

Front Shock Absorber Package Installation (Long Travel ZR2 Instruction ID: 84989073)

Table 1: [Parts Included with Accessory Kit](#)

Table 2: [Required Parts \(Not Included With Kit\)](#)

Installation Instructions Part Number

84989073

Parts Included with Accessory Kit

Description	Quantity
Drivers Side Shock P/N 84989074	1
Passengers Side Shock P/N 84989075	1
Top Mount	2
Upper Top Mount Washer	2
Lower Top Mount Washer	2
Upper Spring Seat	2
Tennon Nut	2
M10 x 1.5 Flange Nut	6
M10 x 1.5 x 70 Bolt	4
M10 x 1.5 Lock Nut	4
Preload Adjuster	2
Instruction sheet	1

Required Parts (Not Included With Kit)

Description	Quantity
Coil Springs 3" ID by 14" Tall	2

Note: Recommended spring rates are 650 lb per in. or 700 lb per in. depending on expected load on the front of the vehicle.

Tools Required

- CH-43631 Ball Joint Separator
- EN-45059 Torque Angle Meter
- CH-48845 Strut Spring Compressor

Equivalent regional tools: Refer to [Special Tools](#) in Vehicle Service manual.

The parts listed in this catalog are intended for installation in competition vehicles for operation in Off Road racing applications only. By "competition vehicles," GM means vehicles (i) used exclusively for competitions organized and sanctioned by a local or private body and (ii) not designed for use on public streets or highways. Consumers are strongly advised not to install parts accompanied by this warning on vehicles that will be driven on public roads. They have not been designed or tested for crashworthiness or to meet the safety needs of the motoring public, and they may not meet the full durability requirements that Chevrolet validates for its street legal, production vehicle components.

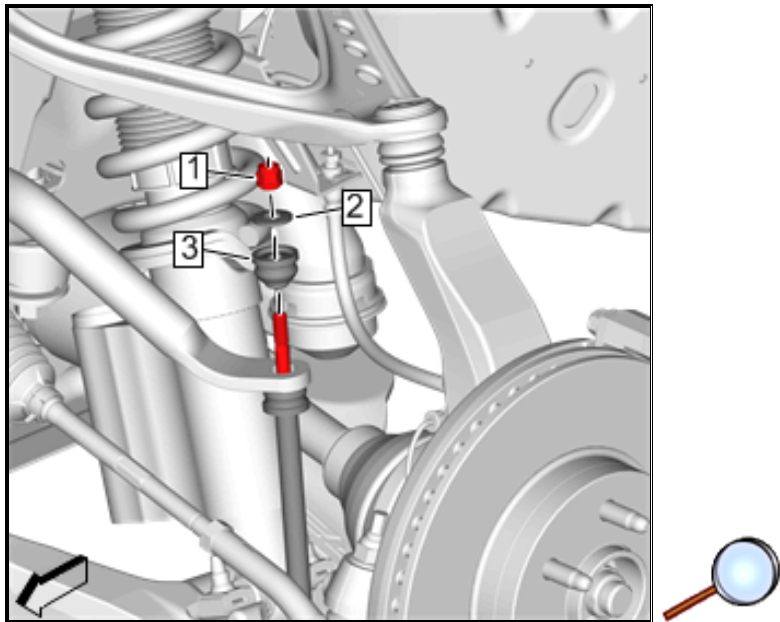
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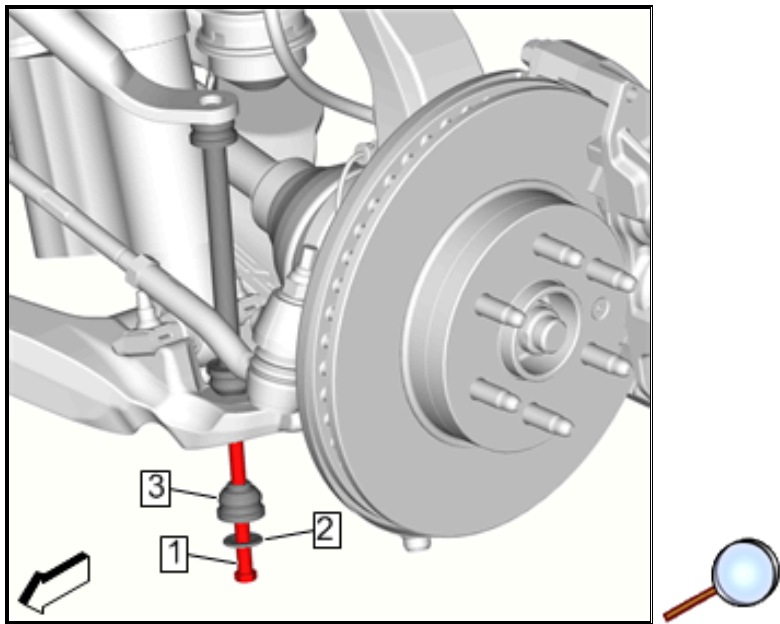
Removal Procedure

1. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) in Vehicle Service Manual.
2. Remove the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) in Vehicle Service Manual.

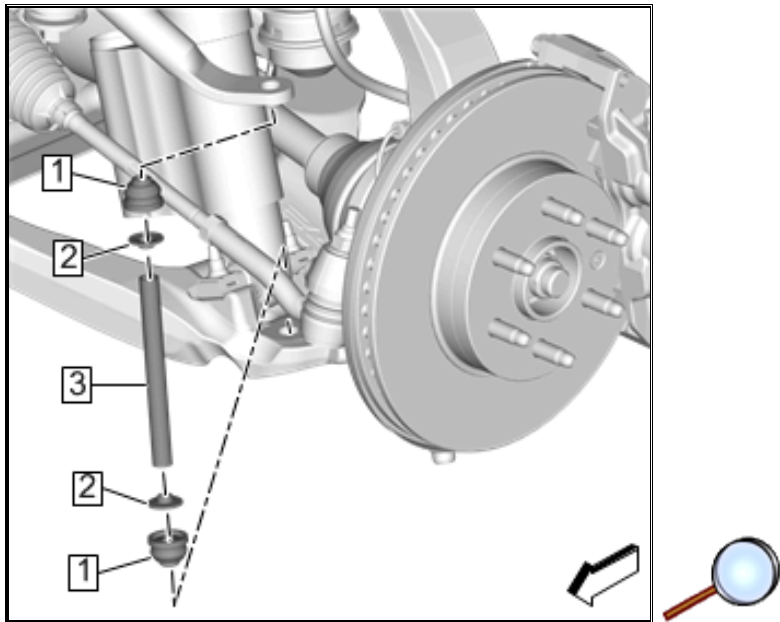


Note: Rest the front stabilizer shaft on a suitable support to relieve the tension on the front stabilizer shaft link.

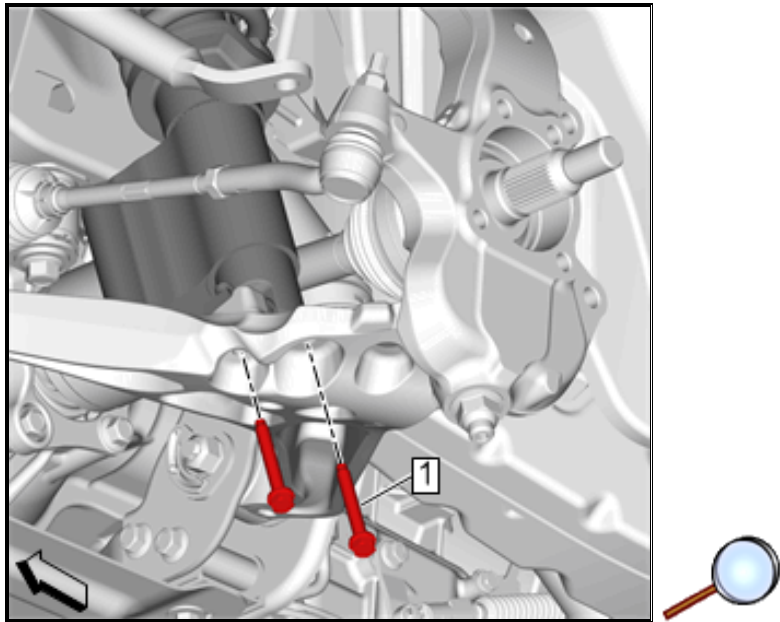
3. At the top of the front stabilizer shaft link assembly, remove the nut (1), washer (2), and spacer (3).



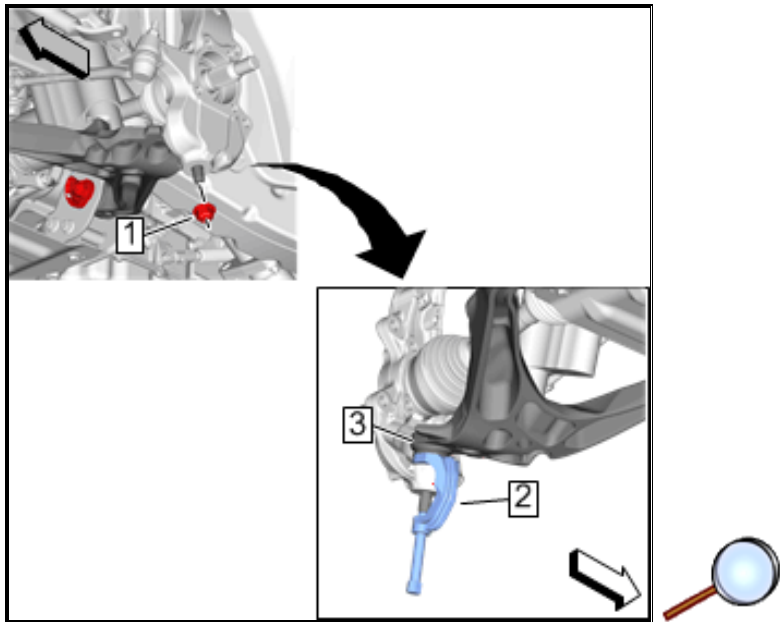
4. At the bottom of the front stabilizer shaft link assembly, remove the bolt (1), washer (2), and spacer (3).



5. At the middle of the front stabilizer shaft link assembly, remove the spacers (1), washers (2), and spacer (3).

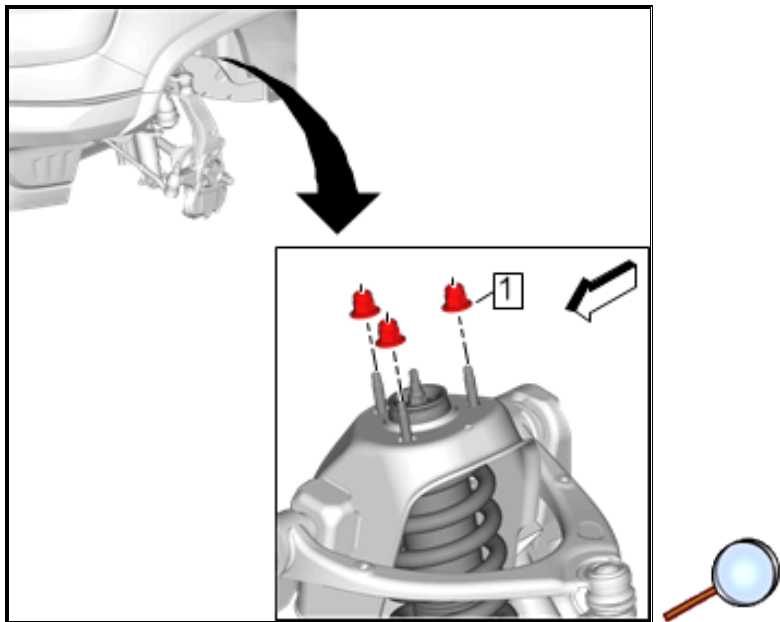


6. Remove the front shock absorber bolts (1) and discard them.

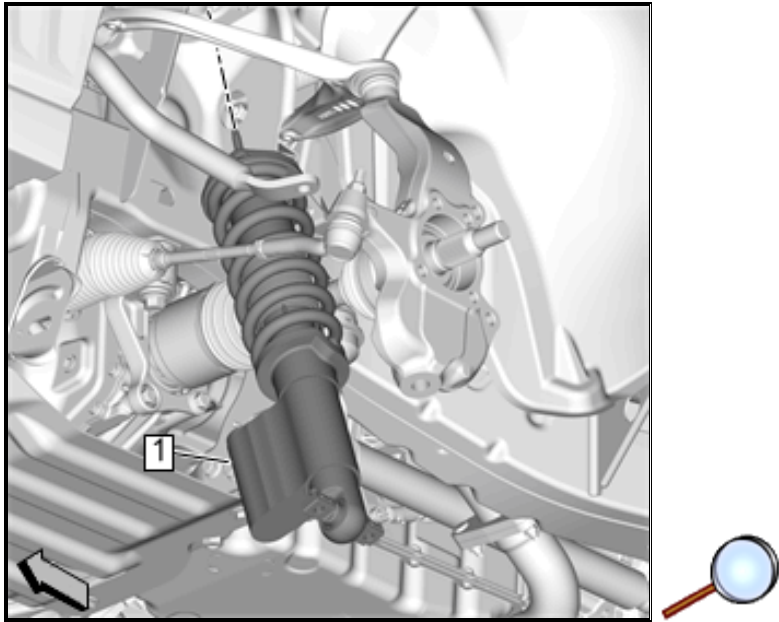


7. Front Lower Control Arm Ball Stud Nut (1) » Remove

8. Use the *CH-43631* Ball Joint Separator (2) to separate the front lower control arm (3) from the steering knuckle.



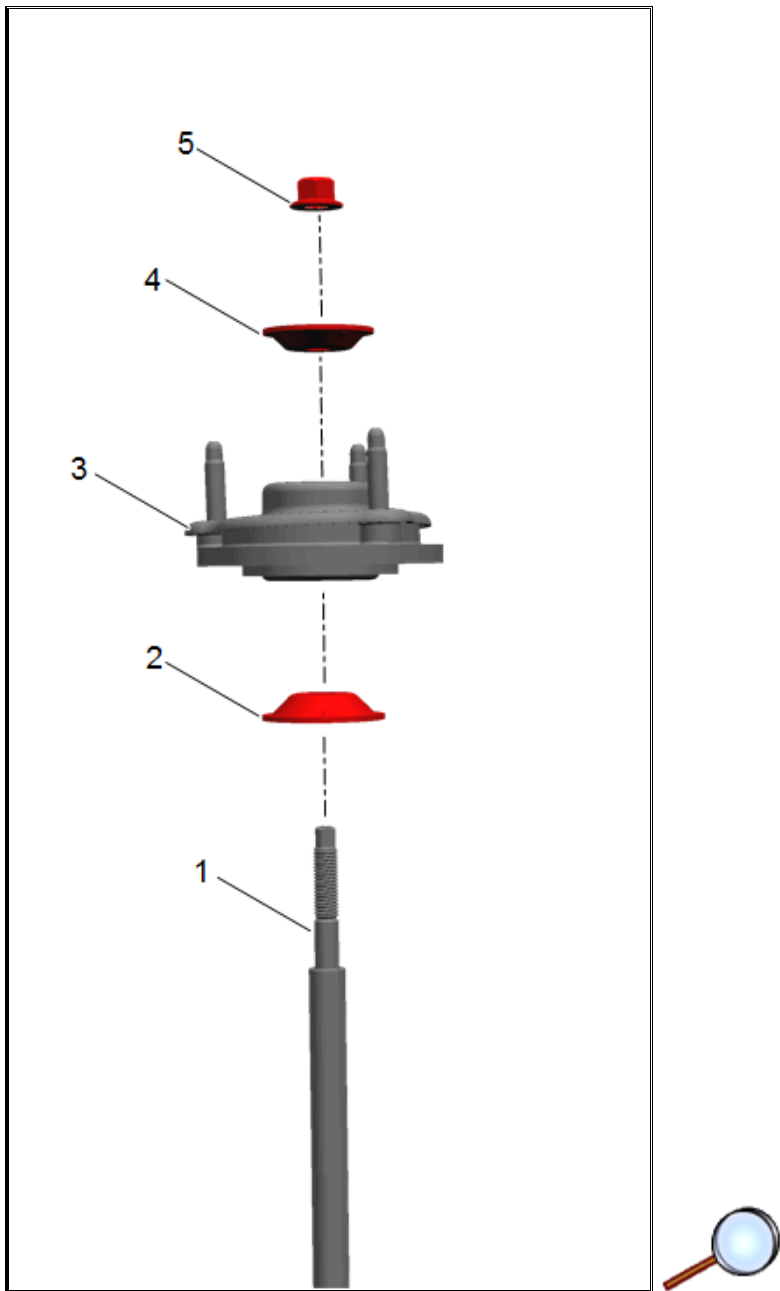
9. Front Shock Absorber Nut (1) » Remove [3x]



10. Pivot the lower control arm downward and remove the front shock absorber and spring assembly (1) from the vehicle.

Shock Assembly Procedure

1. Use the *CH-48845* compressor to compress the coil spring and slide it onto the absorber body.



Caution: Refer to [Fastener Caution](#).

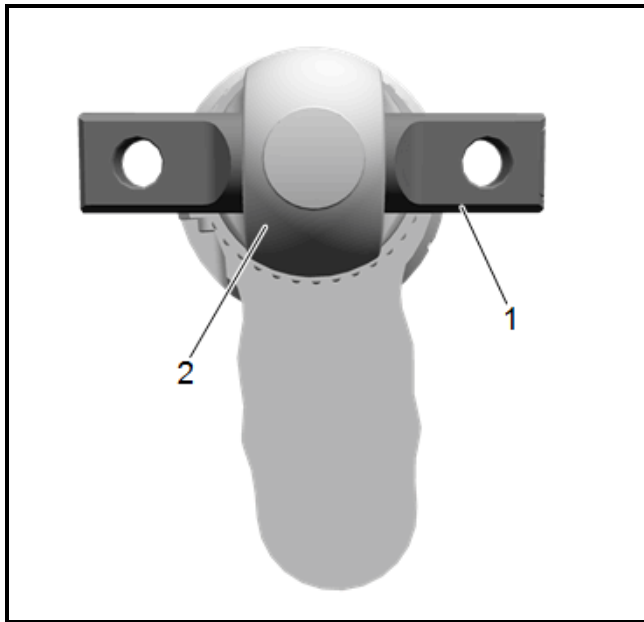
2. Assemble the top mount and washers to shock (1) as shown:

- Lower Top Mount Washer (2)
- Top Mount (3)
- Upper Top Mount Washer (4)
- Tennon Nut (5)

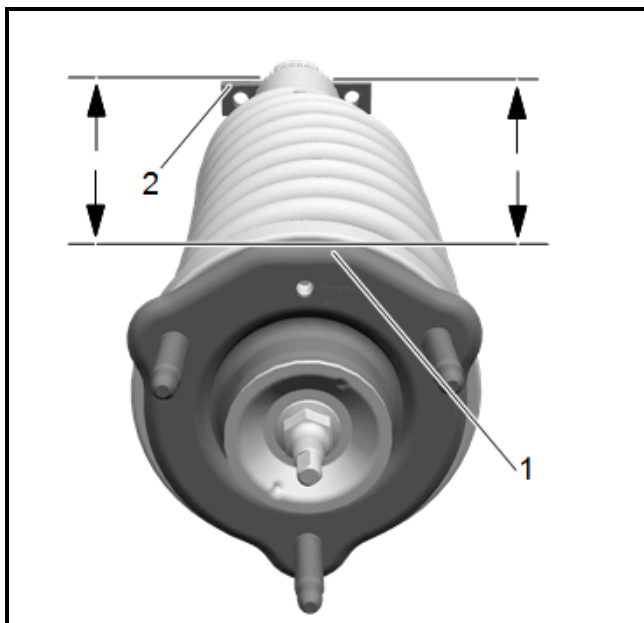
Note: The joint should be assembled dry without any lubricant on the threads (i.e., Loctite or anti-seize).

Tighten

tennon nut to 52 N.m (38 lb ft).



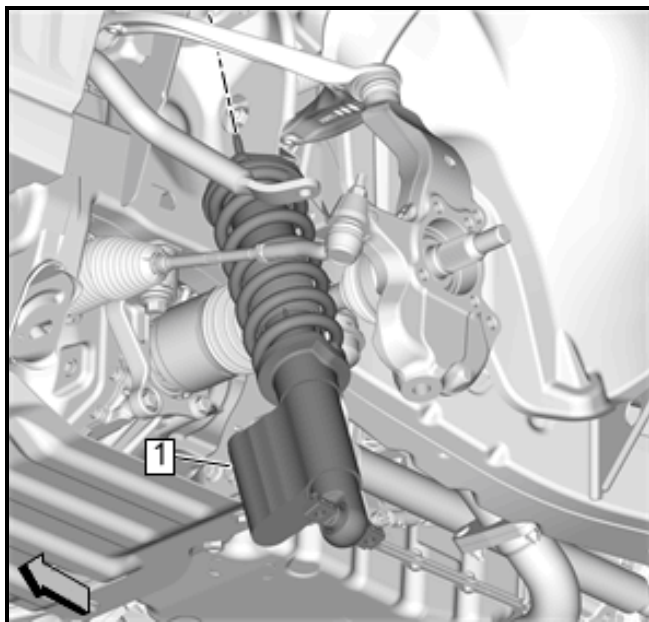
3. Align the bar pin (1) with the shock body (2) so that they are in line.



4. Align the top mount (1) with the bar pin (2) by making the lines parallel.

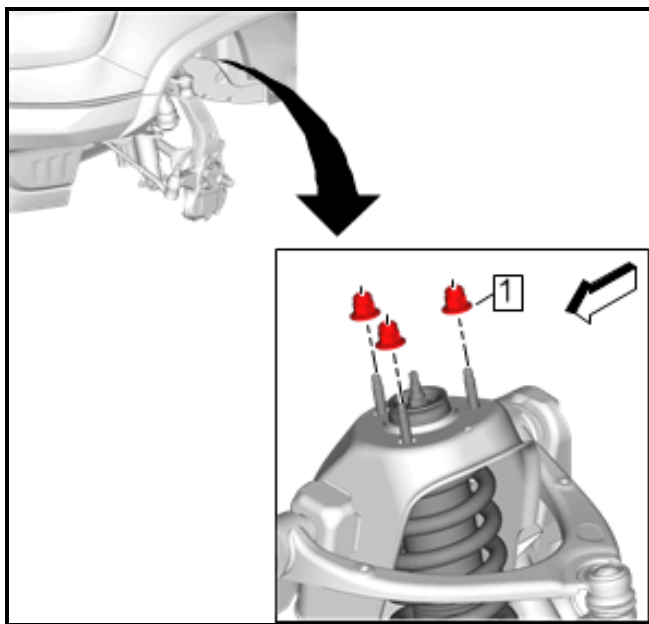
5. Release the spring compressor ensuring to maintain the relationship between the top mount and the shock.

Installation Procedure

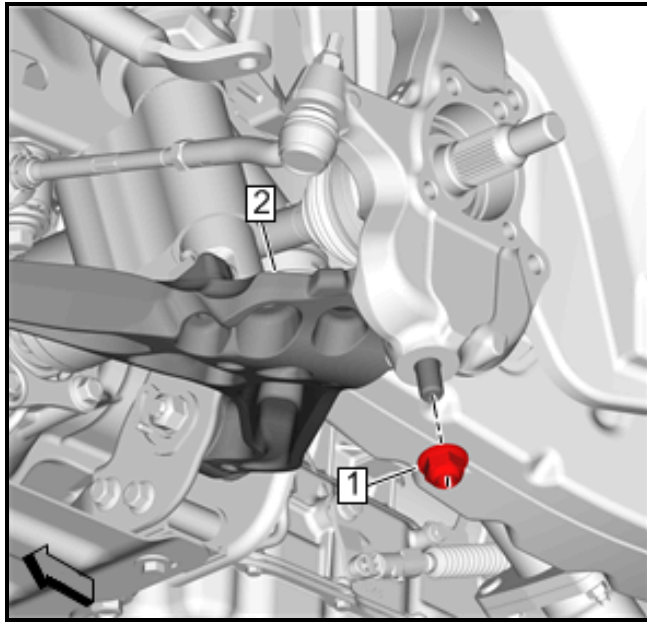


Note: Ensure that the shocks are installed on the correct side of the vehicle! The shocks are etched RH and LH.

1. Position the driver's side front shock absorber P/N 84989074 and spring assembly (1) on the vehicle.



2. Install the 3 new nuts (1) to the front shock absorber.
Tighten
nuts to 58 N.m (43 lb ft).

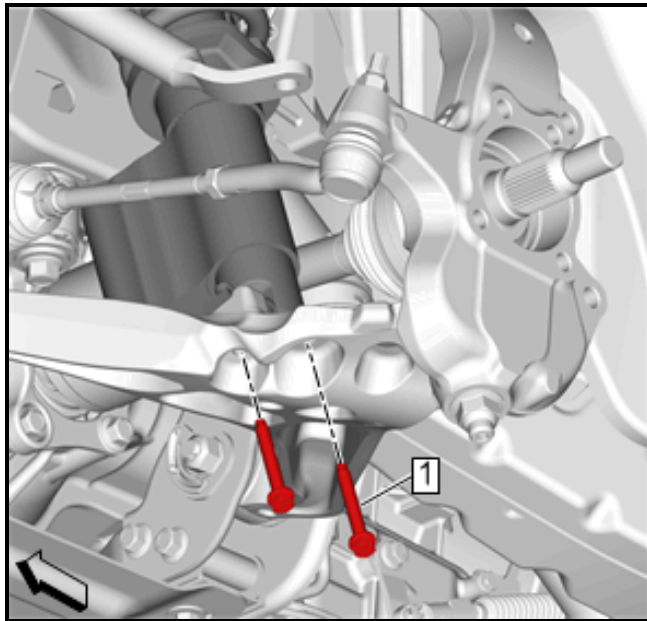


3. Align the front lower control arm ball stud on the knuckle and install nut (1). Use the *EN-45059* Torque Angle Meter to torque nut.

Tighten

3.1. First Pass: **75 N·m (55 lb ft)**

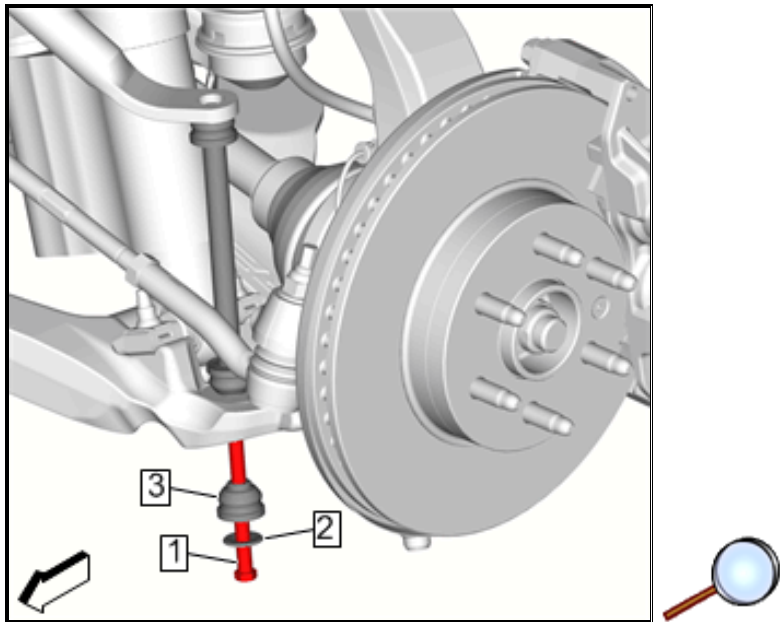
3.2. Final Pass: **(90–105 degrees)**



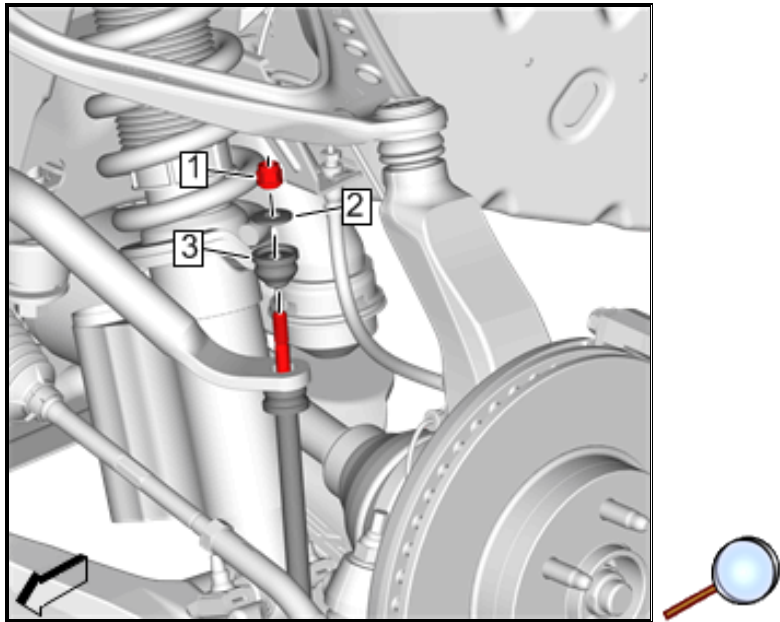
4. Install the front shock absorber bolts (1), with the nuts on top.

Tighten

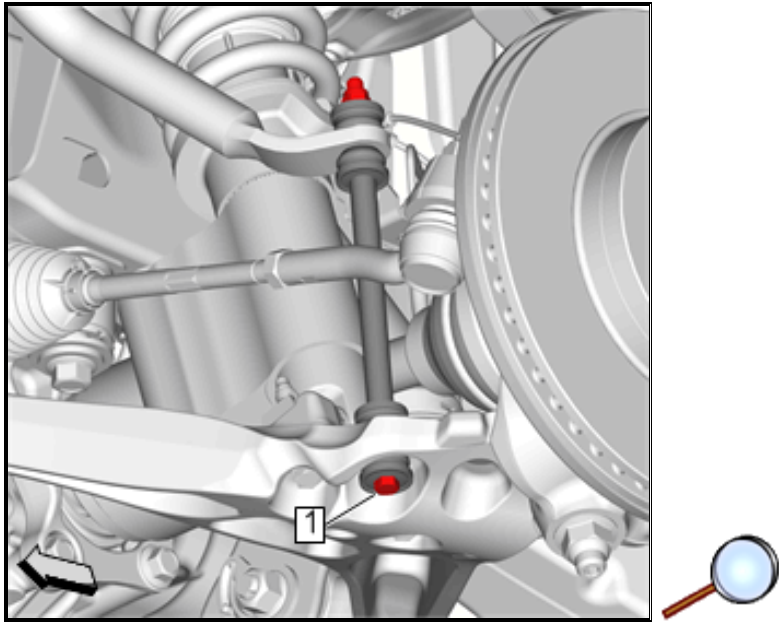
nuts to 50 N.m (37 lb ft).



5. At the bottom of the front stabilizer shaft link assembly, install the spacer (3), washer (2), and bolt (1).



6. At the top of the front stabilizer shaft link assembly, install the spacer (3), washer (2), and nut (1).



7. Tighten the front stabilizer shaft link bolt (1) to **30N•m (22 lb ft)**.
8. Repeat the installation on the passenger's side of the vehicle using the correct shock P/N 84989075.
9. Install the front wheel and tire assembly. Refer to [Tire and Wheel Removal and Installation](#) in Vehicle Service Manual.
10. Lower the vehicle.
11. Once the vehicle is on the ground on its own weight, it may be noticed that the vehicle is not level from side to side. Adjustments to the preload adjuster may be necessary to achieve the desired stance. Note that the shock will need to be disassembled to adjust the preload.
12. Measure and adjust front end alignment. Refer to [Wheel Alignment - Steering Wheel Angle and/or Front Toe Adjustment](#) in Vehicle Service Manual.