

Front Shock Absorber With Coil Spring Reassembly

Service Category Suspension

Section Front Suspension

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2005 - 2015	Tacoma	VDS(s): JX4CN, NX22N, NX4CN, TU22N, TU4CN, TX22N, TX4CN

Introduction

Referencing this Service Bulletin provides best practice procedures when reassembling and installing the front shock absorber with coil spring.

Some 2005 – 2015 model year Tacoma vehicles with applicable VDS have a different coil spring diameter. This may lead to a lateral force applied to the support plate upon reassembly of the front shock absorber with coil spring assembly. This may cause the inner rubber sleeve of the support plate to pull out when spring tension is released and the support plate to tilt.

NOTE

This Service Bulletin ONLY provides best practices for front shock absorber with coil spring assembly. The Repair Manual MUST be referenced with this bulletin when performing front shock absorber with coil spring assembly replacement.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

Front Shock Absorber With Coil Spring Reassembly

Best Practices (Service Part Only)

Use the following best practices to reduce the chances of the inner rubber sleeve of the strut front suspension support sub-assembly from tearing after reassembly.

1. Replace the front shock absorber with coil spring assembly and front suspension support sub-assembly together.

NOTE

Apply a thin coat of a lithium-based grease to the shock absorber rod where it contacts the inner rubber sleeve on the support plate.

Refer to TIS, applicable model and model year Repair Manual:

- 2005 Tacoma:
Suspension – All – “Front Suspension: Front Shock Absorber With Coil Spring (2WD):
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2006 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2007 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2008 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2009 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2010 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2011 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2012 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2013 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2014 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
- 2015 Tacoma:
Suspension – All – “Suspension: Front Shock Absorber:
[Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”

Front Shock Absorber With Coil Spring Reassembly

Best Practices (Service Part Only) (continued)

2. While following the Repair Manual procedure for orientation, it is important to note the lateral force direction the spring applies to the strut support plate and shock absorber rod.
The strut support plate and shock absorber rod need to be perpendicular to avoid the inner rubber sleeve from pulling out when tension is released
3. Reinstall the front shock absorber with coil spring assembly into the vehicle using the original shock mount nuts. Torque to specified value.
4. Lower the vehicle to resting position ride height, but leave the lift arms set under the vehicle.

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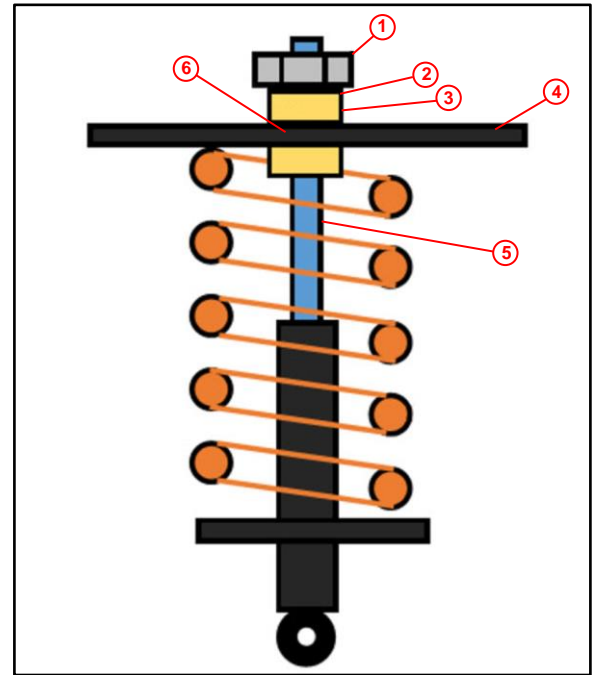
Best Practices (Service Part Only) (continued)

5. Remove the shock absorber rod nut, front shock absorber cushion retainer, and front shock absorber cushion No. 1 to expose the top of the front suspension support sub-assembly.
6. Visually inspect the inner rubber sleeve of the front suspension support sub-assembly. The inner rubber sleeve of the front suspension support sub-assembly will likely be deformed as shown in Figure 2.

CAUTION

Do NOT lift the vehicle too high without the shock absorber rod nut. The shock absorber rod nut could pull out of the front suspension support sub-assembly due to spring tension under vehicle load.

Figure 1.



1	Shock Absorber Rod Nut
2	Shock Absorber Cushion Retainer
3	Shock Absorber Cushion No. 1
4	Suspension Support Sub-assembly
5	Shock Absorber Rod
6	Inner Rubber Sleeve Location

Figure 2. Deformed Inner Rubber Sleeve



Figure 3. Normal Inner Rubber Sleeve



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Best Practices (Service Part Only) (continued)

7. Reinstall the shock absorber rod nut for safety.

NOTE

Secure the shock absorber rod nut with only a few turns, ensuring contact with AT LEAST 3 – 4 threads.

8. Bump the lift controls slowly and raise the vehicle approximately no more than 1/2 inch.

NOTE

Do NOT lift the vehicle too high. Small increments are important as the inner sleeve will hit a point where it pulls down below the surface. This will require starting over from initial reassembly to properly correct this condition.

9. Push the inner rubber sleeve down into the front suspension support sub-assembly and make sure it is as flush as possible.

NOTE

Perform a “fingernail test” to confirm proper fit. There should be minimal difference in height between the inner rubber sleeve and front suspension support sub-assembly.

Figure 4. Ideal Condition



10. Once the inner rubber sleeve is flush, remove the shock absorber rod nut from the shock absorber rod and make sure no tension is being applied.

NOTE

Do NOT lower or raise to reinstall the front shock absorber cushion No. 1 as the inner rubber sleeve can move.

11. Reinstall the front shock absorber cushion No. 1, front shock absorber cushion retainer, and shock absorber rod nut. Make sure to torque the shock absorber rod nut to the specifications in the Repair Manual.
12. Lower the vehicle and perform a road test to confirm the condition is no longer present.