

SCITOO Suspension Strut and Coil Spring Assembly Kit

SCITOO Front Suspension Kit for Nissan Maxima (2004-2008)

Instruction Manual

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1. INTRODUCTION

This instruction manual provides essential information for the installation, maintenance, and troubleshooting of your SCITOO Front Suspension Kit. This kit is specifically designed for Nissan Maxima models manufactured between 2004 and 2008. It includes front strut spring assemblies, tie rod ends, and stabilizer bar links, engineered to restore your vehicle's original ride quality and handling performance.

Please read this manual thoroughly before attempting any installation or maintenance procedures. Proper installation is crucial for vehicle safety and product longevity.

2. SAFETY INFORMATION

WARNING: Automotive suspension work requires specialized tools, knowledge, and safety precautions. Improper installation can lead to serious injury or vehicle damage.

- It is highly recommended that installation be performed by a qualified professional mechanic.
- Always 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.
- Refer to your vehicle's service manual for specific torque specifications and additional safety guidelines.
- Do not modify any components of this kit.

3. PRODUCT COMPONENTS

The SCITOO Front Suspension Kit for Nissan Maxima (2004-2008) includes the following parts:

- 2 x Front Strut Spring Assemblies (Part Numbers: 172241, 172242)
- 2 x Front Tie Rod Ends (Part Number: ES3438)
- 2 x Front Stabilizer Bar Links (Part Numbers: K90352, K90353)



Image 3.1: Overview of the complete SCITOO Front Suspension Kit, showing two strut assemblies, two tie rod ends, and two stabilizer bar links.



Image 3.2: A single SCITOO Front Strut Spring Assembly, featuring the shock absorber, coil spring, and upper mount.



Image 3.3: A SCITOO Front Tie Rod End, a critical steering component.



Image 3.4: A SCITOO Front Stabilizer Bar Link, designed to connect the sway bar to the suspension.

4. INSTALLATION GUIDE

This section provides a general overview of the installation process. For detailed, vehicle-specific instructions, always consult your Nissan Maxima's official service manual or a professional mechanic.

4.1. Preparation

1. Park the vehicle on a level surface and engage the parking brake.
2. Loosen the lug nuts on the front wheels.
3. Safely lift the front of the vehicle using a jack and support it with jack stands.
4. Remove the front wheels.

4.2. Removing Old Components

1. **Strut Assembly:** Disconnect the brake line and ABS sensor wire from the strut. Remove the lower strut mounting bolts from the steering knuckle. Access the upper strut mount bolts from the engine bay and remove them. Carefully lower and remove the old strut assembly.
2. **Tie Rod End:** Loosen the jam nut on the tie rod. Remove the cotter pin and castle nut from the tie rod end stud. Use a tie rod puller to separate the tie rod end from the steering knuckle. Count the number of turns required to remove the old tie rod end from the inner tie rod for alignment reference.
3. **Stabilizer Bar Link:** Remove the nuts securing the stabilizer bar link to the sway bar and the lower control arm/strut. Remove the old link.

4.3. Installing New Components

1. **Stabilizer Bar Link:** Install the new stabilizer bar link, securing it to the sway bar and the lower control arm/strut with new nuts. Do not fully tighten until the vehicle is on the ground.
2. **Tie Rod End:** Thread the new tie rod end onto the inner tie rod, matching the number of turns counted during removal. Insert the stud into the steering knuckle, install the castle nut, and tighten to specification. Install a new cotter pin. Tighten the jam nut.
3. **Strut Assembly:** Position the new strut assembly into the upper mount in the engine bay and loosely install the nuts. Align the lower strut mounting holes with the steering knuckle and install the bolts. Tighten all mounting bolts to the manufacturer's specified torque. Reattach the brake line and ABS sensor wire.

4.4. Post-Installation

1. Reinstall the front wheels and hand-tighten lug nuts.
2. Carefully lower the vehicle to the ground.
3. Tighten the lug nuts to the manufacturer's specified torque in a star pattern.
4. Tighten the stabilizer bar link nuts to specification.
5. It is mandatory to have a professional wheel alignment performed immediately after replacing suspension components to ensure proper handling and tire wear.

5. MAINTENANCE

Regular inspection and maintenance can extend the life of your suspension components.

- **Visual Inspection:** Periodically inspect struts, tie rod ends, and stabilizer bar links for signs of wear, damage, or leaks. Look for cracked or torn boots, bent components, or excessive rust.
- **Noise Check:** Listen for unusual noises (clunking, rattling) coming from the suspension, especially over bumps.
- **Alignment:** Ensure wheel alignment is checked annually or whenever new suspension components are installed.
- **Tire Wear:** Monitor tire wear patterns. Uneven wear can indicate suspension or alignment issues.

6. TROUBLESHOOTING COMMON ISSUES

Symptom	Possible Cause	Solution
Excessive Bouncing or Swaying	Worn struts or shock absorbers.	Inspect and replace struts if necessary.
Clunking or Rattling Noises	Loose or worn stabilizer bar links, tie rod ends, or strut mounts.	Inspect and tighten or replace affected components.
Uneven Tire Wear	Improper wheel alignment, worn suspension components.	Perform a wheel alignment. Inspect and replace worn parts.
Loose Steering or Poor Handling	Worn tie rod ends or other steering/suspension components.	Inspect steering and suspension components; replace as needed.

If you experience persistent issues or are unsure about the cause, consult a professional mechanic.

7. PRODUCT SPECIFICATIONS

- Brand:** SCITOO
- Model:** Suspension Strut and Coil Spring Assembly Kit
- Compatibility:** Nissan Maxima (2004, 2005, 2006, 2007, 2008)
- Kit Includes:** 2 Front Strut Spring Assemblies, 2 Front Tie Rod Ends, 2 Front Stabilizer Bar Links
- OEM Part Numbers:** 172241, 172242, ES3438, K90352, K90353
- Item Weight:** Approximately 56.5 pounds (total kit)
- Product Dimensions:** Approximately 25.83 x 16.85 x 11.81 inches (packaging)
- Manufacturer Part Number:** 823838-5206-1457433743

8. WARRANTY & SUPPORT

- SCITOO is committed to providing high-quality auto parts. This product is designed for durability and performance.
- Returns:** This product is eligible for 30-day easy returns. Please refer to the retailer's return policy for details.
 - Damaged Parts:** SCITOO supplies replacements for damaged parts caused by transportation. Please contact customer support immediately if you receive damaged items.
 - Customer Support:** For any questions regarding installation, compatibility, or product issues, please contact SCITOO customer support. You can often find contact information on the retailer's website or through the SCITOO brand store.
 - Legal Disclaimer:** All references to trademark names and models are for compatibility purposes only and do not imply any affiliation or endorsement by the original manufacturer.

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