

2018 SUSPENSION

Rear Suspension - Traverse

SPECIFICATIONS

FASTENER SPECIFICATIONS

Single Use Threaded Fastener/Component Tightening Specifications

NOTE: <i>All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.</i>	
Application	Specification
	Metric (English)
Rear Shock Absorber Bolt @ Lower Control Arm	Torque mating fastener
Rear Suspension Adjust Link Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	90 - 105 Degrees
Rear Suspension Link Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	90 - 105 Degrees
Rear Suspension Link Inner Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	90 - 105 Degrees
Rear Suspension Link Outer Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	90 - 105 Degrees
Rear Suspension Lower Control Arm Outer Bolt	
• First Pass:	160 N.m (118 lb ft)
• Final Pass:	90 - 105 Degrees
Rear Suspension Trailing Arm Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	90 - 105 Degrees

NOTE:

All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.

Application	Specification
	Metric (English)
Rear Suspension Upper Control Arm Inner Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	90 - 105 Degrees
Rear Suspension Upper Control Arm Outer Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	90 - 105 Degrees
Rear Wheel Hub Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	15 - 30 Degrees

Reusable Threaded Fastener Tightening Specifications**NOTE:**

All fasteners listed in this table can be reused after removal.

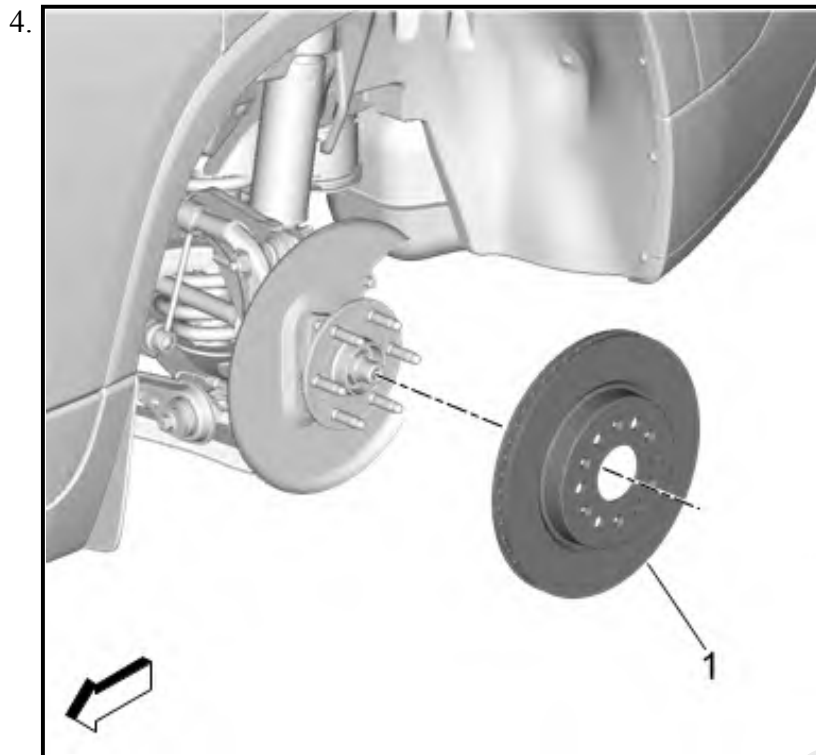
Application	Specification
	Metric (English)
Rear Shock Absorber Bolt @ Body	58 N.m (43 lb ft)
Rear Shock Absorber Nut	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	90 - 105 Degrees
Rear Shock Absorber Shock Rod Mount Nut	25 N.m (18 lb ft)
Rear Stabilizer Shaft Clamp Bolt	58 N.m (43 lb ft)
Rear Stabilizer Shaft Link Bolt	58 N.m (43 lb ft)
Rear Stabilizer Shaft Link Nut	64.5 N.m (48 lb ft)
Rear Suspension Link Inner Nut	100 N.m (74 lb ft)
Rear Suspension Lower Control Arm Inner Nut	160 N.m (118 lb ft)

ADHESIVES, FLUIDS, LUBRICANTS, AND SEALERS

Application	Type of Material	GM Part Number	
		United States	Canada
Knuckle Bearing Pilot Bore	Grease	12345996	10953501

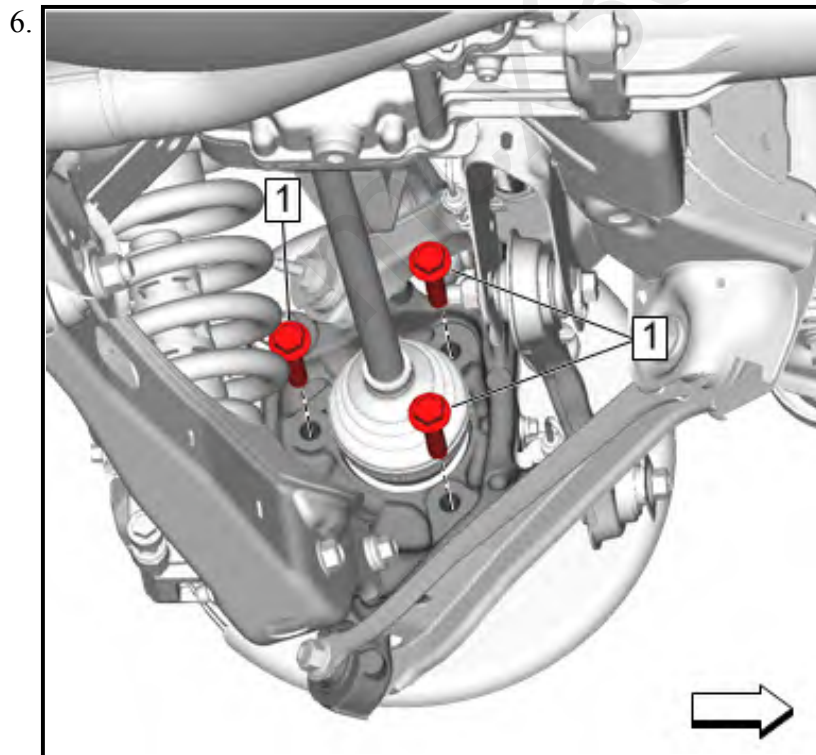
REPAIR INSTRUCTIONS**REAR WHEEL BEARING AND HUB REPLACEMENT (AWD)****Removal Procedure**

1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)
2. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
3. Rear Wheel Speed Sensor @ Rear Suspension Knuckle - Remove - [Rear Wheel Speed Sensor Replacement](#)



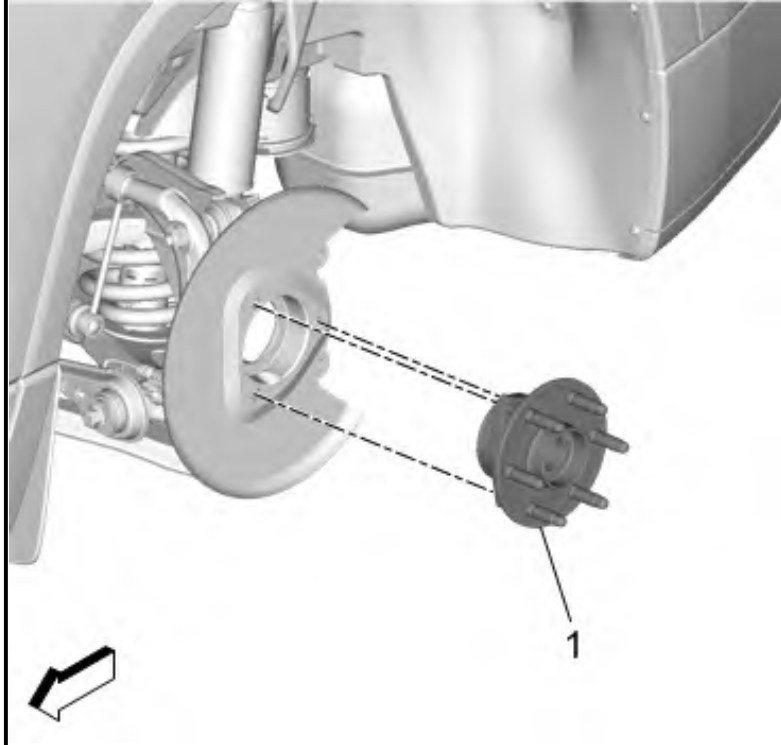
Rear Brake Rotor (1) - Remove - [Rear Brake Rotor Replacement](#)

5. Separate the appropriate rear wheel drive shaft from the affected rear wheel hub:
 - [Rear Wheel Drive Shaft Replacement - Left Side](#)
 - [Rear Wheel Drive Shaft Replacement - Right Side](#)



Rear Wheel Hub Bolt (1) - Remove and DISCARD [3x]



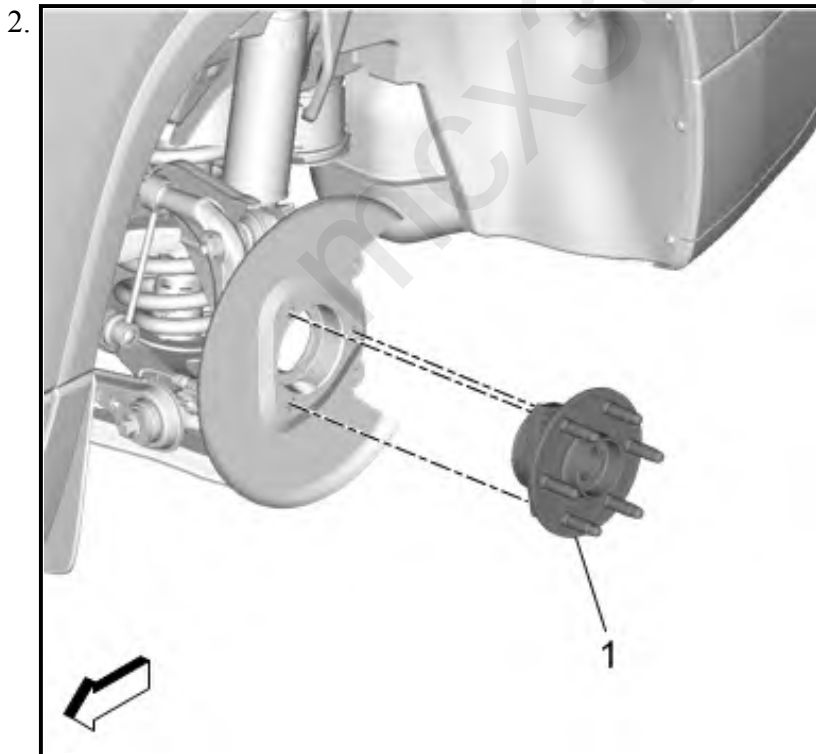


Rear Wheel Hub (1) - Remove

Installation Procedure

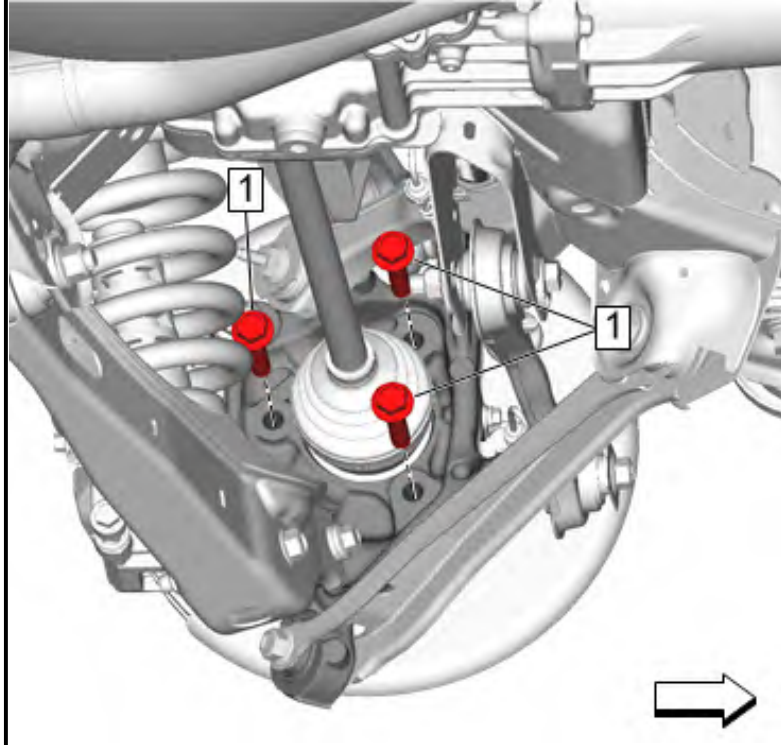
NOTE: Avoid applying grease to any other machined surface, holes, or threads. Ensure the drain channel at the bottom of the bore is not blocked with grease or debris.

1. Apply grease evenly and ensure complete coverage to the knuckle bearing pilot bore only. [Adhesives, Fluids, Lubricants, and Sealers](#)



Rear Wheel Hub (1) - Install





CAUTION: This vehicle is equipped with torque-to-yield or single use fasteners. Install a **NEW** torque-to-yield or single use fastener when installing this component. Failure to replace the torque-to-yield or single use fastener could cause damage to the vehicle or component.

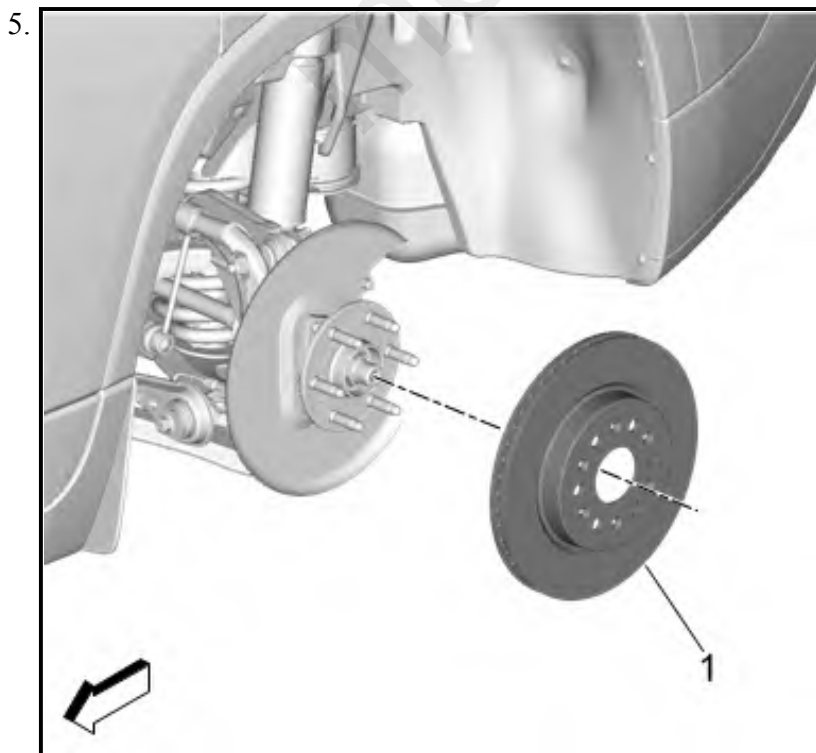
CAUTION: Refer to [Fastener Caution](#) .

Rear Wheel Hub Bolt (1) - Install NEW and tighten [3x]

1. First Pass: 100 N.m (74 lb ft)
2. Final Pass: (15 - 30 degrees)

4. Install the rear wheel drive shaft to the rear wheel hub:

- [Rear Wheel Drive Shaft Replacement - Left Side](#)
- [Rear Wheel Drive Shaft Replacement - Right Side](#)



Rear Brake Rotor (1) - Install - [Rear Brake Rotor Replacement](#)

6. Rear Wheel Speed Sensor @ Rear Suspension Knuckle - Install - [Rear Wheel Speed Sensor Replacement](#)

7. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)

8. Remove the support and lower the vehicle.

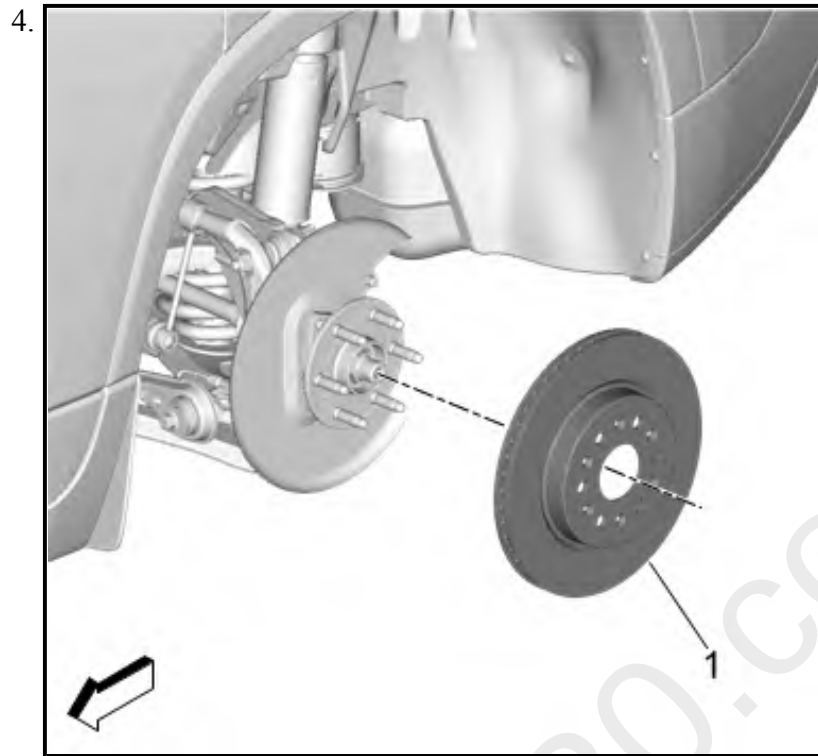
REAR WHEEL BEARING AND HUB REPLACEMENT (FWD)

Removal Procedure

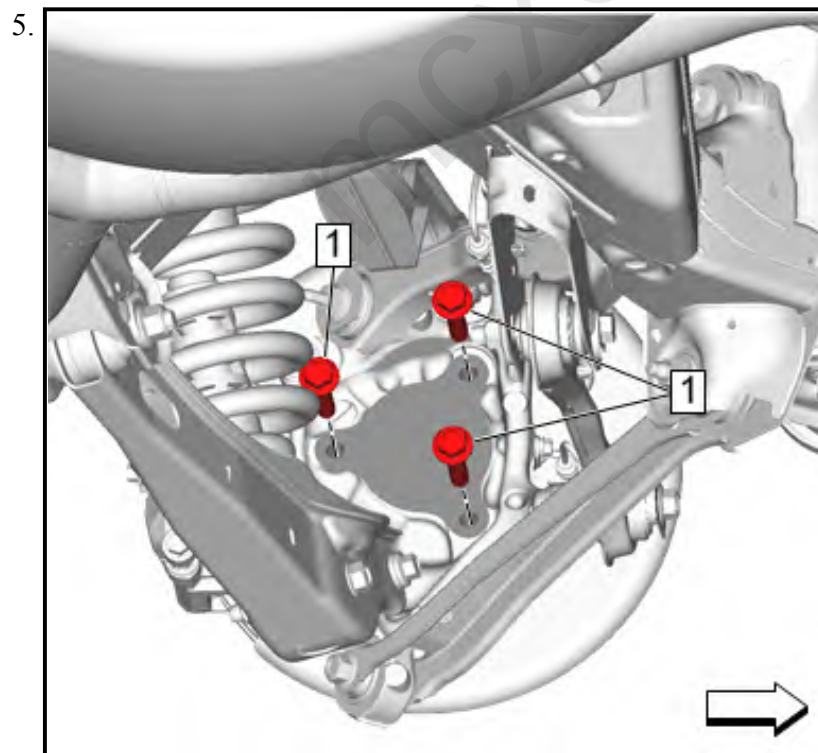
1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)

2. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)

3. Rear Wheel Speed Sensor @ Rear Suspension Knuckle - Remove - [Rear Wheel Speed Sensor Replacement](#)

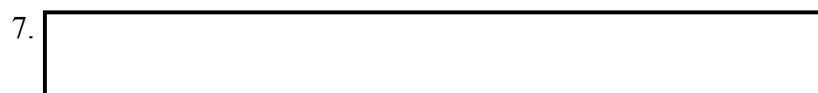


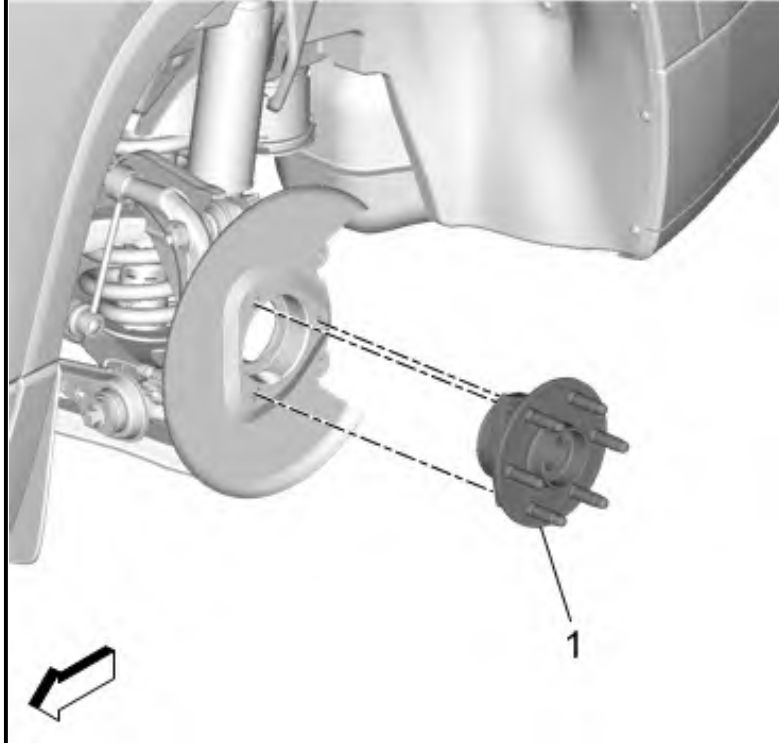
Rear Brake Rotor (1) - Remove - [Rear Brake Rotor Replacement](#)



Rear Wheel Hub Bolt (1) - Remove and DISCARD [3x]

6. Rear Wheel Bearing Dirt Deflector - Remove



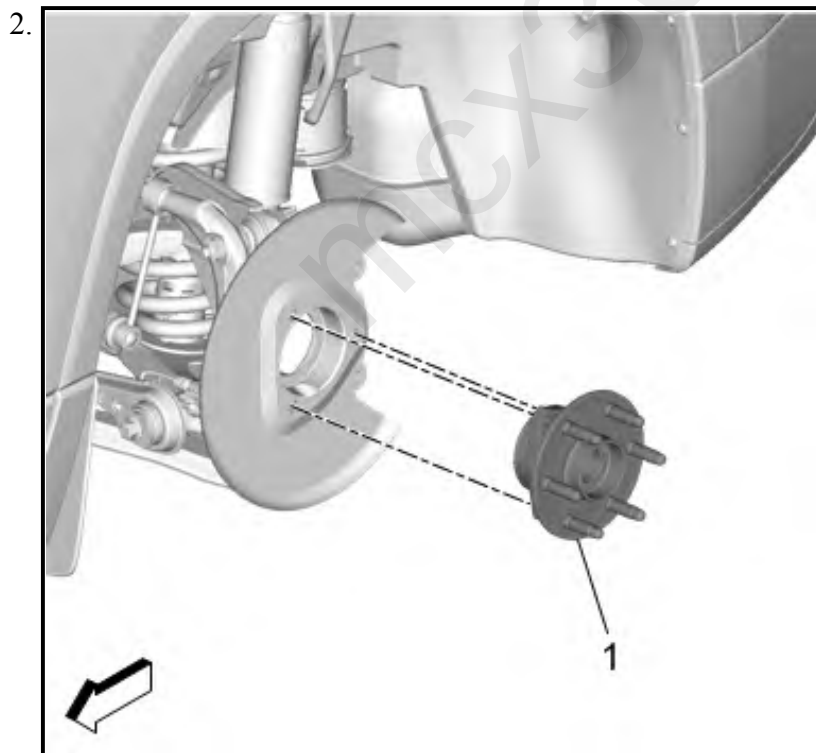


Rear Wheel Hub (1) - Remove

Installation Procedure

NOTE: Avoid applying grease to any other machined surface, holes, or threads. Ensure the drain channel at the bottom of the bore is not blocked with grease or debris.

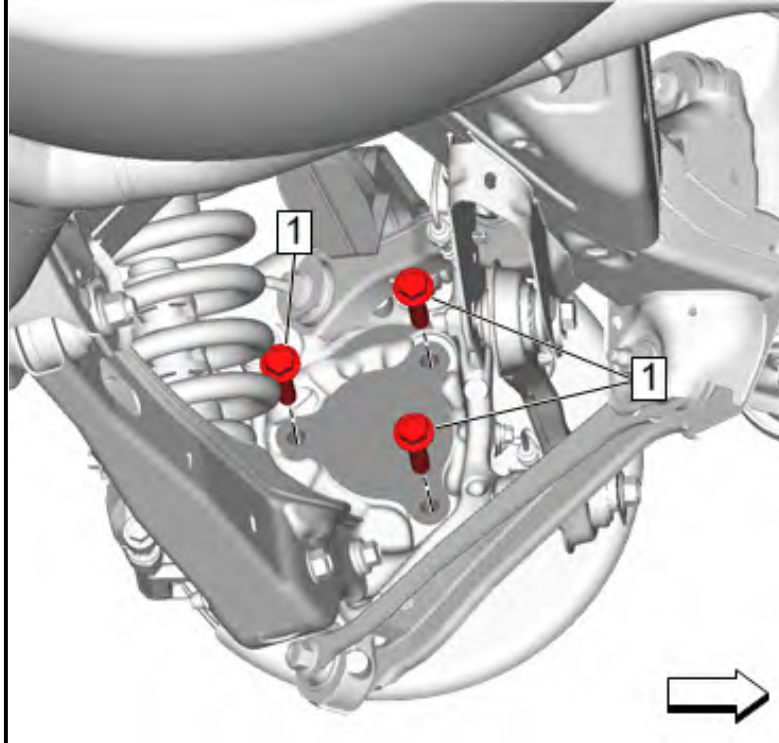
1. Apply grease evenly and ensure complete coverage to the knuckle bearing pilot bore only. [Adhesives, Fluids, Lubricants, and Sealers](#)



Rear Wheel Hub (1) - Install

3. Rear Wheel Bearing Dirt Deflector - Install



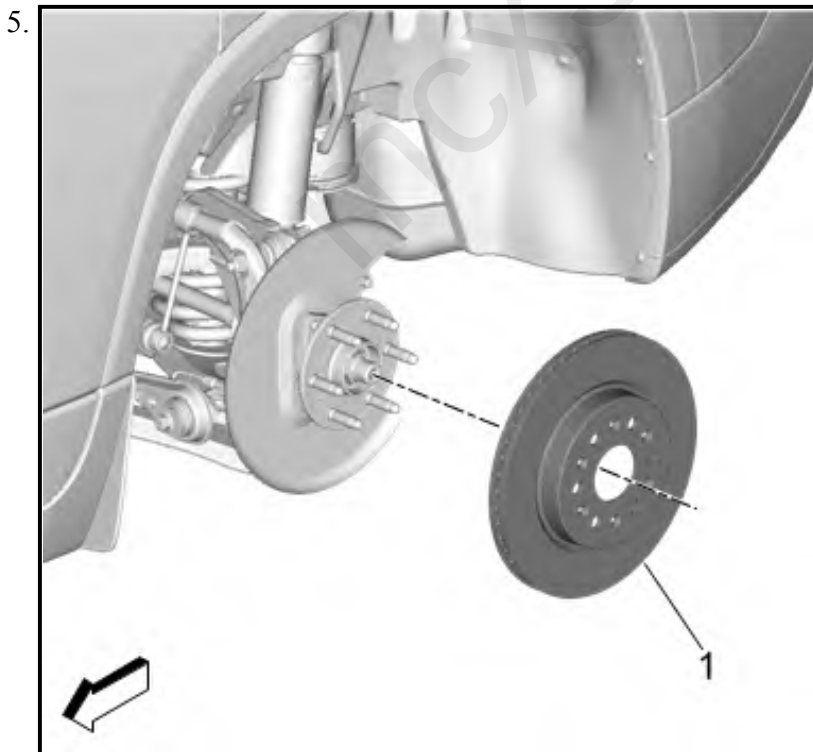


CAUTION: This vehicle is equipped with torque-to-yield or single use fasteners. Install a **NEW** torque-to-yield or single use fastener when installing this component. Failure to replace the torque-to-yield or single use fastener could cause damage to the vehicle or component.

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

Rear Wheel Hub Bolt (1) - Install NEW and tighten [3x]

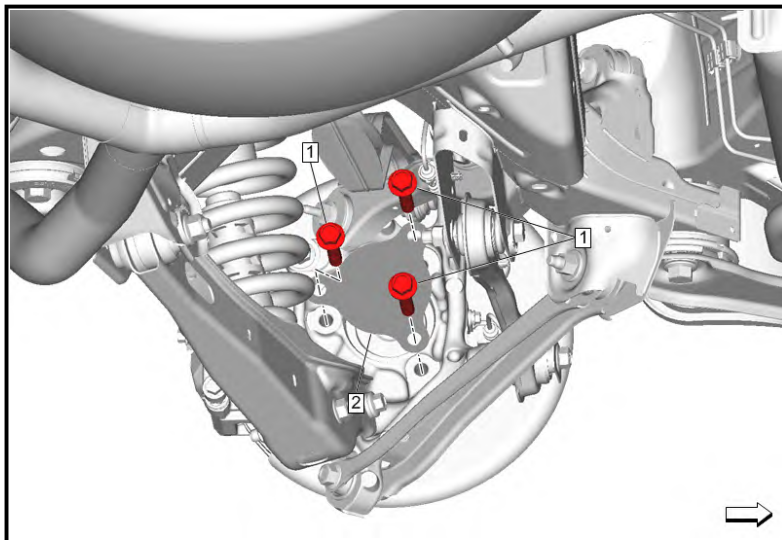
1. First Pass: 100 N.m (74 lb ft)
2. Final Pass: (15 - 30 degrees)



Rear Brake Rotor (1) - Install - [Rear Brake Rotor Replacement](#)

6. Rear Wheel Speed Sensor @ Rear Suspension Knuckle - Install - [Rear Wheel Speed Sensor Replacement](#)
7. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
8. Remove the support and lower the vehicle.

REAR WHEEL BEARING DIRT DEFLECTOR REPLACEMENT

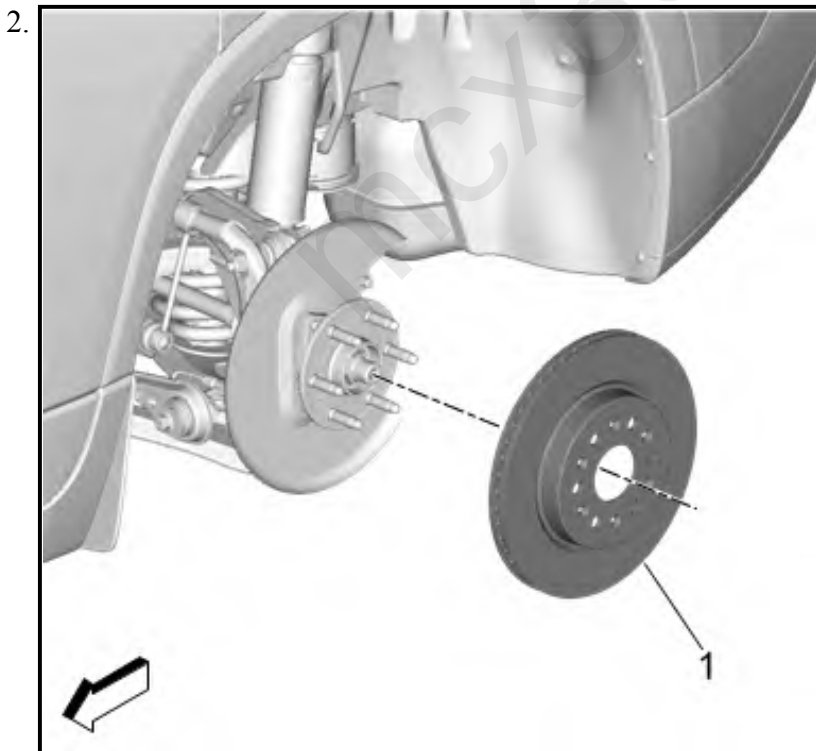


Callout	Component Name
Preliminary Procedure Remove the rear tire and wheel assembly. Tire and Wheel Removal and Installation	
1	Rear Wheel Hub Bolt [3x] Procedure Rear Wheel Bearing and Hub Replacement (AWD) Rear Wheel Bearing and Hub Replacement (FWD)
2	Rear Wheel Bearing Dirt Deflector

KNUCKLE REPLACEMENT

Removal Procedure

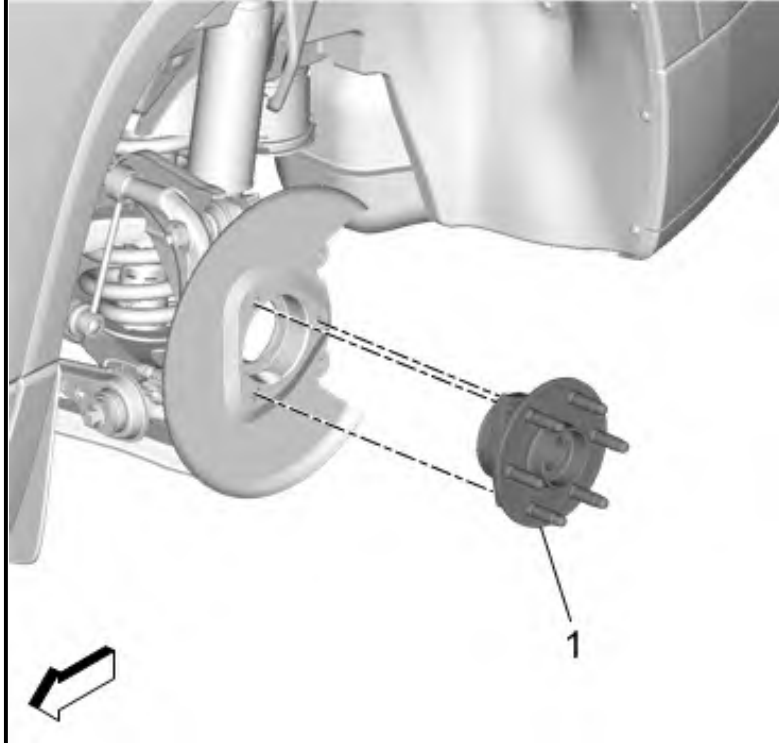
1. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)



Rear Brake Rotor (1) - Remove - [Rear Brake Rotor Replacement](#)

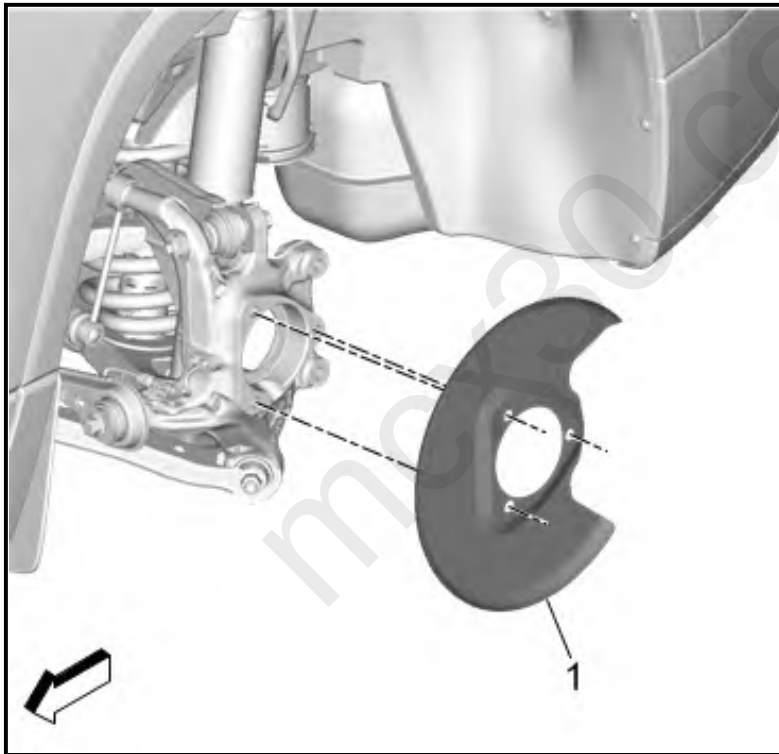
3. Rear Wheel Speed Sensor @ Knuckle - Remove - [Rear Wheel Speed Sensor Replacement](#)





Rear Wheel Bearing and Hub Assembly (1) - Remove - [Rear Wheel Bearing and Hub Replacement \(AWD\)](#)[Rear Wheel Bearing and Hub Replacement \(FWD\)](#)

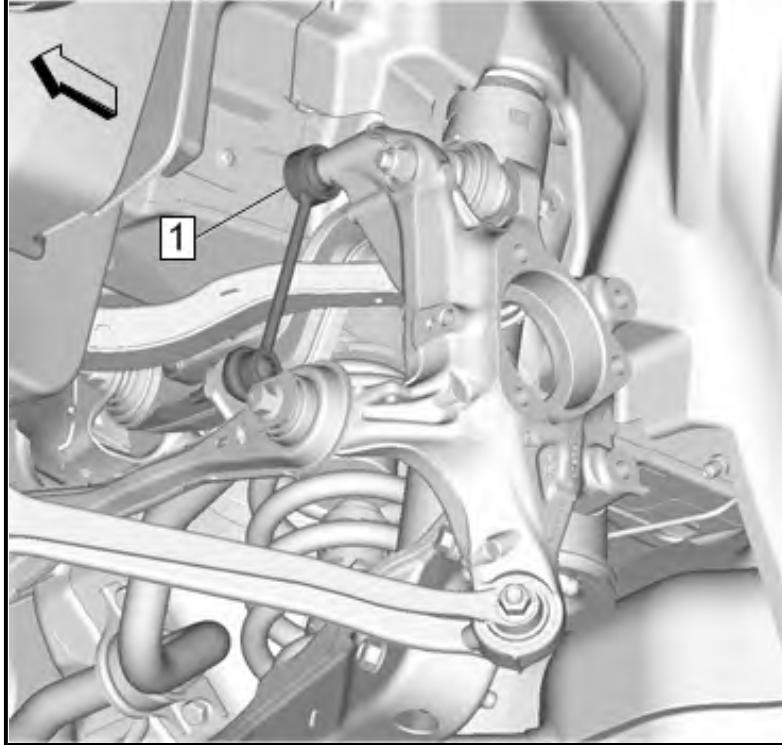
5.



Rear Brake Shield (1) - Remove - [Rear Brake Shield Replacement](#)

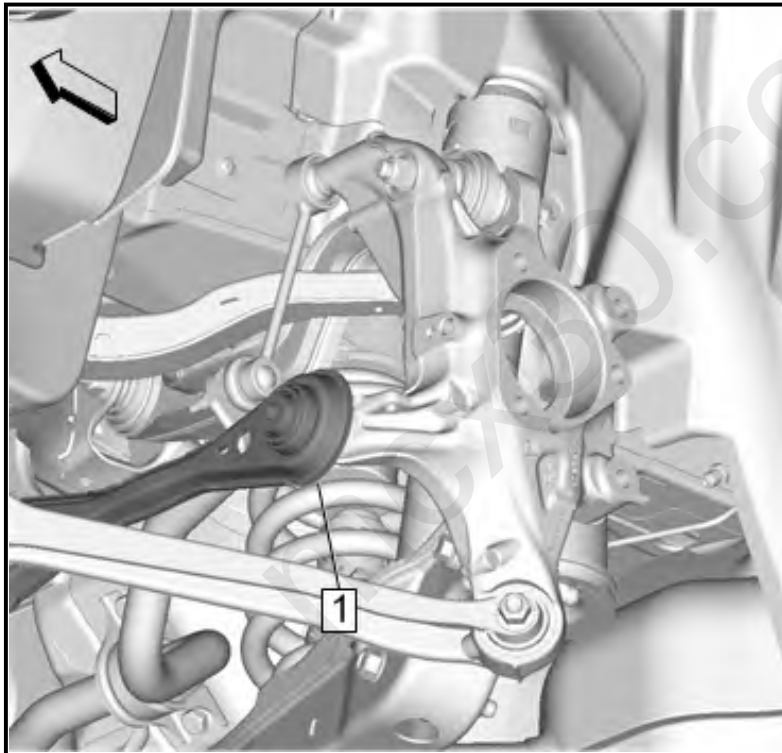
6.





Stabilizer Shaft Link (1) @ Knuckle - Separate - [Stabilizer Shaft Link Replacement](#)

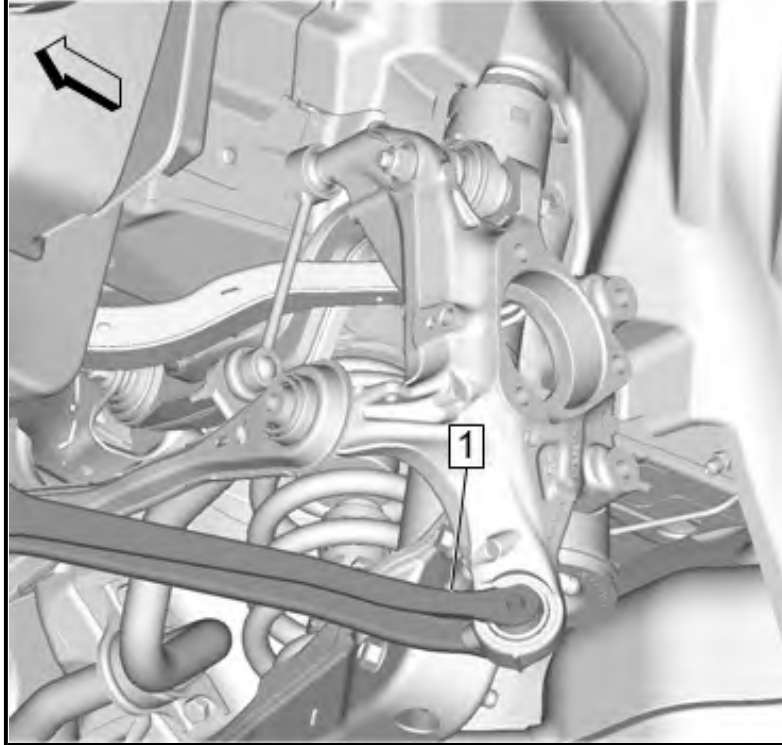
7.



Rear Suspension Adjust Link (1) @ Knuckle - Separate - [Adjust Link Replacement](#)

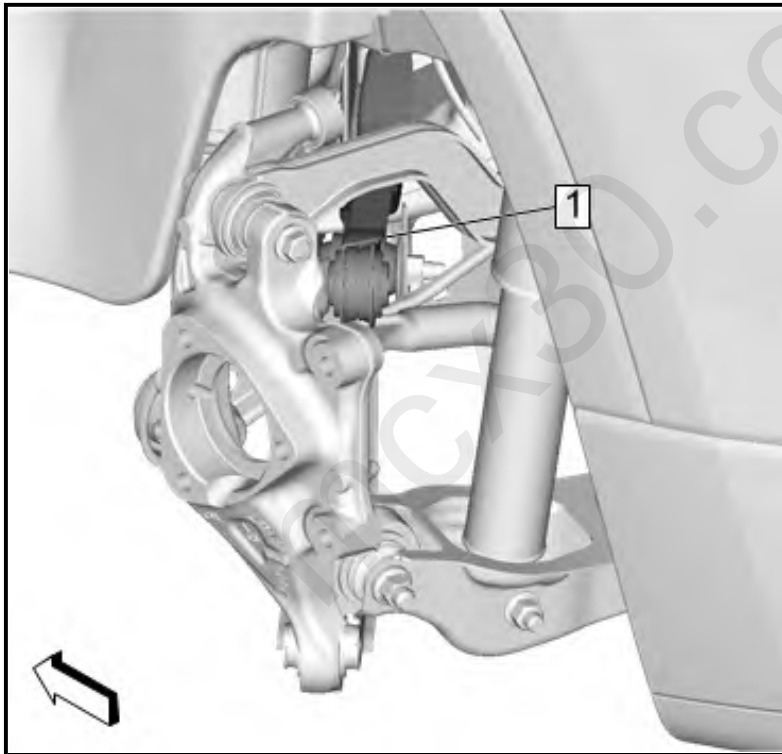
8.





Rear Suspension Lower Trailing Link (1) @ Knuckle - Separate - [Rear Suspension Lower Trailing Link Replacement](#)

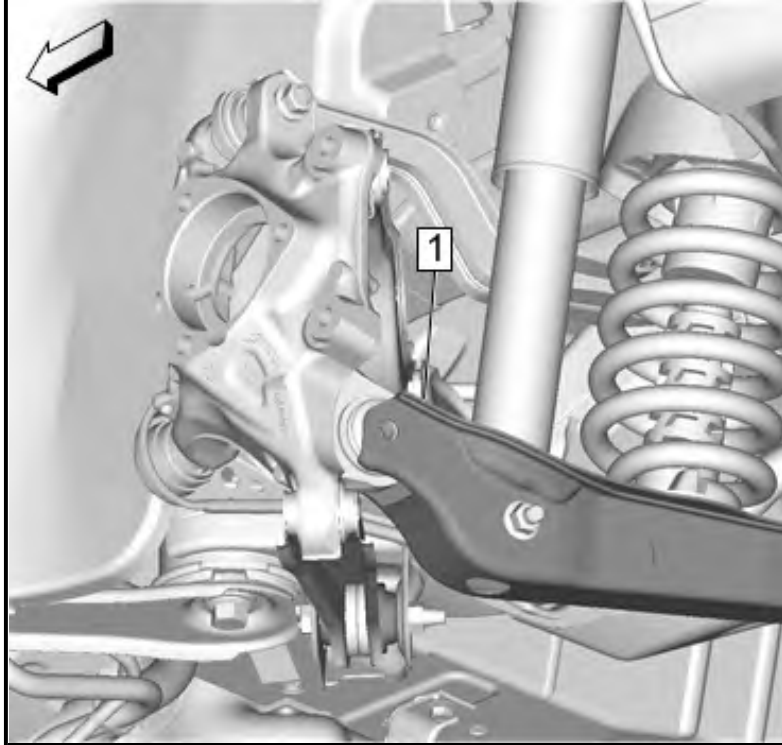
9.



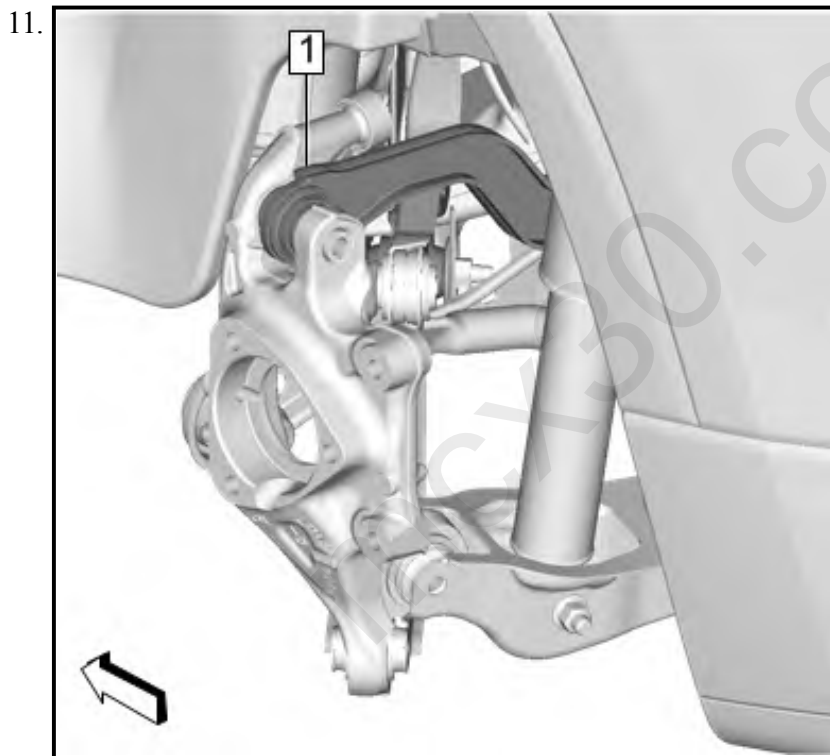
Rear Suspension Upper Trailing Link (1) @ Knuckle - Separate - [Rear Suspension Upper Trailing Link Replacement](#)

10.

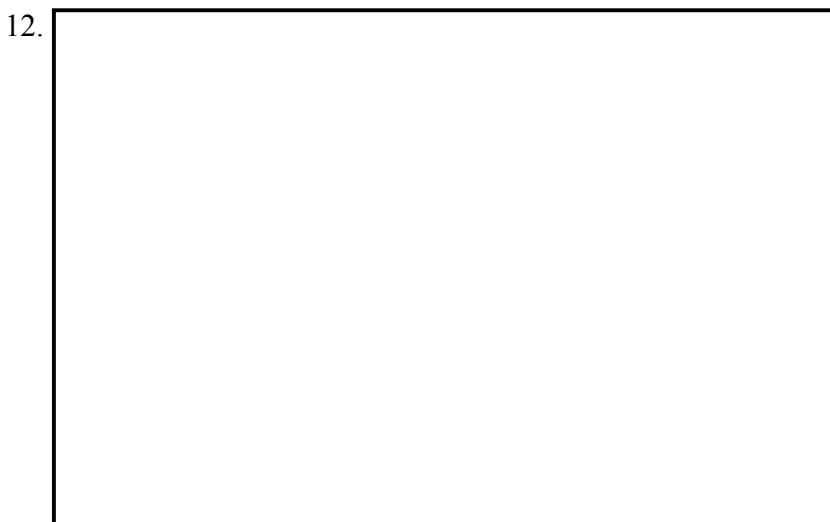


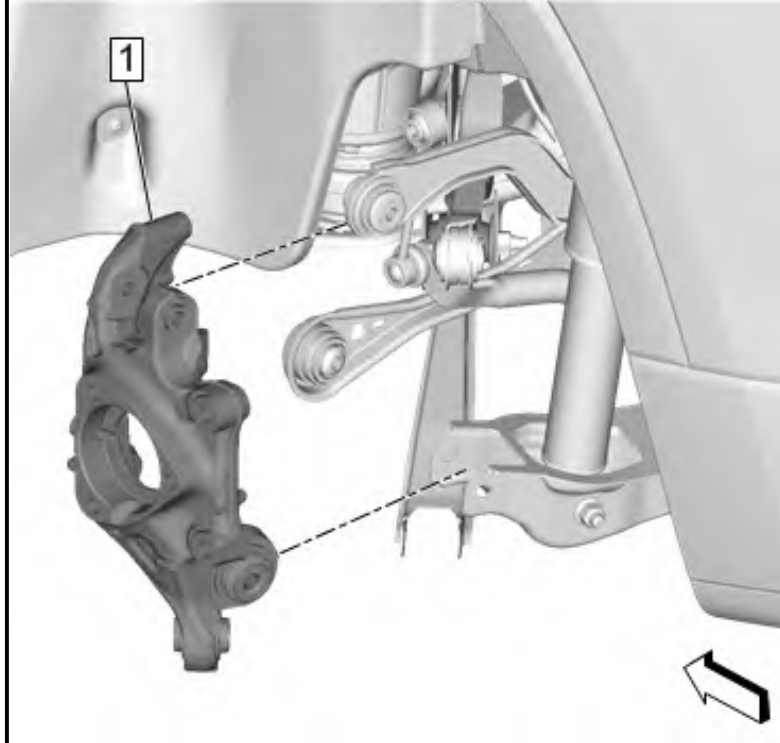


Rear Suspension Lower Control Arm (1) @ Knuckle - Separate - [Lower Control Arm Replacement](#)



Rear Suspension Upper Lateral Link (1) @ Knuckle - Separate - [Rear Suspension Upper Lateral Link Replacement](#)

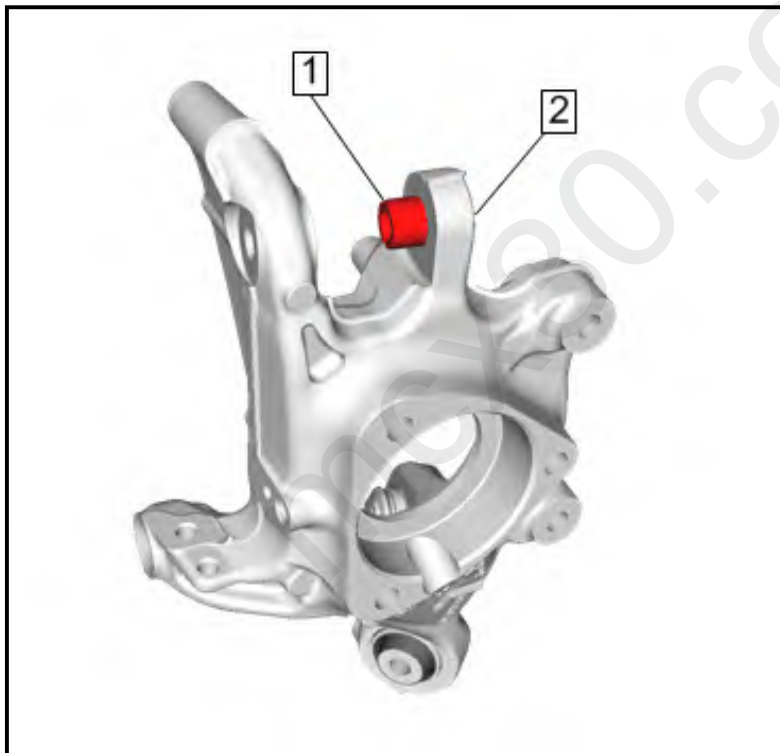




Knuckle (1) - Remove

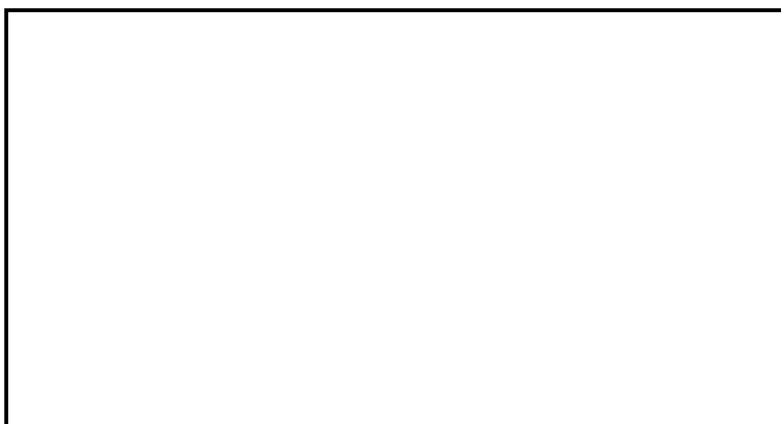
Installation Procedure

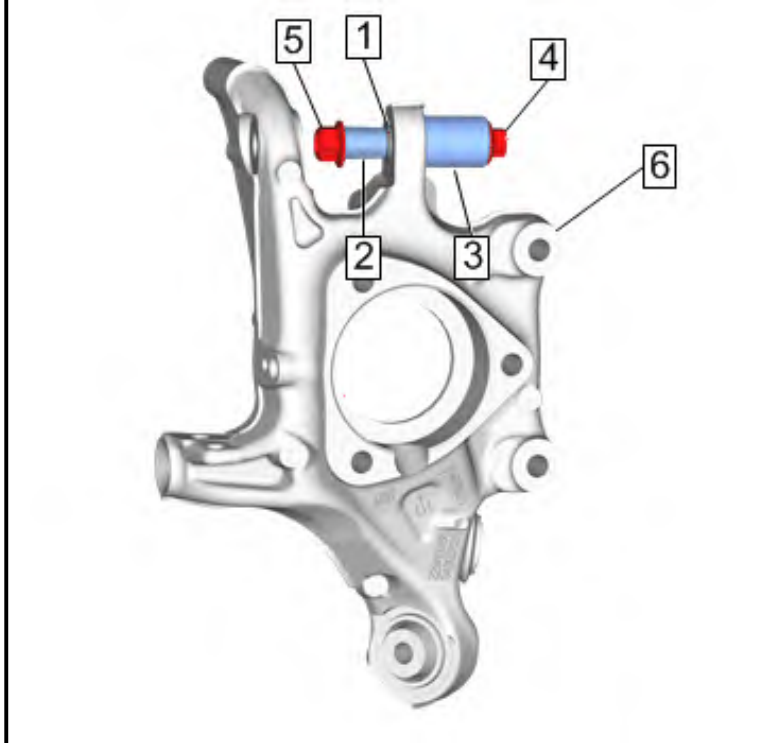
1.



Test fit the rear suspension upper lateral link to the knuckle (2) prior to installation. If the rear suspension upper lateral link does not easily fit, the split sleeve bushing (1) must be repositioned by performing the following steps:

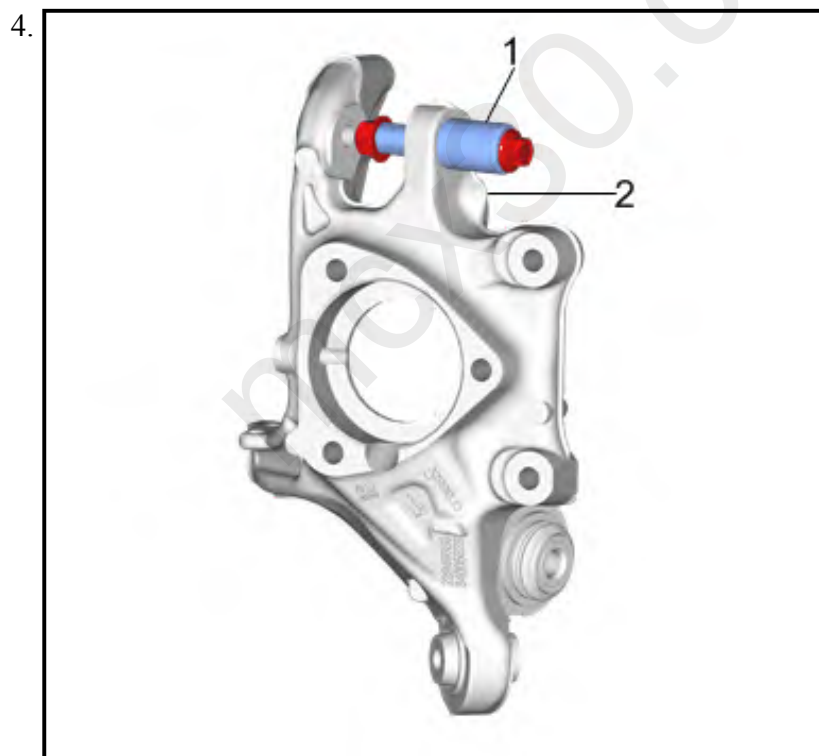
1.





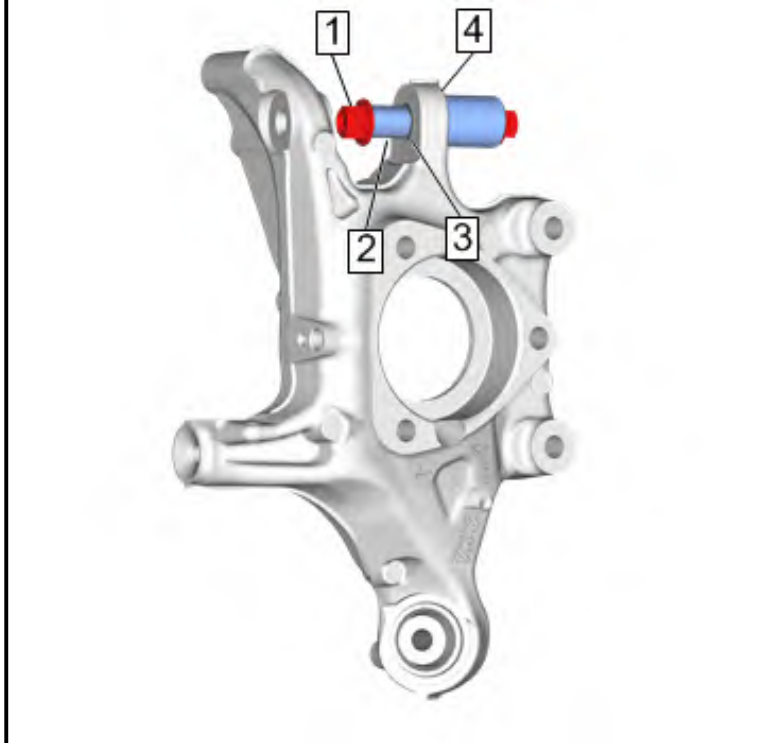
Install a suitable socket (2) that is slightly smaller than the outside diameter of the split sleeve bushing (1).

2. Install a suitable socket (3) that is larger than the outside diameter of the split sleeve bushing on the opposite side of the knuckle (6).
3. Install a suitable bolt (4) and nut (5).

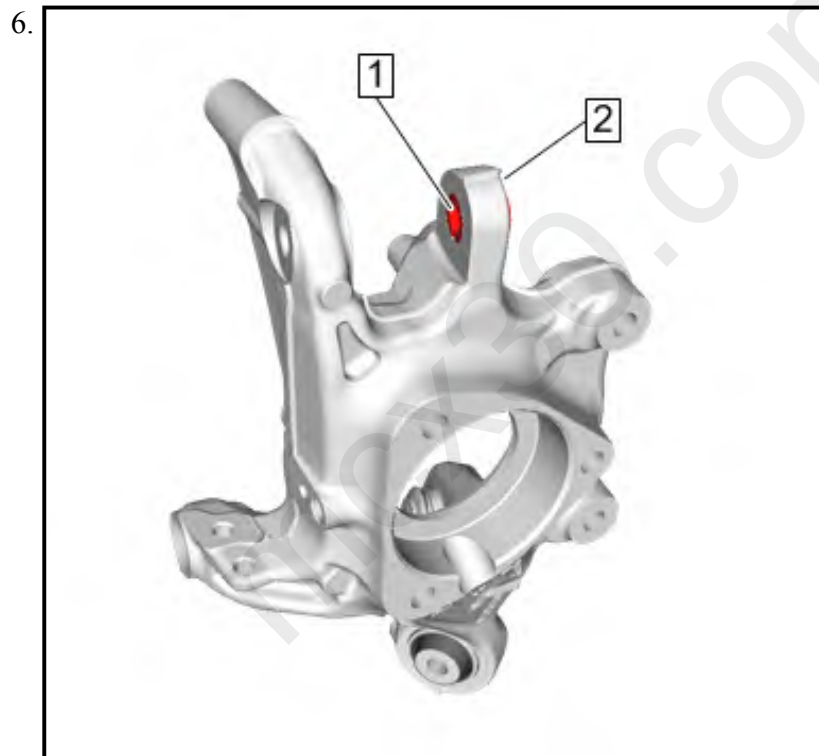


Ensure that the socket (1) is larger than the split sleeve bushing and sits flush against the knuckle (2).



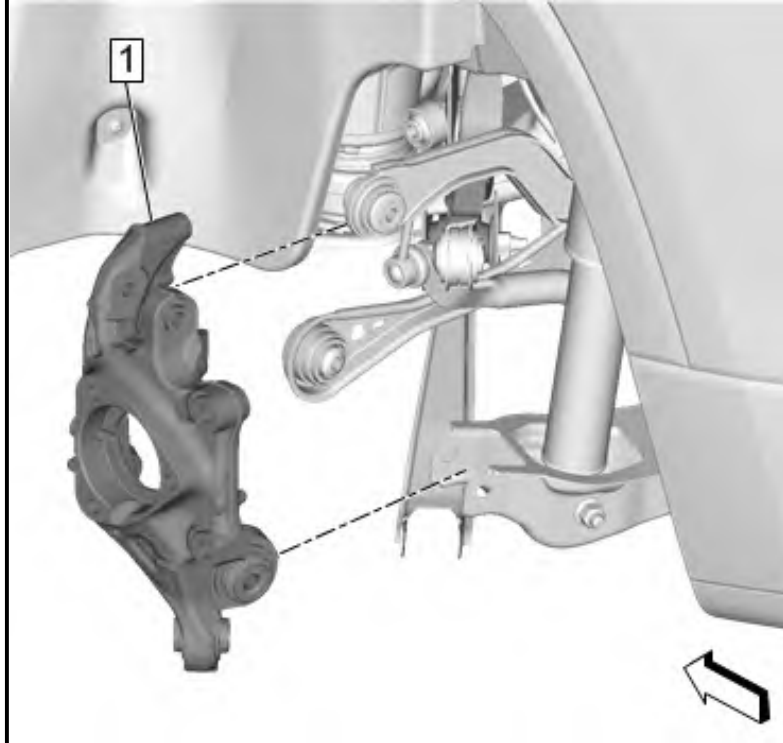


Rotate the nut (1) forcing the socket (2) and the split sleeve bushing (3) flush with the knuckle (4).

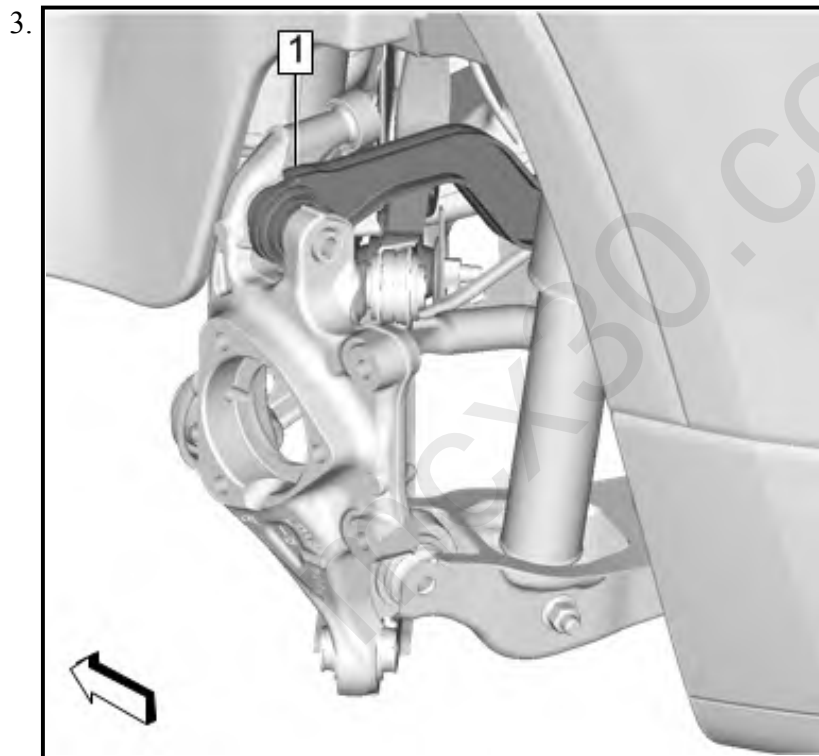


The split sleeve bushing (1) should now be flush with the knuckle (2) as shown.



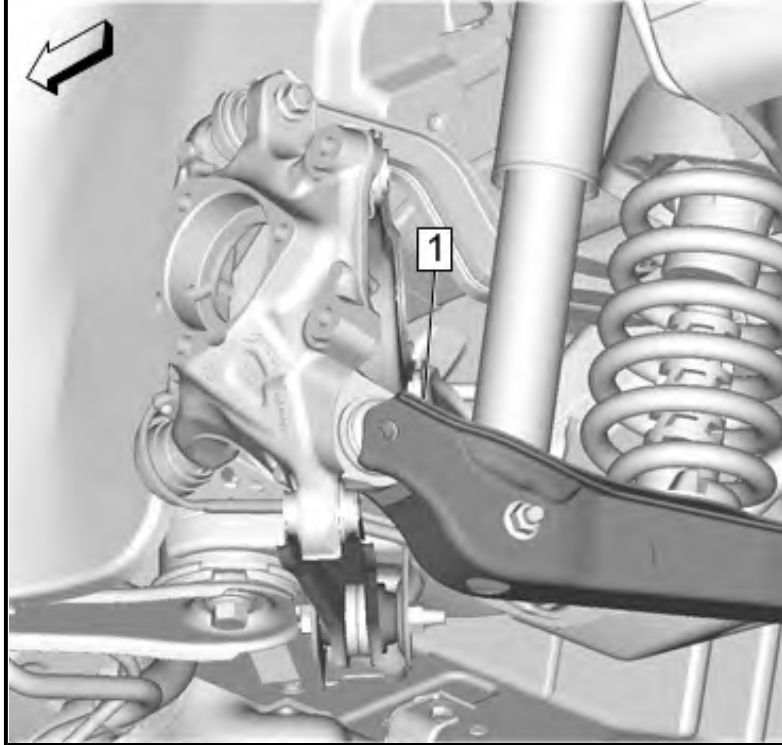


Knuckle (1) - Install



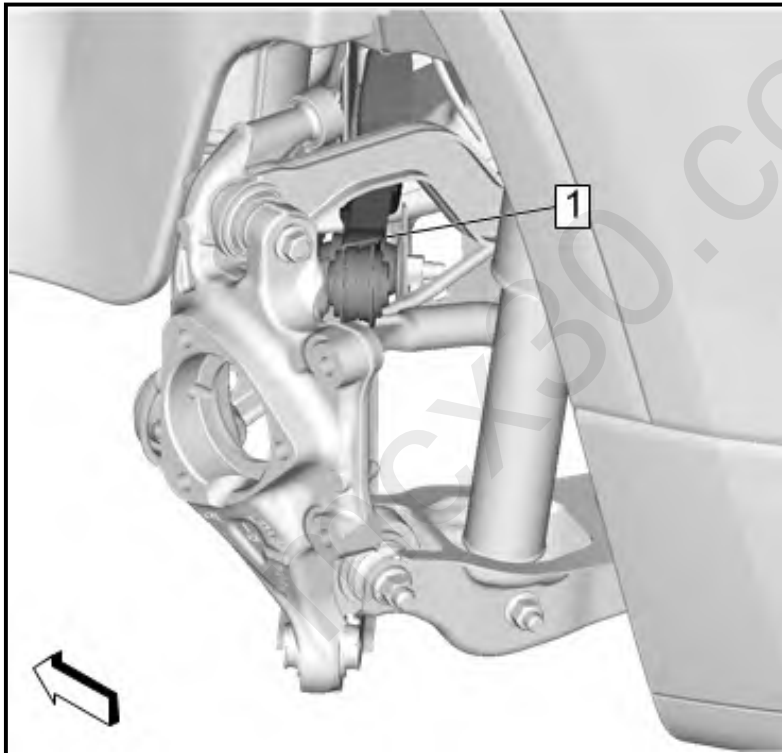
Rear Suspension Upper Lateral Link (1) @ Knuckle - Install - [Rear Suspension Upper Lateral Link Replacement](#)





Rear Suspension Lower Control Arm (1) @ Knuckle - Install - [Lower Control Arm Replacement](#)

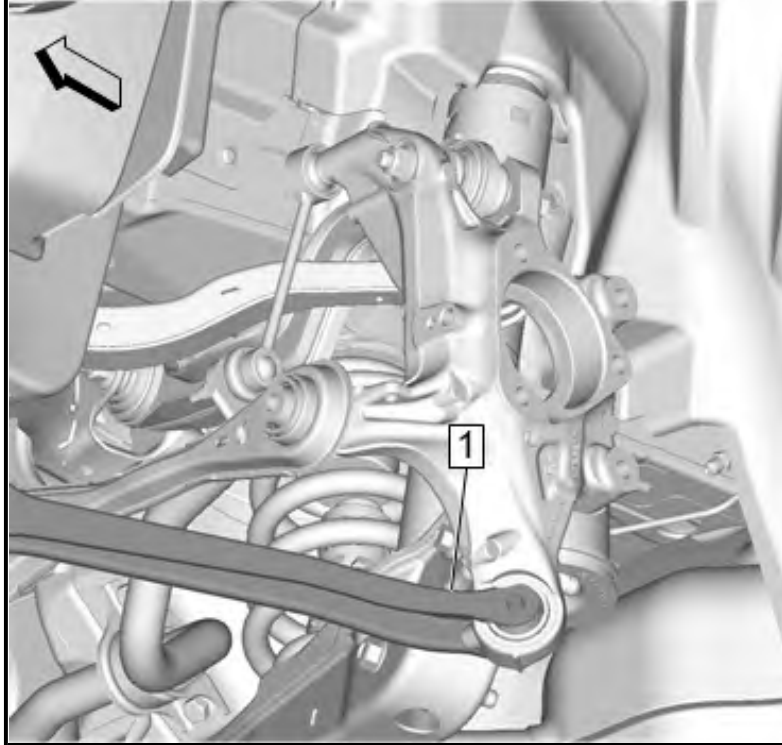
5.



Rear Suspension Upper Trailing Link (1) @ Knuckle - Install - [Rear Suspension Upper Trailing Link Replacement](#)

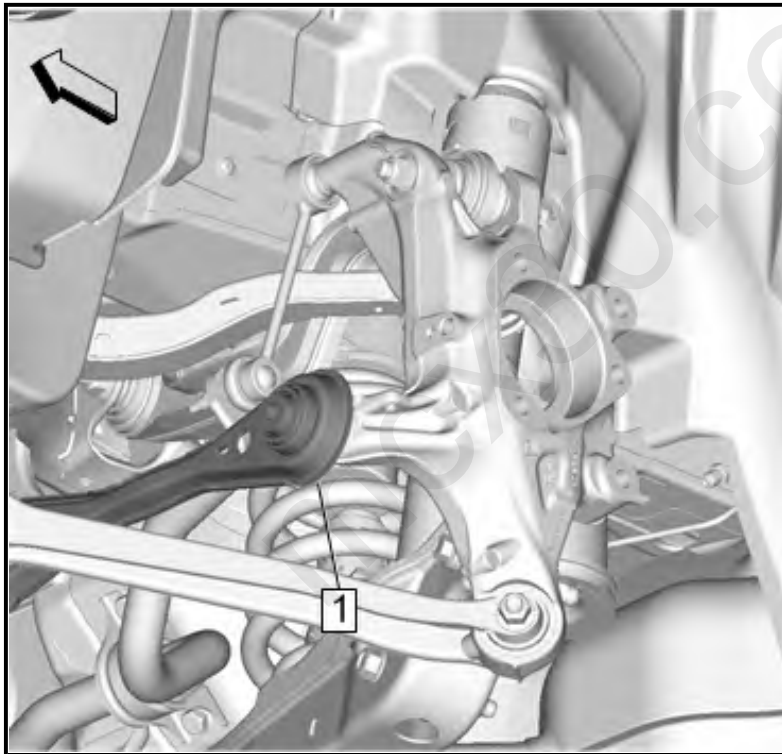
6.





Rear Suspension Lower Trailing Link (1) @ Knuckle - Install - [Rear Suspension Lower Trailing Link Replacement](#)

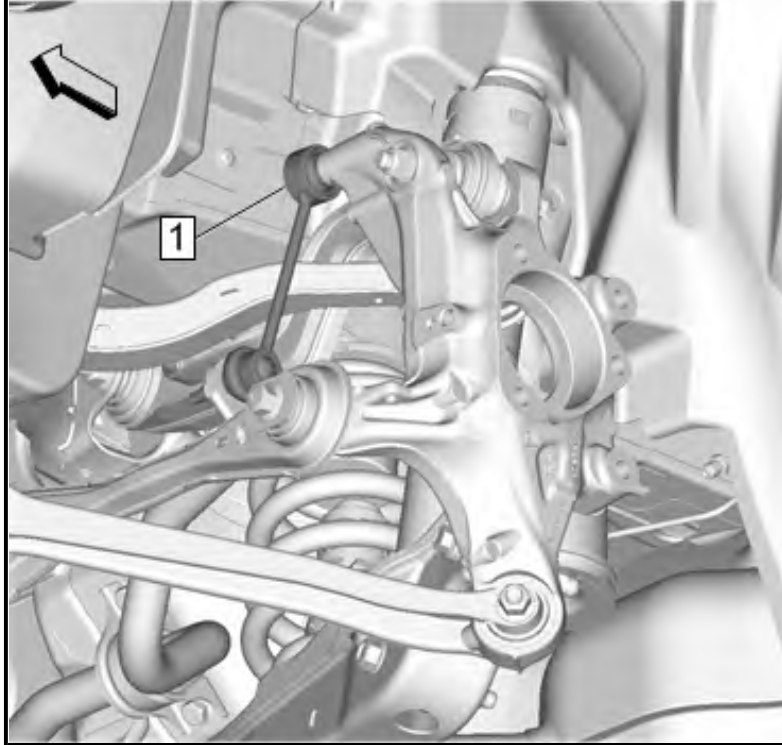
7.



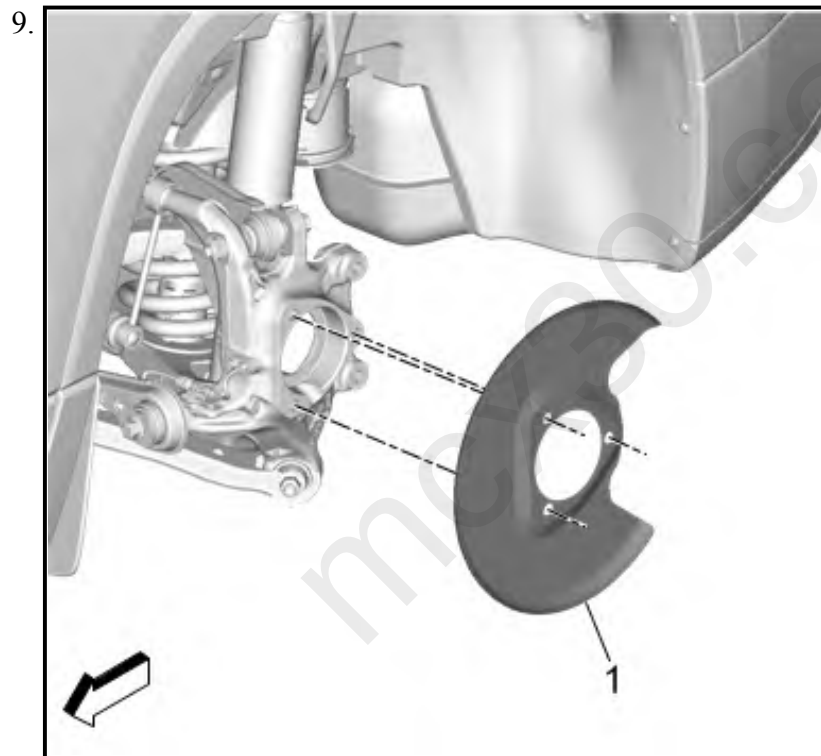
Rear Suspension Adjust Link (1) @ Knuckle - Install - [Adjust Link Replacement](#)

8.

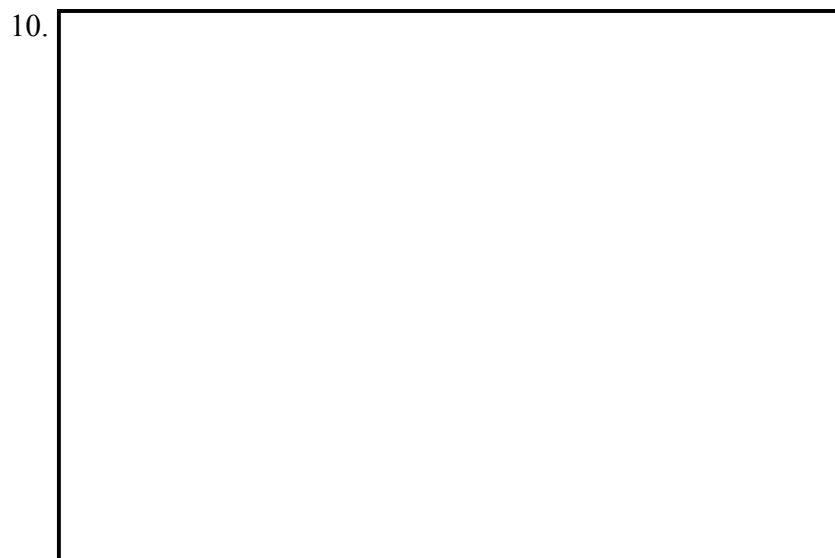


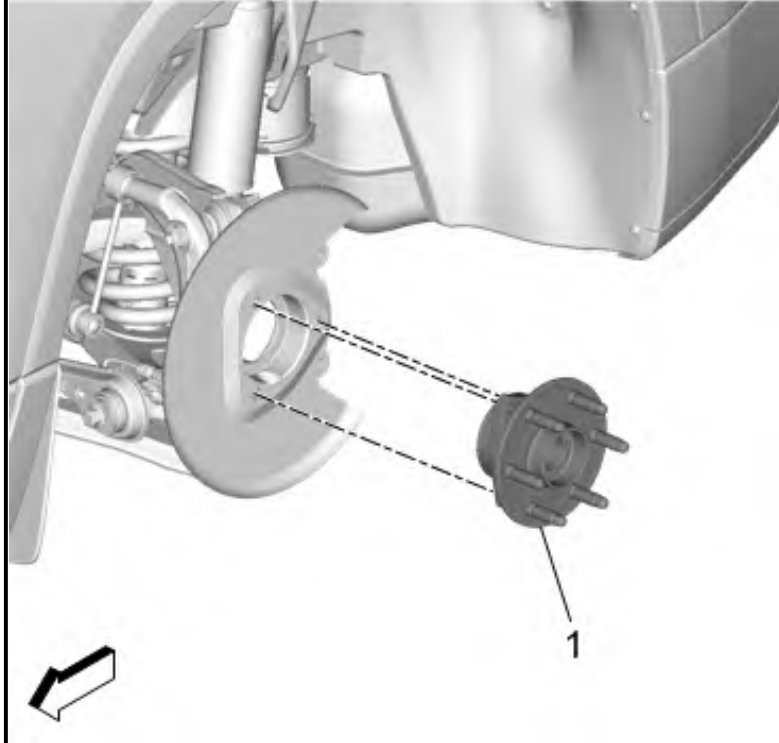


Stabilizer Shaft Link (1) @ Knuckle - Install - [Stabilizer Shaft Link Replacement](#)



Rear Brake Shield (1) - Install - [Rear Brake Shield Replacement](#)

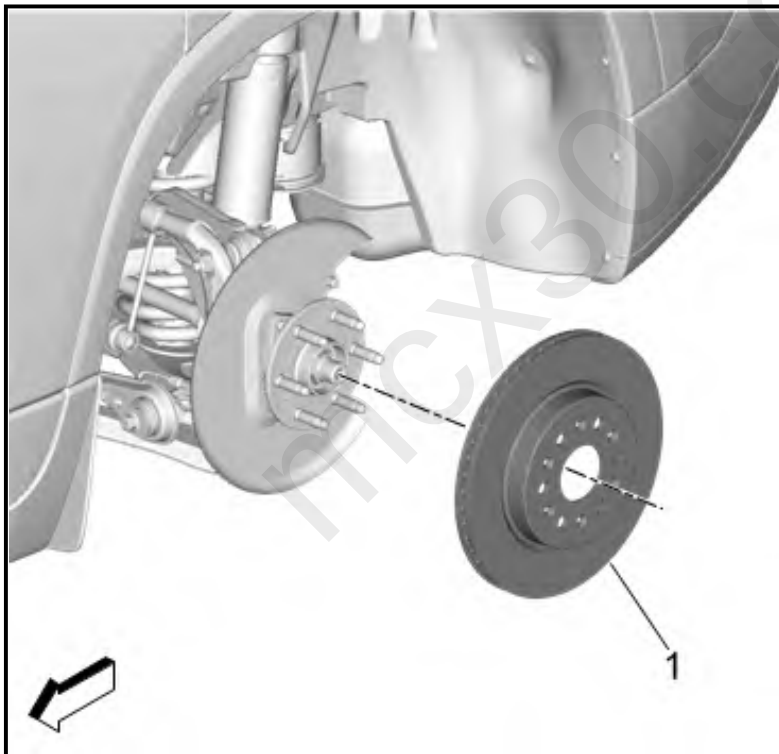




Rear Wheel Bearing and Hub Assembly (1) - Install - [Rear Wheel Bearing and Hub Replacement \(AWD\)](#) [Rear Wheel Bearing and Hub Replacement \(FWD\)](#)

11. Rear Wheel Speed Sensor @ Knuckle - Install - [Rear Wheel Speed Sensor Replacement](#)

12.



Rear Brake Rotor (1) - Install - [Rear Brake Rotor Replacement](#)

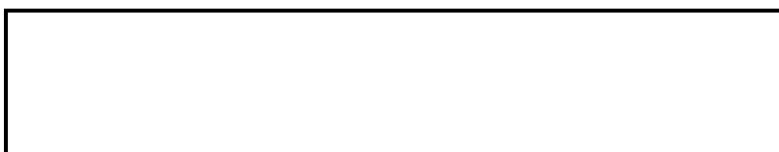
13. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)

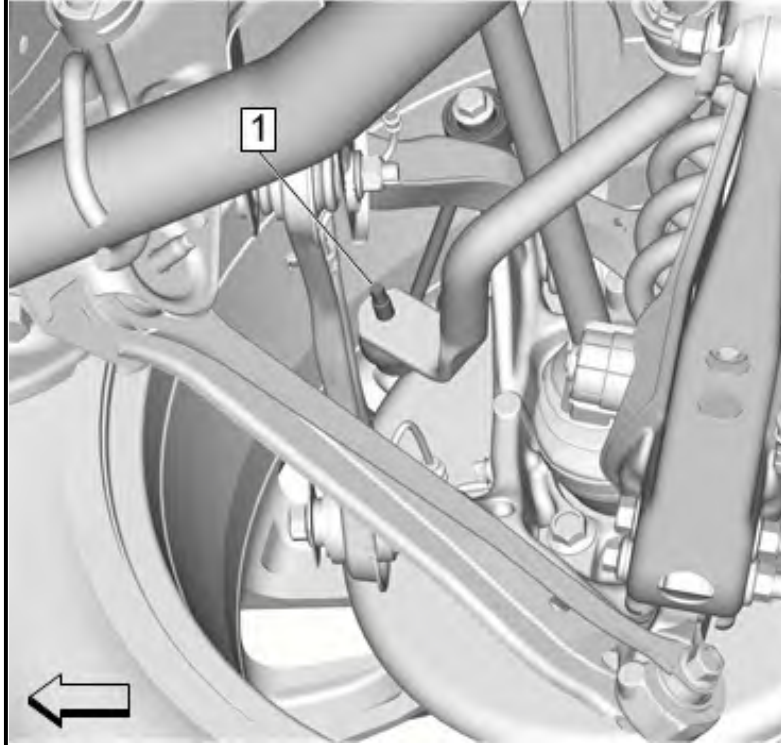
STABILIZER SHAFT REPLACEMENT

Removal Procedure

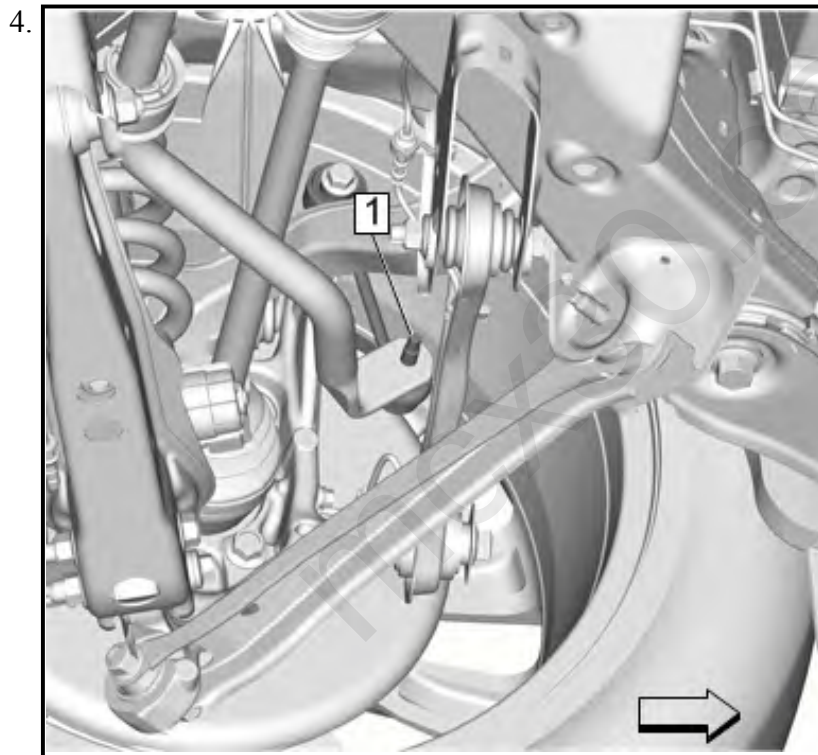
1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)
2. Exhaust Muffler - Remove - [Exhaust Muffler Replacement \(LTG\)](#) [Exhaust Muffler Replacement \(LFY\)](#)

3.

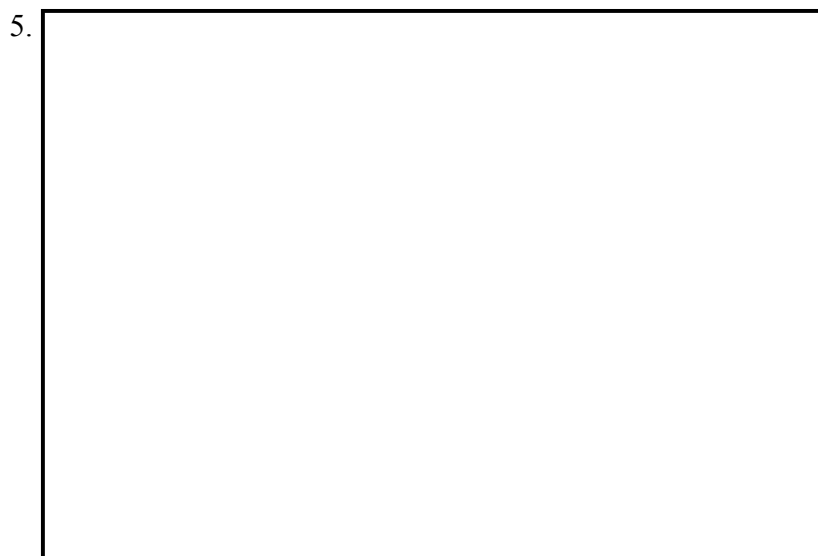


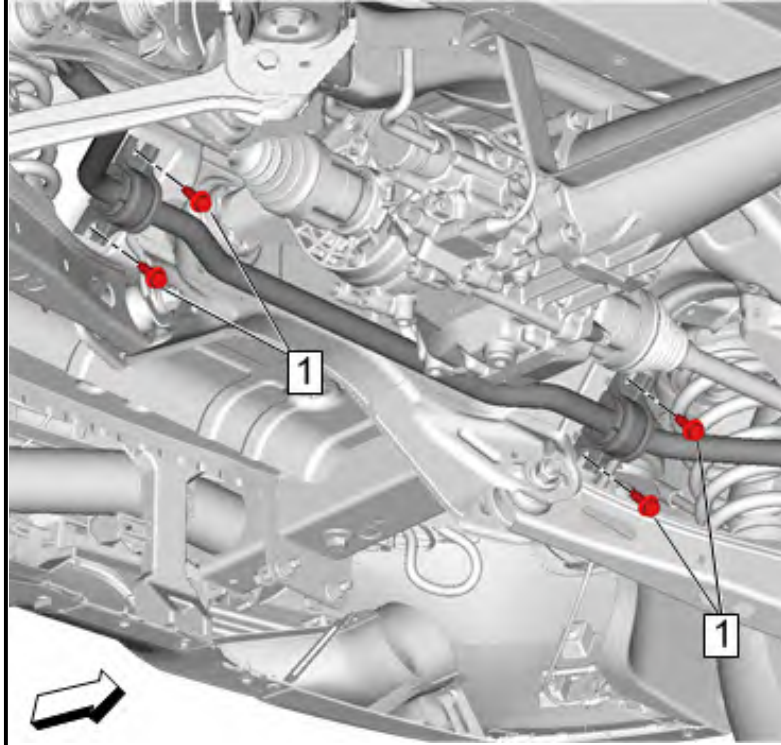


Rear Stabilizer Shaft Link (1) @ Right Side - Separate - [Stabilizer Shaft Link Replacement](#)

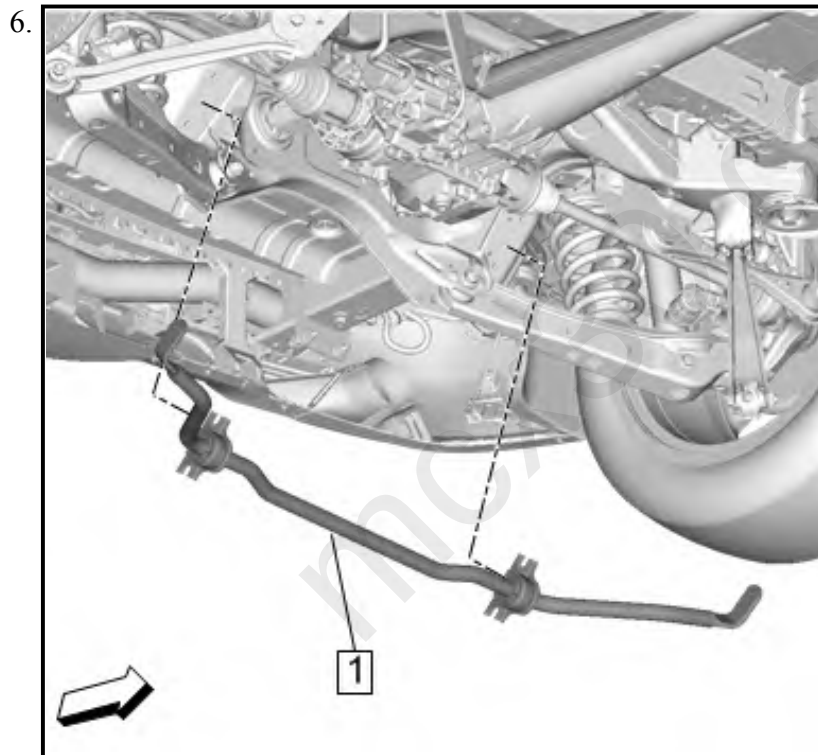


Rear Stabilizer Shaft Link (1) @ Left Side - Separate - [Stabilizer Shaft Link Replacement](#)





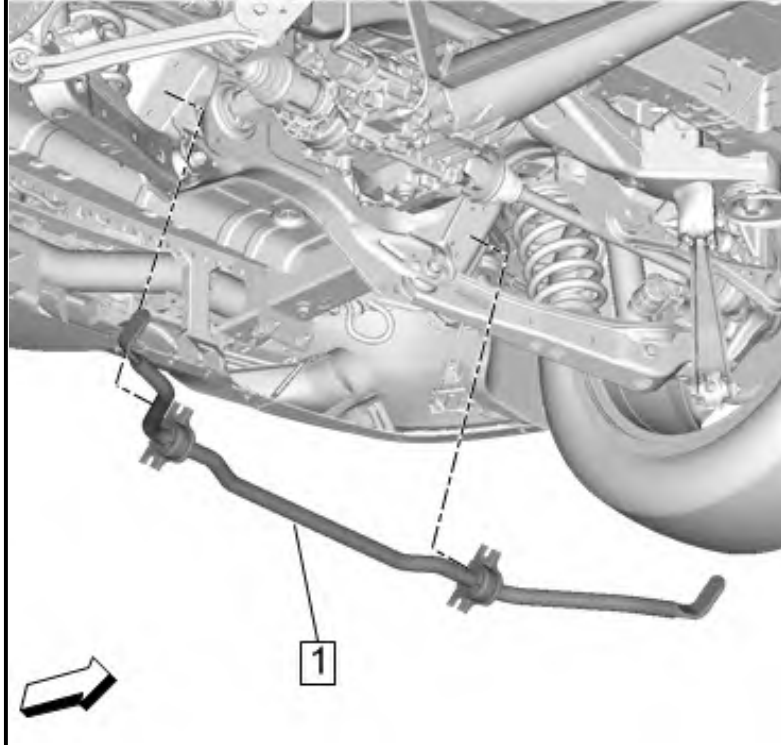
Rear Stabilizer Shaft Clamp Bolt (1) - Remove [4x]



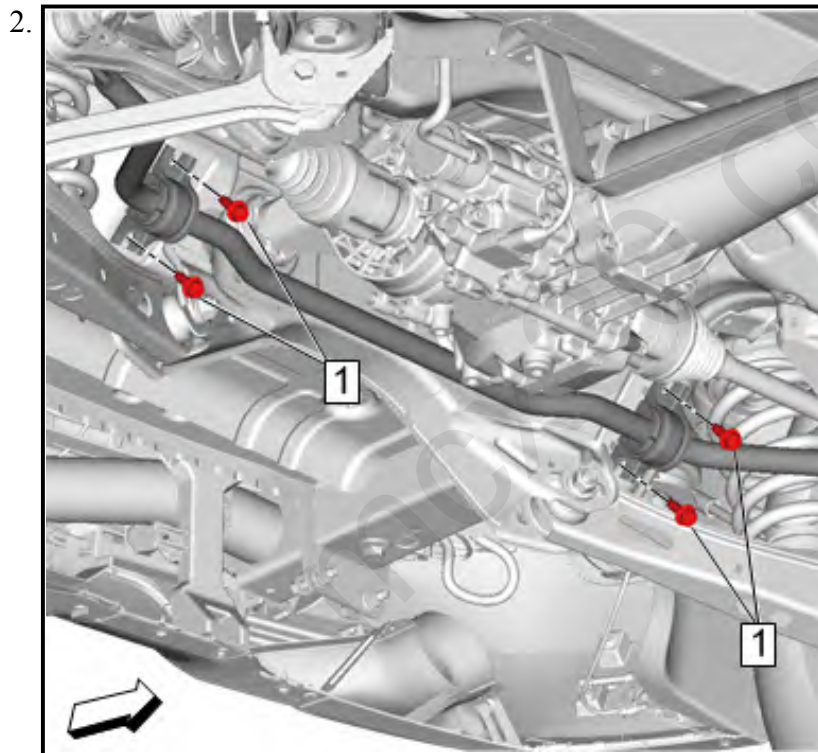
Rear Stabilizer Shaft (1) - Remove

Installation Procedure





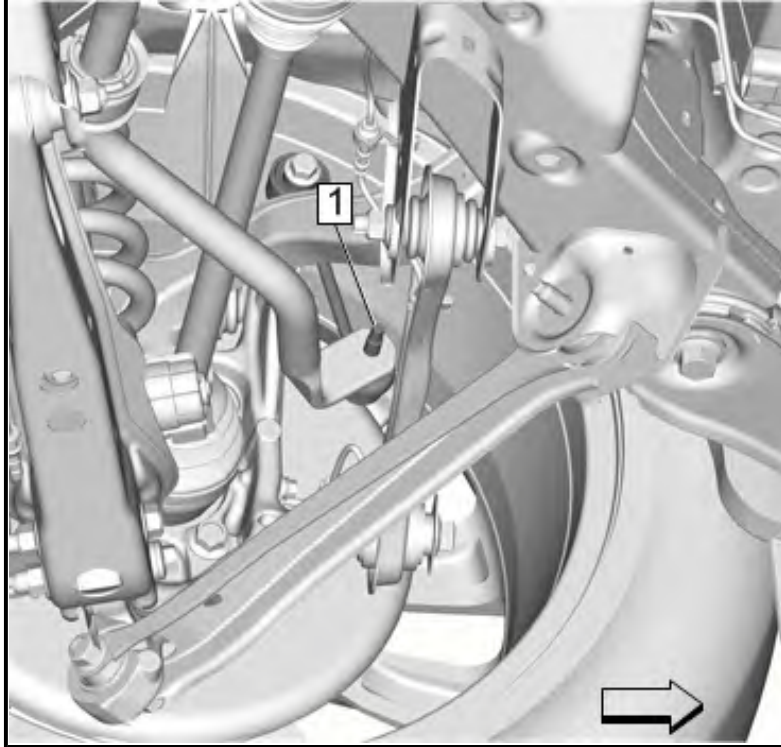
Rear Stabilizer Shaft (1) - Install



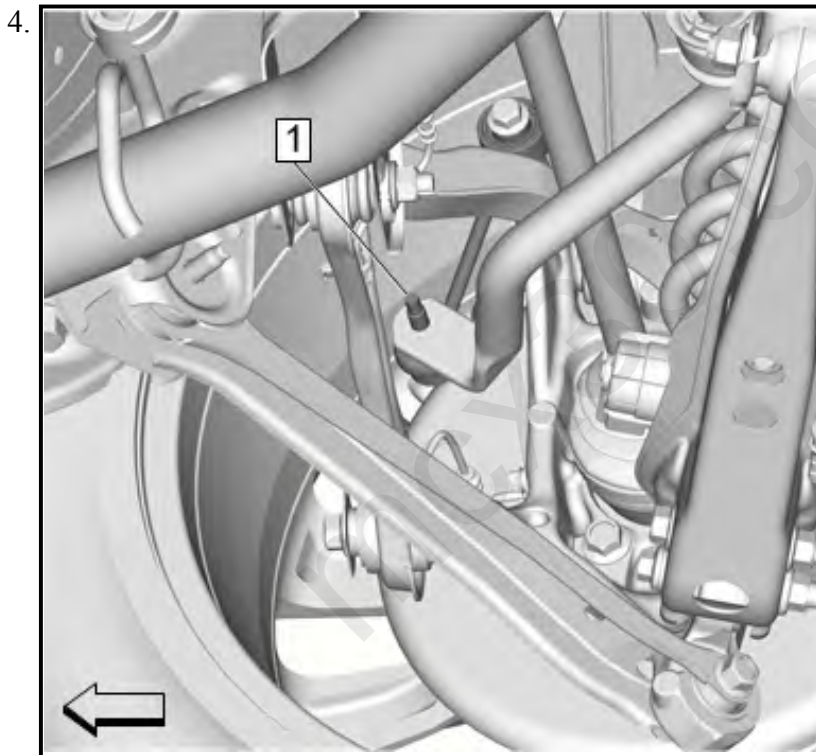
CAUTION: Refer to [Fastener Caution](#) .

Rear Stabilizer Shaft Clamp Bolt (1) - Install and tighten [4x] 58 N.m (43 lb ft)





Rear Stabilizer Shaft Link (1) @ Left Side - Install - [Stabilizer Shaft Link Replacement](#)



Rear Stabilizer Shaft Link (1) @ Right Side - Install - [Stabilizer Shaft Link Replacement](#)

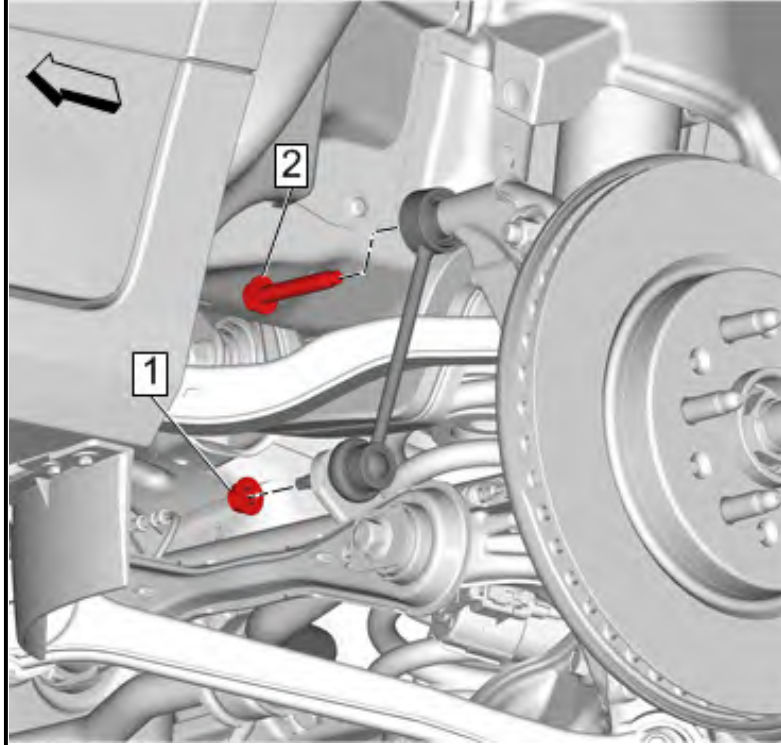
5. Exhaust Muffler - Install - [Exhaust Muffler Replacement \(LTG\)](#) [Exhaust Muffler Replacement \(LFY\)](#)
6. Remove the support and lower the vehicle.

STABILIZER SHAFT LINK REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)

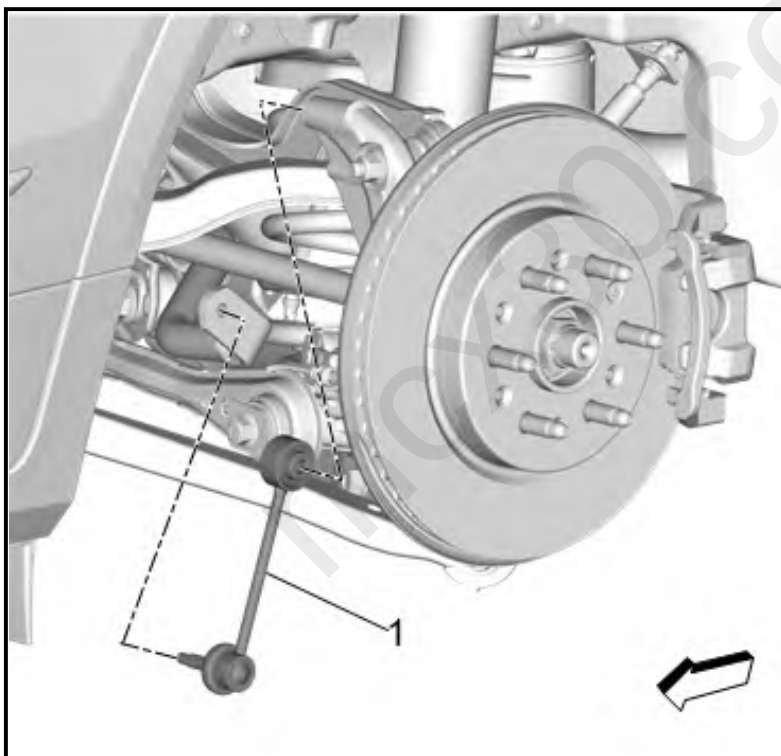




Rear Stabilizer Shaft Link Nut (1) - Remove

3. Rear Stabilizer Shaft Link Bolt (2) - Remove

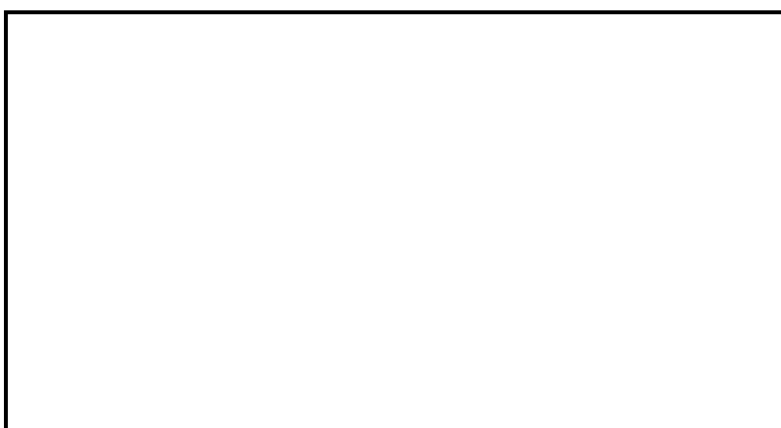
4.

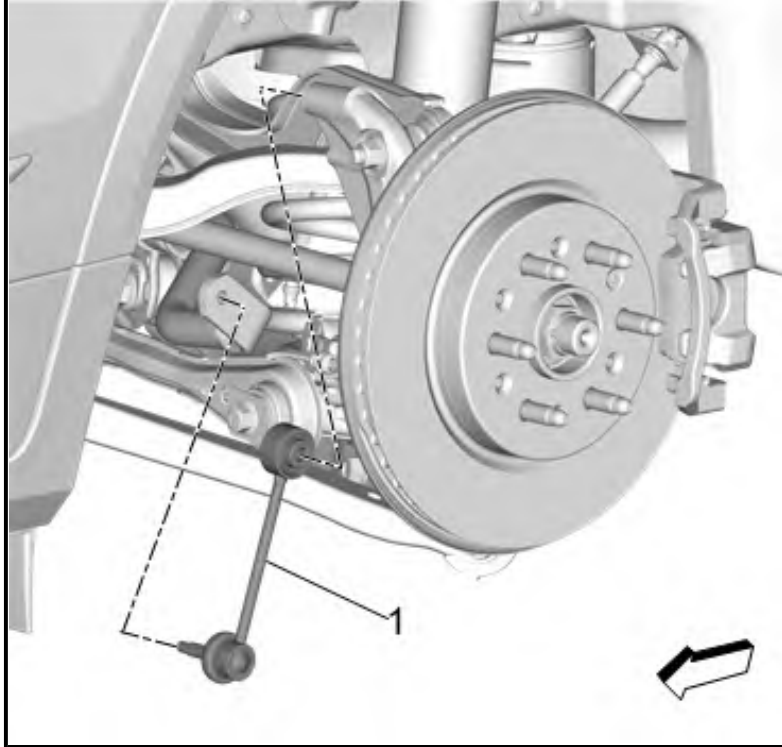


Rear Stabilizer Shaft Link (1) - Remove

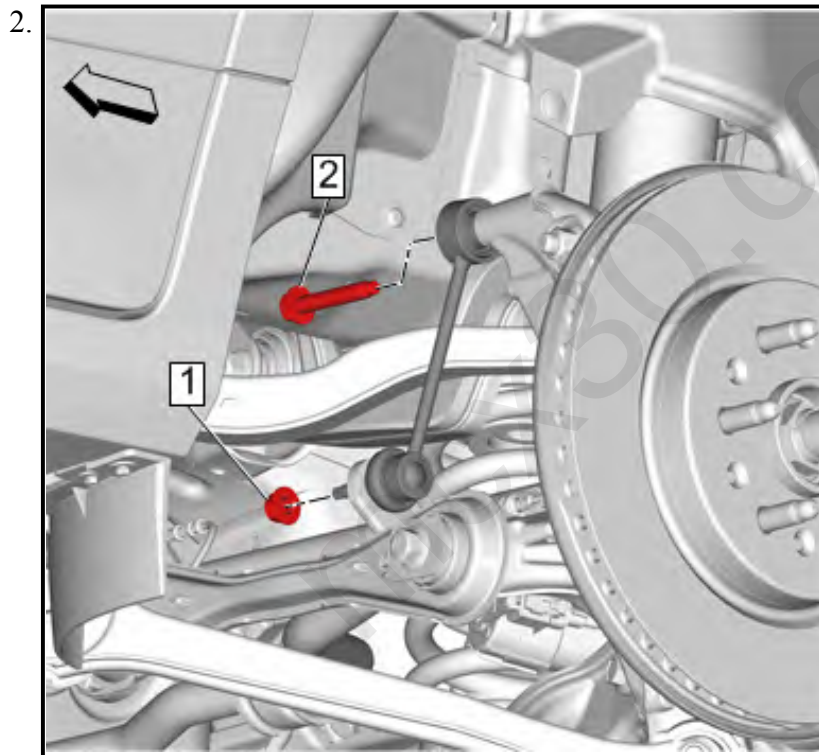
Installation Procedure

1.





Rear Stabilizer Shaft Link (1) - Install



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

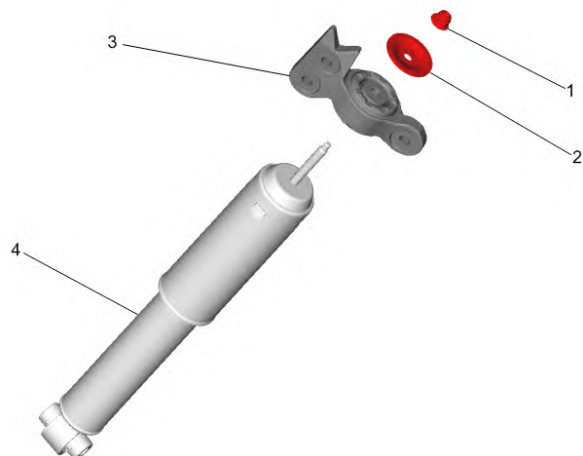
Rear Stabilizer Shaft Link Bolt (2) - Install and tighten 58 N.m (43 lb ft)

3. Rear Stabilizer Shaft Link Nut (1) - Install and tighten 64.5 N.m (48 lb ft)

4. Lower the vehicle.

REAR SHOCK ABSORBER MOUNT REPLACEMENT





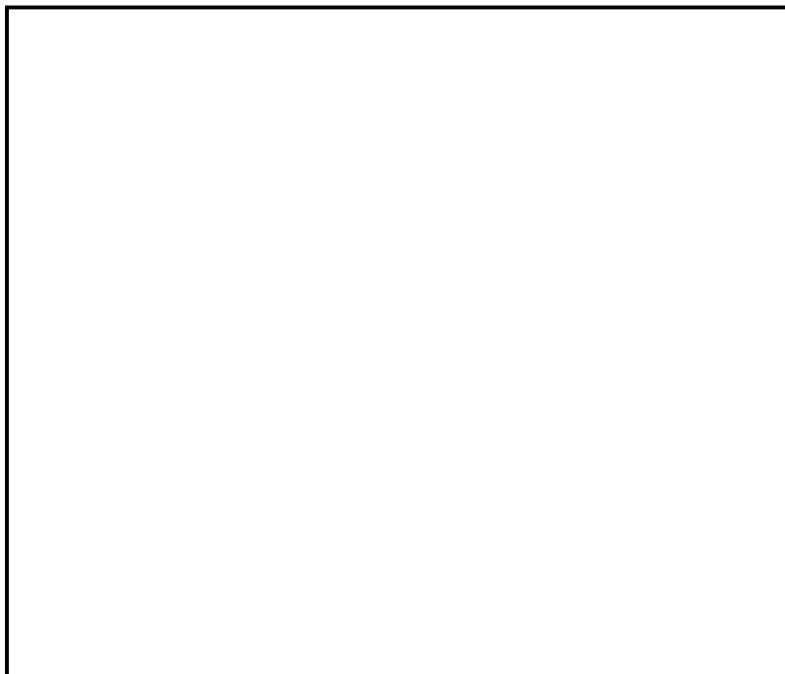
Callout	Component Name
Preliminary Procedures 1. Remove the rear tire and wheel assembly. Tire and Wheel Removal and Installation 2. Shock Absorber Replacement	
1	Rear Shock Absorber Shock Rod Mount Nut CAUTION: Refer to Fastener Caution . Tighten 25 N.m (18 lb ft)
2	Rear Suspension Mount Upper Cup
3	Rear Shock Absorber Mount
4	Rear Shock Absorber

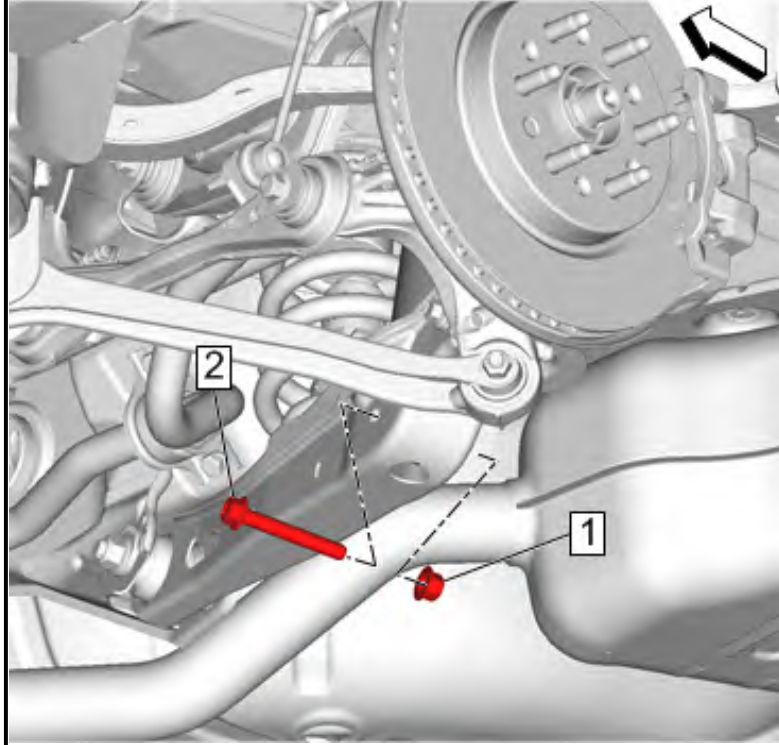
SHOCK ABSORBER REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)
2. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
3. Rear Wheelhouse Liner - Remove - [Rear Wheelhouse Liner Replacement](#)
4. Using a suitable jack stand support the lower control arm.

5.

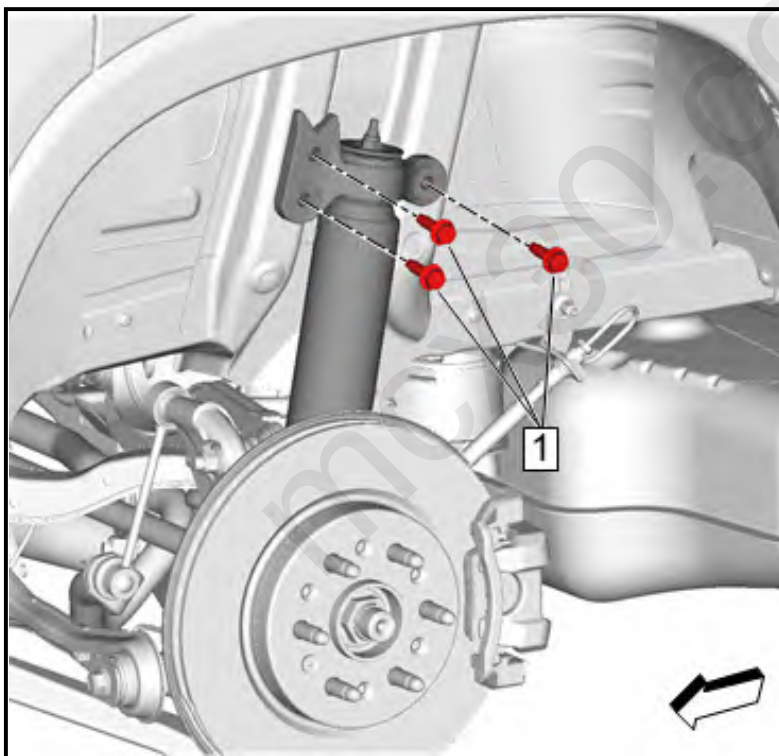




Rear Shock Absorber Nut (1) - Remove

6. Rear Shock Absorber Bolt (2) @ Lower Control Arm - Remove and DISCARD

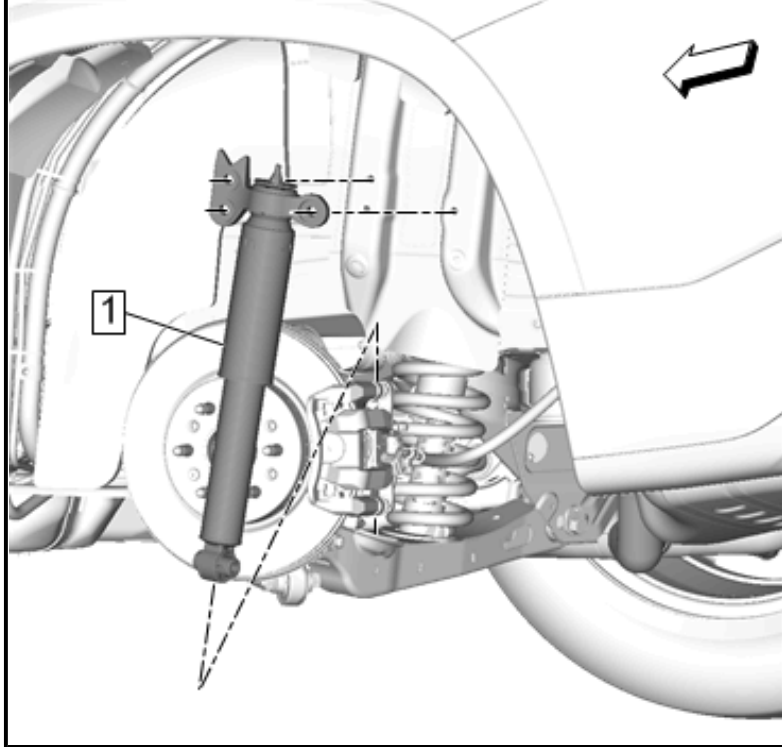
7.



Rear Shock Absorber Bolt (1) @ Body - Remove [3x]

8.

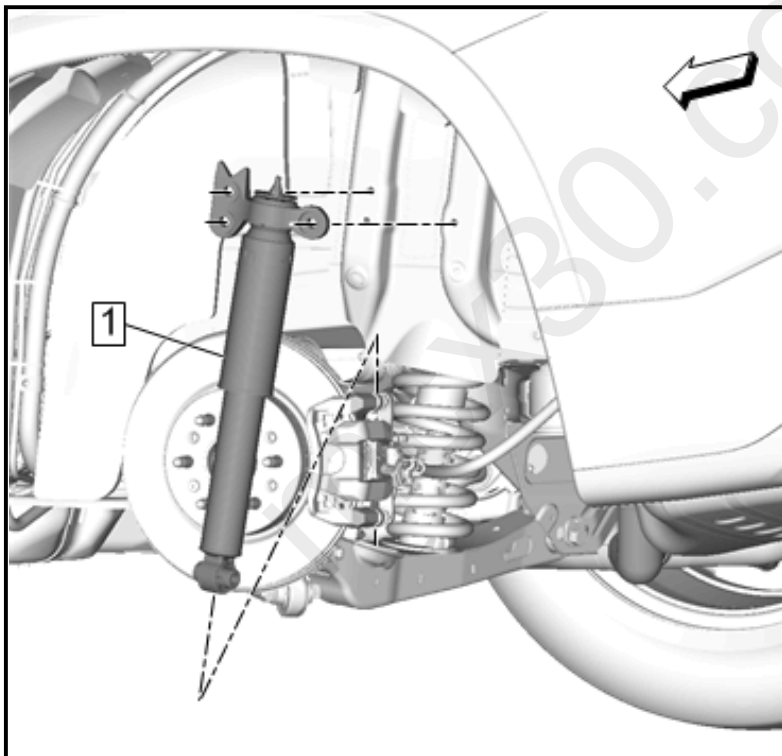




Rear Shock Absorber (1) - Remove

Installation Procedure

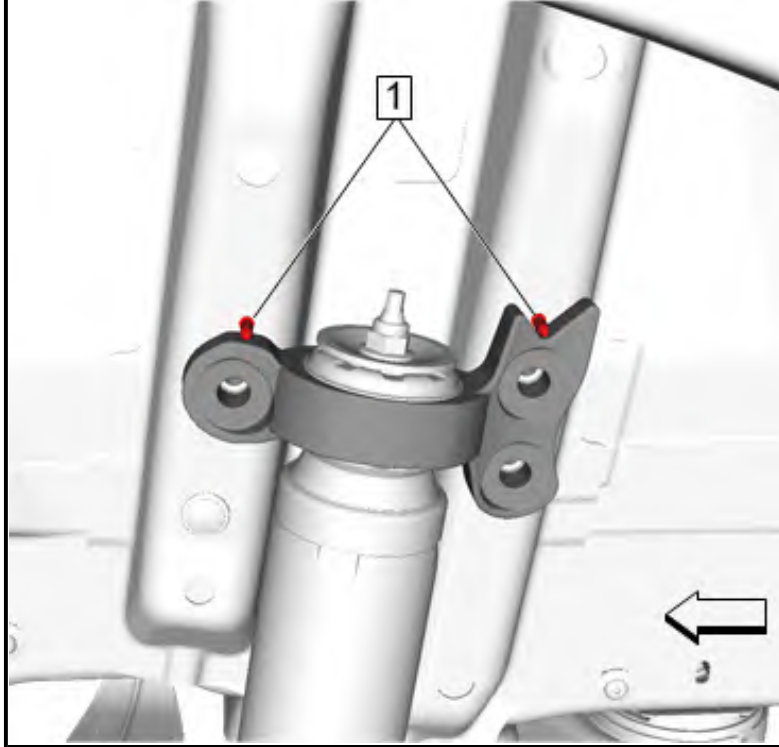
1.



Rear Shock Absorber (1) - Install

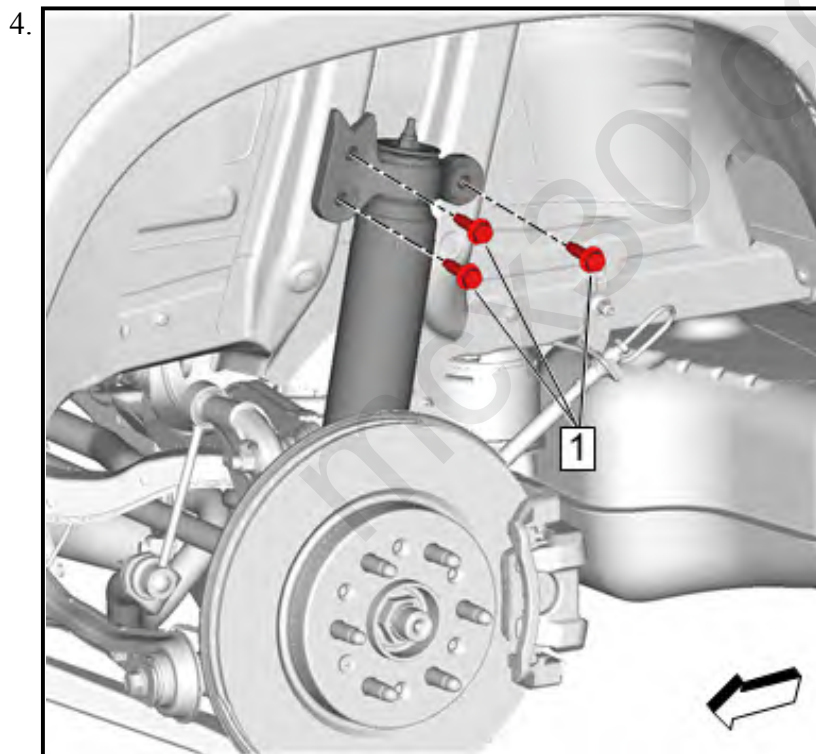
2.





If equipped, inspect the condition of the locator pins (1). If the pins are bent upward or blocking the bolting surface, the pins should be removed and the surface ground flat.

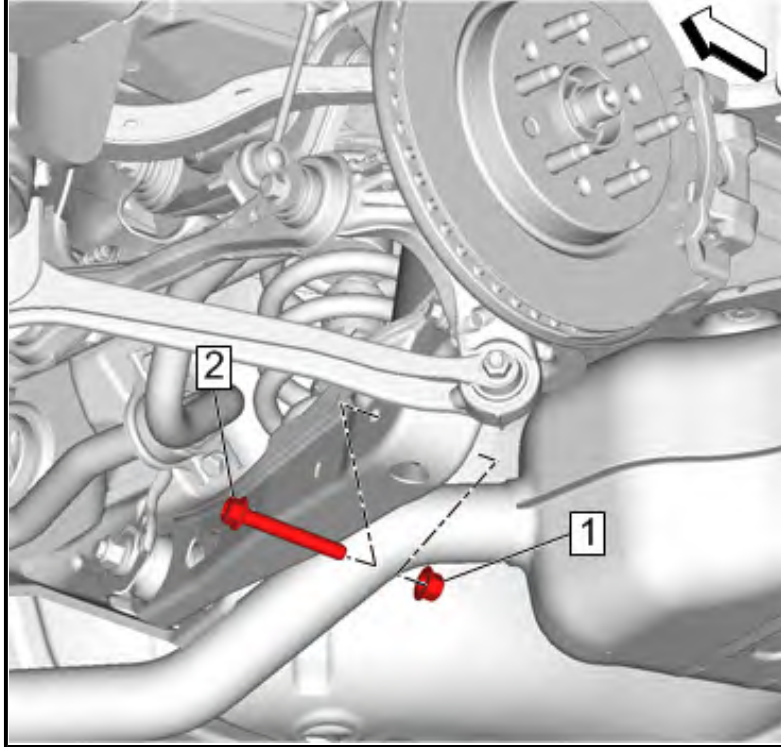
3. Ensure that the rear shock absorber mount is seated against the locator pins (1).



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

Rear Shock Absorber Bolt (1) @ Body - Install and tighten [3x] 58 N.m (43 lb ft)





CAUTION: This vehicle is equipped with torque-to-yield or single use fasteners. Install a **NEW** torque-to-yield or single use fastener when installing this component. Failure to replace the torque-to-yield or single use fastener could cause damage to the vehicle or component.

Rear Shock Absorber Bolt (2) @ Lower Control Arm - Install NEW

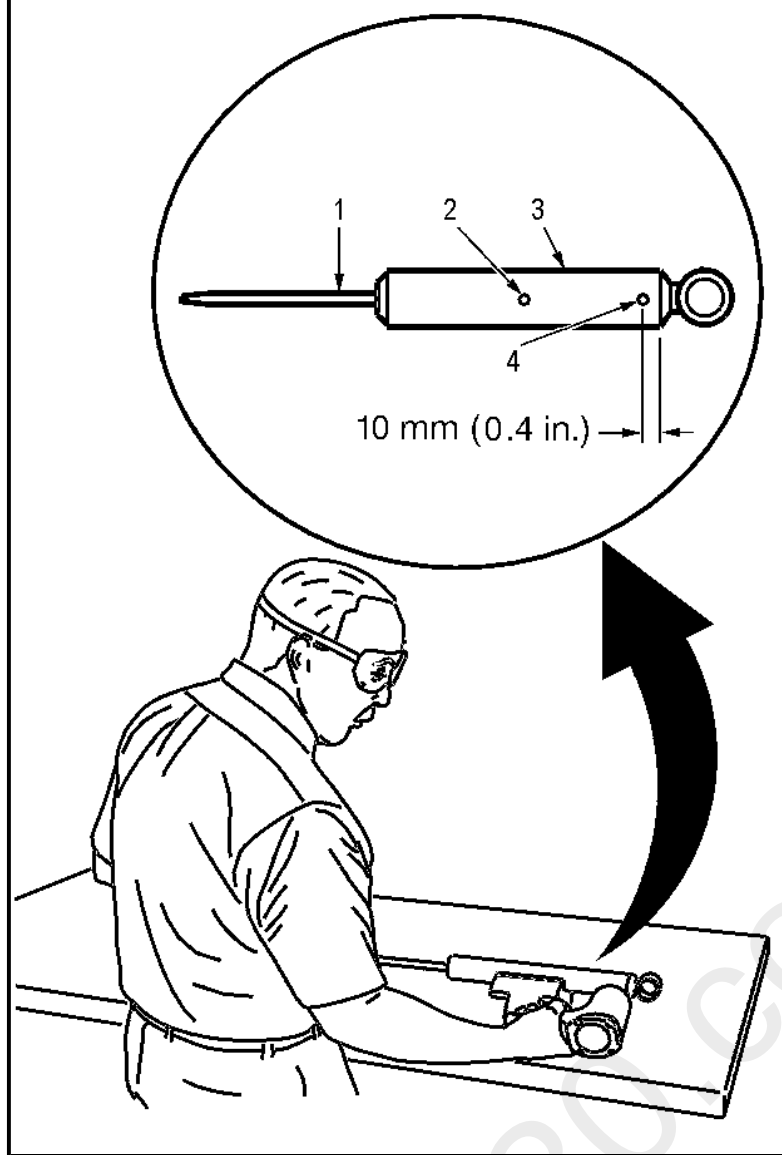
6. Rear Shock Absorber Nut (1) - Install and tighten
 1. First Pass: 100 N.m (74 lb ft)
 2. Final Pass: (90 - 105 degrees)
7. Remove the support from the lower control arm.
8. Rear Wheelhouse Liner - Install [Rear Wheelhouse Liner Replacement](#)
9. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
10. Remove the support and lower the vehicle.

SHOCK ABSORBER DISPOSAL

WARNING: Gas charged shock absorbers contain high pressure gas. Do not remove the snap ring from inside the top of the tube. If the snap ring is removed, the contents of the shock absorber will come out with extreme force which may result in personal injury.

WARNING: To prevent personal injury, wear safety glasses when centerpunching and drilling the shock absorber. Use care not to puncture the shock absorber tube with the centerpunch.

1.



Make an indentation 10 mm (0.4 in) from the bottom of the tube (3) using a centerpunch.

2. Clamp the shock absorber in a vise horizontally with the shock absorber rod (1) completely extended.
3. Drill a hole in the shock absorber at the centerpunch (4) using a 5 mm (3/16 in) drill bit. Gas or a gas/oil mixture will exhaust when the drill bit penetrates the shock absorber. Use shop towels in order to contain the escaping oil.
4. Make an indentation in the middle (2) of the tube (3) with a centerpunch.
5. Drill a second hole in the shock absorber at the centerpunch (2) using a 5 mm (3/16 in) drill bit. Oil will exhaust when the drill bit penetrates the shock absorber. Use shop towels in order to contain the escaping oil.
6. Remove the shock absorber from the vise. Hold the shock absorber over a drain pan horizontally with the holes down. Move the rod (1) in and out of the tube (3) to completely drain the oil from the shock absorber.

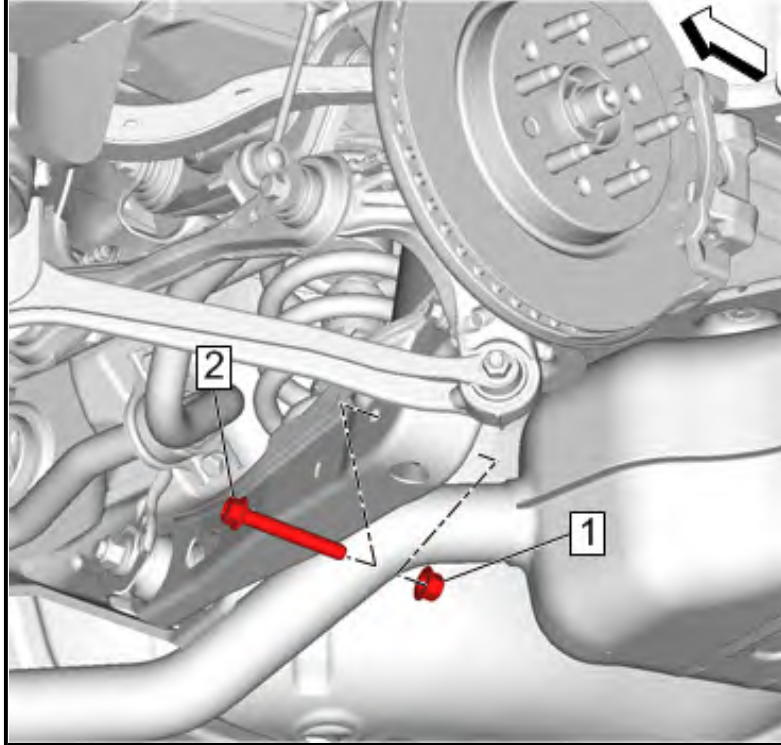
REAR COIL SPRING REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)
2. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
3. Support the rear suspension lower control arm.

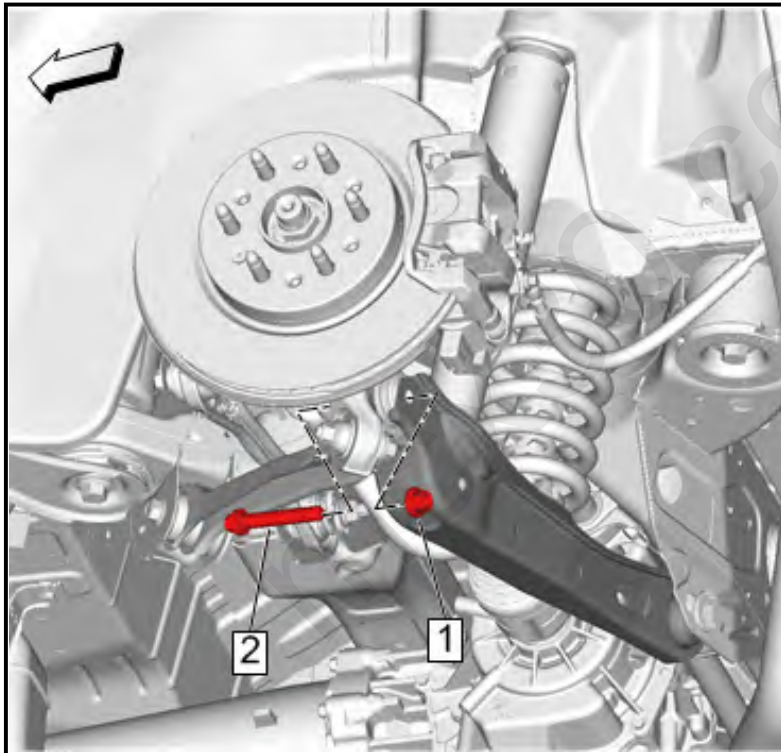
4.





Remove the rear shock absorber nut (1) and the rear shock absorber bolt (2). [Shock Absorber Replacement](#)

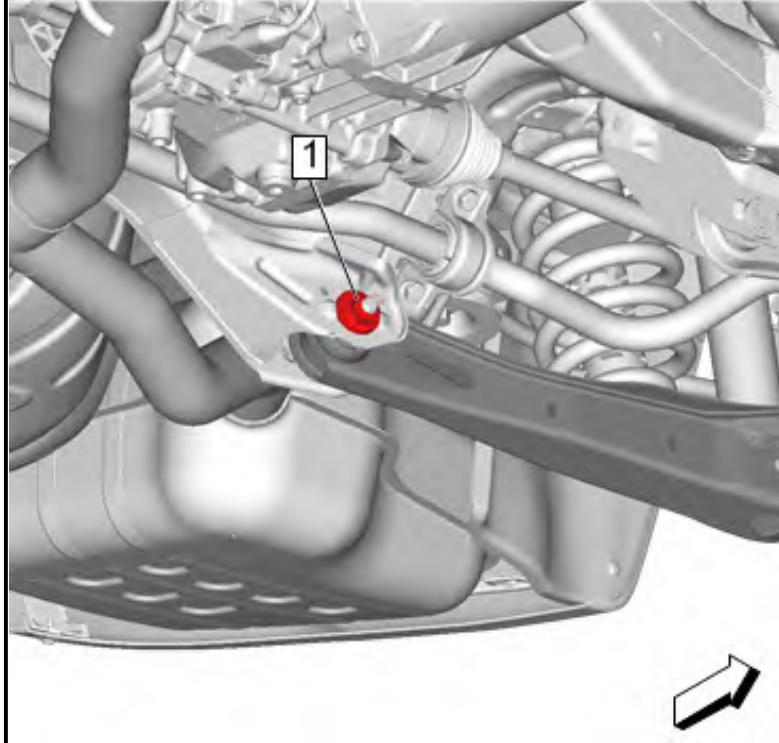
5.



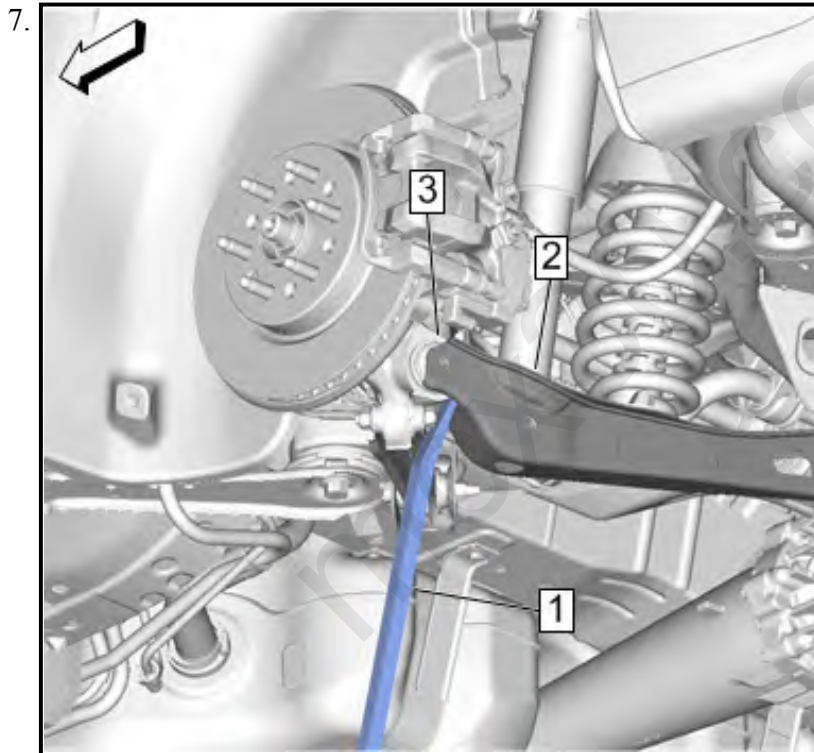
Remove the rear suspension lower control arm outer nut (1) and the rear suspension lower control arm outer bolt (2). [Lower Control Arm Replacement](#)

6.



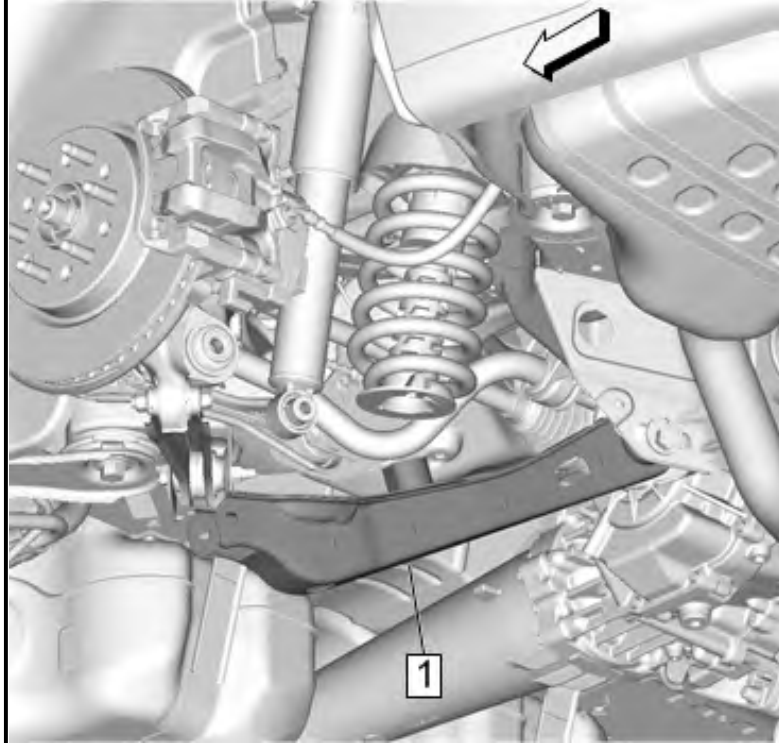


Rear Suspension Lower Control Arm Inner Nut (1) - Loosen

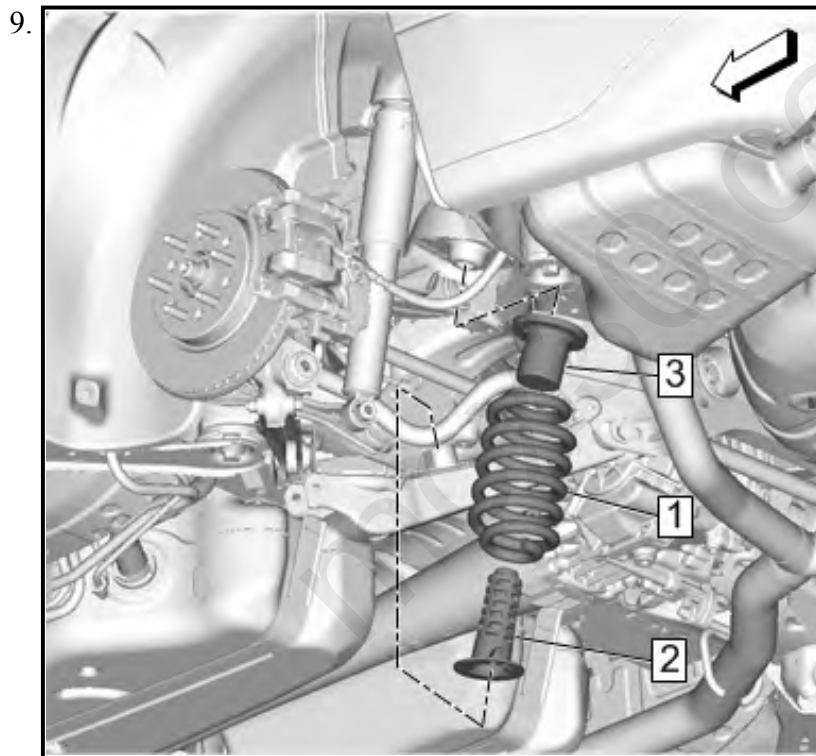


Using a suitable flat bladed tool (1), separate the rear suspension lower control arm (2) from the rear suspension knuckle (3) as shown.





Lower the rear suspension lower control arm (1) to provide clearance for the rear coil spring.



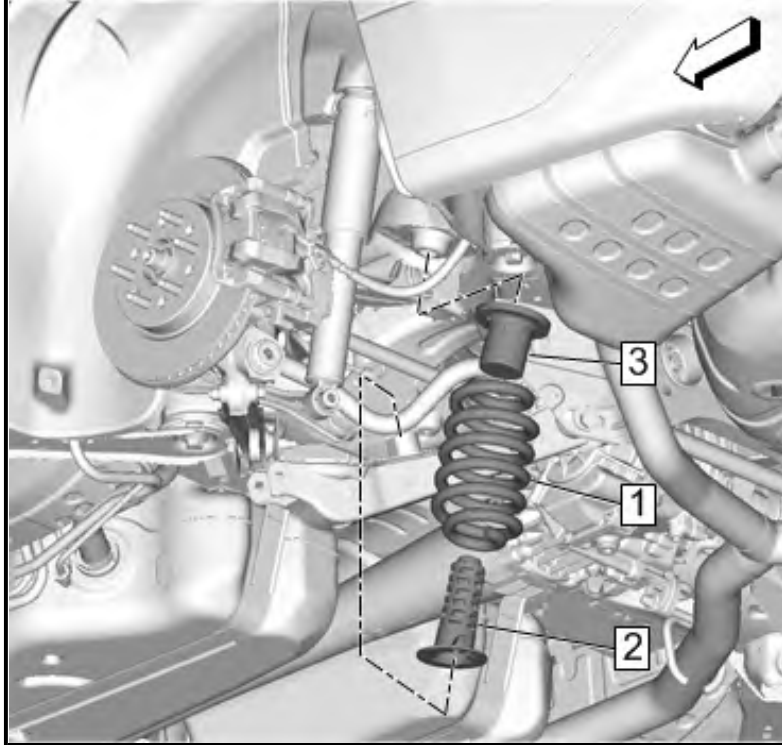
Rear Coil Spring (1) - Remove

10. Rear Suspension Jounce Bumper (2) - Remove

11. Rear Coil Spring Insulator (3) - Remove

Installation Procedure

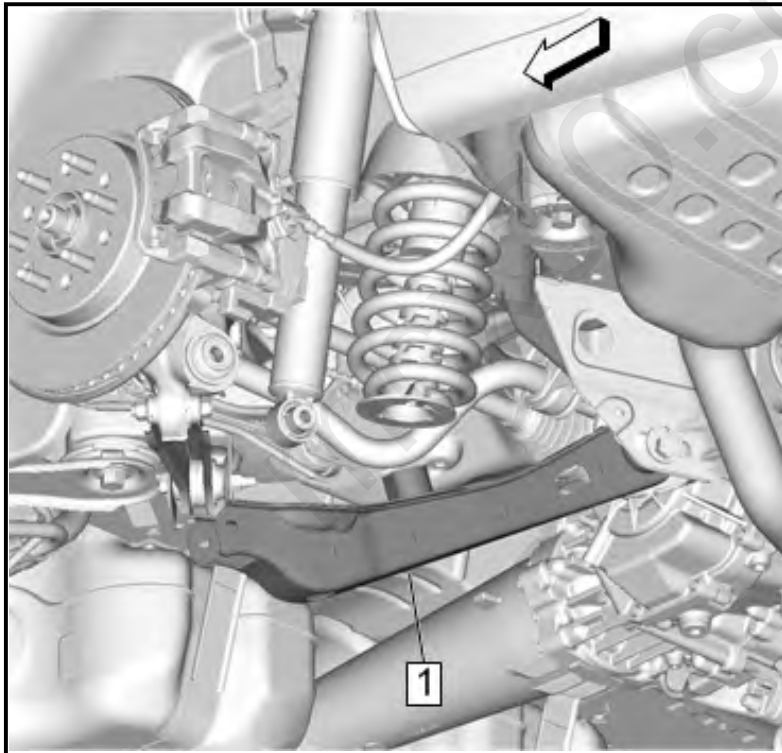




Rear Coil Spring Insulator (3) - Install

2. Rear Suspension Jounce Bumper (2) - Install
3. Rear Coil Spring (1) - Install

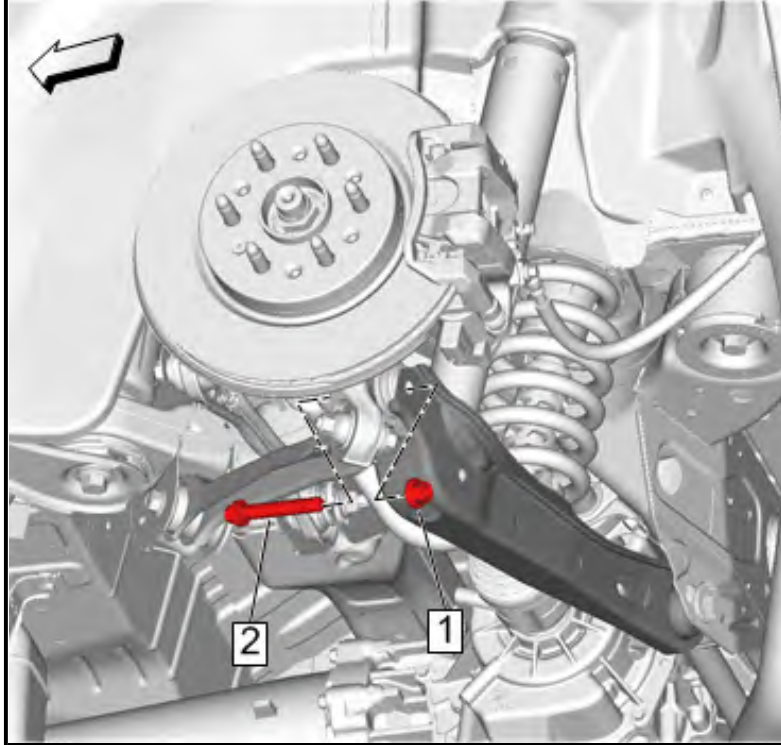
4.



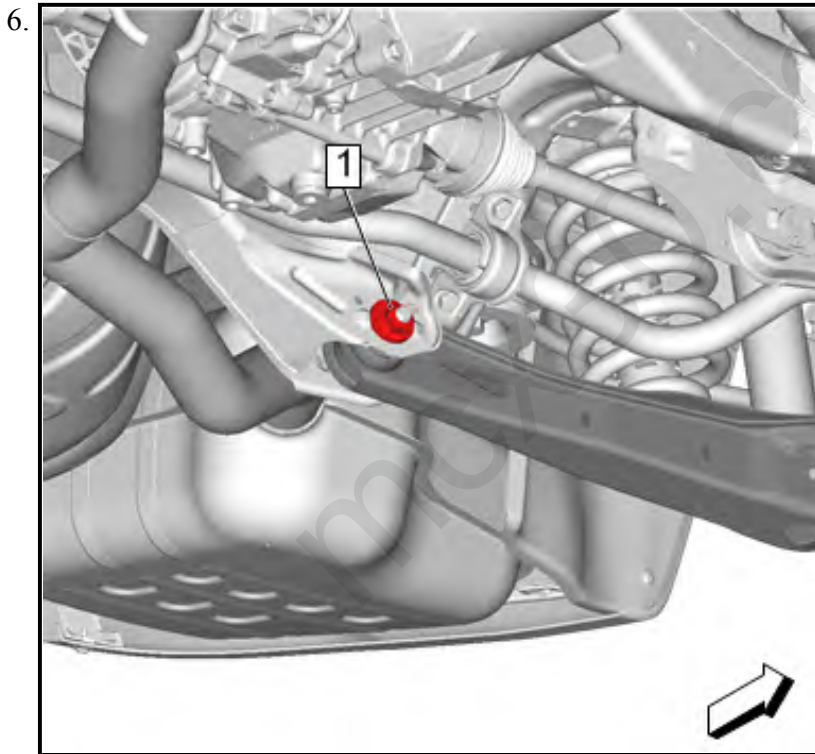
Raise the rear suspension lower control arm (1) back into position.

5.



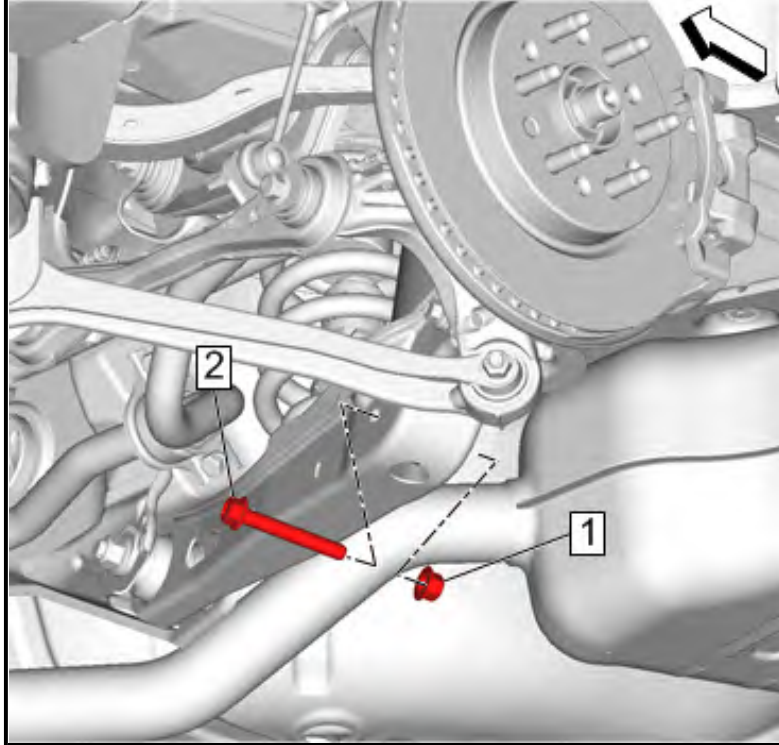


Install the rear suspension lower control arm outer bolt (2) and rear suspension lower control arm outer nut (1). **Lower Control Arm Replacement**



7. Rear Suspension Lower Control Arm Inner Nut (1) - Tighten - **Lower Control Arm Replacement**





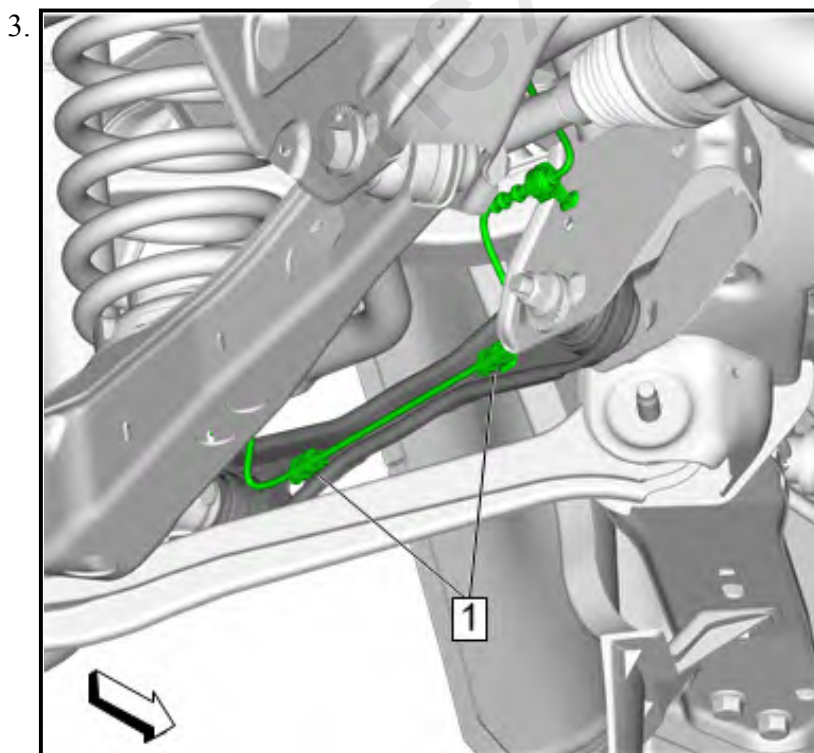
Install the rear shock absorber bolt (2) and rear shock absorber nut (1). [Shock Absorber Replacement](#)

9. Remove the support from the rear suspension lower control arm.
10. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#) .
11. Verify the rear camber specifications and adjust as necessary. [Rear Camber Adjustment](#)
12. Remove the support and lower the vehicle.

ADJUST LINK REPLACEMENT

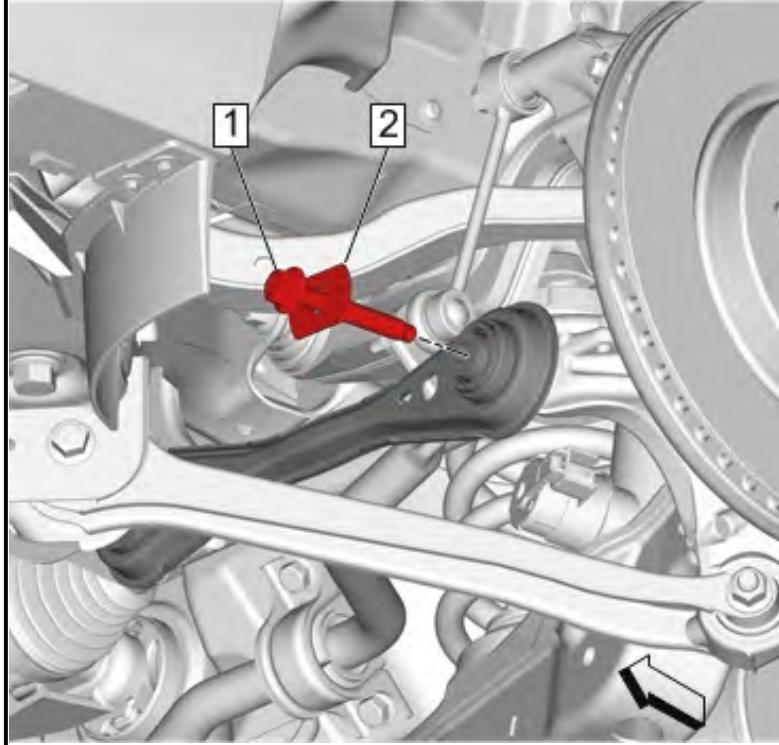
Removal Procedure

1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)
2. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)



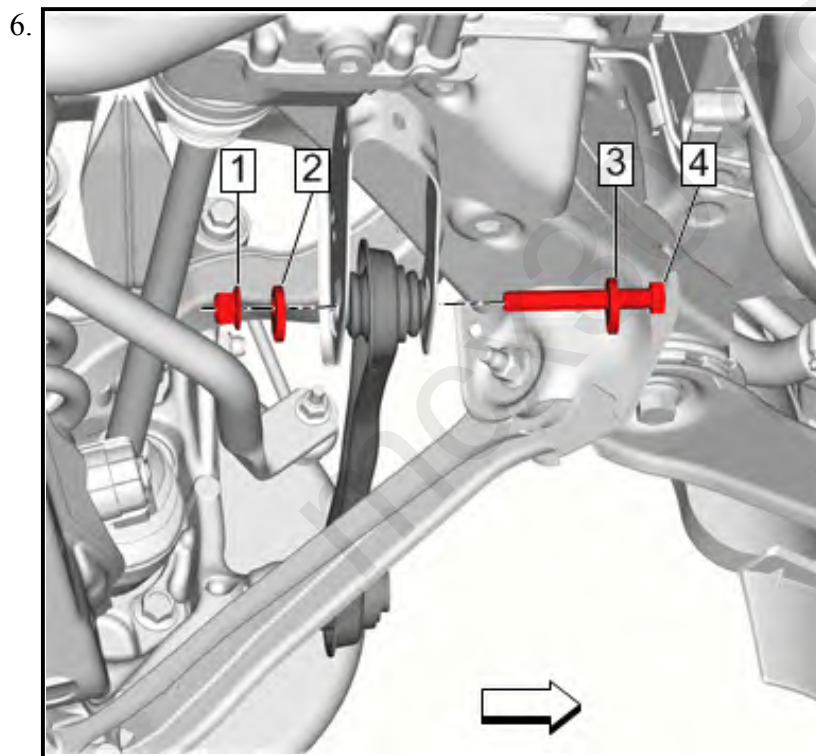
Rear Wheel Speed Sensor Harness (1) @ Rear Suspension Adjust Link - Separate





Rear Suspension Adjust Link Bolt (1) - Remove and DISCARD

5. Rear Suspension Adjust Link Washer (2) - Remove



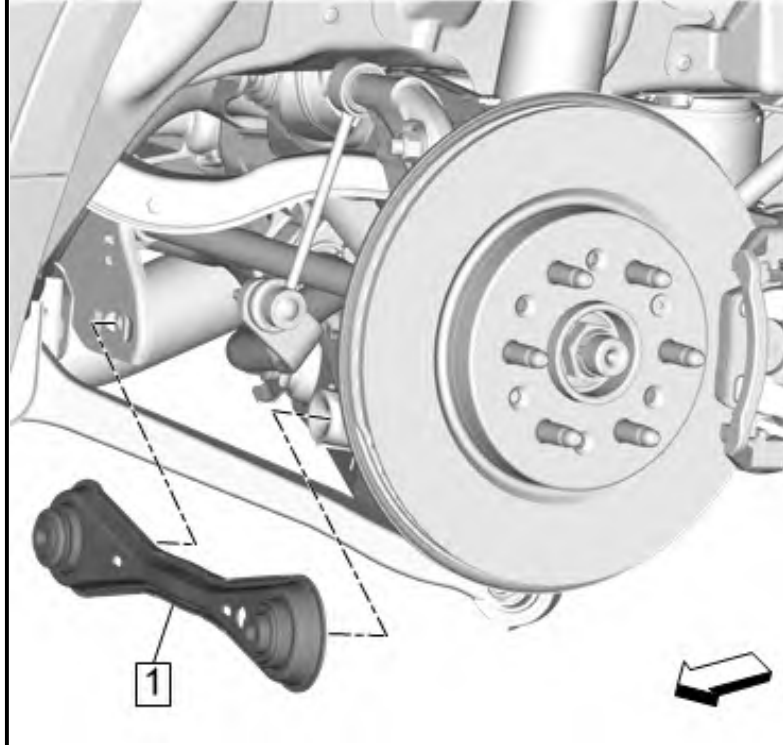
Rear Suspension Link Inner Nut (1) - Remove

7. Rear Suspension Link Inner Washer (2) - Remove

8. Rear Suspension Link Adjust Bolt (4) - Remove

9. Rear Suspension Link Inner Washer (3) - Remove

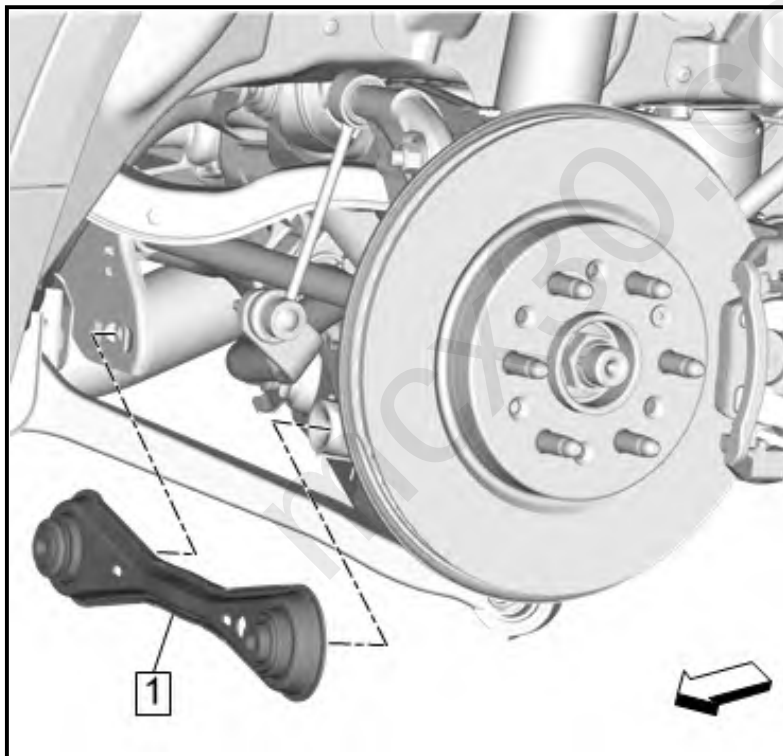




Rear Suspension Adjust Link (1) - Remove

Installation Procedure

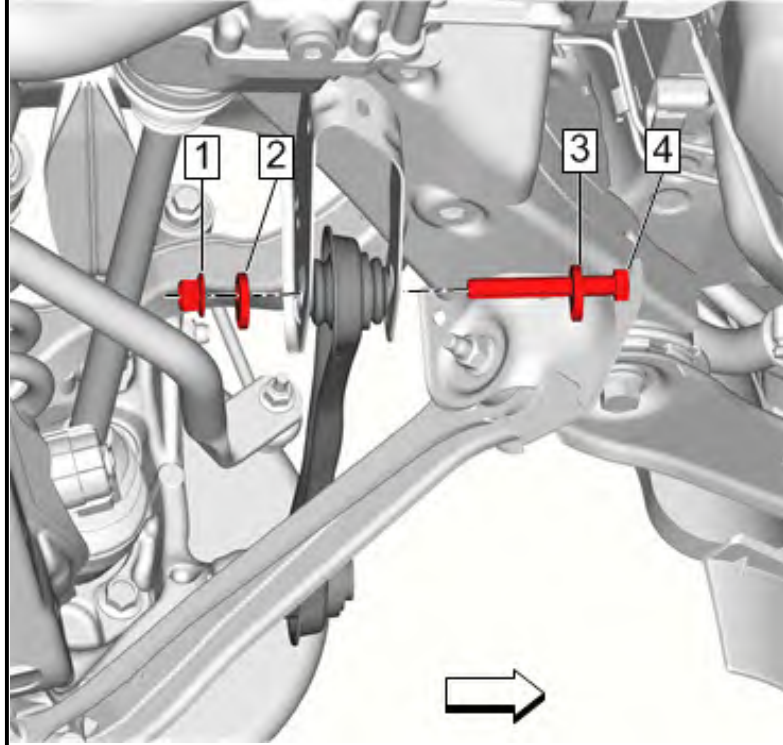
1.



Rear Suspension Adjust Link (1) - Install

2.





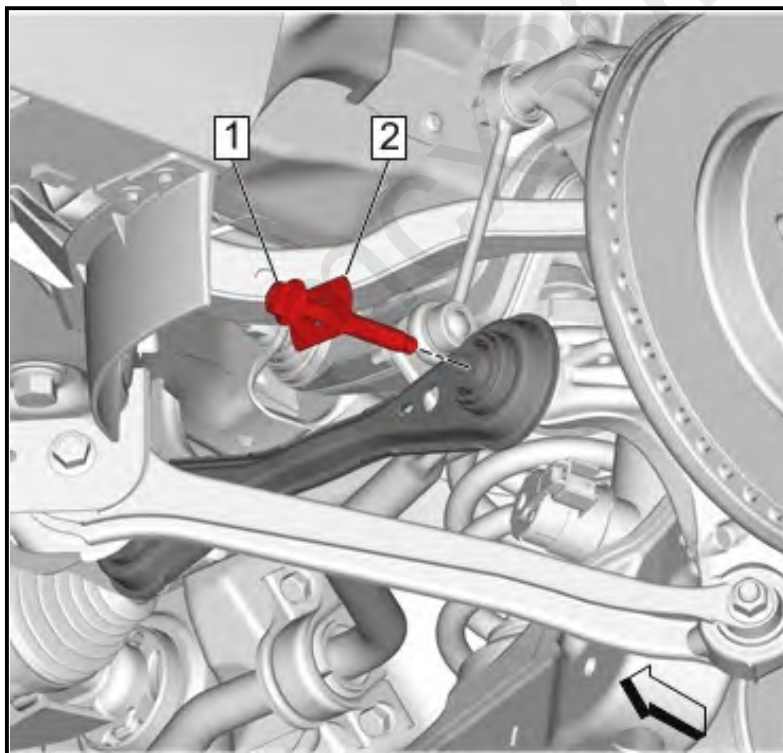
Rear Suspension Link Inner Washer (3) - Install

3. Rear Suspension Link Adjust Bolt (4) - Install
4. Rear Suspension Link Inner Washer (2) - Install

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

5. Rear Suspension Link Inner Nut (1) - Install and tighten 100 N.m (74 lb ft)

6.



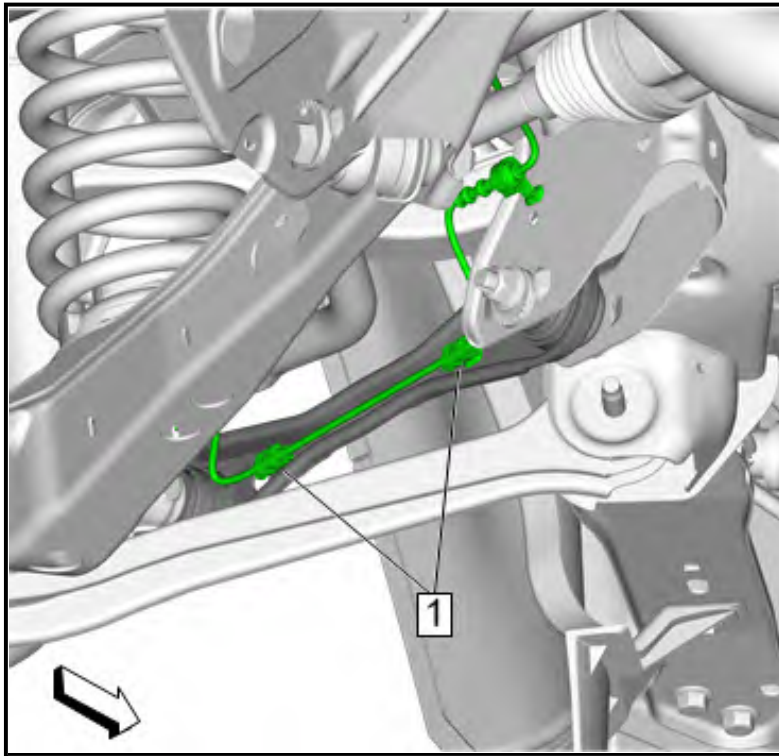
Rear Suspension Adjust Link Washer (2) - Install

CAUTION: This vehicle is equipped with torque-to-yield or single use fasteners. Install a **NEW** torque-to-yield or single use fastener when installing this component. Failure to replace the torque-to-yield or single use fastener could cause damage to the vehicle or component.

7. Rear Suspension Adjust Link Bolt (1) - Install NEW and tighten
 1. First Pass: 100 N.m (74 lb ft)

2. Final Pass: (90 - 105 degrees)

8.



Rear Wheel Speed Sensor Harness (1) @ Rear Suspension Adjust Link - Install

9. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)

10. Remove the support and lower the vehicle.

11. Check the rear wheel alignment. [Rear Toe Adjustment](#)

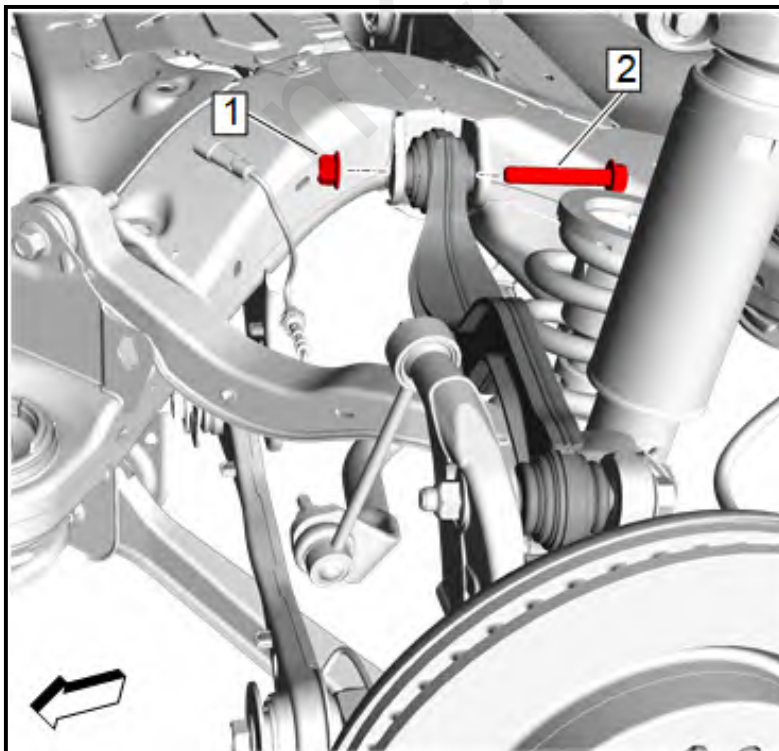
REAR SUSPENSION UPPER LATERAL LINK REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)

2. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)

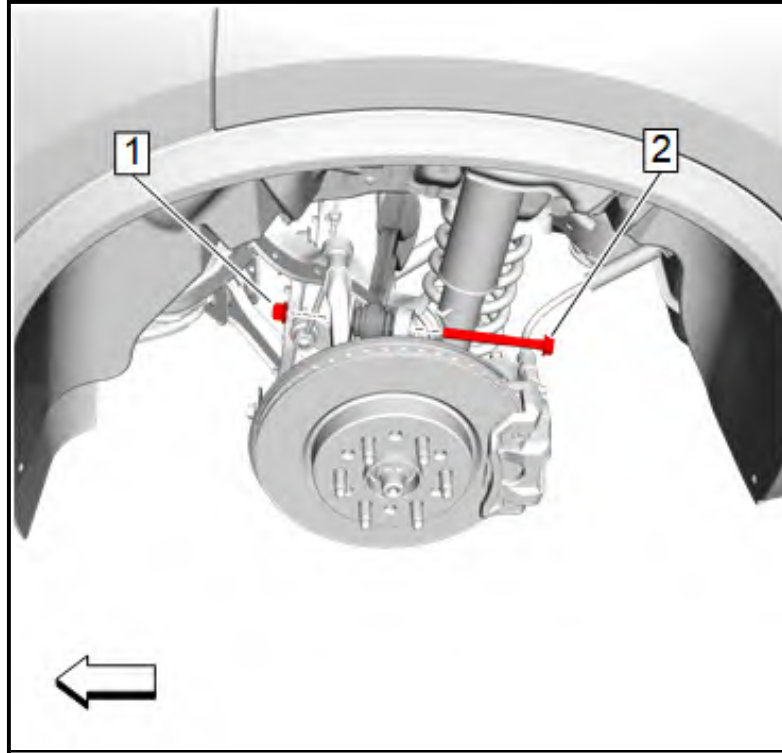
3.



Rear Suspension Upper Control Arm Inner Nut (1) - Remove

4. Rear Suspension Upper Control Arm Inner Bolt (2) - Remove and DISCARD

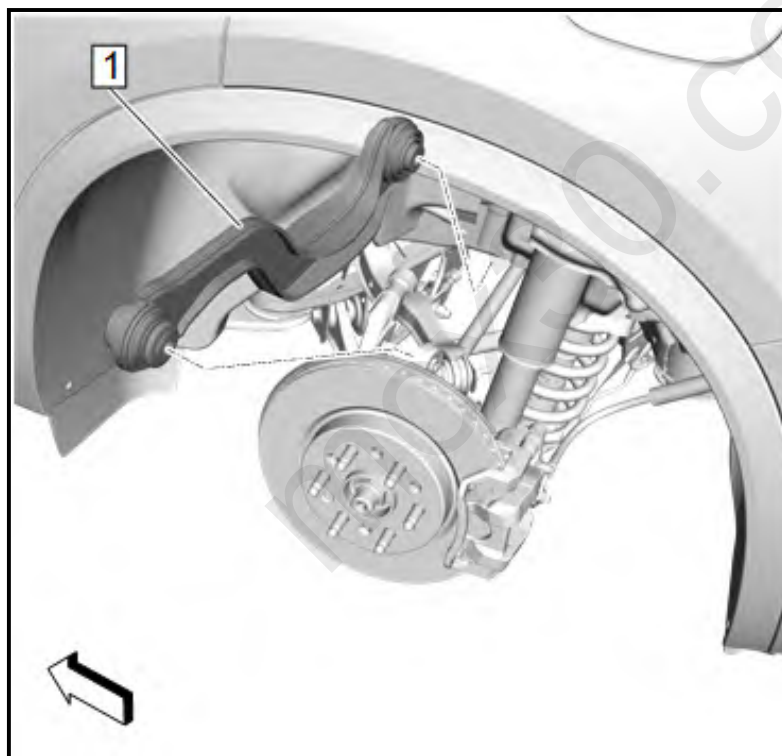
5.



Rear Suspension Upper Control Arm Outer Nut (1) - Remove

6. Rear Suspension Upper Control Arm Outer Bolt (2) - Remove and DISCARD

7.



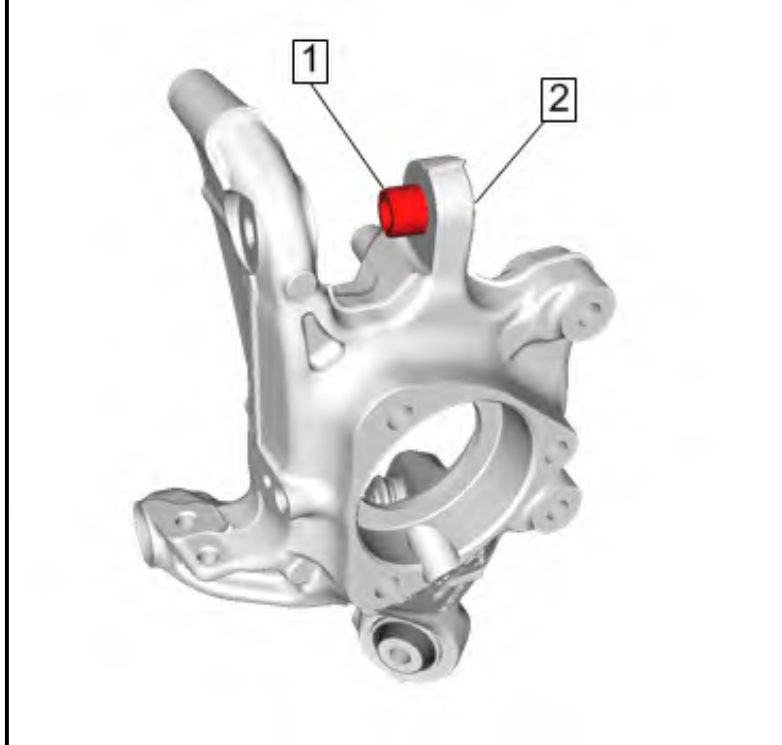
NOTE: If the rear suspension upper lateral link is to be reused, inspect the bushings for damage. If damage is found, replace the rear suspension upper lateral link.

Rear Suspension Upper Lateral Link (1) - Remove

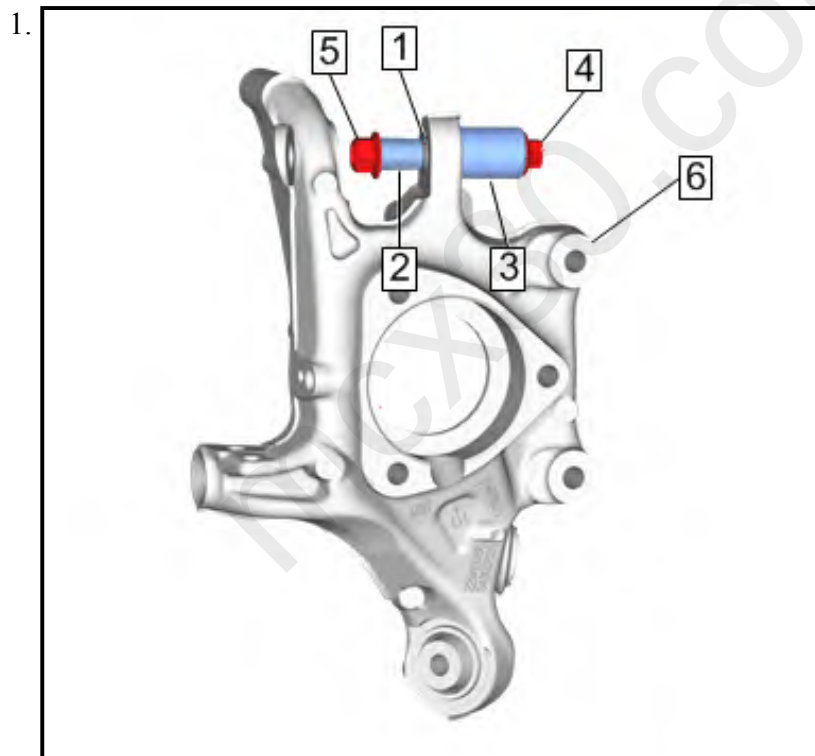
Installation Procedure

1.





Test fit the rear suspension upper lateral link to the rear suspension knuckle (2) prior to installation. If the rear suspension upper lateral link does not easily fit, the split sleeve bushing (1) must be repositioned by performing the following steps:

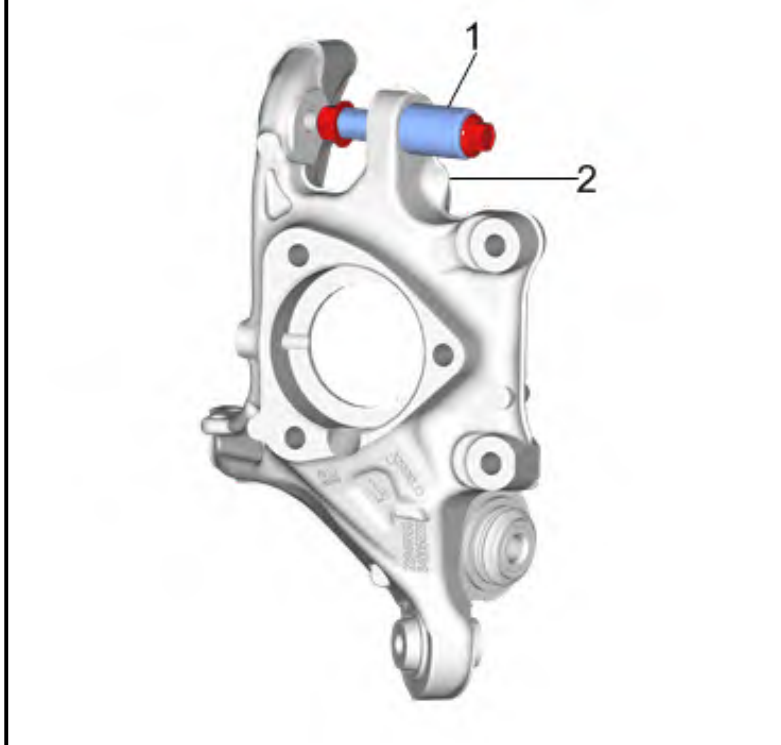


Install a suitable socket (2) that is slightly smaller than the outside diameter of the split sleeve bushing (1).

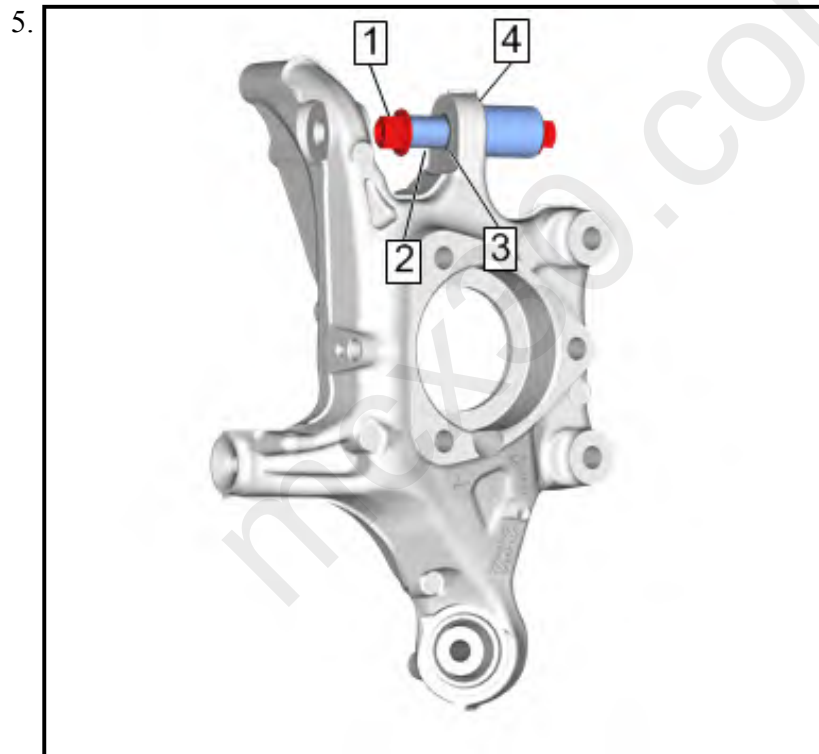
2. Install a suitable socket (3) that is larger than the outside diameter of the split sleeve bushing on the opposite side of the rear suspension knuckle (6).

3. Install a suitable bolt (4) and nut (5).



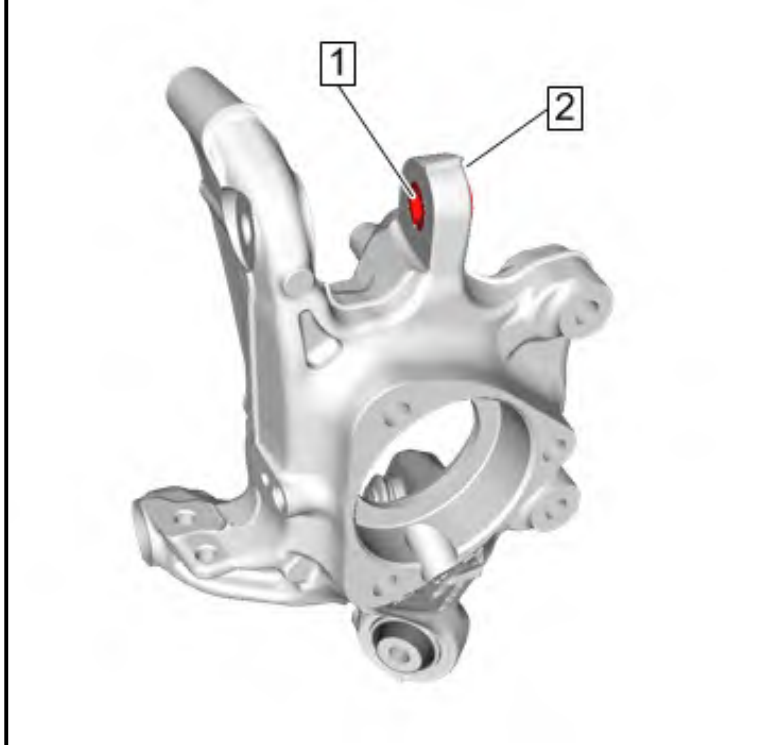


Ensure that the socket (1) is larger than the split sleeve bushing and sits flush against the rear suspension knuckle (2).

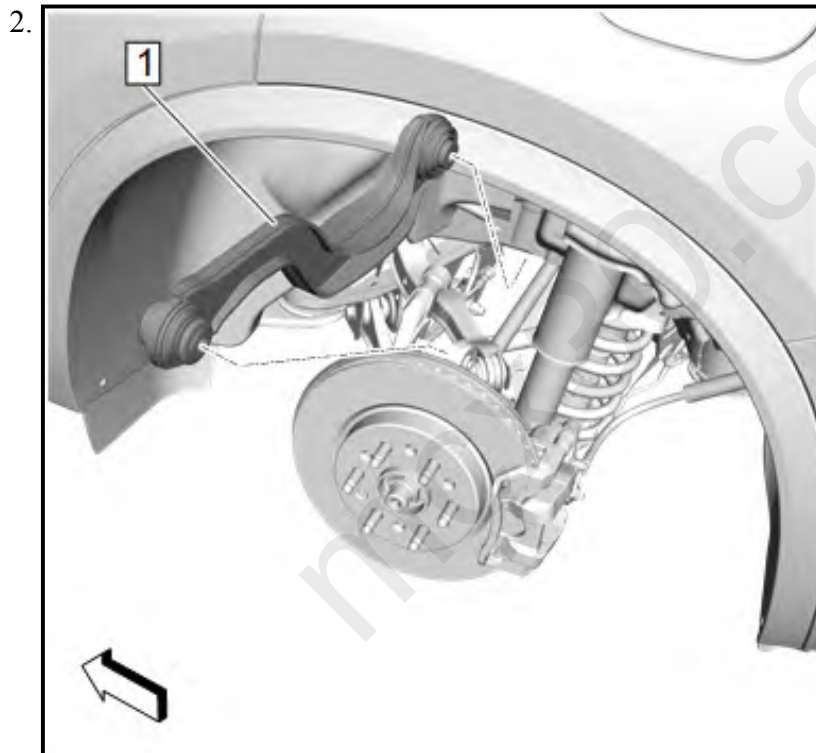


Rotate the nut (1) forcing the socket (2) and the split sleeve bushing (3) flush with the rear suspension knuckle (4).

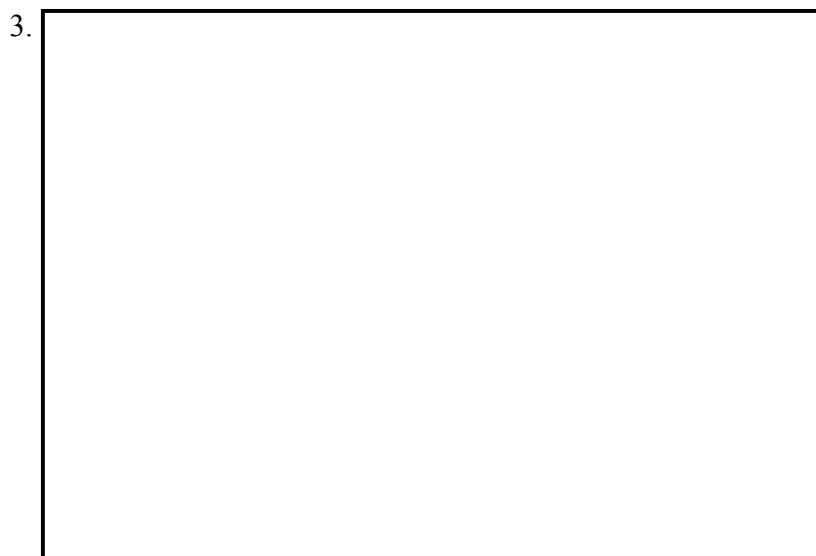


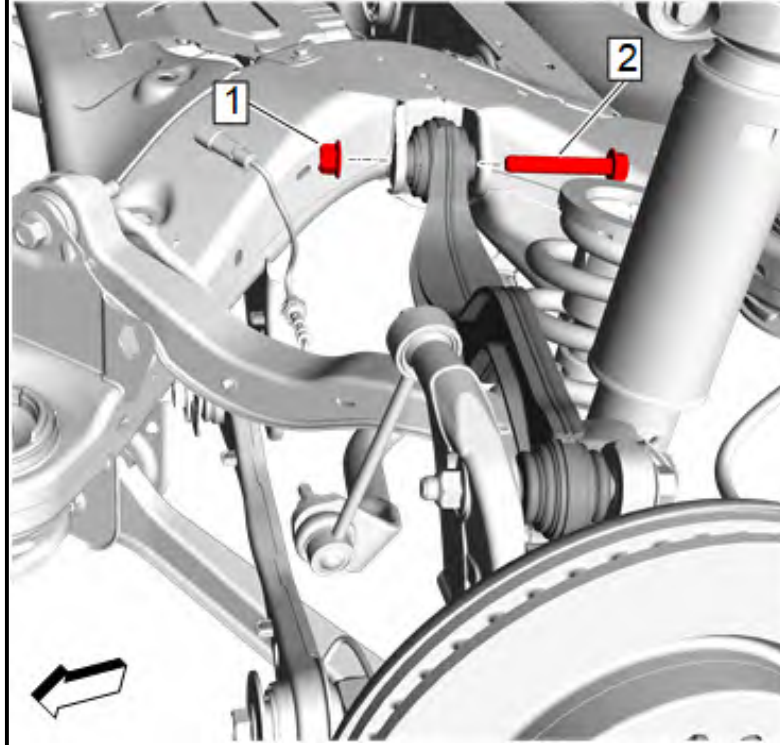


The split sleeve bushing (1) should now be flush with the rear suspension knuckle (2) as shown.



Rear Suspension Upper Lateral Link (1) - Install

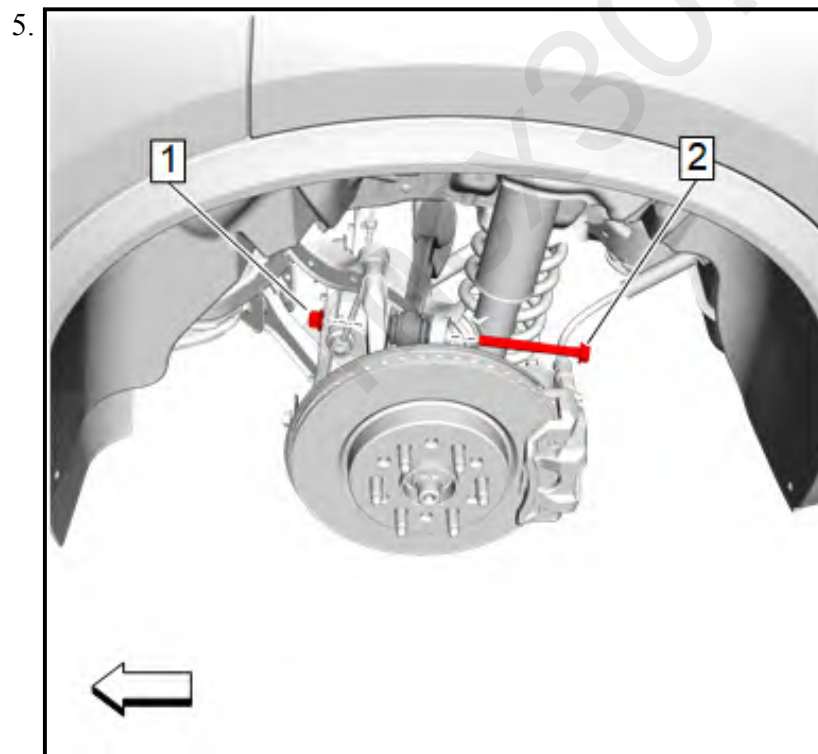




CAUTION: This vehicle is equipped with torque-to-yield or single use fasteners. Install a **NEW** torque-to-yield or single use fastener when installing this component. Failure to replace the torque-to-yield or single use fastener could cause damage to the vehicle or component.

Rear Suspension Upper Control Arm Inner Bolt (2) - Install NEW

4. Rear Suspension Upper Control Arm Inner Nut (1) - Install and hand tighten



NOTE: Ensure that the holes of the knuckle and the rear suspension upper lateral link are properly aligned. Do not use force to install the bolt.

Rear Suspension Upper Control Arm Outer Bolt (2) - Install a NEW bolt by hand

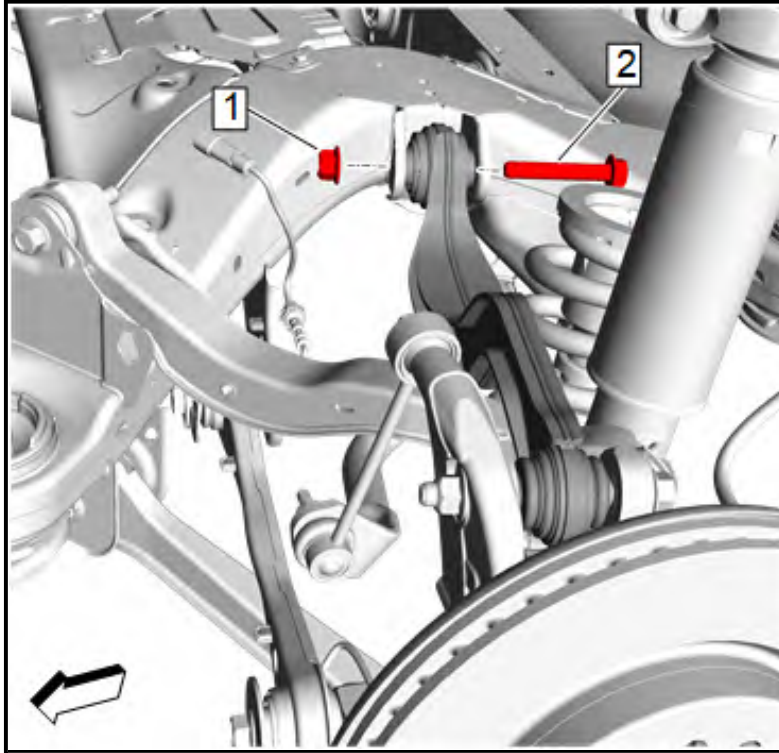
6. Rear Suspension Upper Control Arm Outer Nut (1) - Install and hand tighten

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

7. Rear Suspension Upper Control Arm Outer Bolt (2) - Tighten

1. First Pass: 100 N.m (74 lb ft)
2. Final Pass: (90 - 105 degrees)

8.



Rear Suspension Upper Control Arm Inner Bolt (2) - Tighten

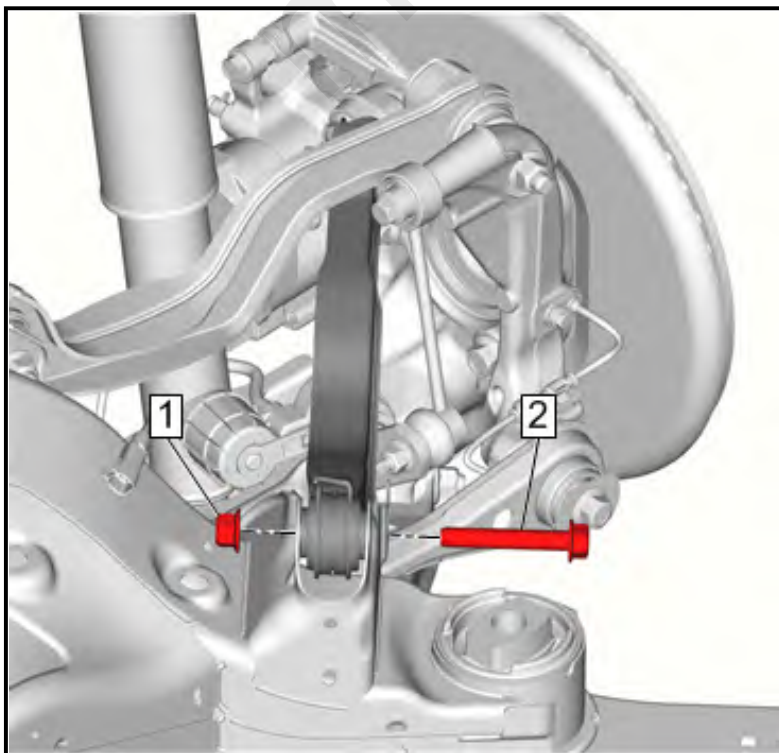
1. First Pass: 100 N.m (74 lb ft)
2. Final Pass: (90 - 105 degrees)

9. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
10. Remove the support and lower the vehicle.

REAR SUSPENSION UPPER TRAILING LINK REPLACEMENT

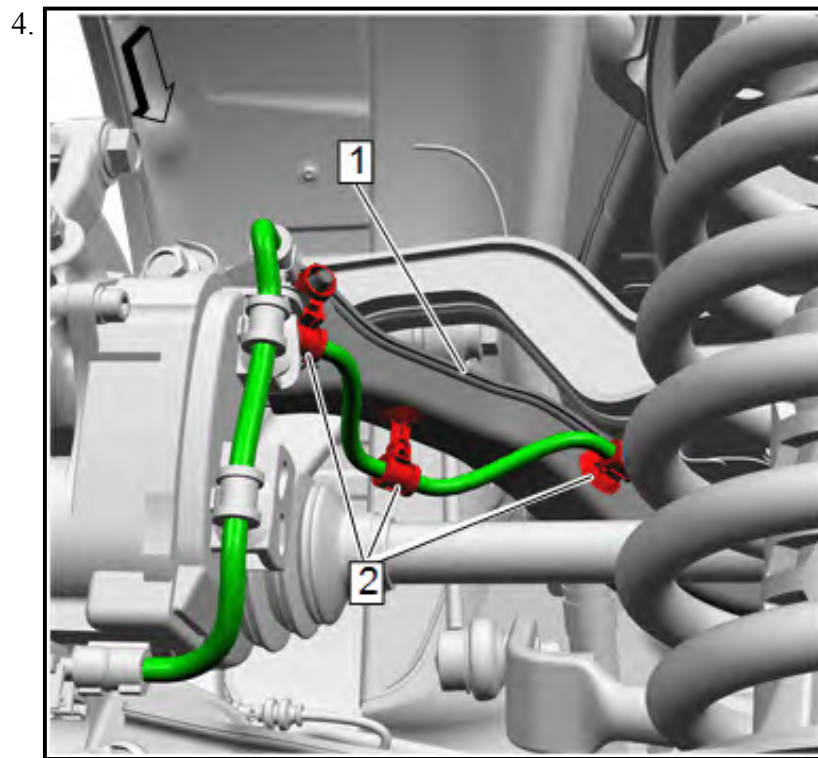
Removal Procedure

1. Lower the rear suspension cradle. [Rear Suspension Cradle Replacement \(All Wheel Drive\)](#). [Rear Suspension Cradle Replacement \(Front Wheel Drive\)](#)
- 2.

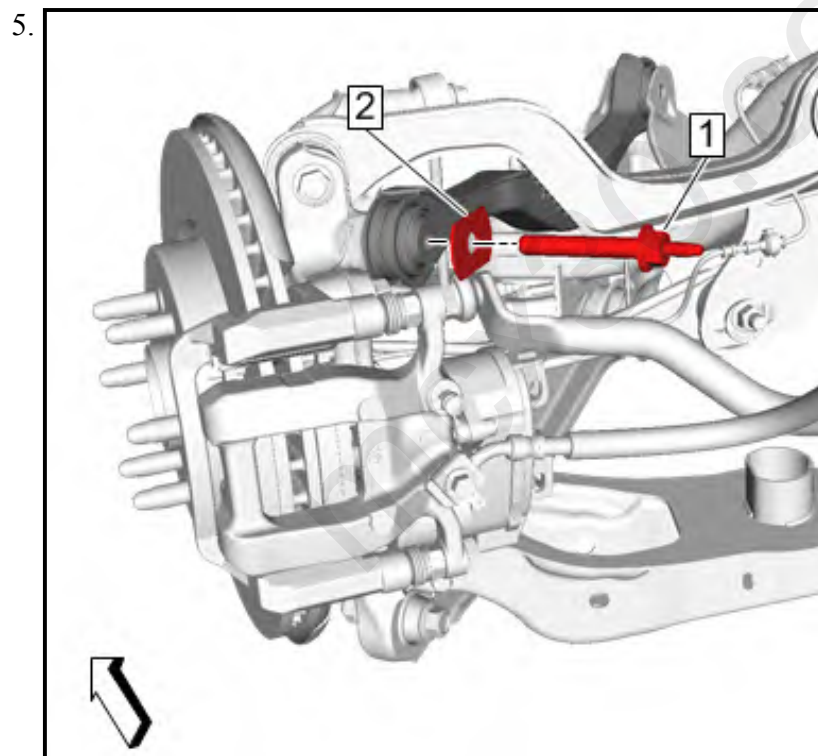


Rear Suspension Trailing Arm Nut (1) - Remove

3. Rear Suspension Trailing Arm Bolt (2) - Remove and DISCARD



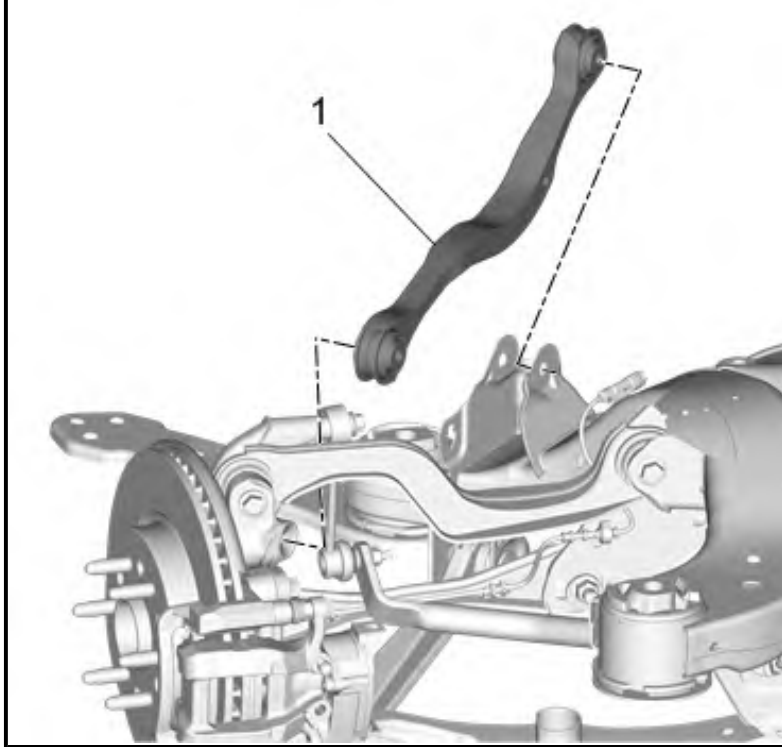
Wiring Harness Retainer (2) @ Rear Suspension Upper Trailing Link (1) - Unclip [3x]



Rear Suspension Link Bolt (1) - Remove and DISCARD

6. Rear Suspension Upper Trailing Link Washer (2) - Remove

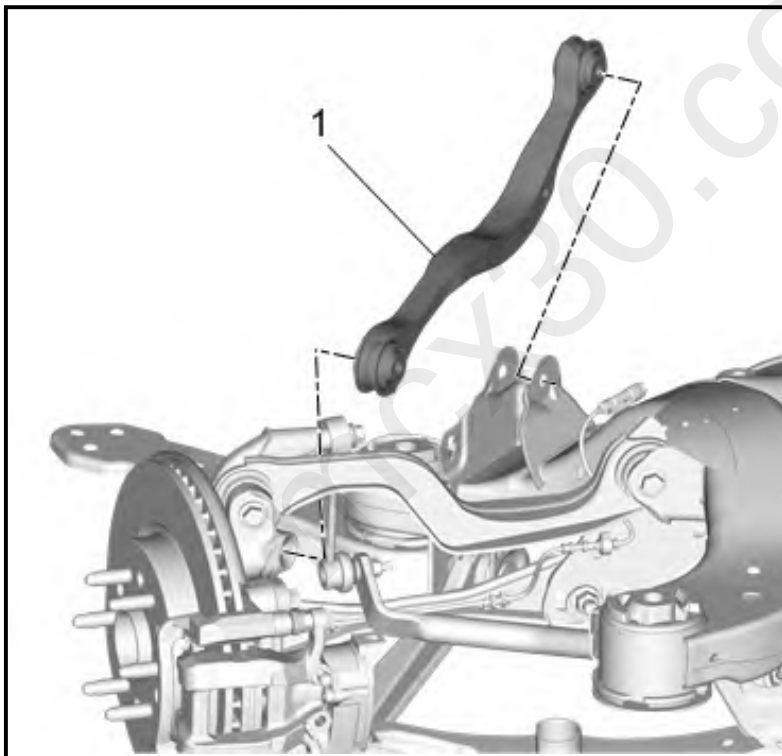




Rear Suspension Upper Trailing Link (1) - Remove

Installation Procedure

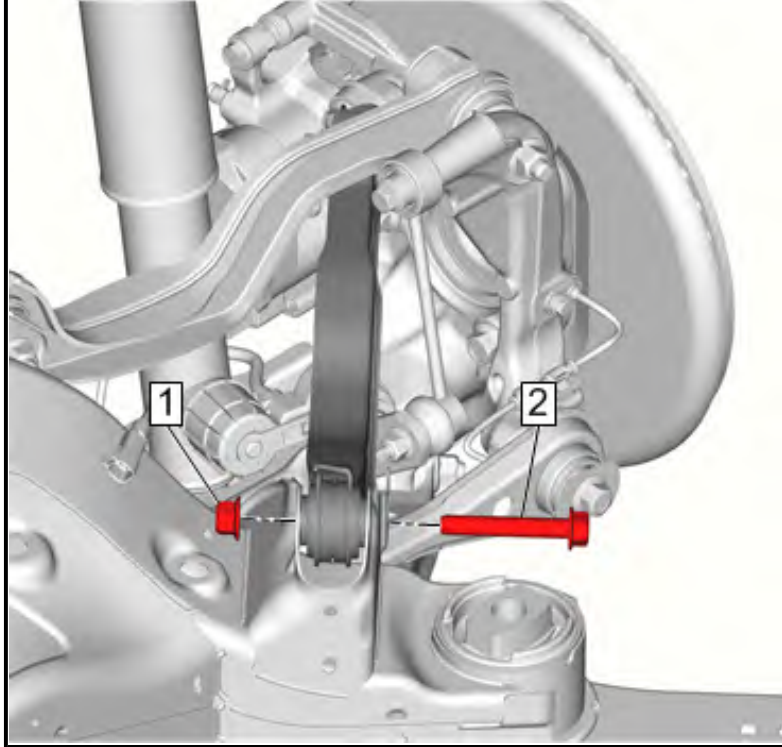
1.



Rear Suspension Upper Trailing Link (1) - Install

2.





CAUTION: This vehicle is equipped with torque-to-yield or single use fasteners. Install a **NEW** torque-to-yield or single use fastener when installing this component. Failure to replace the torque-to-yield or single use fastener could cause damage to the vehicle or component.

Rear Suspension Trailing Arm Bolt (2) - Install NEW

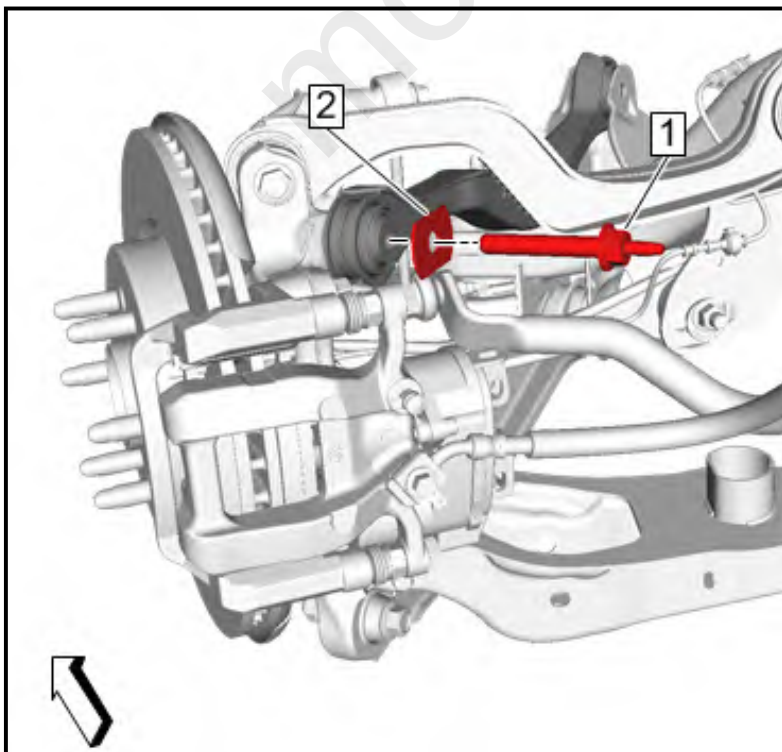
3. Rear Suspension Trailing Arm Nut (1) - Install and hand tighten

CAUTION: Refer to **Fastener Caution** .

4. Rear Suspension Trailing Arm Bolt (2) - Tighten

1. First Pass: 100 N.m (74 lb ft)
2. Final Pass: (90 - 105 degrees)

5.

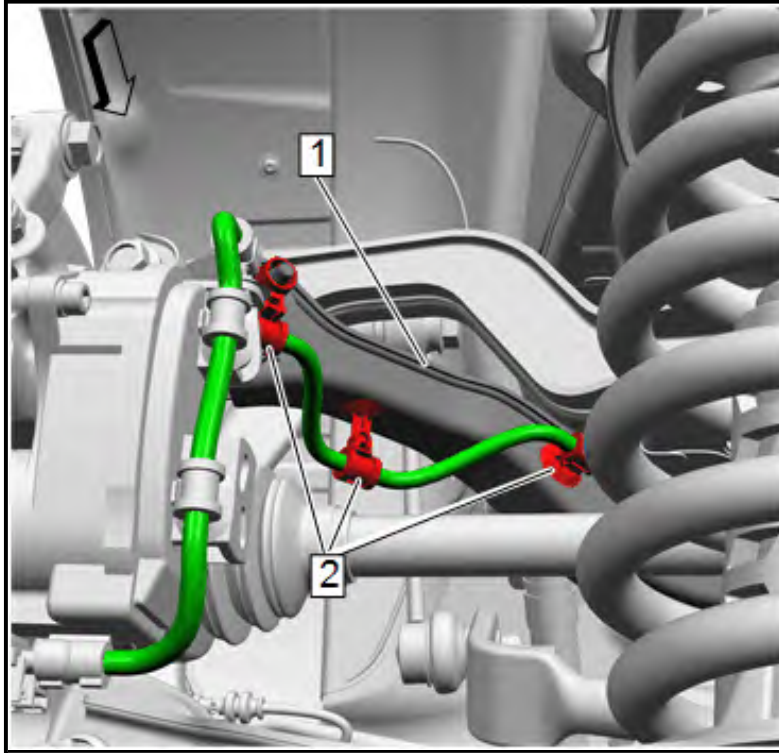


Rear Suspension Upper Trailing Link Washer (2) - Install

6. Rear Suspension Link Bolt (1) - Install NEW and tighten

1. First Pass: 100 N.m (74 lb ft)
2. Final Pass: (90 - 105 degrees)

7.



Wiring Harness Retainer (2) @ Rear Suspension Upper Trailing Link (1) - Install [3x]

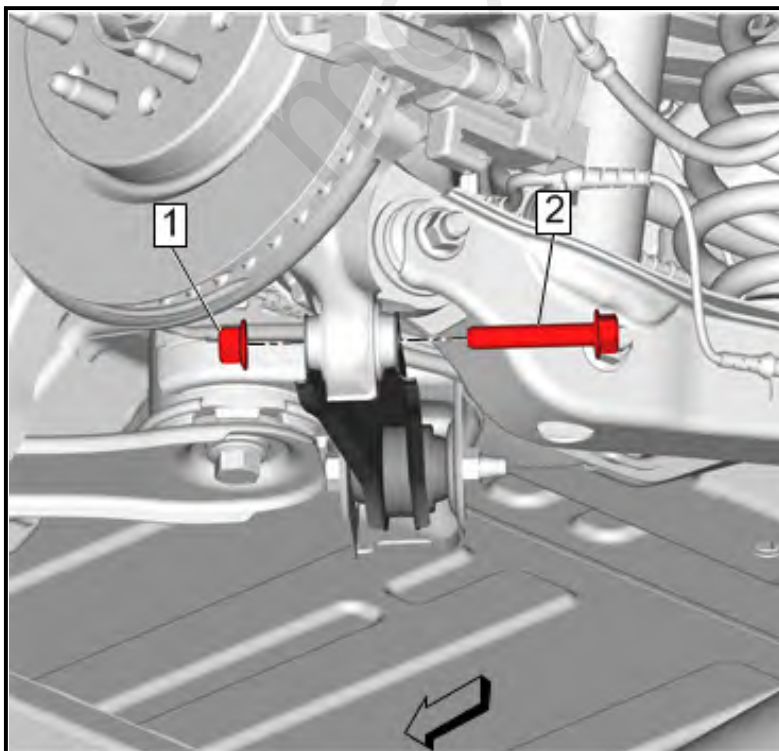
8. Raise the rear suspension cradle to its original position. [Rear Suspension Cradle Replacement \(All Wheel Drive\)](#). [Rear Suspension Cradle Replacement \(Front Wheel Drive\)](#).

REAR SUSPENSION LOWER TRAILING LINK REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)
2. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)

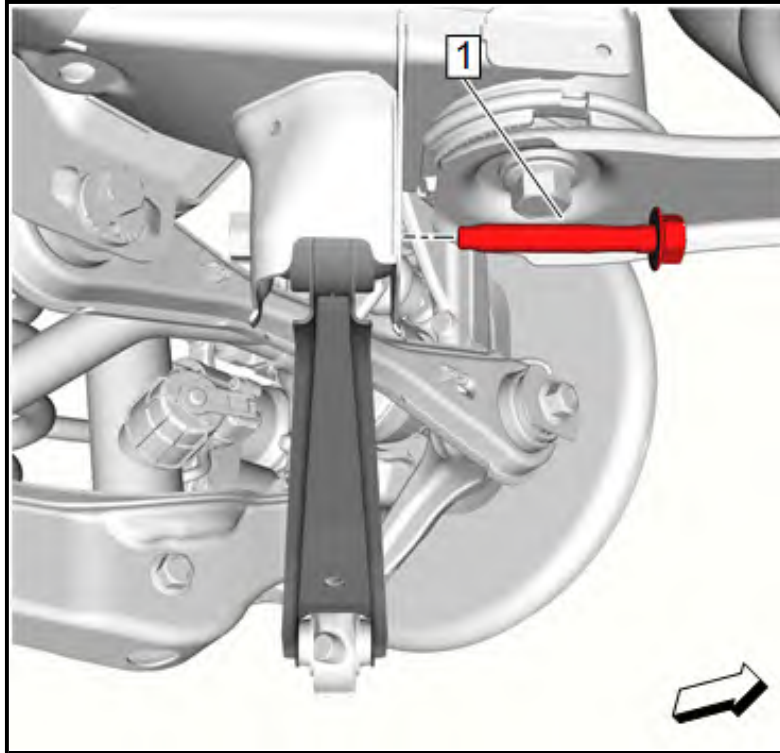
3.



Rear Suspension Link Outer Nut (1) - Remove

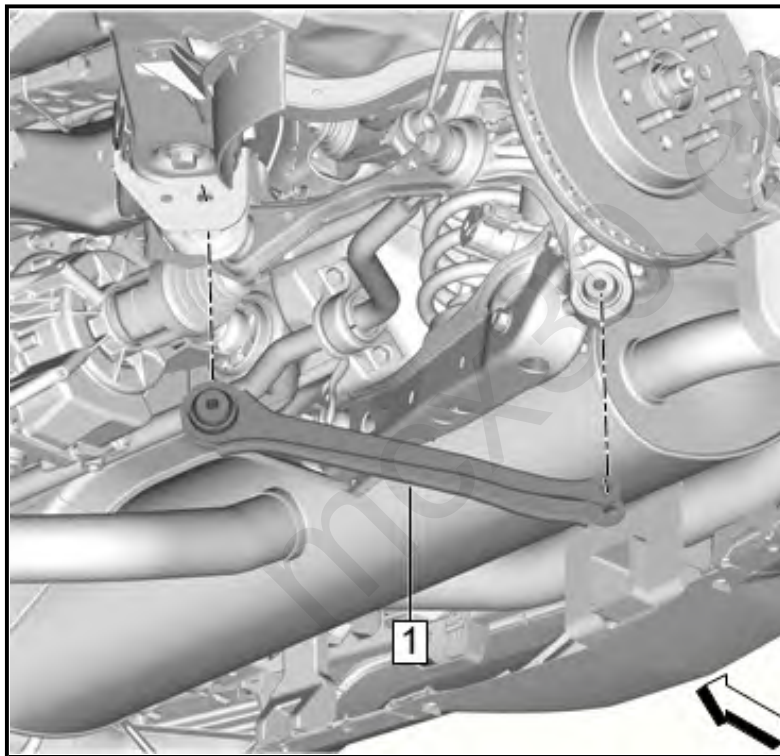
4. Rear Suspension Link Outer Bolt (2) - Remove and DISCARD

5.



Rear Suspension Link Inner Bolt (1) - Remove and DISCARD

6.

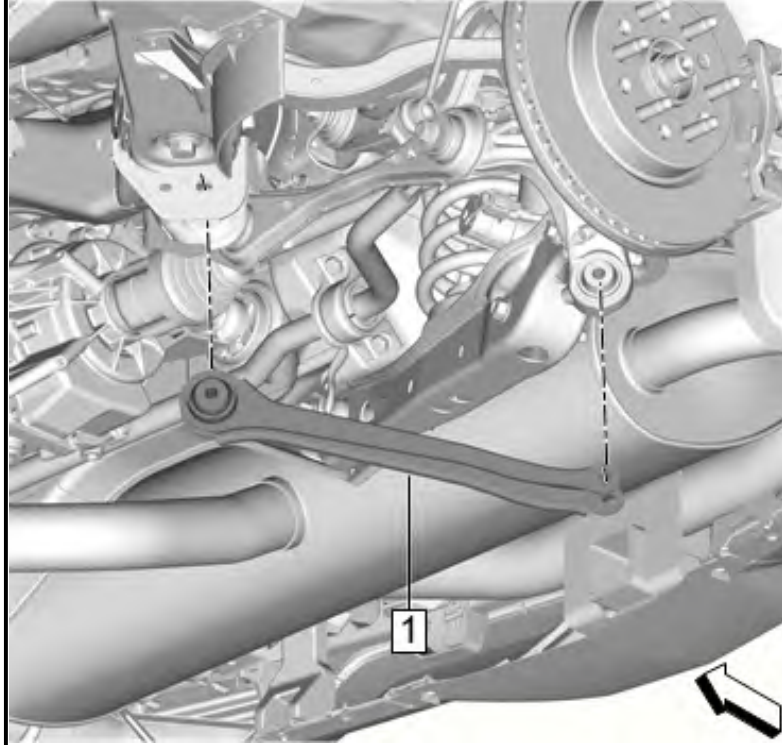


Rear Suspension Lower Trailing Link (1) - Remove

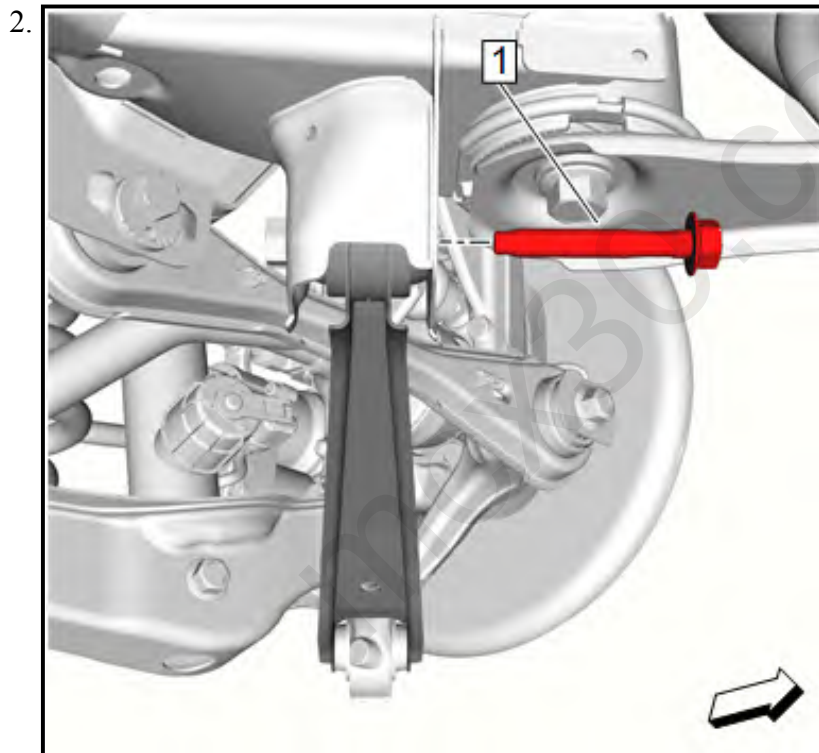
Installation Procedure

1.





Rear Suspension Lower Trailing Link (1) - Install



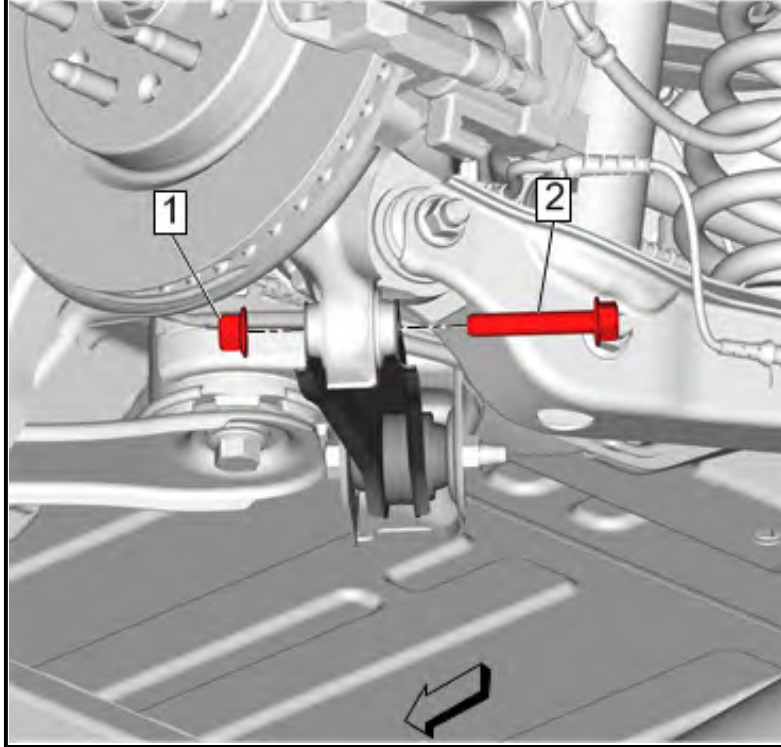
CAUTION: This vehicle is equipped with torque-to-yield or single use fasteners. Install a **NEW** torque-to-yield or single use fastener when installing this component. Failure to replace the torque-to-yield or single use fastener could cause damage to the vehicle or component.

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

Rear Suspension Link Inner Bolt (1) - Install NEW and tighten

1. First Pass: 100 N.m (74 lb ft)
2. Final Pass: (90 - 105 degrees)





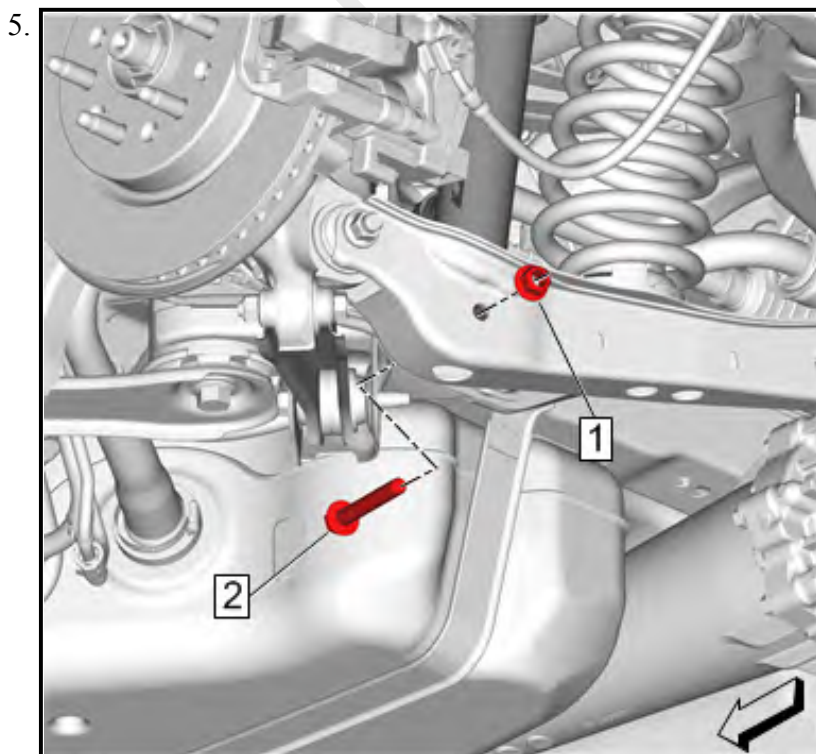
Rear Suspension Lower Trailing Link Outer Bolt (2) - Install NEW

4. Rear Suspension Link Outer Nut (1) - Install, but do NOT tighten
5. Rear Suspension Link Outer Bolt (2) - Tighten
 1. First Pass: 100 N.m (74 lb ft)
 2. Final Pass: (90 - 105 degrees)
6. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
7. Remove the support and lower the vehicle.

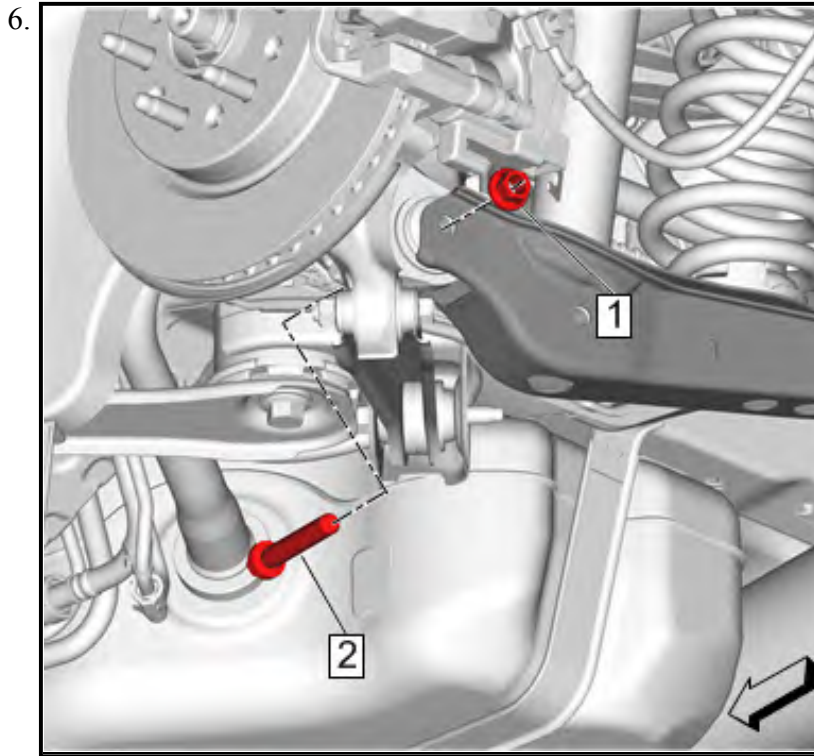
LOWER CONTROL ARM REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#)
2. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
3. Rear Suspension Lower Trailing Link - Remove - [Rear Suspension Lower Trailing Link Replacement](#)
4. Support the rear suspension lower control arm.

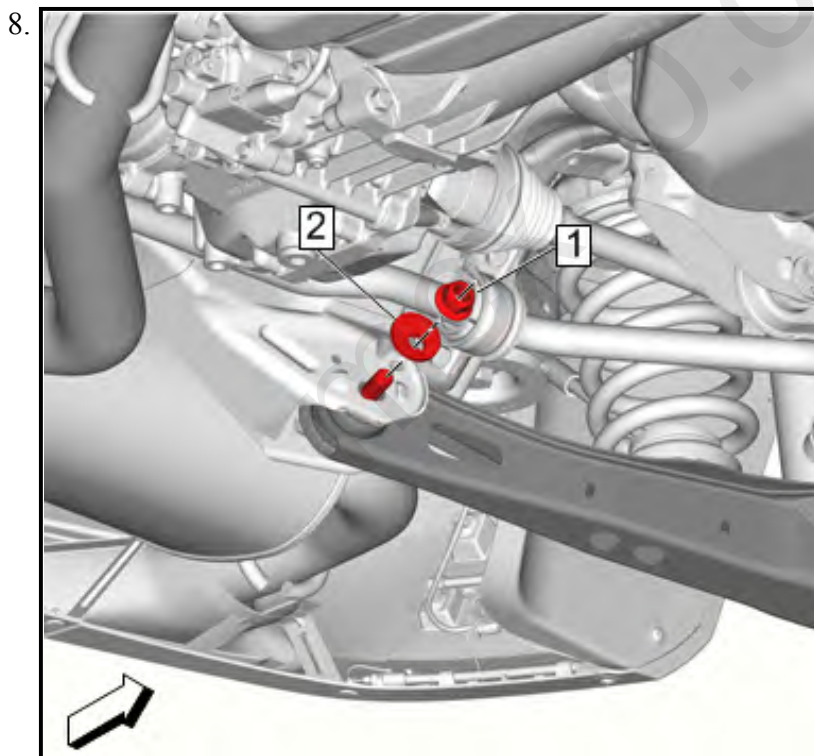


Remove the rear shock absorber nut (1) and rear shock absorber bolt (2) from the rear suspension lower control arm and reposition the rear shock absorber. [Shock Absorber Replacement](#)



Rear Suspension Lower Control Arm Outer Nut (1) - Remove

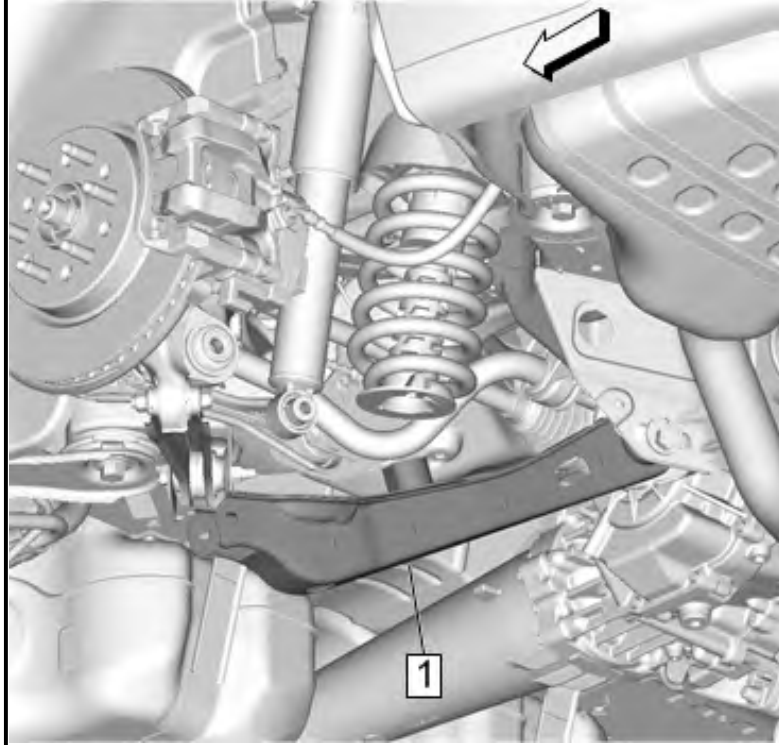
7. Rear Suspension Lower Control Arm Outer Bolt (2) - Remove and DISCARD



Rear Suspension Lower Control Arm Inner Nut (1) - Remove

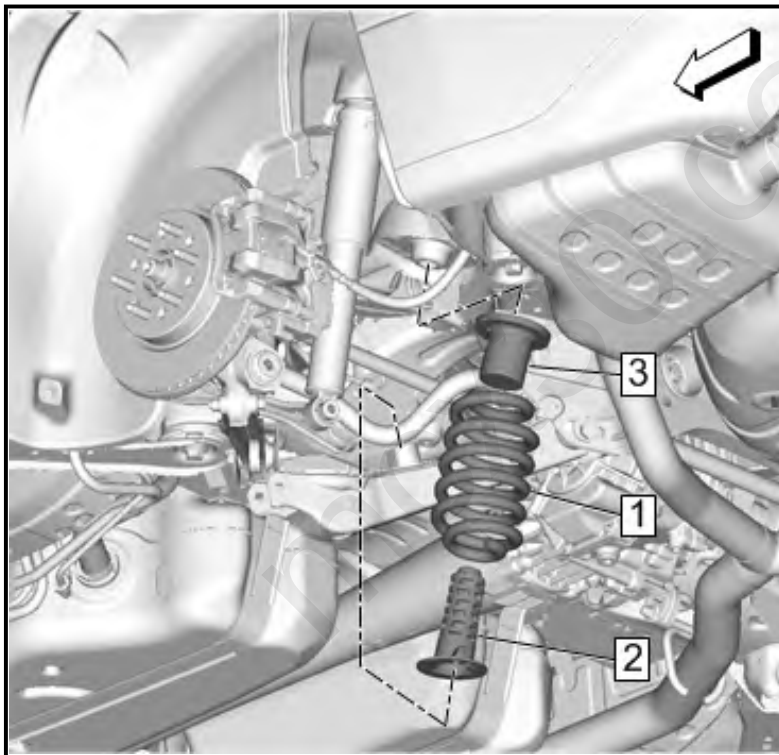
9. Rear Suspension Lower Control Arm Inner Washer (2) - Remove





Lower the rear suspension lower control arm (1) to provide clearance for the rear coil spring.

11.

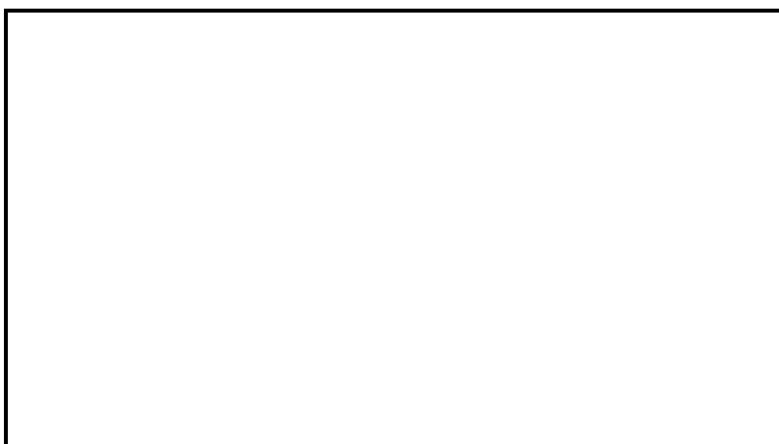


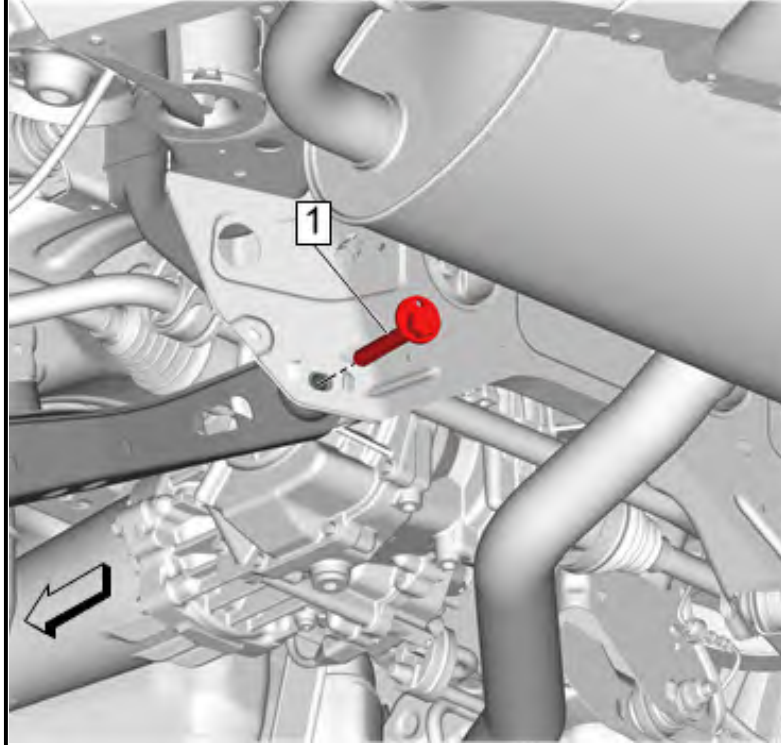
Rear Coil Spring (1) - Remove

12. Rear Coil Spring Lower Insulator (2) - Remove

13. Rear Coil Spring Insulator (3) - Remove

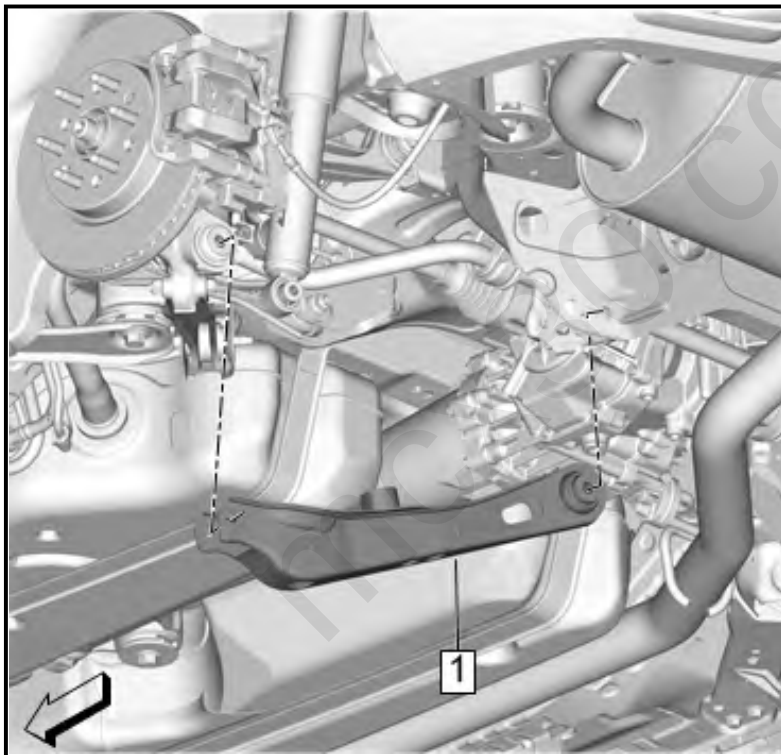
14.





Rear Suspension Lower Control Arm Inner Bolt (1) - Remove

15.

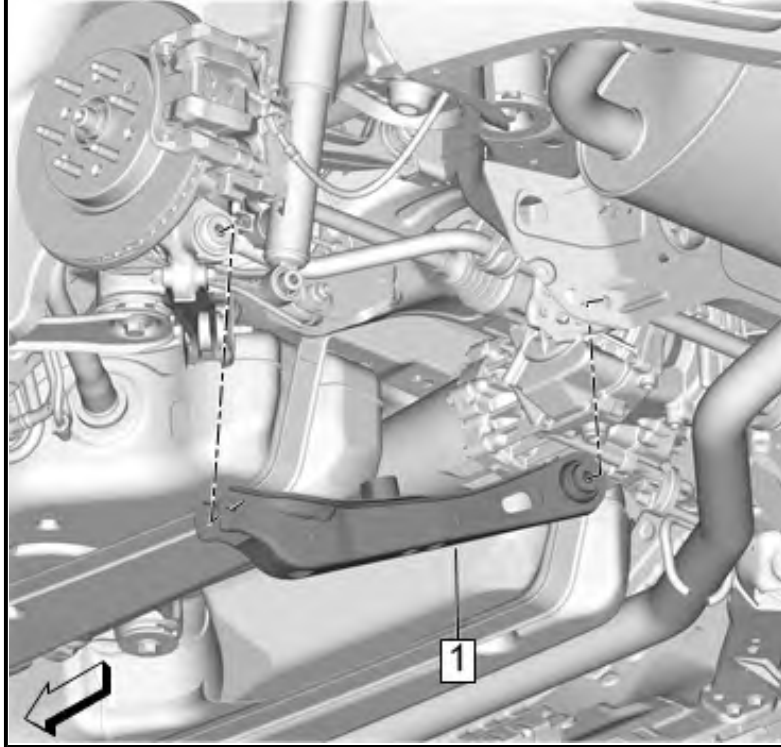


Rear Suspension Lower Control Arm (1) - Remove

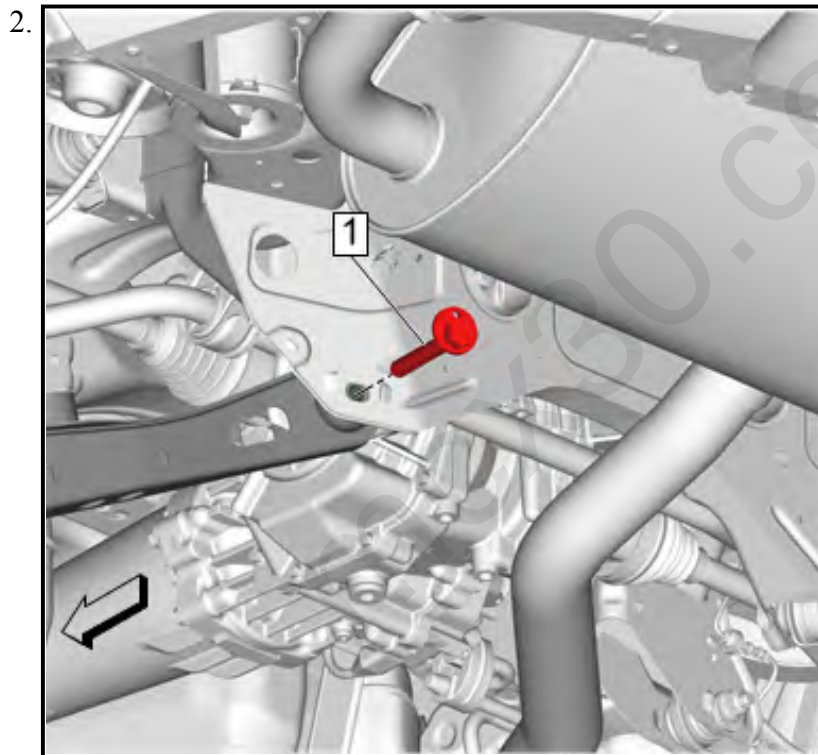
Installation Procedure

1.

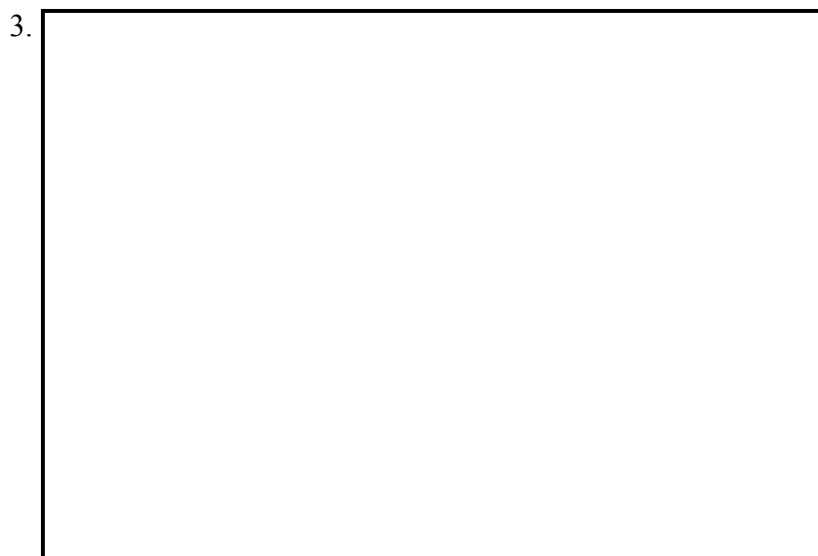


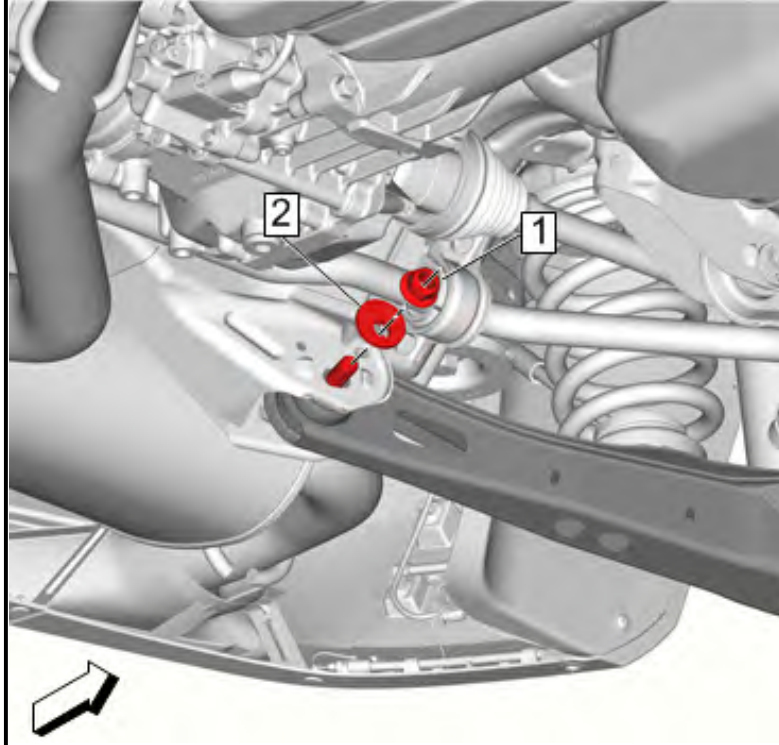


Rear Suspension Lower Control Arm (1) - Install



Rear Suspension Lower Control Arm Inner Bolt (1) - Install

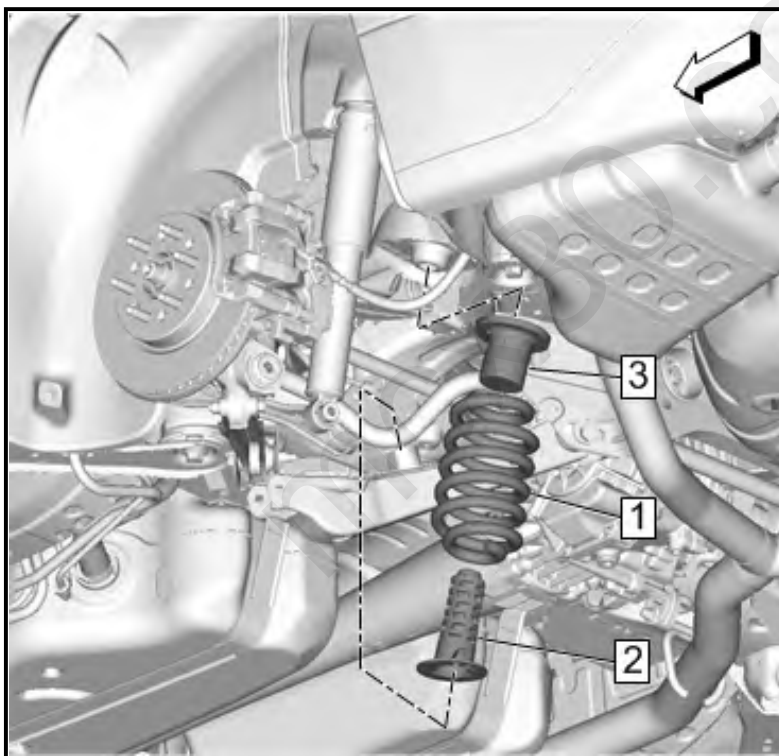




Rear Suspension Lower Control Arm Inner Washer (2) - Install

4. Rear Suspension Lower Control Arm Inner Nut (1) - Install, but do NOT tighten

5.



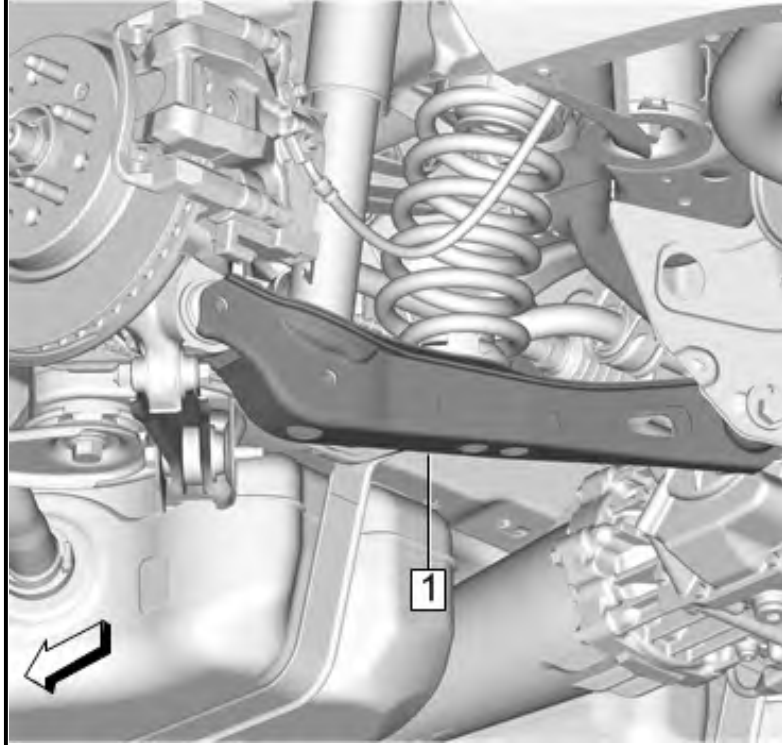
Rear Coil Spring Insulator (3) - Install

6. Rear Coil Spring Lower Insulator (2) - Install

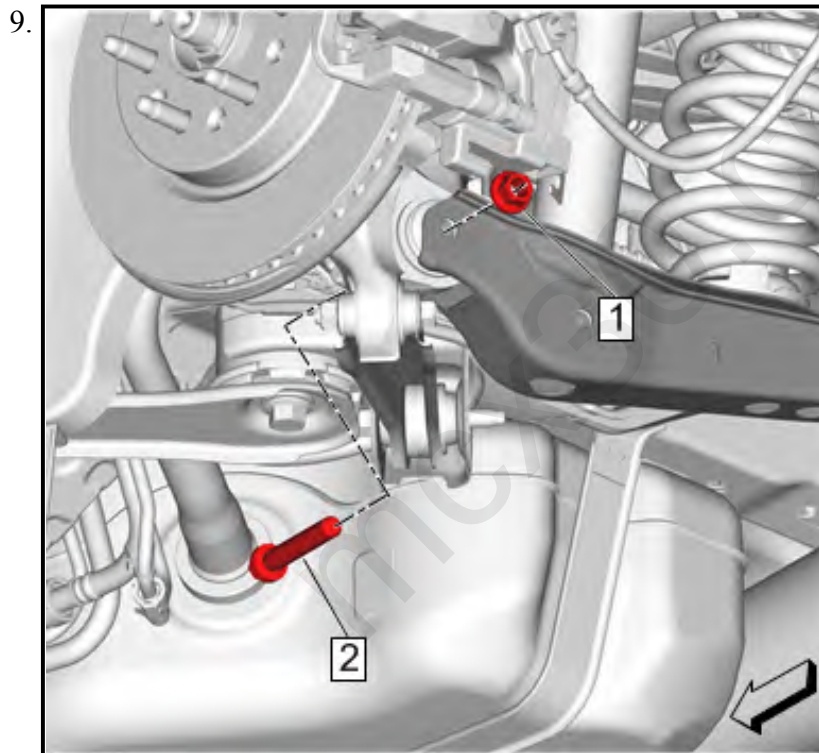
7. Rear Coil Spring (1) - Install

8.





Raise the rear suspension lower control arm (1) back into position.



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Rear Suspension Lower Control Arm Outer Bolt (2) - Install NEW

10. Rear Suspension Lower Control Arm Outer Nut (1) - Install, but do NOT tighten

CAUTION: Refer to **Fastener Caution** .

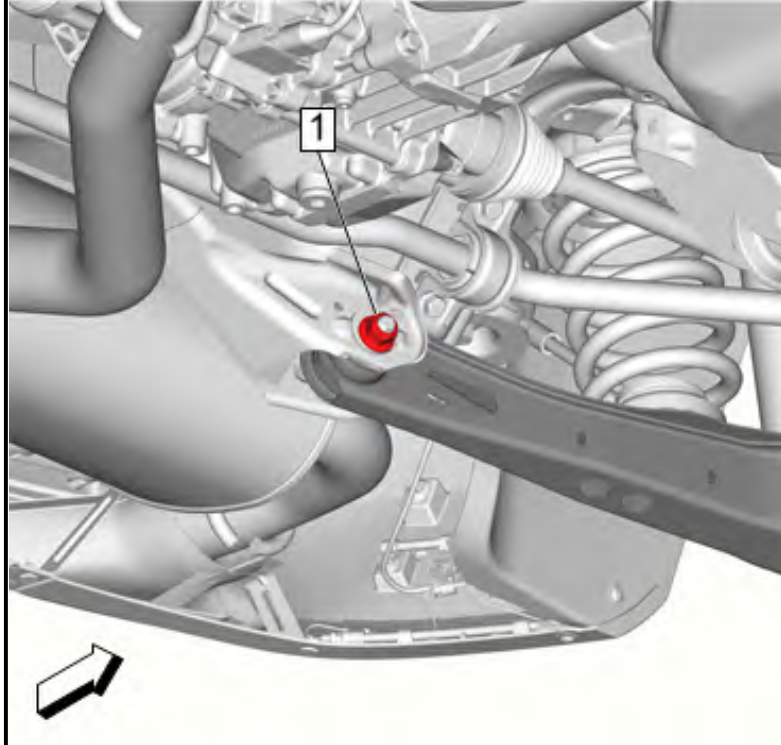
11. Rear Suspension Lower Control Arm Outer Bolt (2) - Tighten

1. First Pass: 160 N.m (118 lb ft) N.m

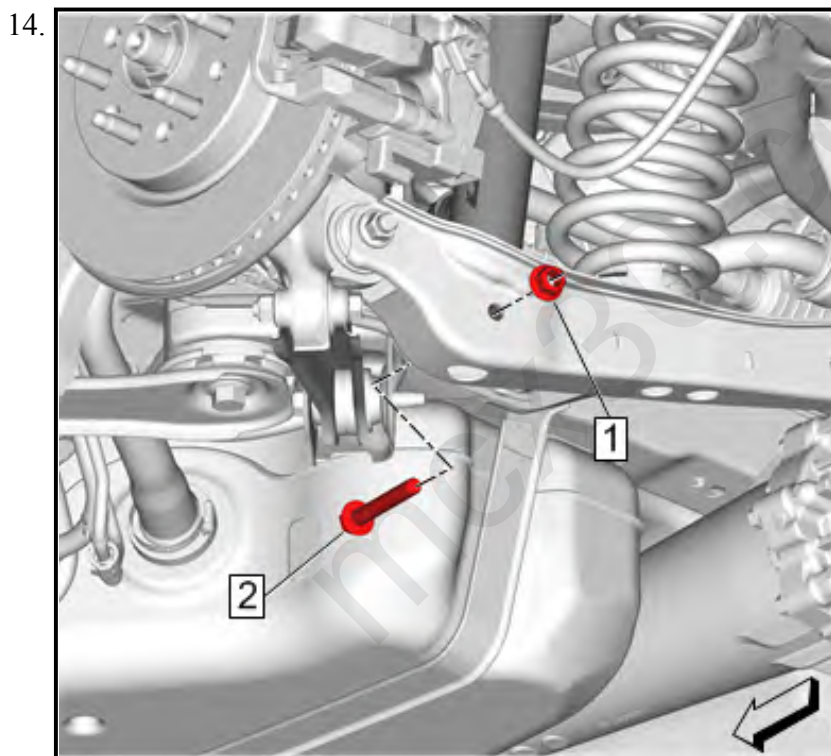
2. Final Pass: (90 - 105 degrees)

12.





13. Rear Suspension Lower Control Arm Inner Nut (1) - Tighten 160 N.m (118 lb ft)



Align the rear shock absorber to the rear suspension lower control arm, install the rear shock absorber bolt (2) and the rear shock absorber nut (1). [Shock Absorber Replacement](#)

15. Rear Suspension Lower Trailing Link - Install - [Rear Suspension Lower Trailing Link Replacement](#)

16. Remove the support from the rear suspension lower control arm.

17. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#) .

18. Remove the support and lower the vehicle.

19. Verify the rear camber specifications and adjust as necessary. [Rear Camber Adjustment](#)

WHEEL STUD REPLACEMENT

Special Tools

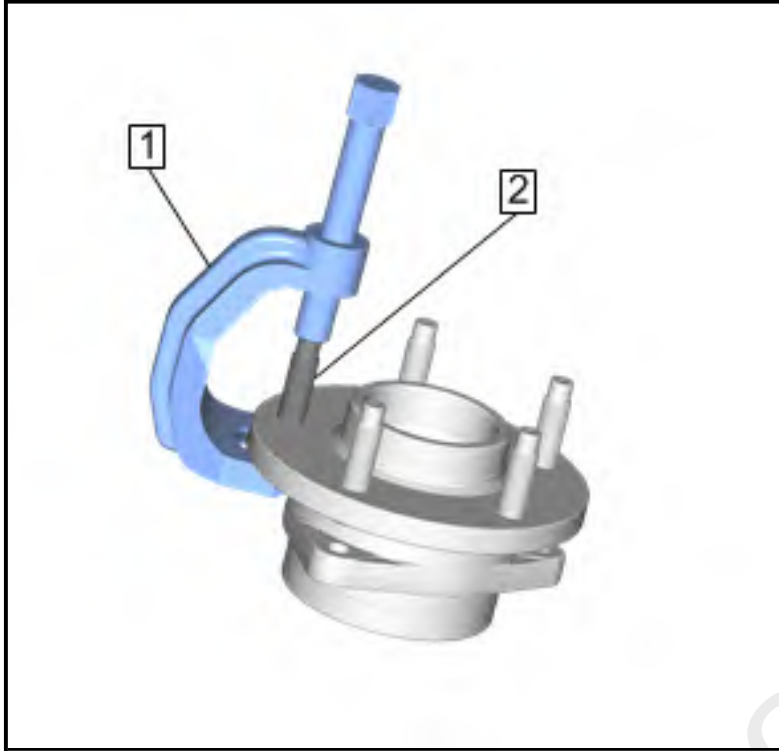
CH-43631 Ball Joint Remover

Equivalent regional tools: [Special Tools](#).

Removal Procedure

1. Remove the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#)
2. Rear Wheel Bearing and Hub Assembly - Remove - [Rear Wheel Bearing and Hub Replacement \(AWD\)](#)[Rear Wheel Bearing and Hub Replacement \(FWD\)](#)

3.

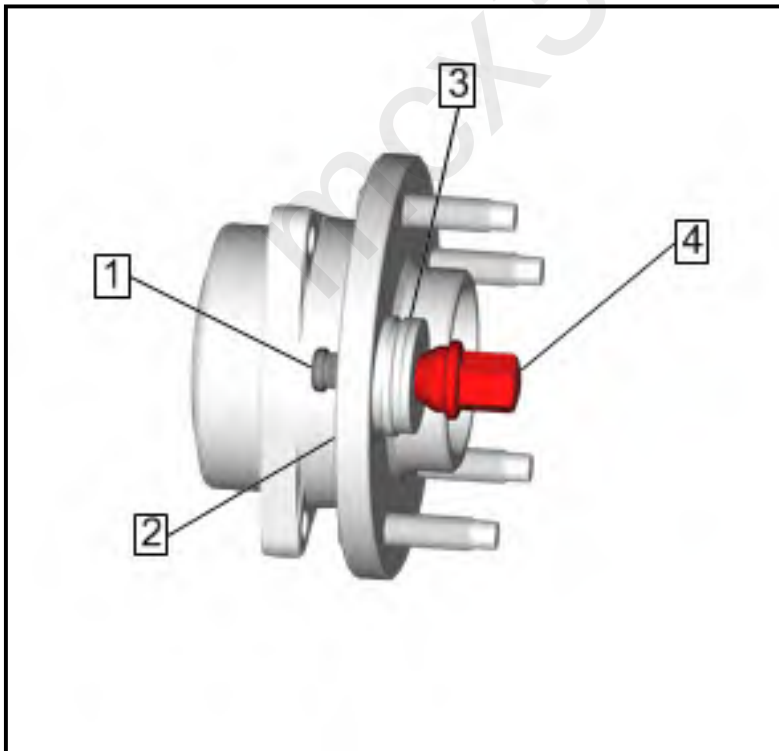


Position the wheel bearing and hub assembly in a suitable vise.

4. Use the **CH-43631** ball joint remover (1) to remove and discard the wheel stud (2).

Installation Procedure

1.



Install the NEW wheel stud (1) into the wheel bearing hub flange (2).

2. Add enough washers (3) in order to draw the stud into the hub flange (2).
3. Install the wheel nut (4) against the washers (3).
4. Tighten the wheel nut (4) until the head of the wheel stud (1) is fully seated against the back of the bearing hub flange (2).
5. Remove the wheel nut (4) and the washers (3).

6. Remove the wheel bearing and hub assembly from the vise.
7. Rear Wheel Bearing and Hub Assembly - Install - [Rear Wheel Bearing and Hub Replacement \(AWD\)](#)[Rear Wheel Bearing and Hub Replacement \(FWD\)](#).
8. Install the rear tire and wheel assembly. [Tire and Wheel Removal and Installation](#) .

DESCRIPTION AND OPERATION

REAR SUSPENSION DESCRIPTION AND OPERATION

The rear suspension system on this vehicle is of the independent link type. Rear suspension adjustment is achieved through adjustable toe links and lower control arms. The rear coil springs are retained between the body and the lower control arm. Rubber insulators isolate the coil spring at both top and bottom. The rear suspension consists of 2 shock absorbers attached to the lower control arms and the reinforced body areas.

The rear suspension system performs the following functions:

- Maintains the relationship of the rear axle to the body
- Controls the torque reaction on acceleration and braking

The suspension system consists of the following components:

- Adjust links
- Coil springs and insulators
- Knuckles
- Lower control arms
- Lower trailing links
- Shock absorbers
- Stabilizer shaft, insulators and stabilizer links
- Support assembly
- Upper lateral links
- Upper trailing links
- Wheel bearing/hub

SPECIAL TOOLS AND EQUIPMENT

SPECIAL TOOLS

Illustration	Tool Number/Description

Illustration	Tool Number/Description
	CH-43631 J-43631 Ball Joint Remover