicle.

### 3. PACKAGE CONTENTS

The package for TRQ SCA39046 includes:

- One (1) TRQ Front Strut & Coil Spring Assembly (SCA39046)

Inspect all components upon receipt to ensure no items are missing or damaged.

### 4. SAFETY INFORMATION

**WARNING: Automotive repair can be dangerous. Always exercise caution and follow proper safety procedures.**

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery before working on electrical components.
- Use tools correctly and ensure they are in good condition.
- If you are unsure about any step, consult a qualified automotive technician.
- Coil springs are under high compression. While this assembly is pre-assembled, exercise caution during handling.

### 5. INSTALLATION GUIDE

The TRQ SCA39046 Strut & Coil Spring Assembly is designed for direct replacement, simplifying the installation process. However, professional installation is recommended due to the complexity and safety considerations involved with suspension components.

#### 5.1. Pre-Installation Steps

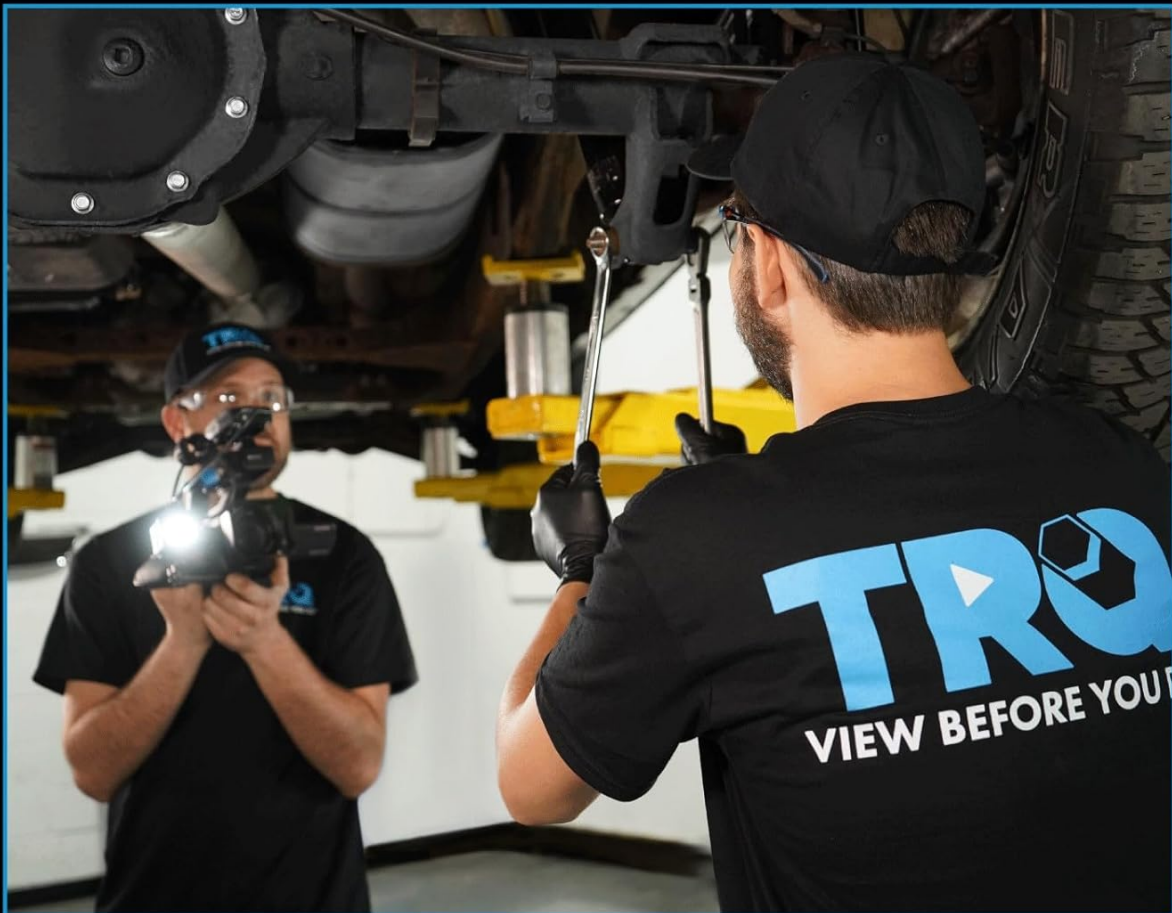
1. Park the vehicle on a level surface and engage the parking brake.
2. Loosen the lug nuts on the wheel corresponding to the strut being replaced.
3. Raise the vehicle using a floor jack and secure it with jack stands.
4. Remove the wheel.
5. Locate the existing strut assembly.

#### 5.2. Removal and Replacement

The following is a general overview. Specific steps may vary by vehicle model. Refer to a service manual or TRQ's detailed video guides for your specific vehicle.

1. Support the lower control arm with a jack.
2. Disconnect any brake lines, ABS sensor wires, or sway bar links attached to the strut.
3. Remove the bolts securing the lower part of the strut to the steering knuckle or control arm.
4. Access the engine bay and remove the nuts securing the upper strut mount to the vehicle's chassis.
5. Carefully remove the old strut assembly from the vehicle.
6. Install the new TRQ SCA39046 assembly in reverse order, ensuring all bolts are torqued to manufacturer specifications.
7. Reconnect all disconnected components.
8. Reinstall the wheel, lower the vehicle, and tighten lug nuts to specification.

## View Before You Do



## Largest Online DIY Video Library

Image 5.1: Detail of the upper mount, designed for direct fitment.



Image 5.2: Side profile of the complete strut assembly.

### 5.3. Video Installation Resources

TRQ provides an extensive library of installation videos to assist with the replacement process. For detailed, step-by-step visual instructions tailored to various vehicle models, please visit the official TRQ website or their dedicated video channels. These resources can be invaluable for ensuring a correct and safe installation.



Image 5.3: TRQ offers video guides for installation assistance.

## 6. FUNCTION AND OPERATION

The strut and coil spring assembly is a critical component of your vehicle's suspension system. It performs several key functions:

- **Support Vehicle Weight:** The coil spring bears the weight of the vehicle, maintaining proper ride height.
- **Absorb Shocks:** The strut's damper unit absorbs road impacts and vibrations, providing a smooth ride.
- **Maintain Tire Contact:** By controlling spring oscillations, the assembly ensures tires remain in consistent contact with the road, crucial for steering, braking, and acceleration.
- **Enhance Stability:** It contributes to vehicle stability and control, especially during turns and over uneven surfaces.

Properly functioning struts are essential for safe and comfortable driving.

## 7. MAINTENANCE

While the TRQ strut assembly is a sealed unit and does not require routine lubrication, periodic inspection of your vehicle's suspension components is recommended to ensure optimal performance and longevity.

### 7.1. Inspection Points

- **Visual Inspection:** Check for any signs of fluid leaks from the strut body, which indicates a failed seal.
- **Damage:** Look for bent or damaged strut rods, cracked coil springs, or worn rubber bushings on the upper mount.
- **Noise:** Listen for unusual noises (clunking, squeaking) coming from the suspension, especially over bumps.
- **Tire Wear:** Uneven or premature tire wear can be a symptom of worn suspension components.

### 7.2. Replacement Intervals

Struts and shocks typically have a lifespan of 50,000 to 100,000 miles, depending on driving conditions and vehicle usage. Consult your vehicle's owner's manual for specific recommendations.

## 8. TROUBLESHOOTING

If you experience any issues after installation or notice changes in your vehicle's handling, consider the following:

Symptom	Possible Cause	Action
Excessive bouncing or swaying	Worn strut damper, improper installation	Inspect for leaks, re-check installation torque, or consult a technician.
Clunking or rattling noises	Loose mounting bolts, worn bushings, damaged components	Verify all fasteners are tight, inspect rubber components for wear.

Symptom	Possible Cause	Action
Uneven tire wear	Misalignment, worn suspension parts	Perform a wheel alignment, inspect other suspension components.
Vehicle pulls to one side	Misalignment, uneven strut performance	Check for proper installation, perform a wheel alignment.

If troubleshooting steps do not resolve the issue, seek assistance from a certified mechanic.

## 9. PRODUCT SPECIFICATIONS

Attribute	Detail
Brand	TRQ
Model Number	SCA39046
Auto Part Position	Front (Driver and Passenger Side)
Vehicle Service Type	Car
Exterior Finish	Machined
Material	Aluminum
Automotive Fit Type	Vehicle Specific Fit
UPC	195591390460
Item Weight	19.01 pounds
Product Dimensions	8 x 29 x 7 inches
Reference Numbers	11960; 1335632L

## 10. WARRANTY AND CUSTOMER SUPPORT

TRQ products are designed for quality and reliability. For information regarding product warranty, returns, or technical assistance, please refer to the official TRQ website or contact their customer support directly. Keep your purchase receipt for warranty claims.

For further assistance, visit the [TRQ Store on Amazon](#).

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This manual is for informational purposes only. TRQ is not responsible for improper installation or misuse of the product.