

2007 Cadillac Escalade

2007 SUSPENSION Rear Suspension - Avalanche, Escalade, Suburban, Tahoe & Yukon

2007 SUSPENSION

Rear Suspension - Avalanche, Escalade, Suburban, Tahoe & Yukon

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Jounce Bumper Mounting Nut - 2500 Series	32 N.m	24 lb ft
Lower Control Arm to Axle Bolts	160 N.m	118 lb ft
Lower Control Arm to Frame Bolts	140 N.m	103 lb ft
Shackle to Frame Bracket Nut - 2500 Series	95 N.m	70 lb ft
Shackle to Spring Nut - 2500 Series	95 N.m	70 lb ft
Shock Absorber Nuts	95 N.m	70 lb ft
Spring to Front Hanger Nut - 2500 Series	150 N.m	110 lb ft
Stabilizer Shaft Insulator Clamp Bolts	33 N.m	24 lb ft
Stabilizer Shaft Link Nuts	75 N.m	55 lb ft
Track Bar Bolt	140 N.m	103 lb ft
U-Bolt Nut - 2500 Series	72 N.m	53 lb ft
Upper Control Arm Bolt	160 N.m	118 lb ft

REPAIR INSTRUCTIONS

REAR AXLE UPPER CONTROL ARM REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Disconnect the electronic suspension control (ESC) sensor, if equipped. Refer to **Rear Position Sensor Replacement - Electronic Suspension - Left** or **Rear Position Sensor Replacement - Electronic Suspension - Right** .

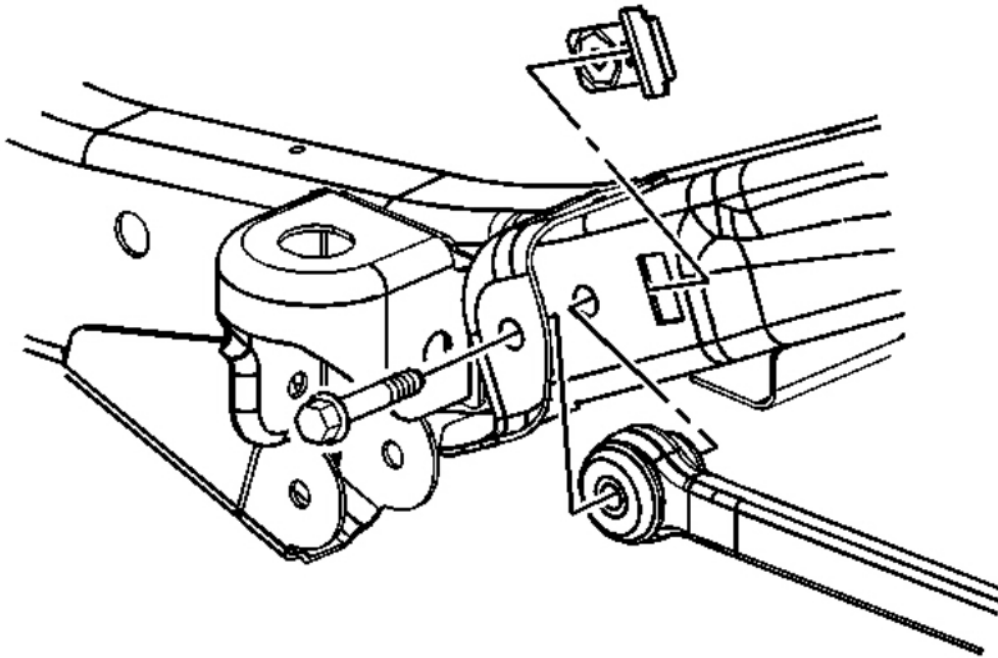


Fig. 1: Upper Control Arm-To-Frame Bracket Retaining Nut And Bolt
Courtesy of GENERAL MOTORS CORP.

3. Remove the upper control arm retaining nut and bolt from the frame bracket.

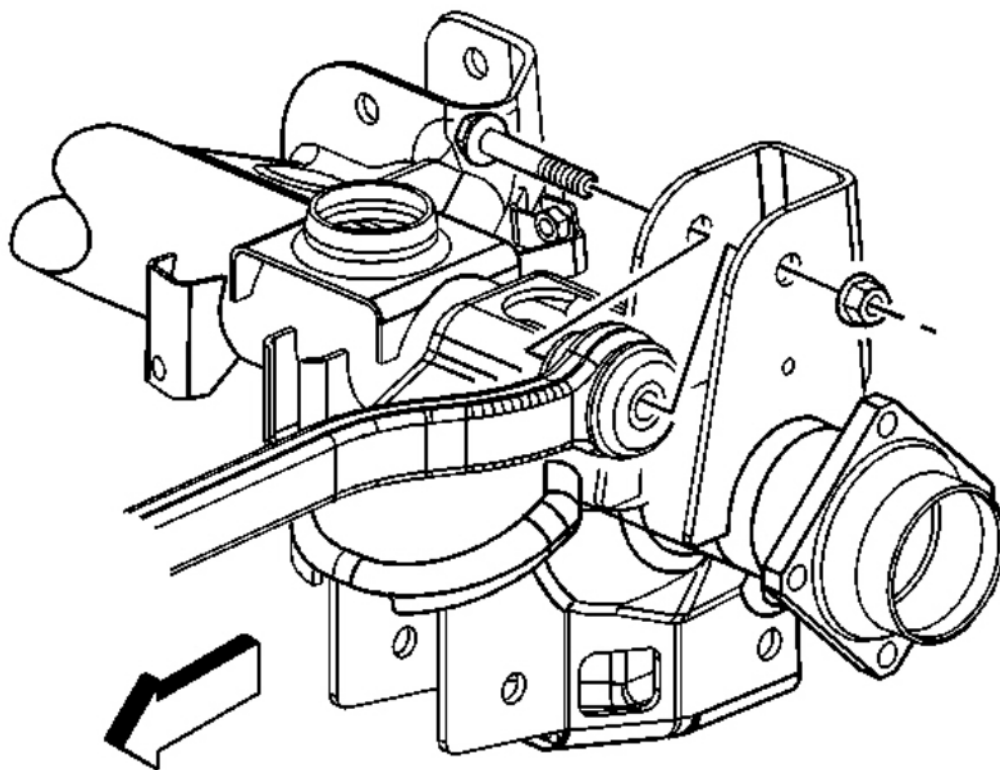


Fig. 2: Upper Control Arm-To-Axle Bracket Retaining Nut And Bolt
Courtesy of GENERAL MOTORS CORP.

4. Remove the upper control arm retaining nut and bolt from the axle bracket.
5. Remove the upper control arm.

Installation Procedure

1. Install the upper control arm.

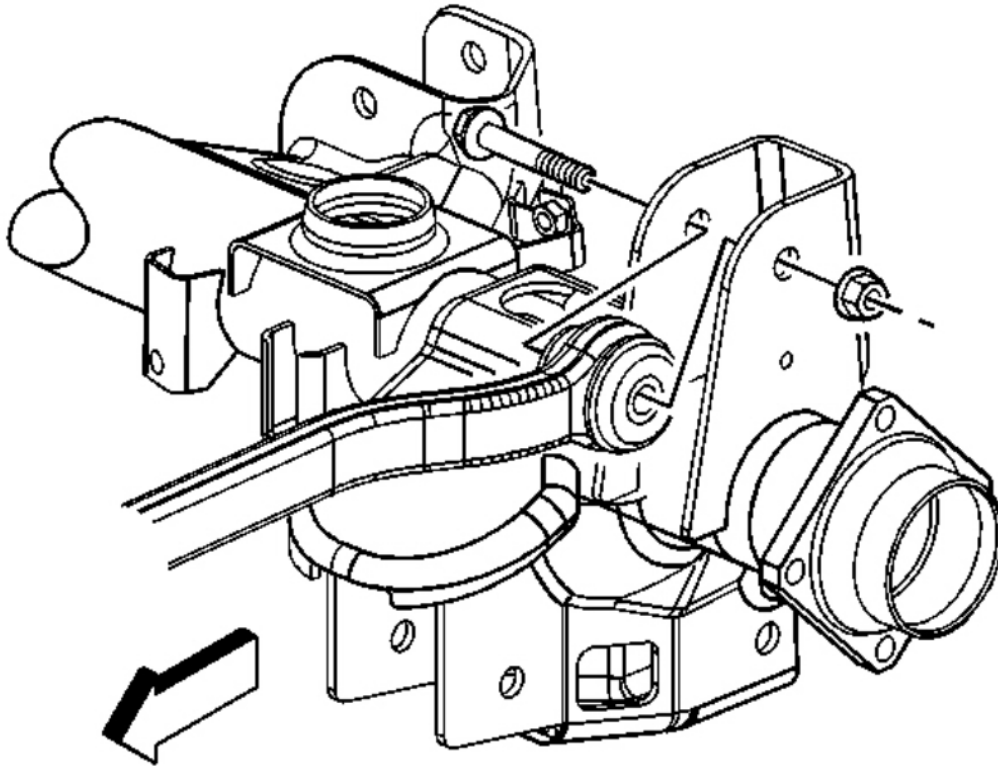


Fig. 3: Upper Control Arm-To-Axle Bracket Retaining Nut And Bolt
Courtesy of GENERAL MOTORS CORP.

2. Install the upper control arm retaining bolt and nut to the axle bracket.

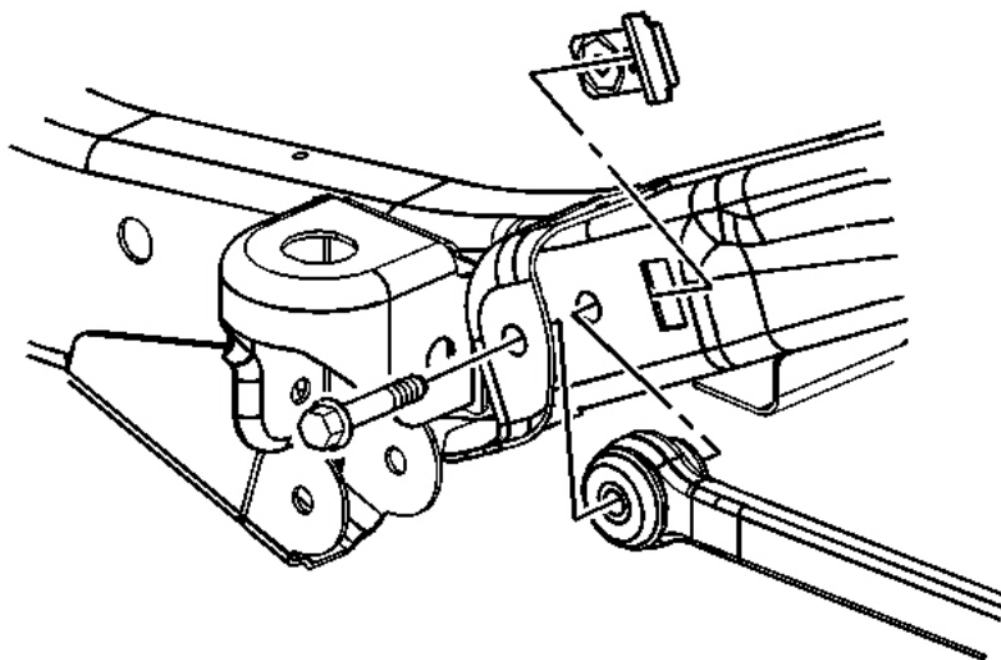


Fig. 4: Upper Control Arm-To-Frame Bracket Retaining Nut And Bolt
Courtesy of GENERAL MOTORS CORP.

3. Install the upper control arm retaining bolt to the frame bracket.

NOTE: Refer to Fastener Notice .

IMPORTANT: Do not tighten the nuts unless the suspension is at the curb height position.

4. Install the upper control arm retaining nut.

Tighten: Tighten the upper control arm retaining bolts to 160 N.m (118 lb ft).

5. Connect the ESC sensor, if equipped. Refer to Rear Position Sensor Replacement - Electronic Suspension - Left or Rear Position Sensor Replacement - Electronic Suspension - Right .
6. Lower the vehicle.

REAR AXLE LOWER CONTROL ARM REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

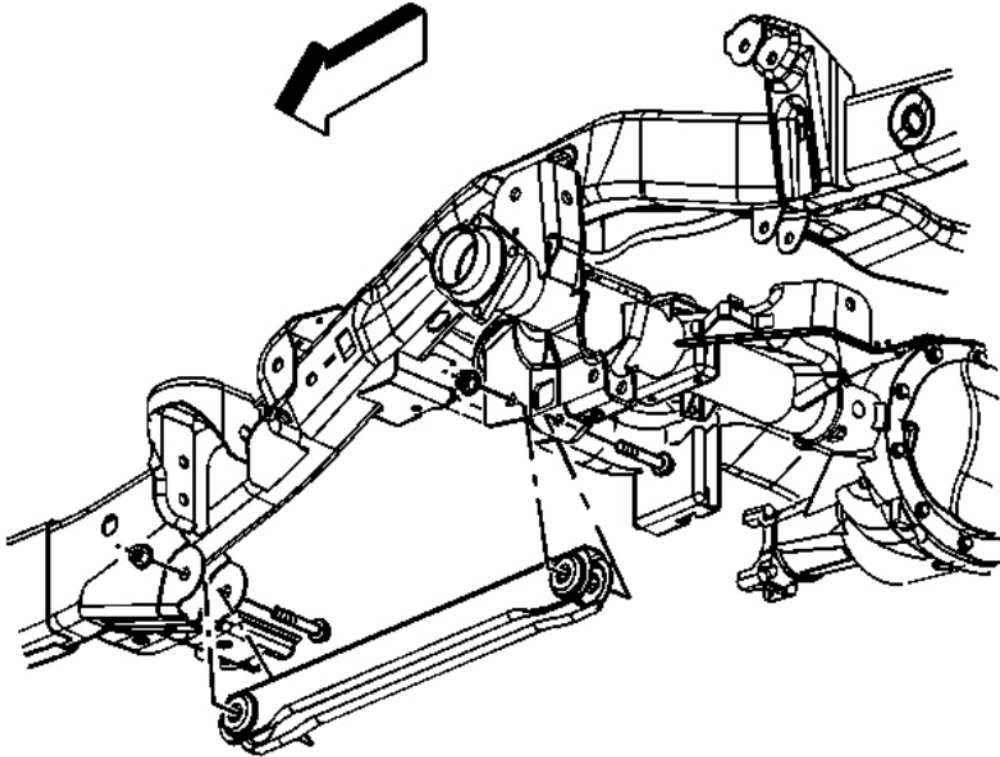


Fig. 5: Lower Control Arm, Retaining Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

2. Remove the lower control arm retaining nuts.
3. Remove the lower control arm retaining bolt.
4. Remove the lower control arm.

Installation Procedure

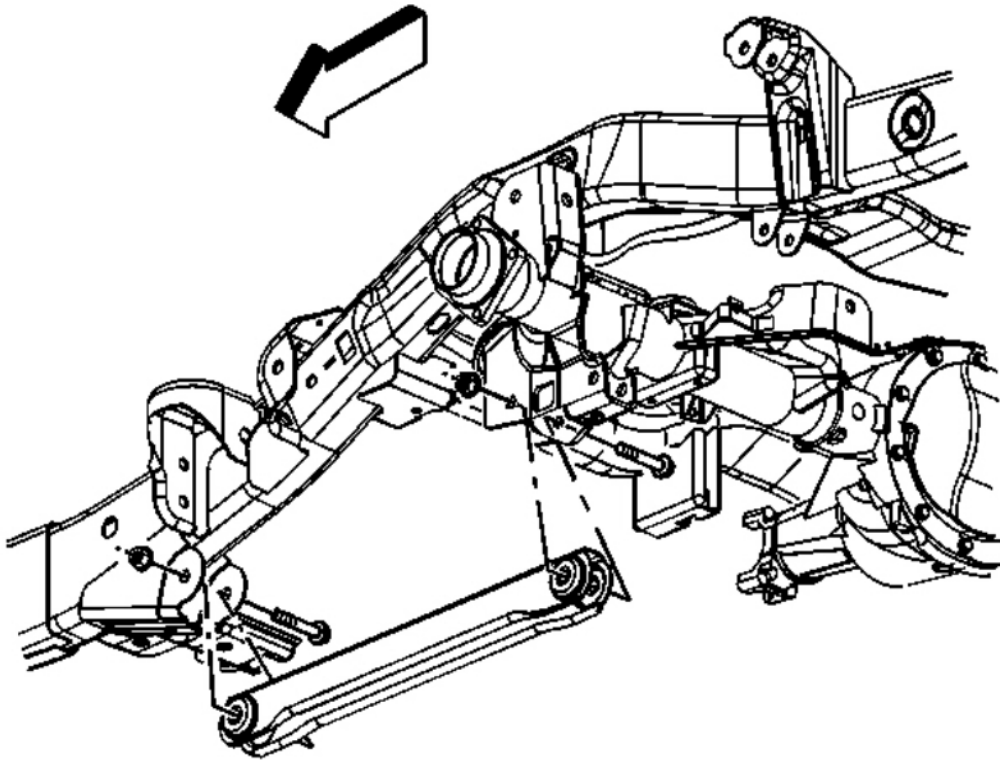


Fig. 6: Lower Control Arm, Retaining Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

1. Install the lower control arm.
2. Install the lower control arm retaining bolts.

NOTE: Refer to Fastener Notice .

IMPORTANT: Do not tighten the bolts unless the suspension is at the ride height.

3. Install the lower control arm retaining nut.

Tighten:

- Tighten the lower control arm to frame bolts to 140 N.m (103 lb ft).
- Tighten the lower control arm to axle bolts to 160 N.m (118 lb ft).

4. Remove the rear axle support.

5. Lower the vehicle.

STABILIZER SHAFT REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

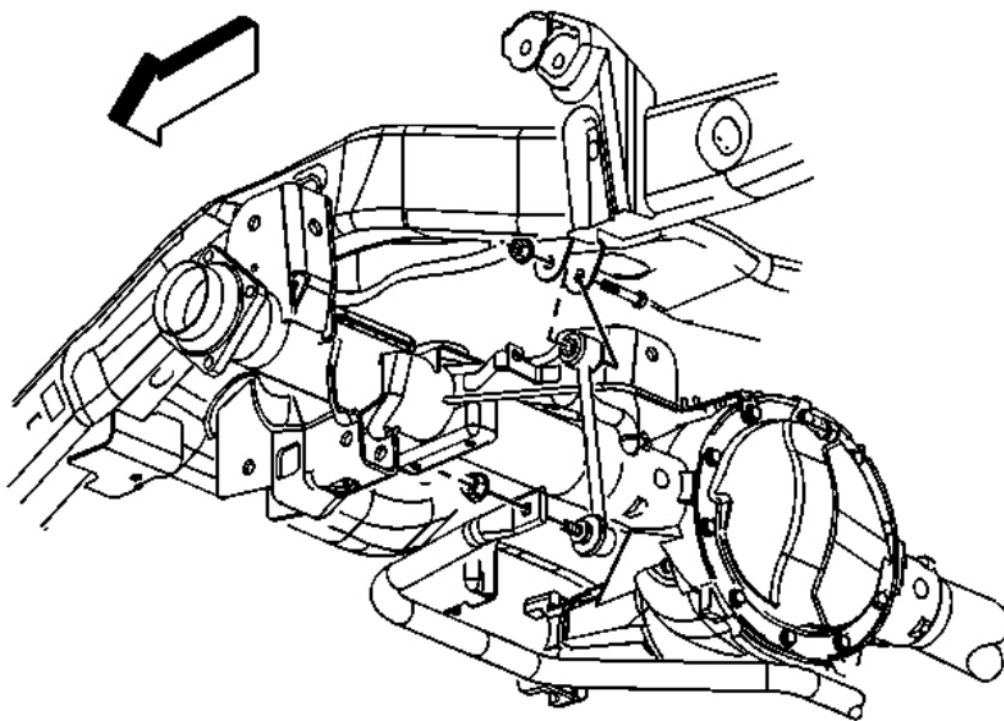


Fig. 7: View Of Stabilizer Shaft Link Nut & Ball Stud (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

2. Remove the stabilizer shaft link nut from the ball stud.

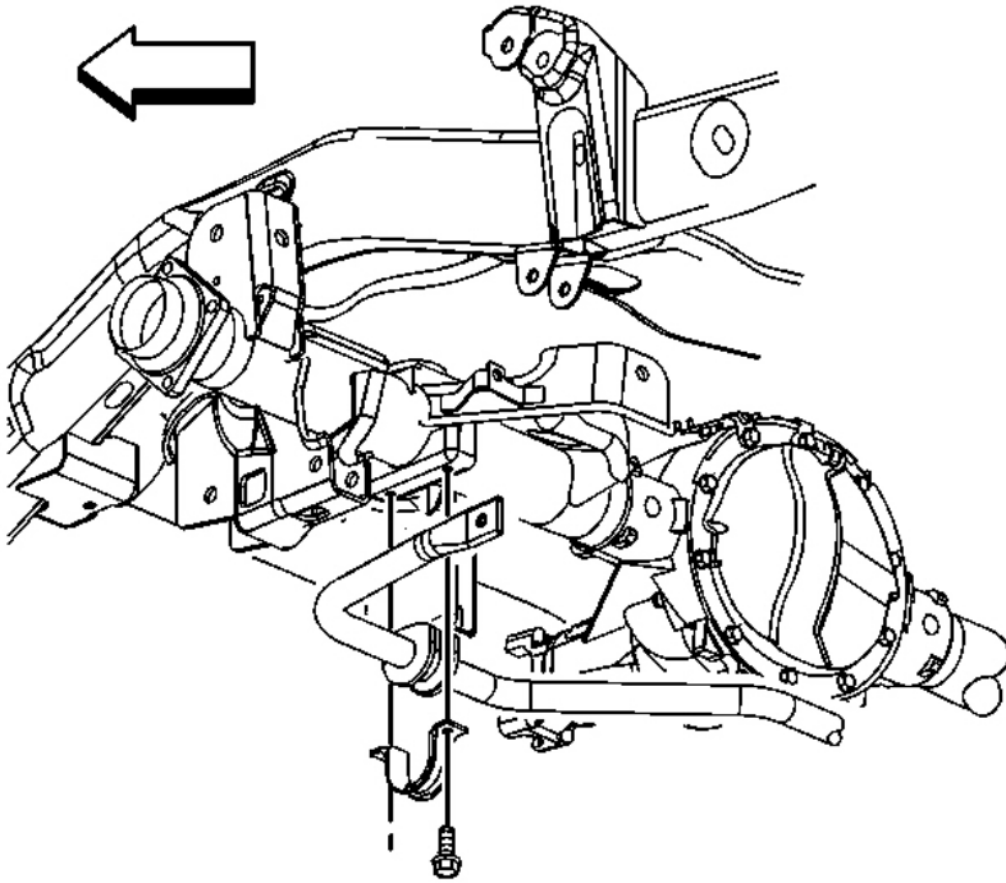


Fig. 8: View Of Stabilizer Shaft Insulator Bracket Mounting Bolts (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

3. Remove the stabilizer shaft insulator bracket mounting bolts.
4. Remove the stabilizer shaft.
5. Remove the stabilizer shaft insulators brackets.
6. Remove the stabilizer shaft insulators.

Installation Procedure

1. Install the stabilizer shaft insulators.

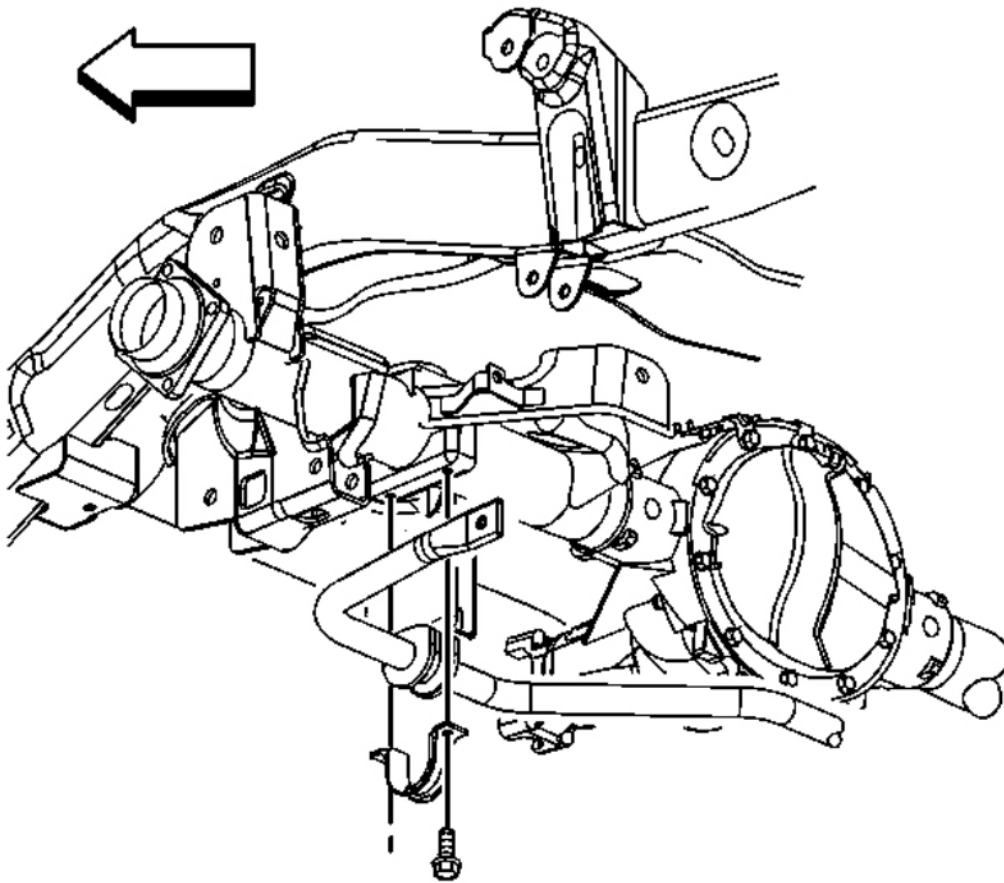


Fig. 9: View Of Stabilizer Shaft Insulator Bracket Mounting Bolts (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

2. Install the stabilizer shaft.
3. Install the stabilizer shaft insulator brackets to the rear axle.
4. Install the stabilizer shaft bracket mounting bolts.

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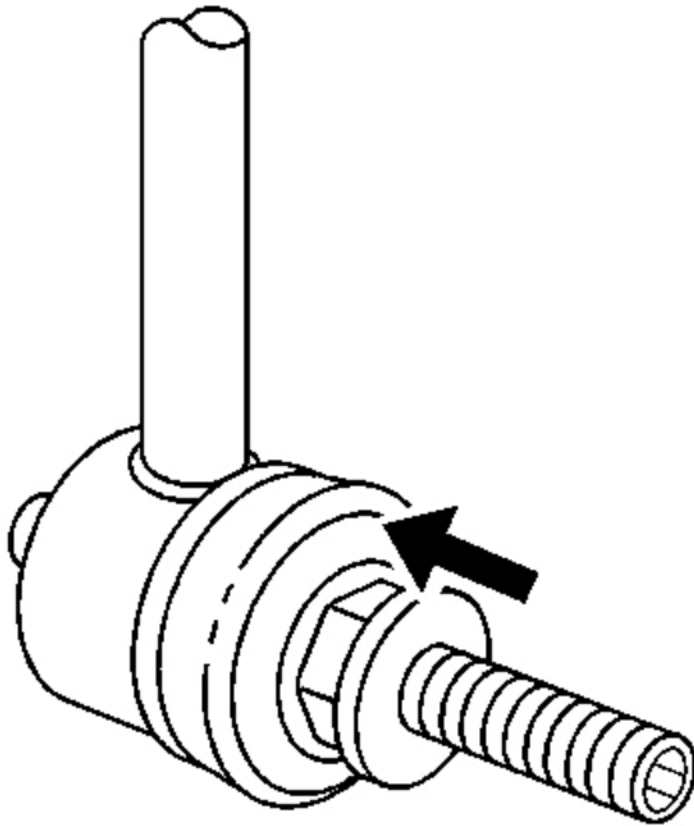


Fig. 10: View Of Stabilizer Shaft Bracket Mounting Bolts (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

IMPORTANT: When tightening the lower link nut verify that the inner jam nut bottoms out on the ball stud.

5. Install the stabilizer shaft link nut to the ball stud.

Tighten:

1. Tighten the ball stud to stabilizer shaft nut to 75 N.m (55 lb ft).
2. Tighten the insulator bracket bolts to 33 N.m (24 lb ft).

6. Lower the vehicle.

STABILIZER SHAFT INSULATOR REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

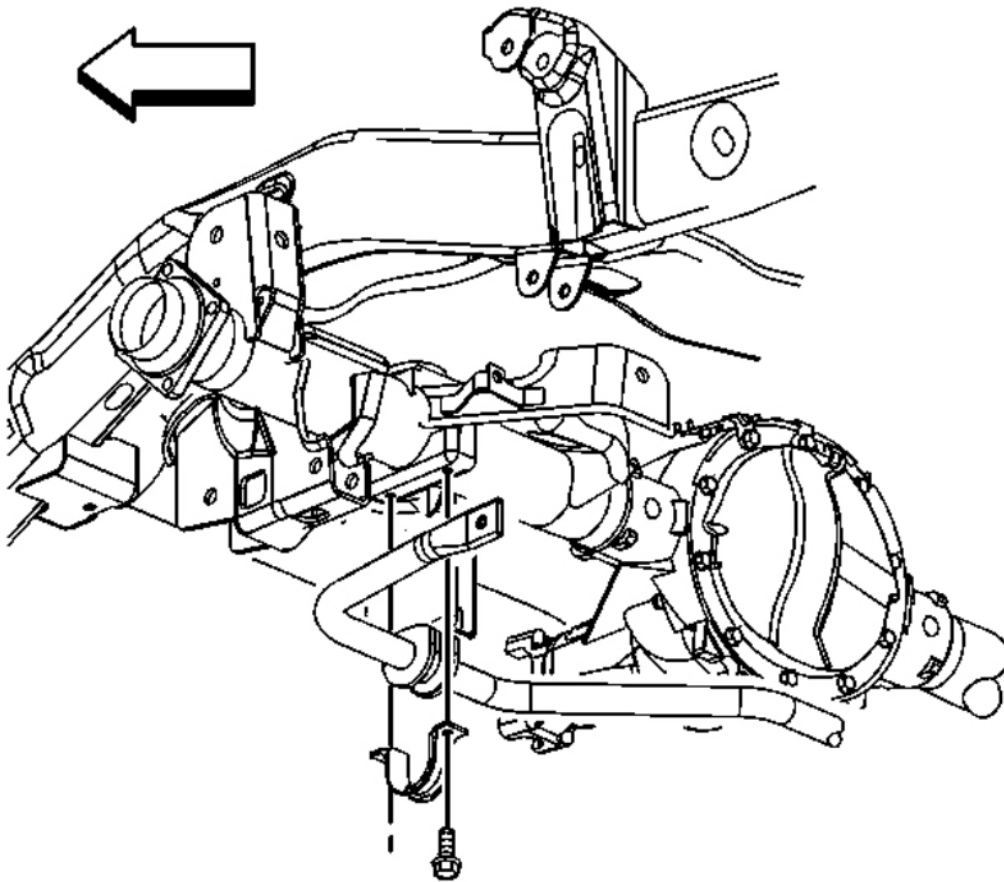


Fig. 11: View Of Stabilizer Shaft Insulator Bracket Mounting Bolts (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

2. Remove the stabilizer shaft insulator bracket mounting bolts.
3. Remove the stabilizer shaft insulators brackets.
4. Lower the stabilizer shaft and remove the stabilizer shaft insulators.

5. Inspect all of the parts for wear or damage.

Installation Procedure

IMPORTANT: Place the stabilizer shaft insulators on the stabilizer bar with the slits facing toward the front of the vehicle.

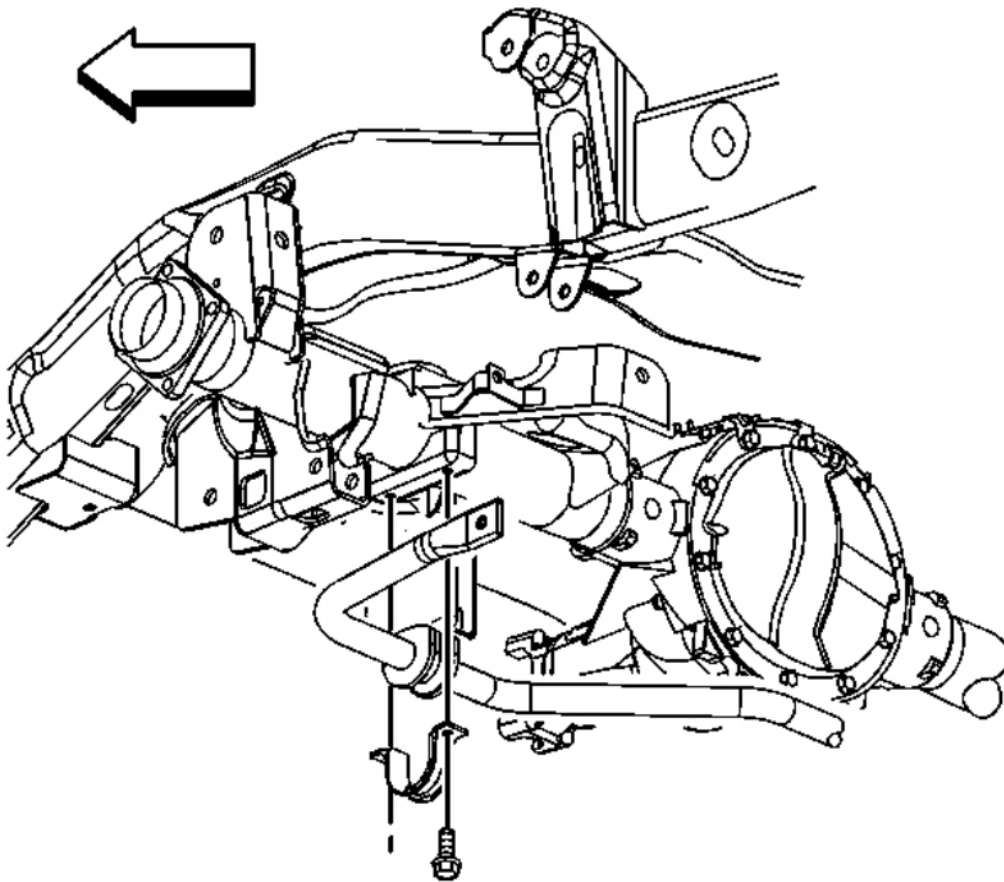


Fig. 12: View Of Stabilizer Shaft Insulator Bracket Mounting Bolts (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

1. Install the stabilizer shaft insulators to the stabilizer bar.
2. Install the stabilizer shaft insulator brackets to the rear axle.

NOTE: Refer to Fastener Notice .

3. Install the stabilizer shaft bracket mounting bolts.

Tighten: Tighten the insulator bracket bolts to 33 N.m (24 lb ft).

4. Lower the vehicle.

STABILIZER SHAFT LINK REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

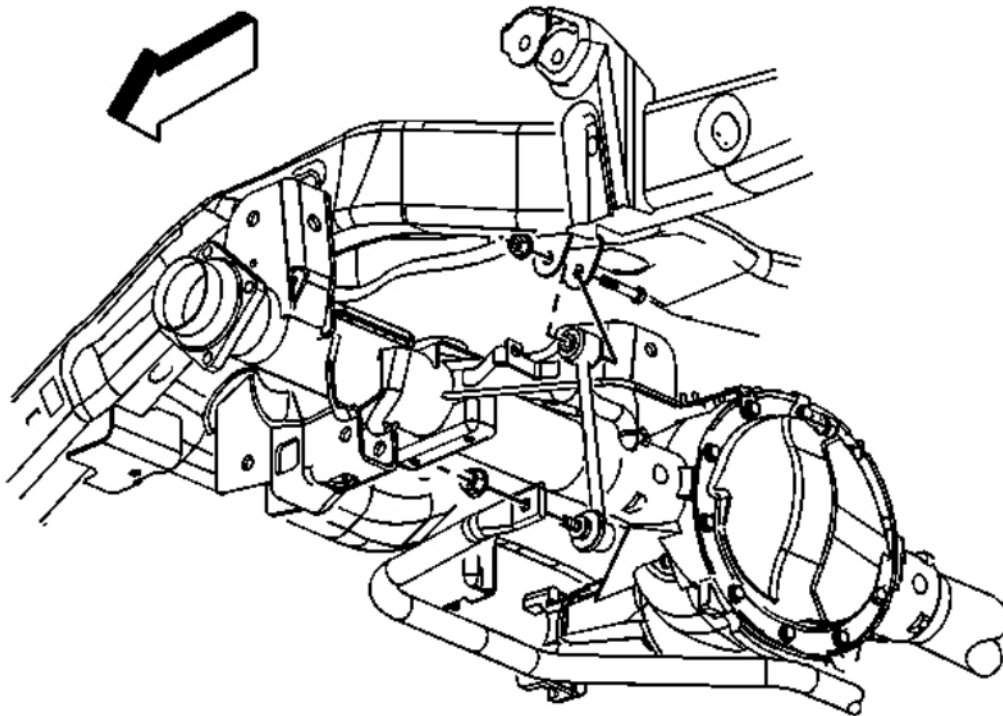


Fig. 13: View Of Stabilizer Shaft Link Nut & Ball Stud (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

2. Remove the stabilizer shaft link nut and bolt from the frame bracket.
3. Remove the stabilizer shaft link nut from the ball stud.
4. Remove the stabilizer shaft link.

Installation Procedure

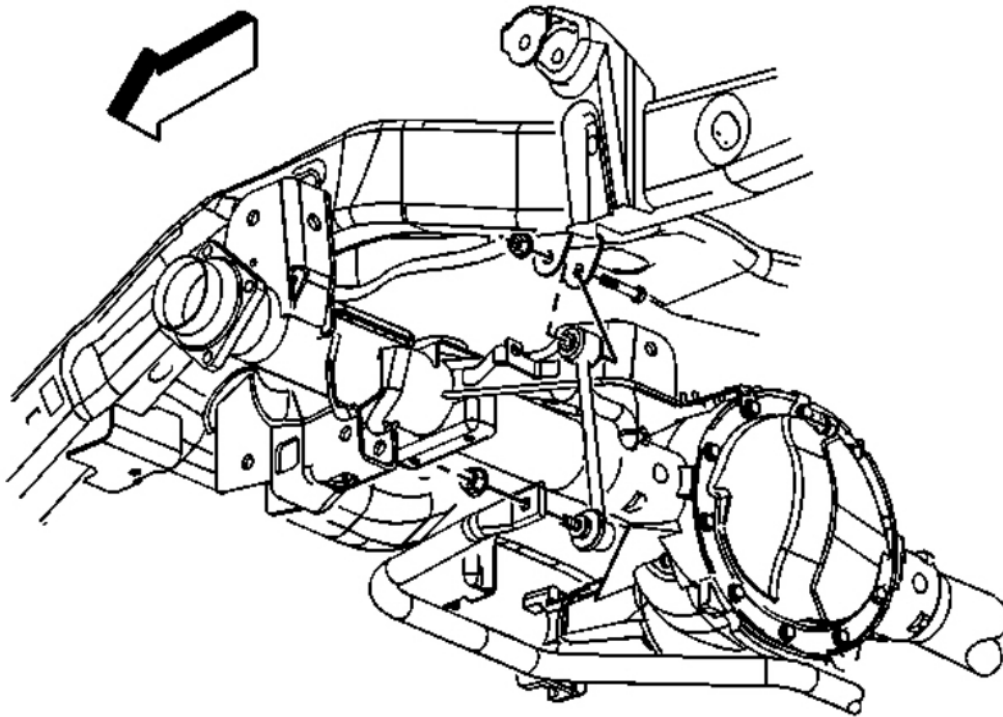


Fig. 14: View Of Stabilizer Shaft Link Nut & Ball Stud (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

1. Install the stabilizer shaft link.

IMPORTANT: When tightening the lower link nut, verify that the inner jam nut bottoms out on the ball stud. To ensure that the nut does not back away during the tightening process, hold the stud with the appropriate tool.

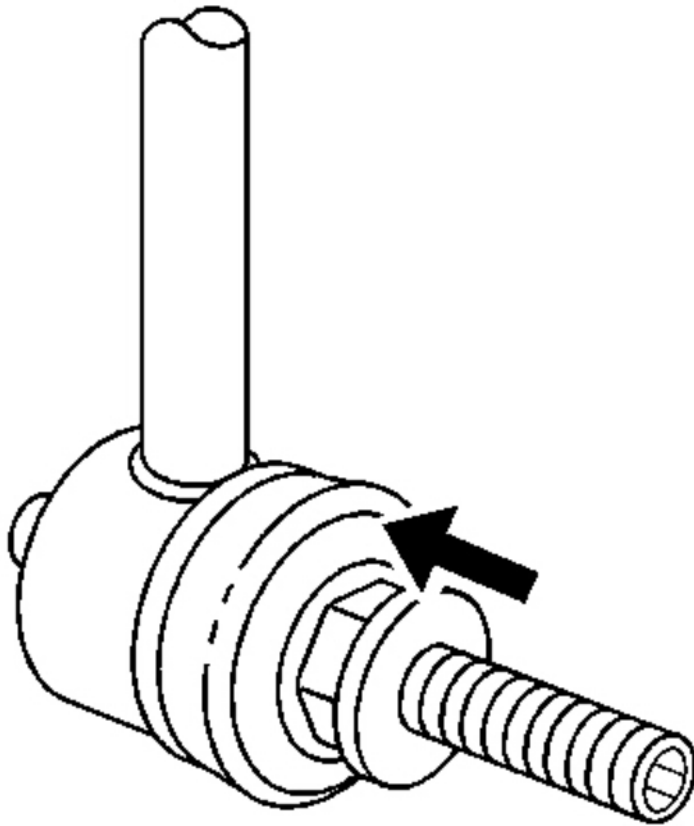


Fig. 15: View Of Stabilizer Shaft Bracket Mounting Bolts (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

2. Install the stabilizer shaft link nut to the ball stud.

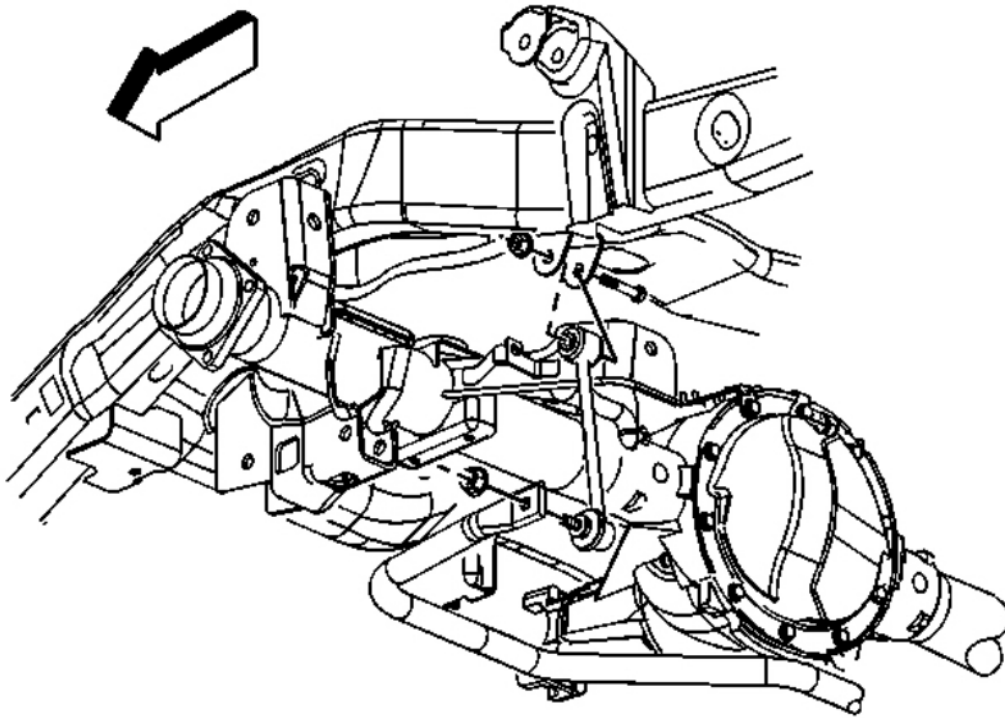


Fig. 16: View Of Stabilizer Shaft Link Nut & Ball Stud (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

3. Install the stabilizer shaft link nut and bolt to the frame bracket.

Tighten:

1. Tighten the link to frame bracket nut to 75 N.m (55 lb ft).
 2. Tighten the ball stud to stabilizer shaft nut to 75 N.m (55 lb ft).
4. Lower the vehicle.

SHOCK ABSORBER REPLACEMENT (1500 SERIES)

Removal Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

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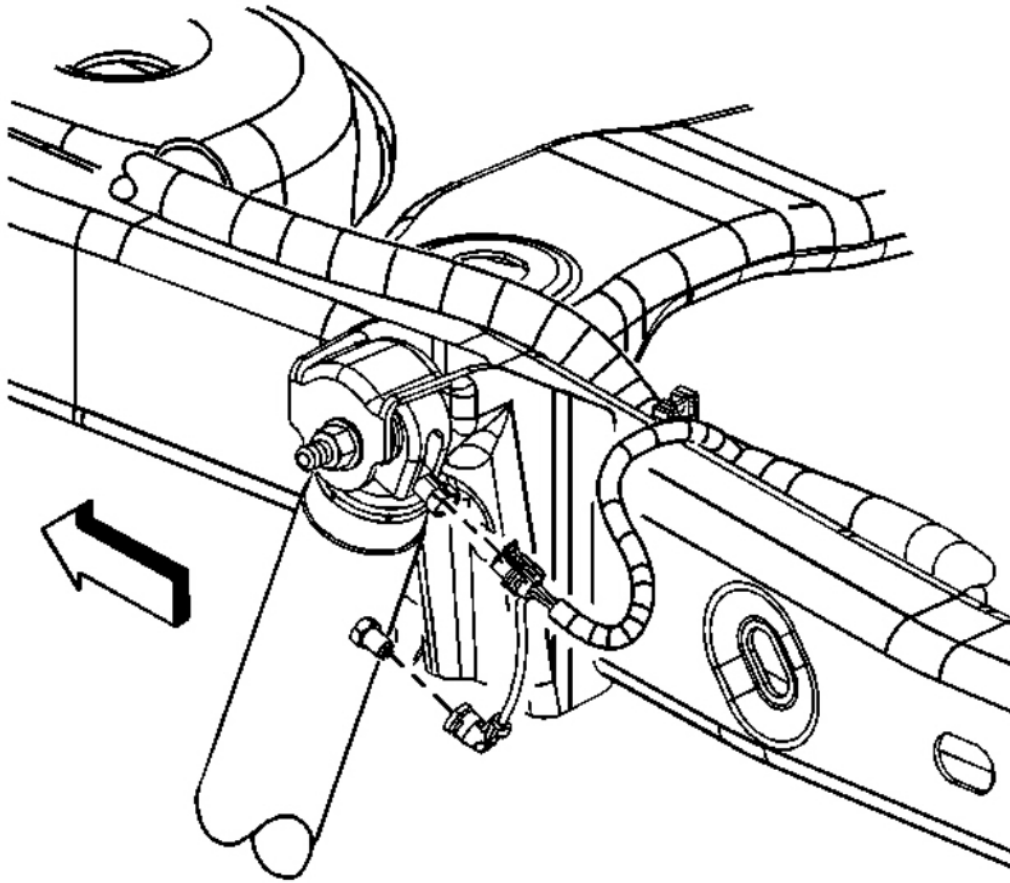


Fig. 17: ESC Electrical Connector & Air Line
Courtesy of GENERAL MOTORS CORP.

2. Disconnect the electrical connector and air line if equipped with electronic suspension control (ESC).
3. Support the rear axle.

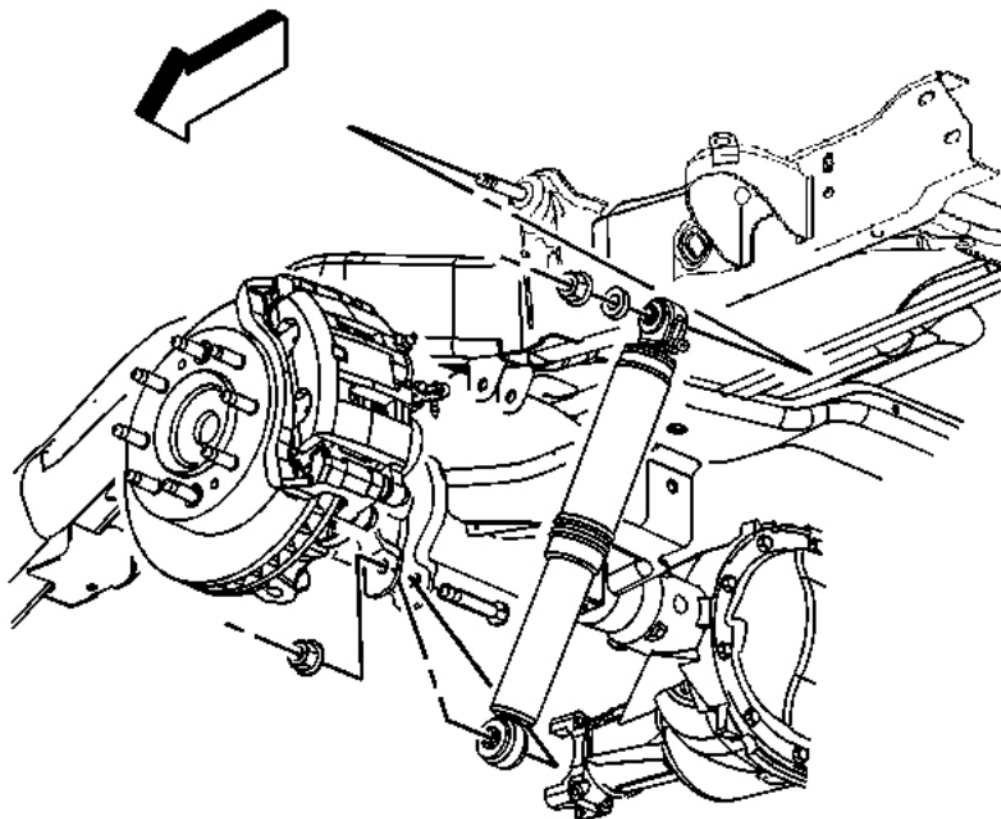


Fig. 18: View Of Shock Absorber Upper & Lower Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

4. Remove the upper shock absorber nut and the bolt.
5. Remove the lower shock absorber nut and the bolt.
6. Remove the shock absorber.

Installation Procedure

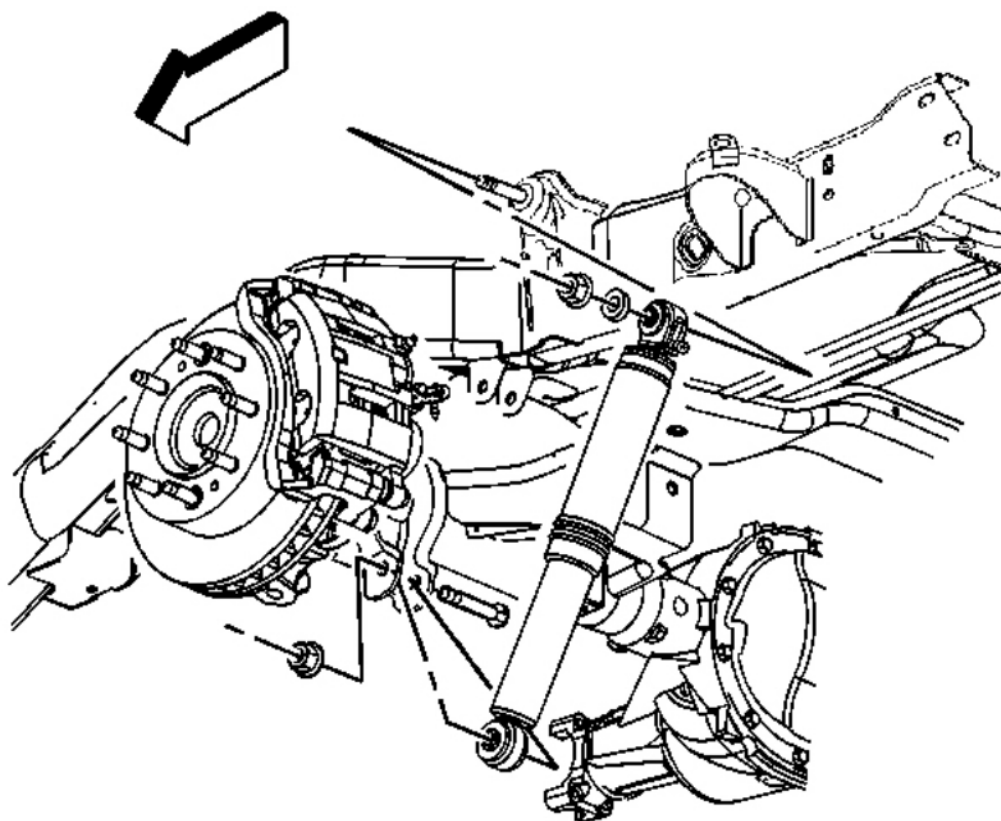


Fig. 19: View Of Shock Absorber Upper & Lower Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

1. Install the shock absorber.
2. Install the upper shock absorber nut and bolt.

NOTE: Refer to Fastener Notice .

3. Install the lower shock absorber nut and bolt.

Tighten: Tighten the upper and lower shock absorber nuts to 95 N.m (70 lb ft).

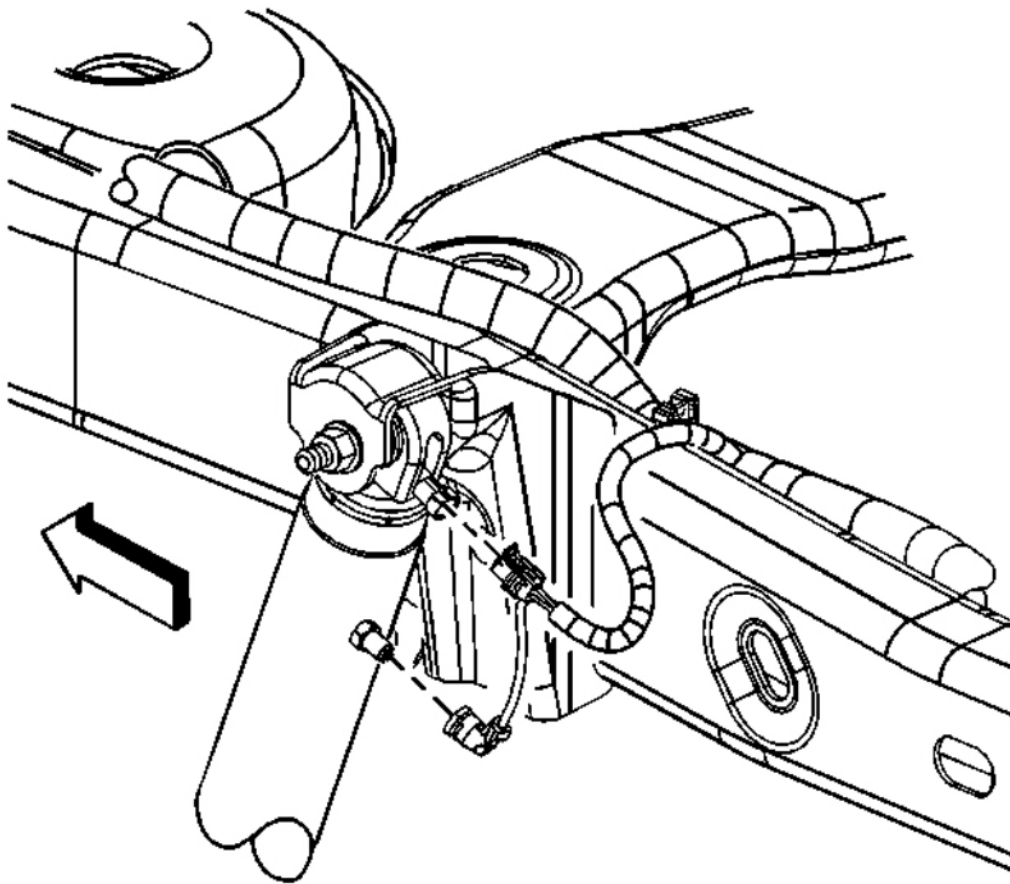


Fig. 20: ESC Electrical Connector & Air Line
Courtesy of GENERAL MOTORS CORP.

4. Connect the electrical connector and air line if equipped with the ESC.
5. Remove the support from the rear axle.
6. Remove the safety stands.
7. Lower the vehicle.

SHOCK ABSORBER REPLACEMENT (2500 SERIES)

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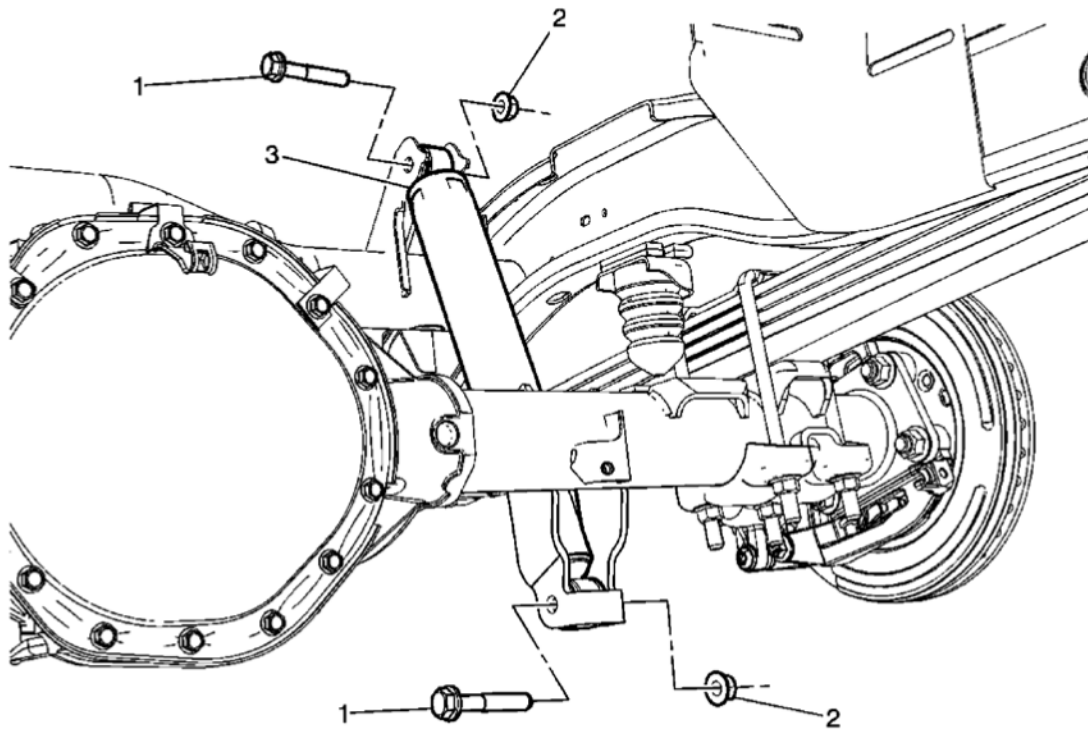


Fig. 21: View Of Shock Absorber, Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

Shock Absorber Replacement (2500 Series)

Callout	Component Name
Preliminary Procedure: Raise the vehicle on a hoist. Refer to <u>Lifting and Jacking the Vehicle</u> .	
1	Shock Absorber Bolt (Qty: 2)
2	Shock Absorber Nut (Qty: 2)
	NOTE: Refer to <u>Fastener Notice</u> .
	Tighten: 95 N.m (70 lb ft)
3	Shock Absorber

SHOCK ABSORBER DISPOSAL

CAUTION: 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.

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CAUTION: 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.

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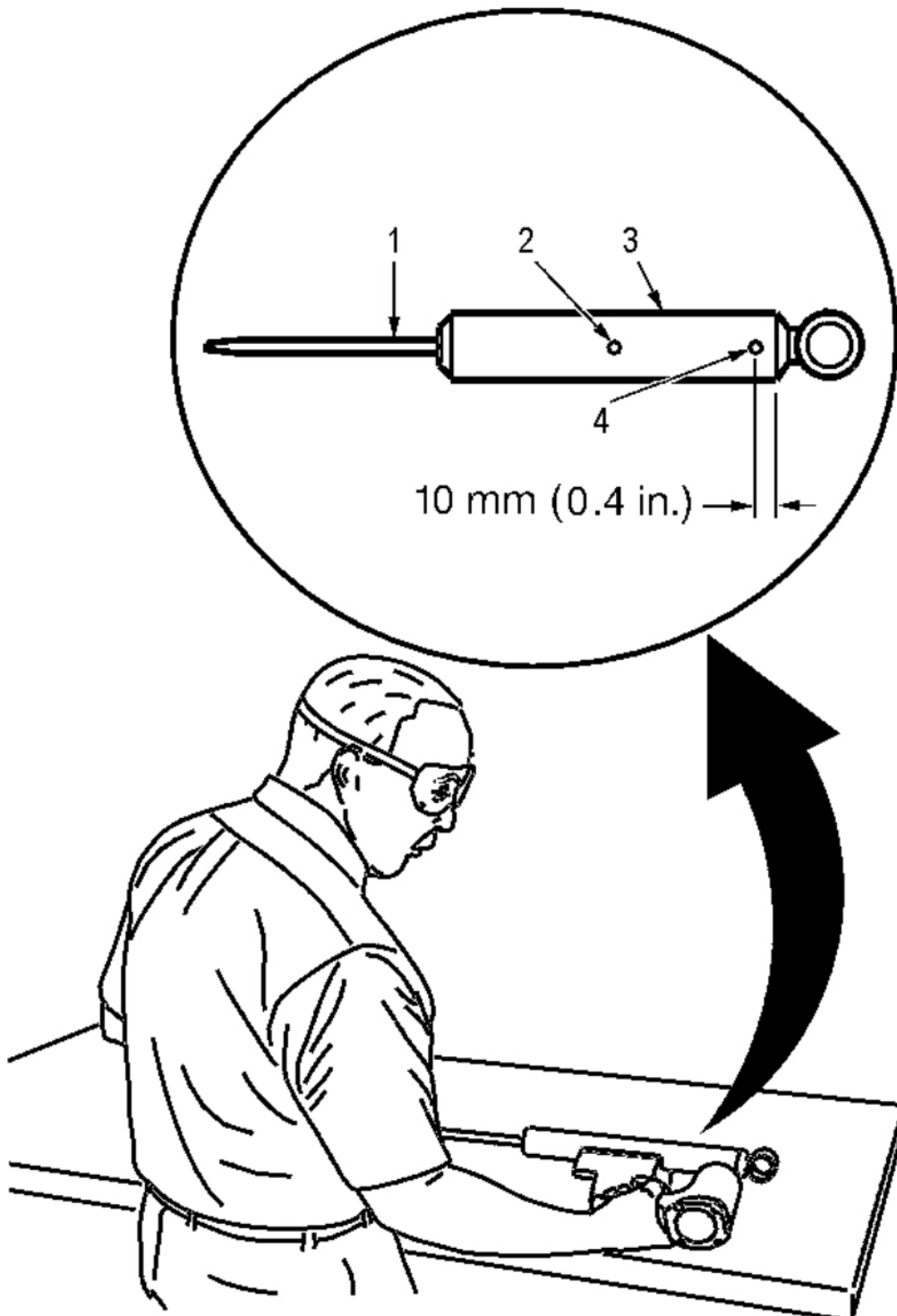


Fig. 22: Drilling Hole In Shock Absorber At Centerpunched Locations
Courtesy of GENERAL MOTORS CORP.

1. Make an indentation 10 mm (0.4 in) from the bottom (4) 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.

COIL SPRING REPLACEMENT

Removal Procedure

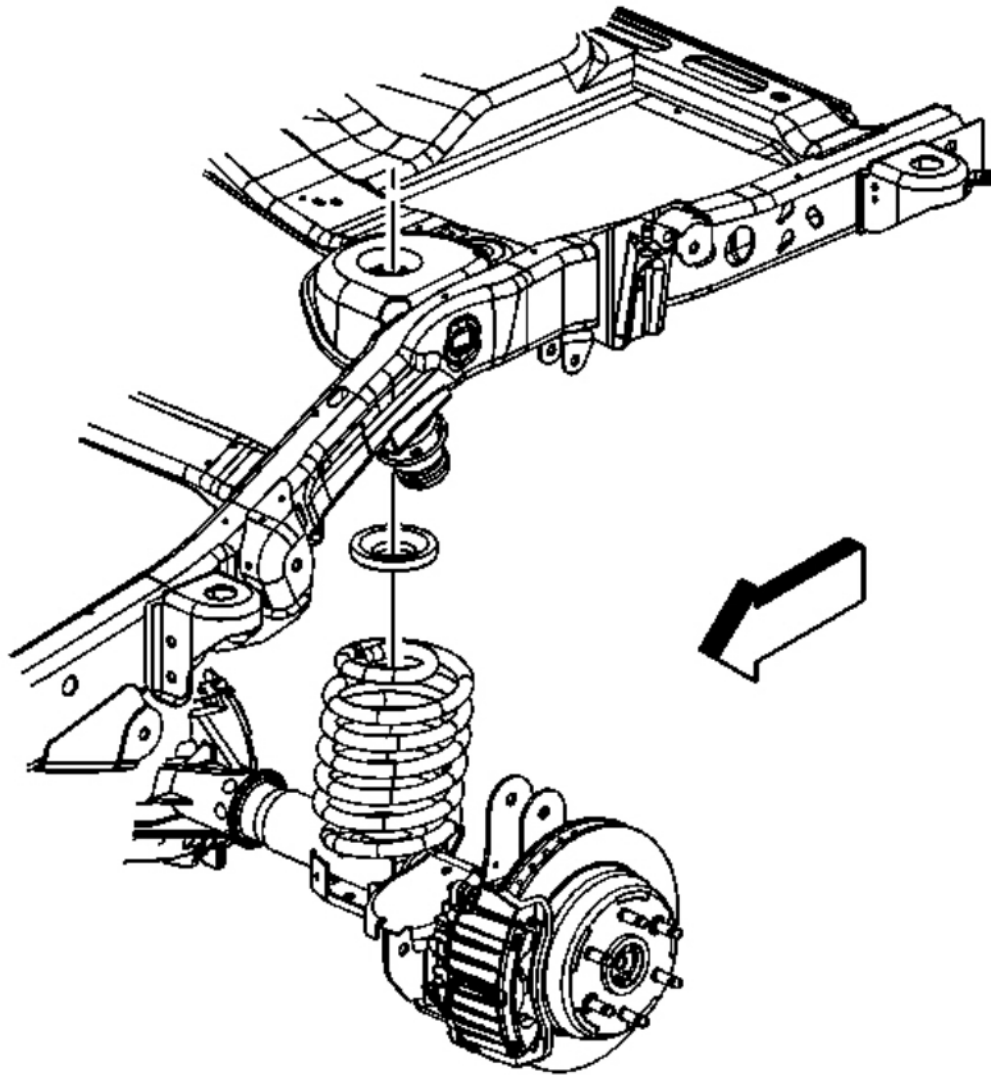


Fig. 23: View Of Coil Spring & Upper Insulator
Courtesy of GENERAL MOTORS CORP.

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Support the rear axle.
3. Disconnect the electronic suspension control (ESC) sensor, if equipped. Refer to **Rear Position Sensor Link Assembly Replacement - Electronic Suspension** .

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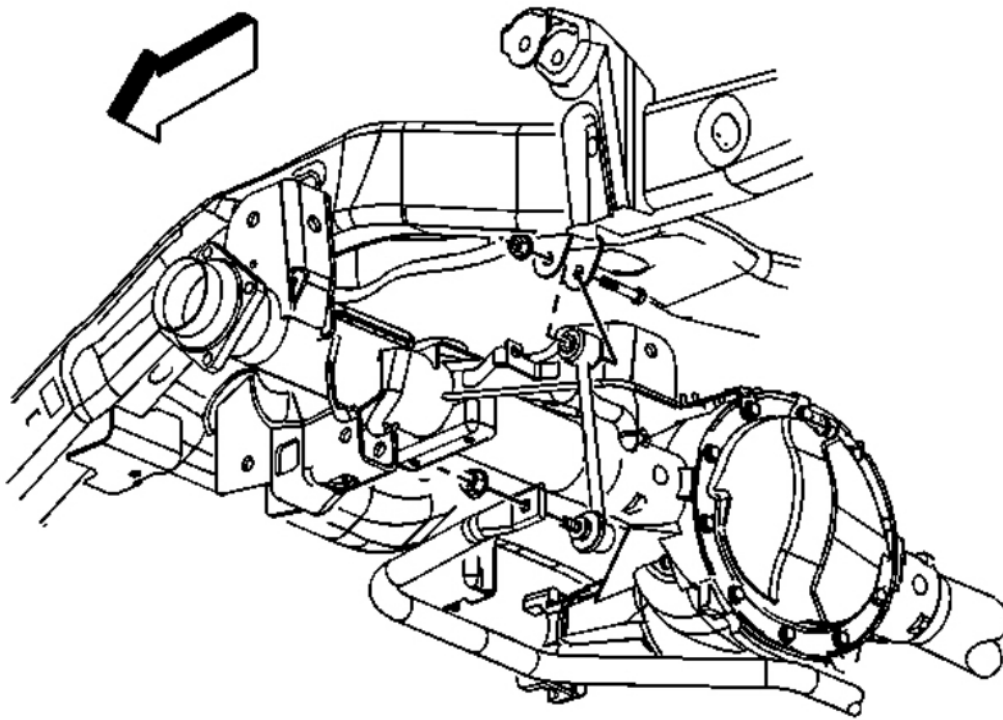


Fig. 24: View Of Stabilizer Shaft Link Nut & Ball Stud (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

4. Remove the stabilizer shaft link retaining nut from the frame.

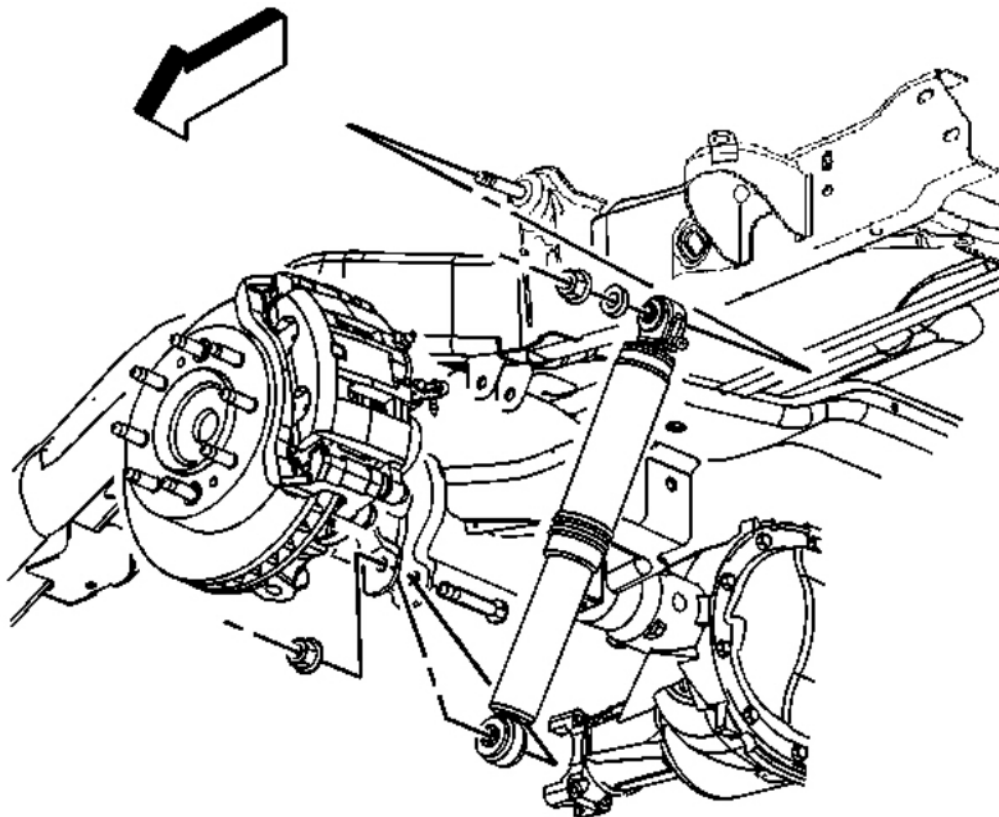


Fig. 25: View Of Shock Absorber Upper & Lower Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

5. Remove the lower shock absorber nut and bolt from the rear axle.
6. Lower the rear axle until the springs are fully unloaded.

IMPORTANT: Note the orientation of the spring as they are directional.

7. Remove the coil spring and the upper insulator.

Installation Procedure

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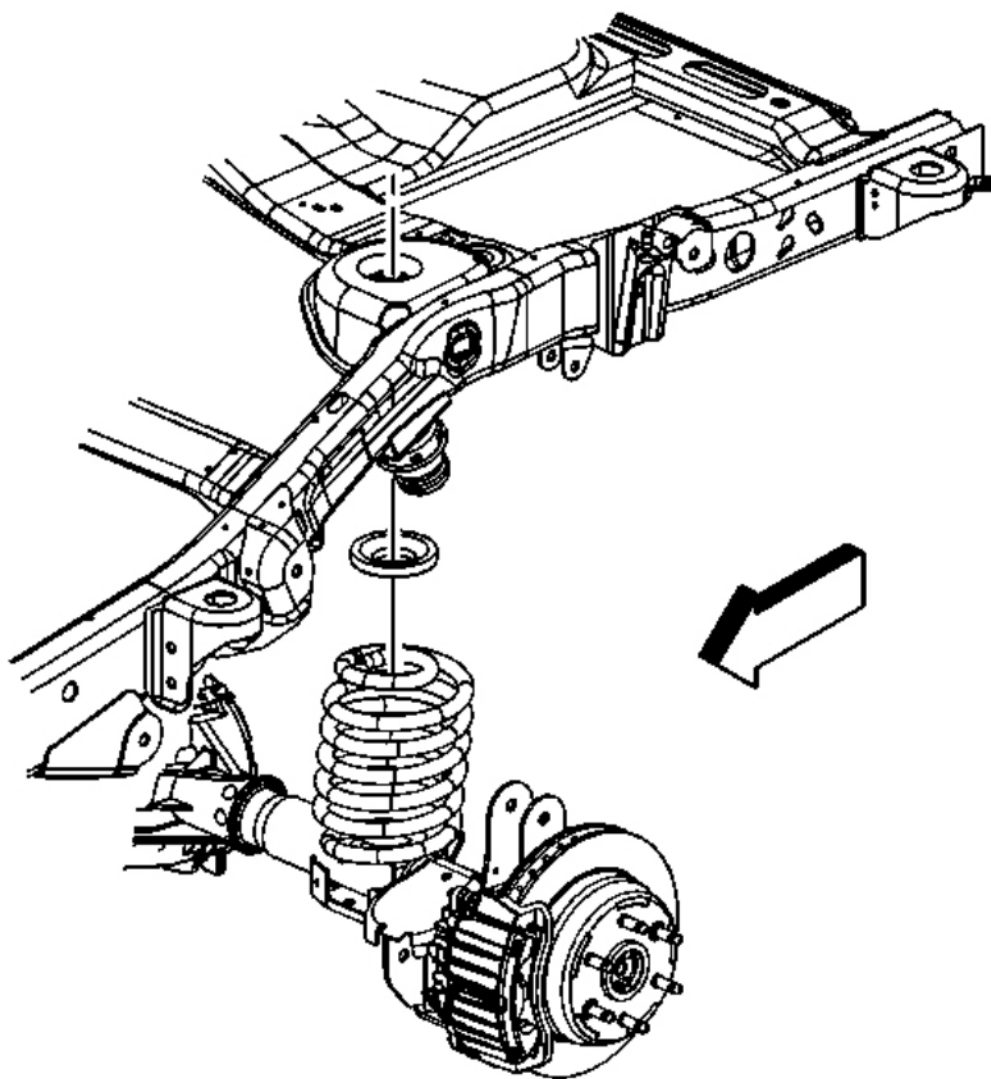


Fig. 26: View Of Coil Spring & Upper Insulator
Courtesy of GENERAL MOTORS CORP.

1. Install the coil spring and the upper insulator.
2. Raise the rear axle.

NOTE: Refer to Fastener Notice .

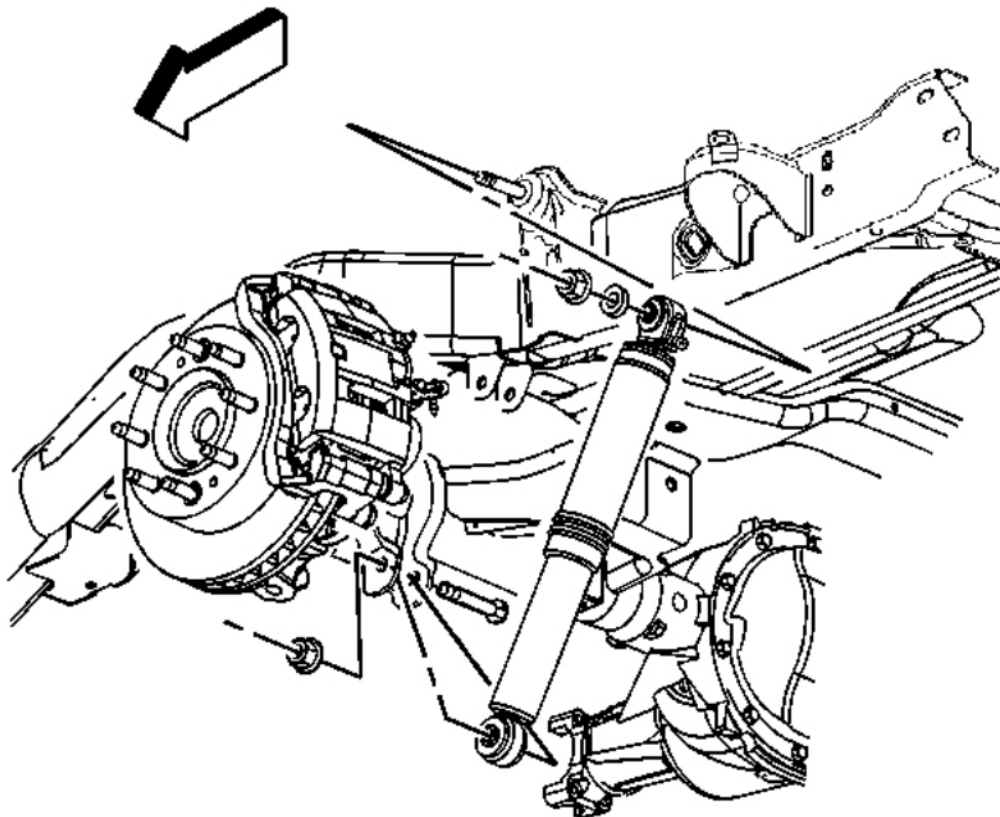


Fig. 27: View Of Shock Absorber Upper & Lower Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

3. Install the lower shock absorber retaining nut and bolt to the rear axle.

Tighten: Tighten the lower shock absorber retaining nut and bolt to 95 N.m (70 lb ft).

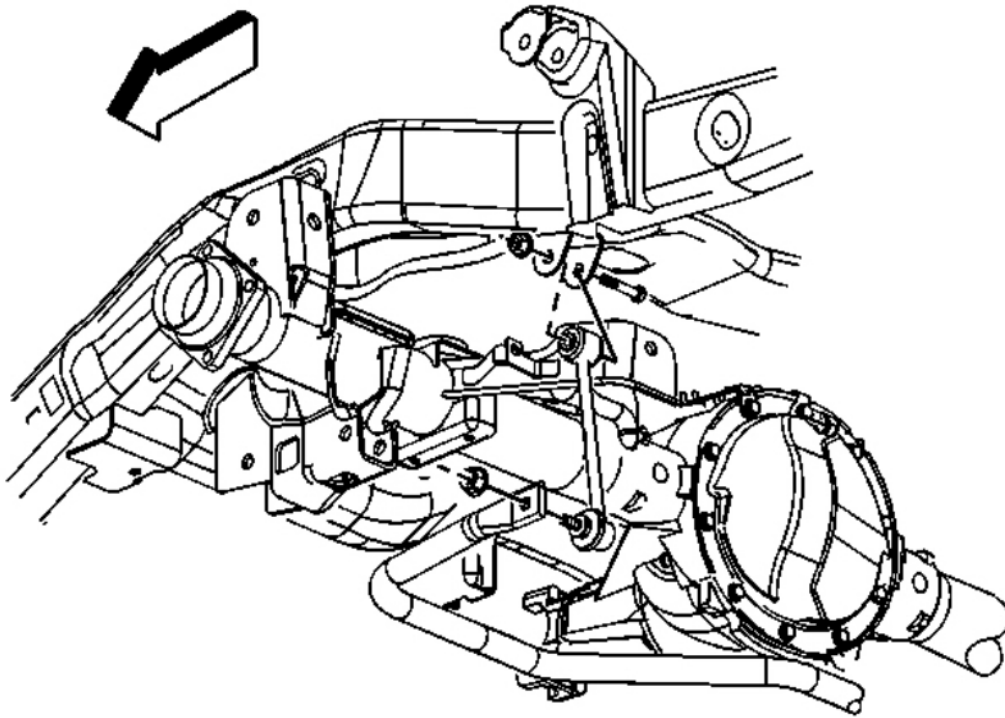


Fig. 28: View Of Stabilizer Shaft Link Nut & Ball Stud (15/25 Series)
Courtesy of GENERAL MOTORS CORP.

4. Install the stabilizer shaft link to the frame.
5. Install the stabilizer shaft link retaining nut.

Tighten: Tighten the stabilizer shaft link retaining nut to 75 N.m (55 lb ft).

6. Connect the ESC sensor, if equipped. Refer to **Rear Position Sensor Link Assembly Replacement - Electronic Suspension** .
7. Remove the rear axle support.
8. Lower the vehicle.

SPRING JOUNCE BUMPER REPLACEMENT (1500 SERIES)

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

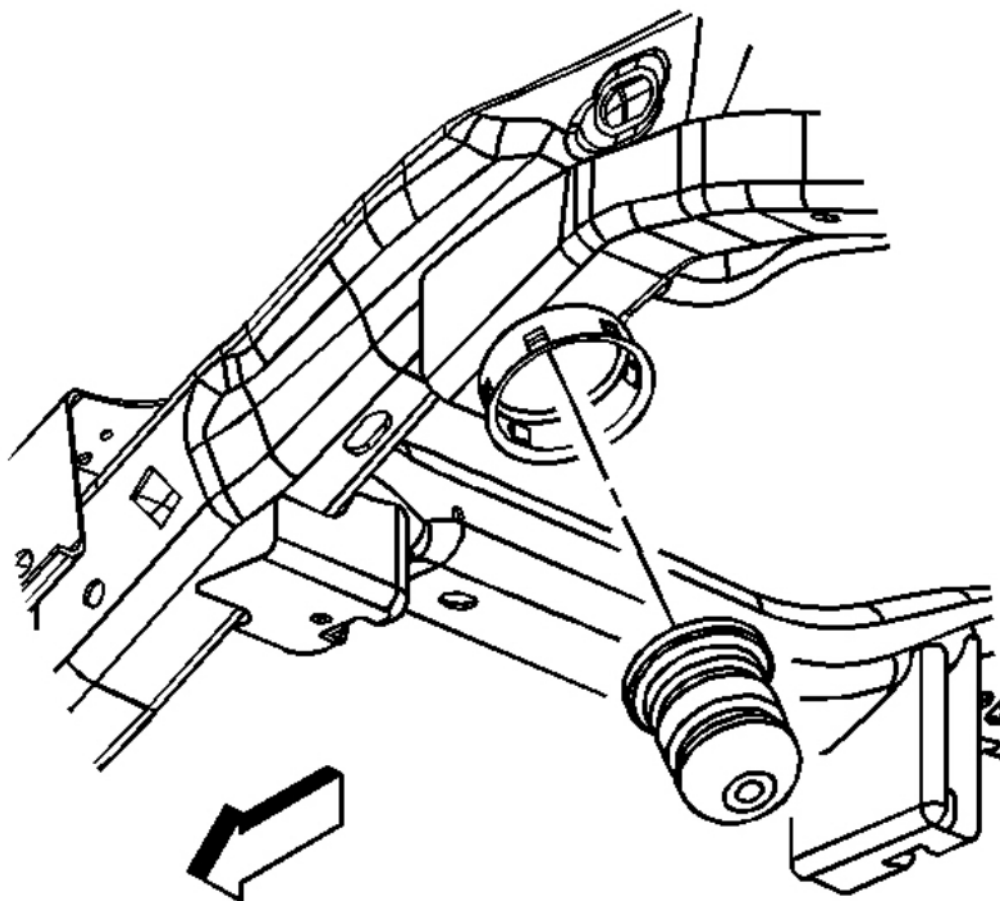


Fig. 29: View Of Jounce Bumper
Courtesy of GENERAL MOTORS CORP.

2. The jounce bumper is a snap fit design. Remove the jounce bumper from the bracket.

Installation Procedure

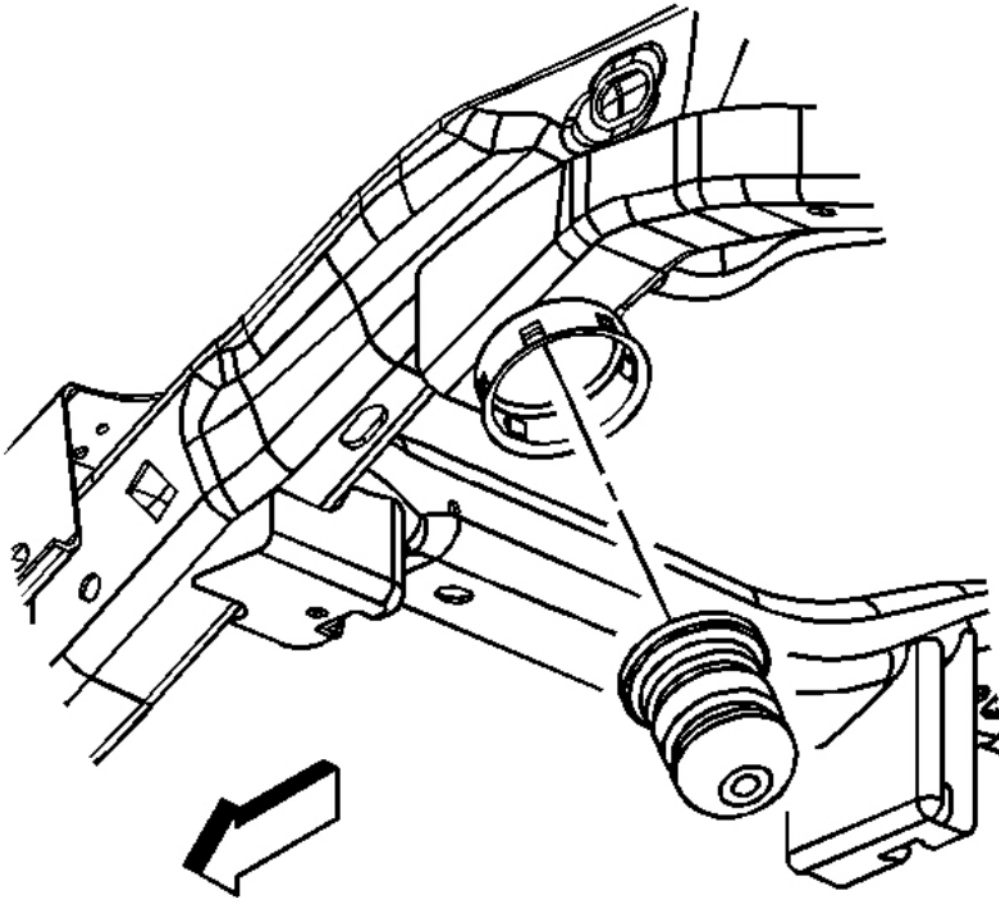


Fig. 30: View Of Jounce Bumper
Courtesy of GENERAL MOTORS CORP.

1. Position the jounce bumper to the bracket.
2. Press the jounce bumper into the bracket until fully seated.
3. Lower the vehicle.

SPRING JOUNCE BUMPER REPLACEMENT (2500 SERIES)

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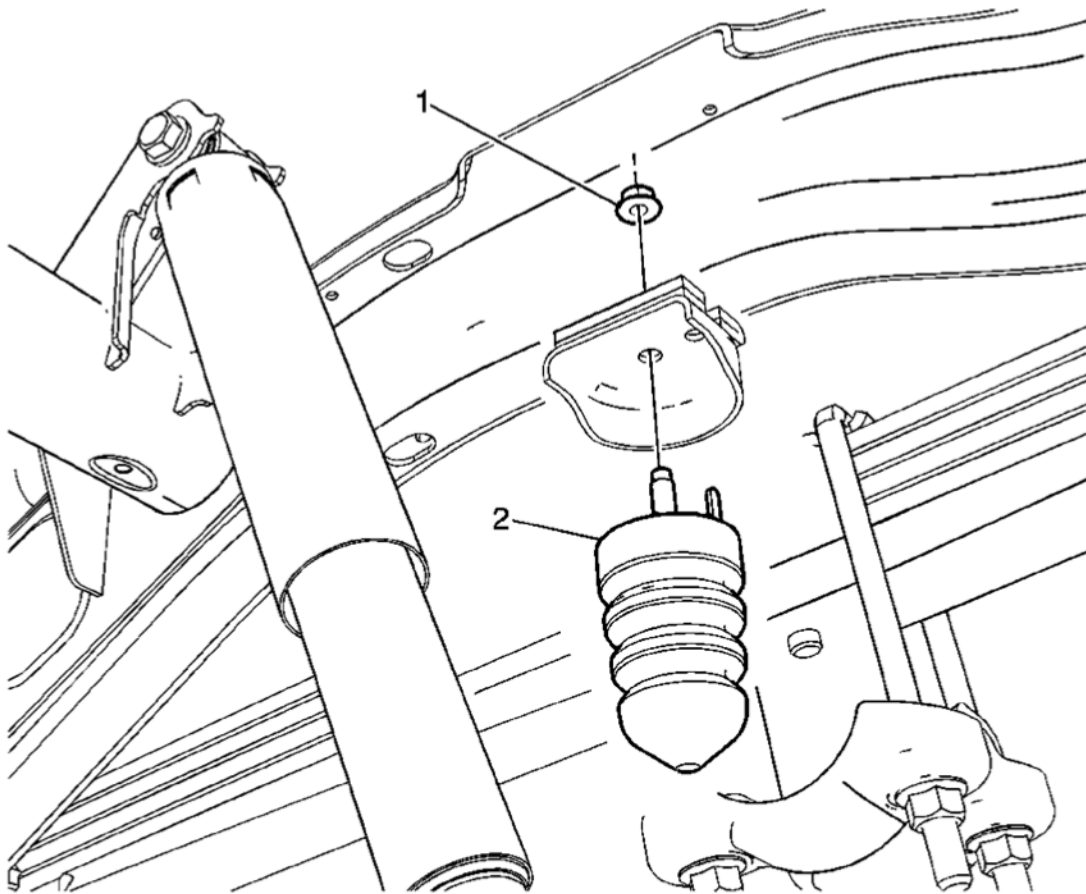


Fig. 31: View Of Spring Jounce Bumper & Nut
Courtesy of GENERAL MOTORS CORP.

Spring Jounce Bumper Replacement (2500 Series)

Callout	Component Name
Preliminary Procedure: Raise the vehicle on a hoist. Refer to <u>Lifting and Jacking the Vehicle</u> .	
1	Spring Jounce Bumper Nut NOTE: Refer to <u>Fastener Notice</u> . Tighten: 32 N.m (24 lb ft)
2	Spring Jounce Bumper

LEAF SPRING REPLACEMENT (2500 SERIES)

Removal Procedure

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1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
2. Support the rear axle independently in order to relieve the tension on the leaf springs.
3. Remove the trailer hitch, if equipped. Refer to Trailer Hitch Replacement .
4. Remove the fuel tank. Refer to Fuel Tank Replacement (1500 LWB - 117.3L (31 gal) Tank) or Fuel Tank Replacement (1500 LWB - 117.3L (31 gal) Tank + E85) or Fuel Tank Replacement (1500 SWB - 98.4L (26 gal) Tank) or Fuel Tank Replacement (1500 SWB - 98.4L (26 gal) Tank + E85) or Fuel Tank Replacement (2500 LWB - 43.5L (11.5 gal) Tank-Rear) or Fuel Tank Replacement (2500 LWB - 98.4L (26 gal) Tank-Front) .

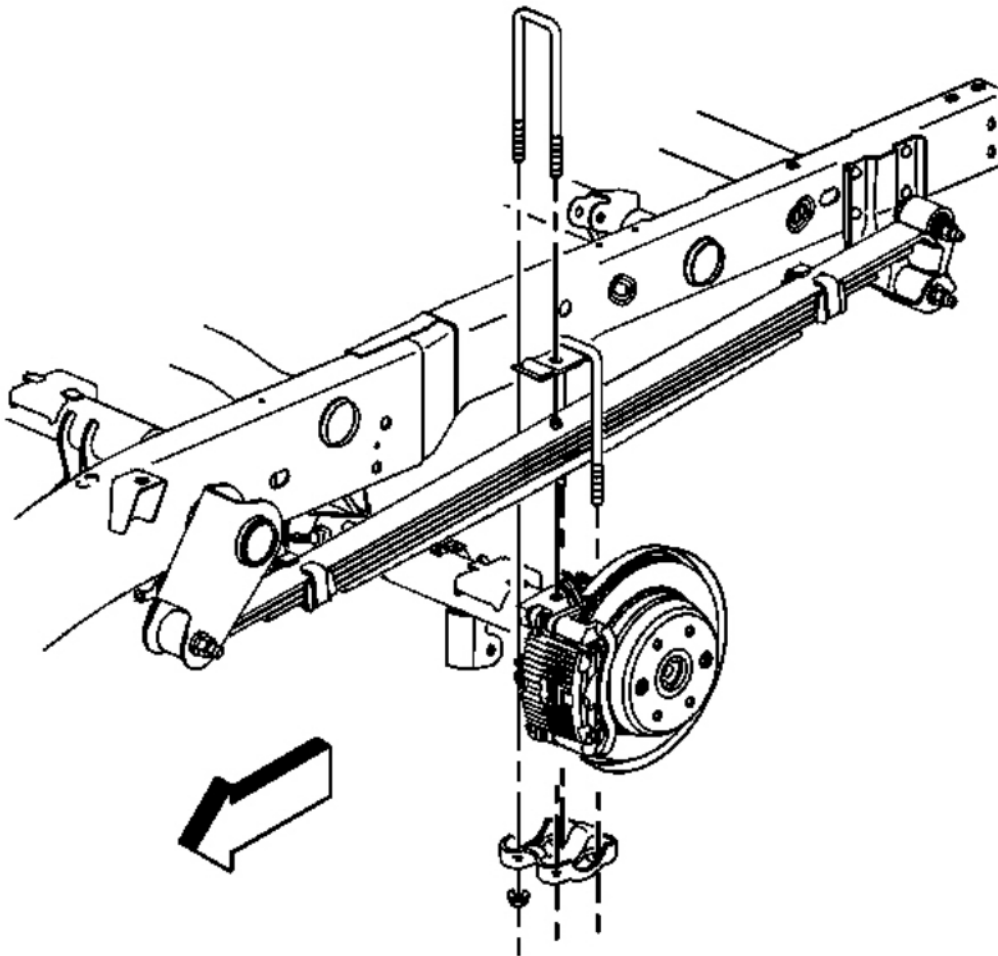


Fig. 32: Identifying U-Bolts
Courtesy of GENERAL MOTORS CORP.

5. Remove the U-bolt nuts.
6. Remove the U-bolts.
7. Remove the spring spacer.
8. Remove the anchor plate.

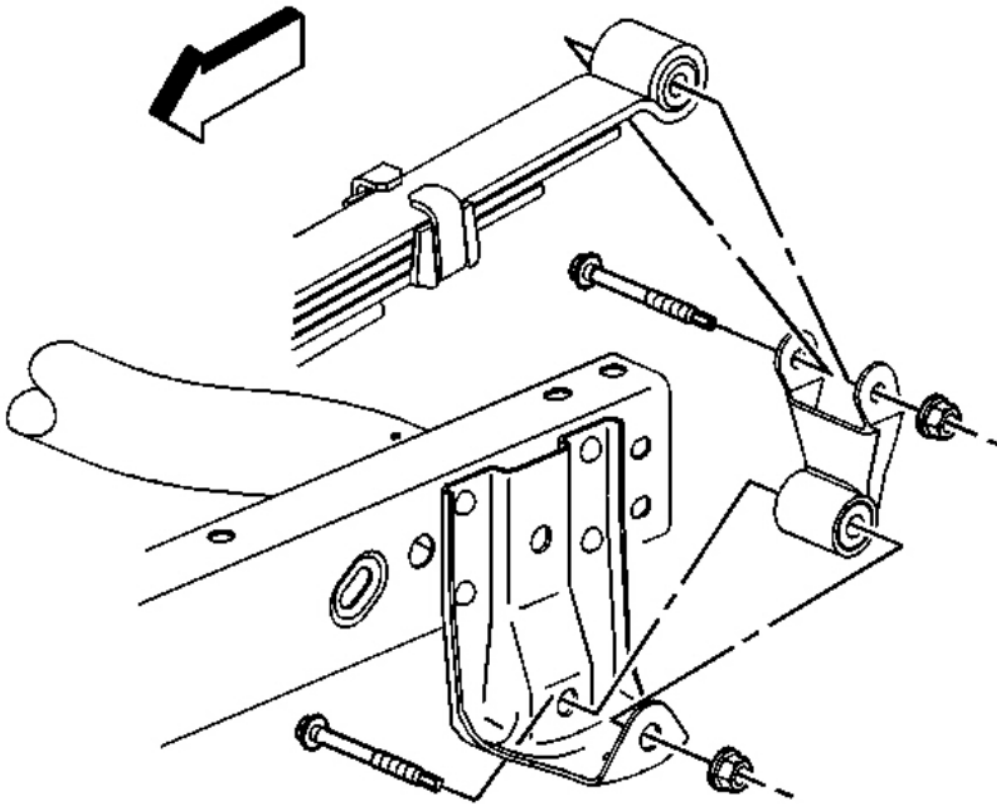


Fig. 33: View Of Rear Spring Hanger Bracket, Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

9. Remove the rear spring bracket nut and bolt.

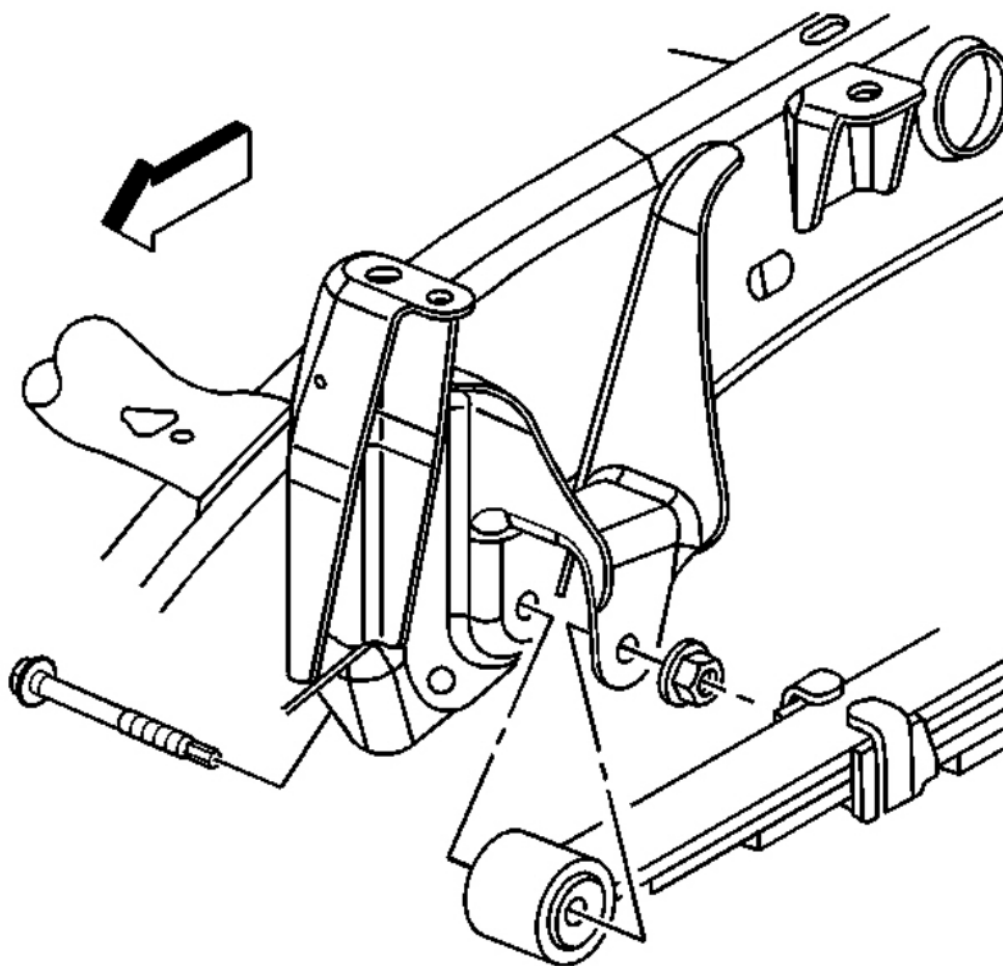


Fig. 34: View Of Front Spring Bracket Nut & Bolt
Courtesy of GENERAL MOTORS CORP.

10. Remove the front spring bracket nut and bolt.
11. Remove the leaf spring assembly from the vehicle.

Installation Procedure

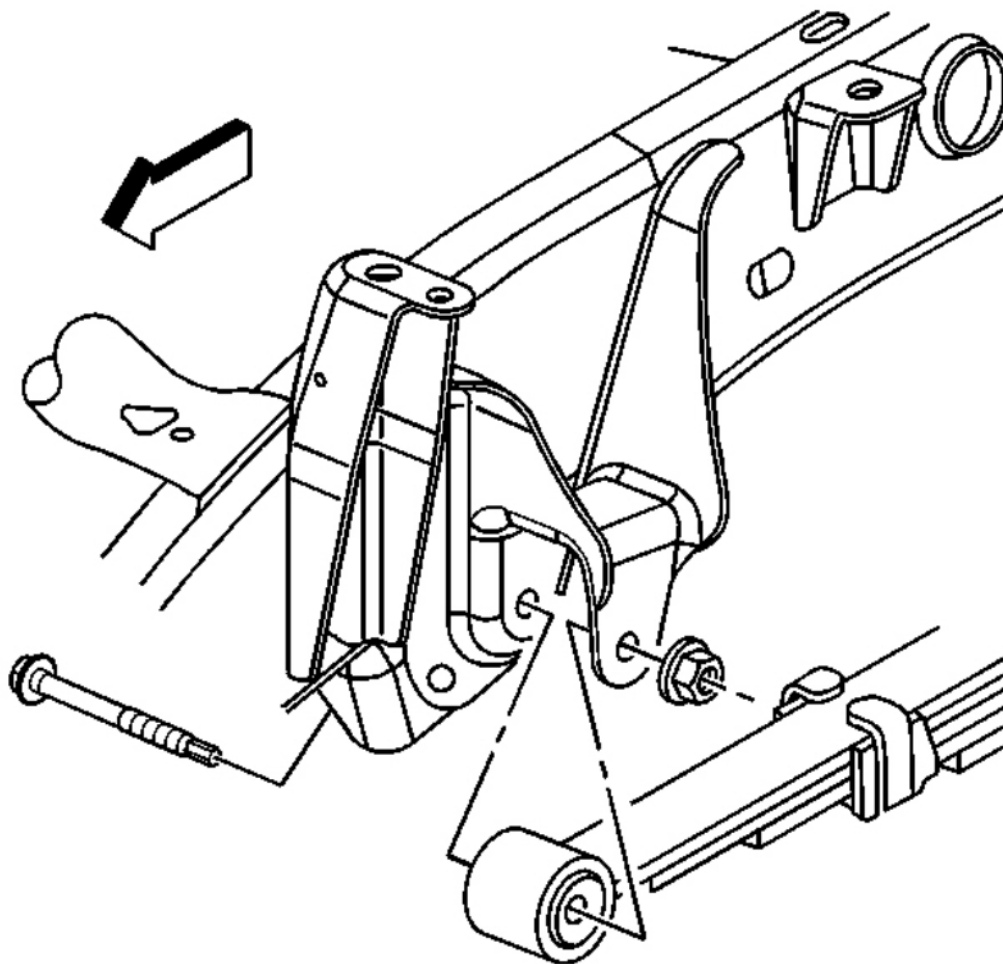


Fig. 35: View Of Front Spring Bracket Nut & Bolt
Courtesy of GENERAL MOTORS CORP.

1. Install the leaf spring assembly to the vehicle.
2. Loosely assemble the spring to the front hanger bracket.
3. Install the front spring hanger bracket bolt.
4. Install the front spring hanger bracket nut.

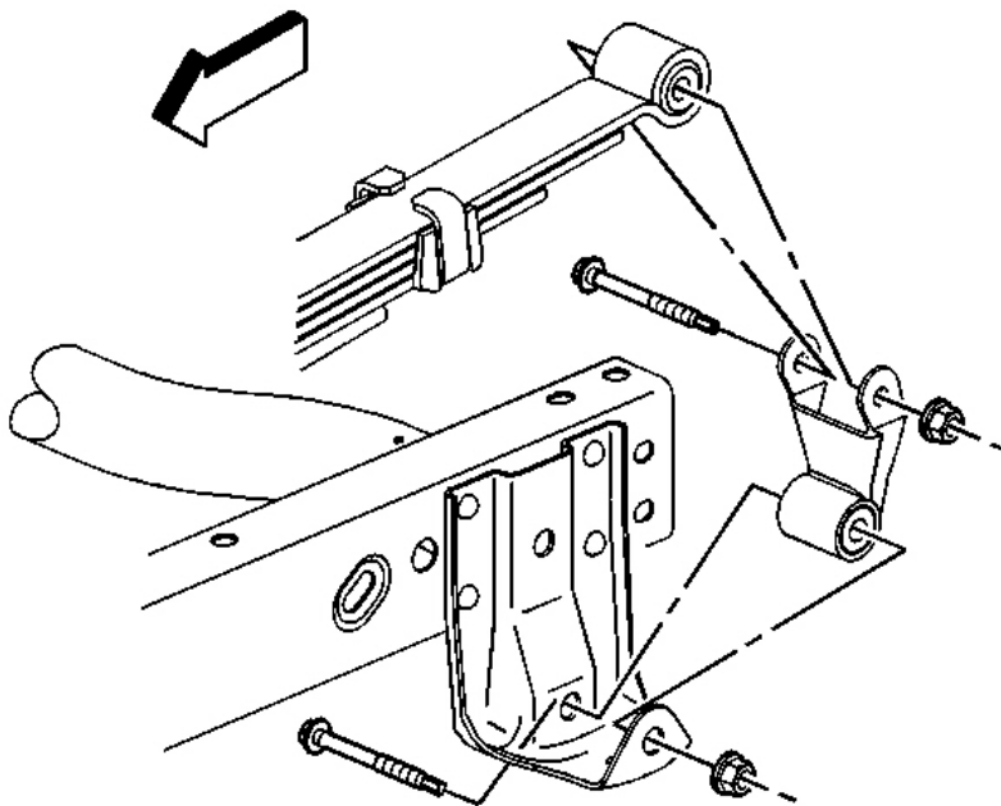


Fig. 36: View Of Rear Spring Hanger Bracket, Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

5. Install the rear spring hanger bracket bolt.
6. Install the rear spring hanger bracket nut.

IMPORTANT: Do not reuse the U-bolts.

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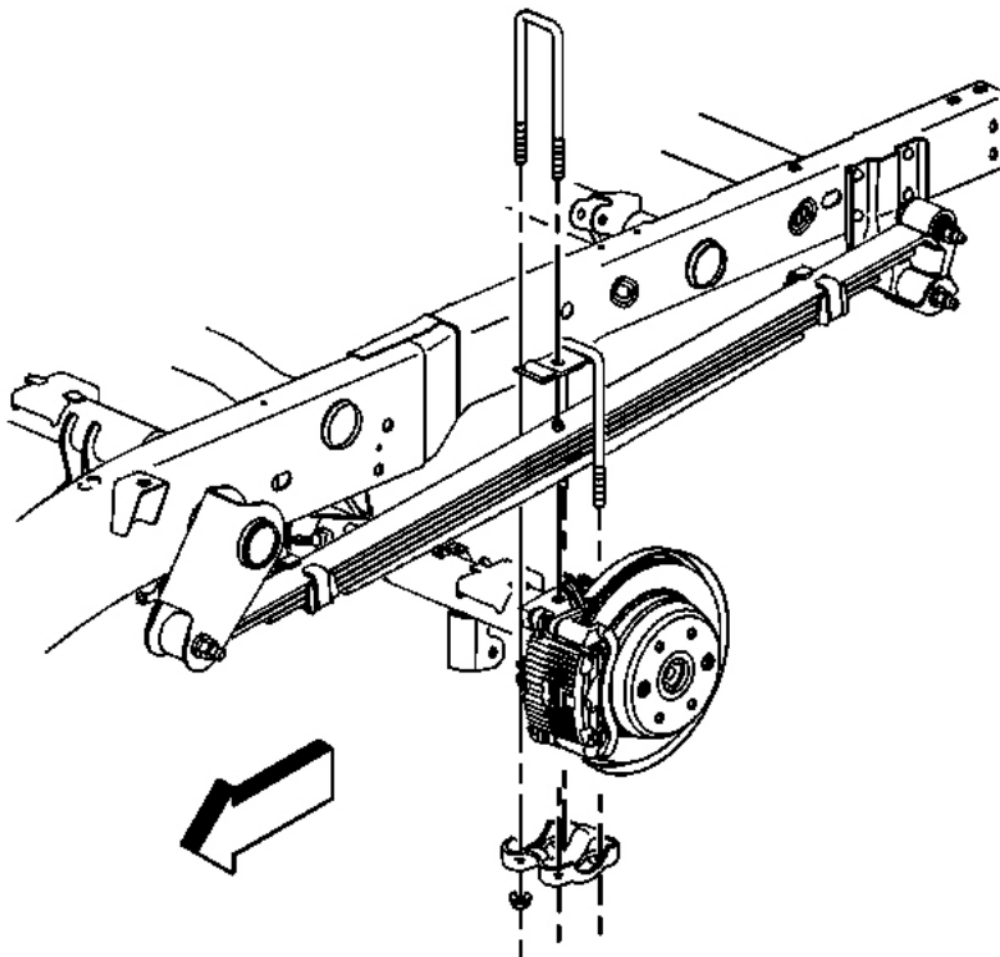


Fig. 37: Identifying U-Bolts

Courtesy of GENERAL MOTORS CORP.

7. Install the spring spacer.
8. Install the U-bolts.
9. Install the anchor plate.

NOTE: Refer to Fastener Notice .

10. Install the U-bolt nuts.

Tighten:

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- Tighten the front hanger bracket nut to 150 N.m (110 lb ft).
 - Tighten the rear hanger bracket nut to 95 N.m (70 lb ft).
11. Install the fuel tank. Refer to **Fuel Tank Replacement (1500 LWB - 117.3L (31 gal) Tank)** or **Fuel Tank Replacement (1500 LWB - 117.3L (31 gal) Tank + E85)** or **Fuel Tank Replacement (1500 SWB - 98.4L (26 gal) Tank)** or **Fuel Tank Replacement (1500 SWB - 98.4L (26 gal) Tank + E85)** or **Fuel Tank Replacement (2500 LWB - 43.5L (11.5 gal) Tank-Rear)** or **Fuel Tank Replacement (2500 LWB - 98.4L (26 gal) Tank-Front)** .
 12. Install the trailer hitch, if equipped. Refer to **Trailer Hitch Replacement** .
 13. Remove the rear axle support.
 14. Remove the safety stands.
 15. Lower the vehicle.

SPRING SHACKLE REPLACEMENT (2500 SERIES)

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

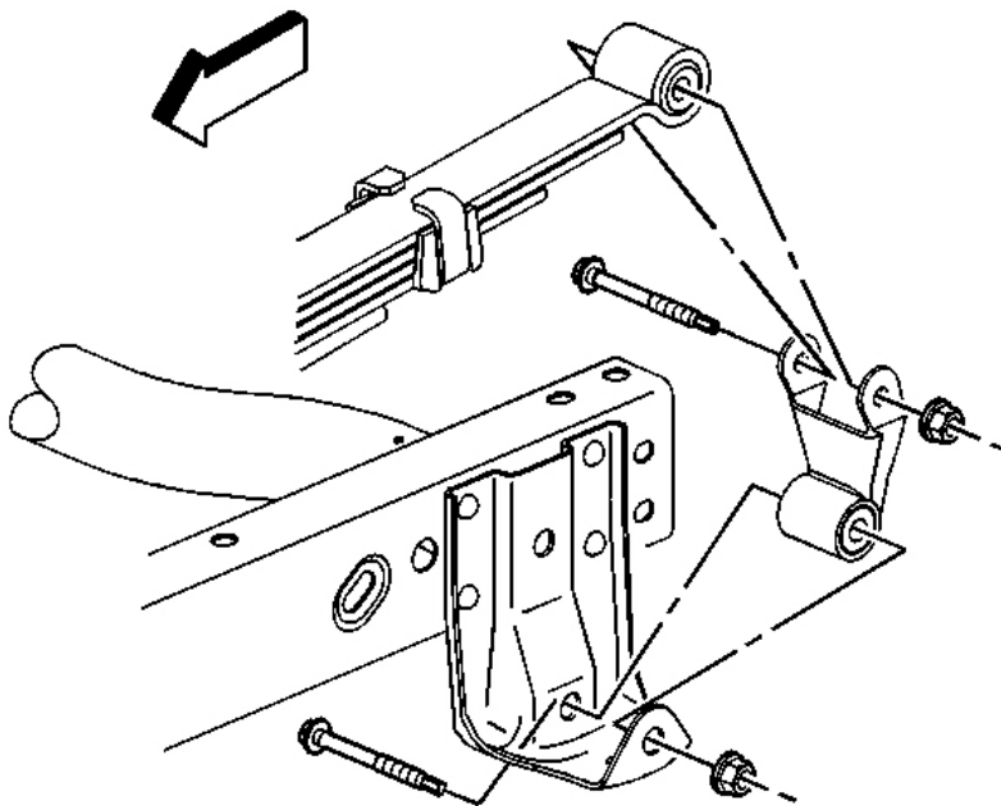


Fig. 38: View Of Rear Spring Hanger Bracket, Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

2. Remove the leaf spring assembly from vehicle. Refer to **Leaf Spring Replacement (2500 Series)**.
3. Remove the shackle nut and the bolt from the spring.

Installation Procedure

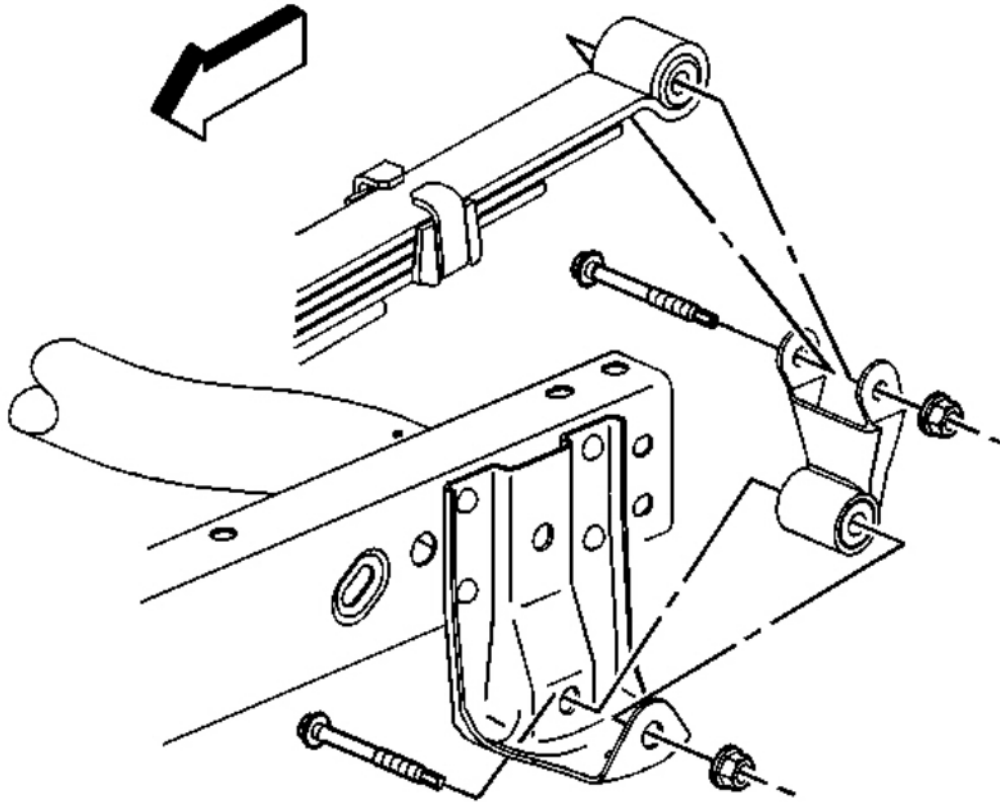


Fig. 39: View Of Rear Spring Hanger Bracket, Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

1. Install the shackle to the spring.
2. Install the shackle nut and bolt to the spring.

Tighten: Tighten the shackle nut to 95 N.m (70 lb ft).

3. Install the leaf spring assembly to the vehicle. Refer to Leaf Spring Replacement (2500 Series).
4. Remove the safety stands.
5. Lower the vehicle.

TRACK BAR REPLACEMENT

2007 Cadillac Escalade

2007 SUSPENSION Rear Suspension - Avalanche, Escalade, Suburban, Tahoe & Yukon

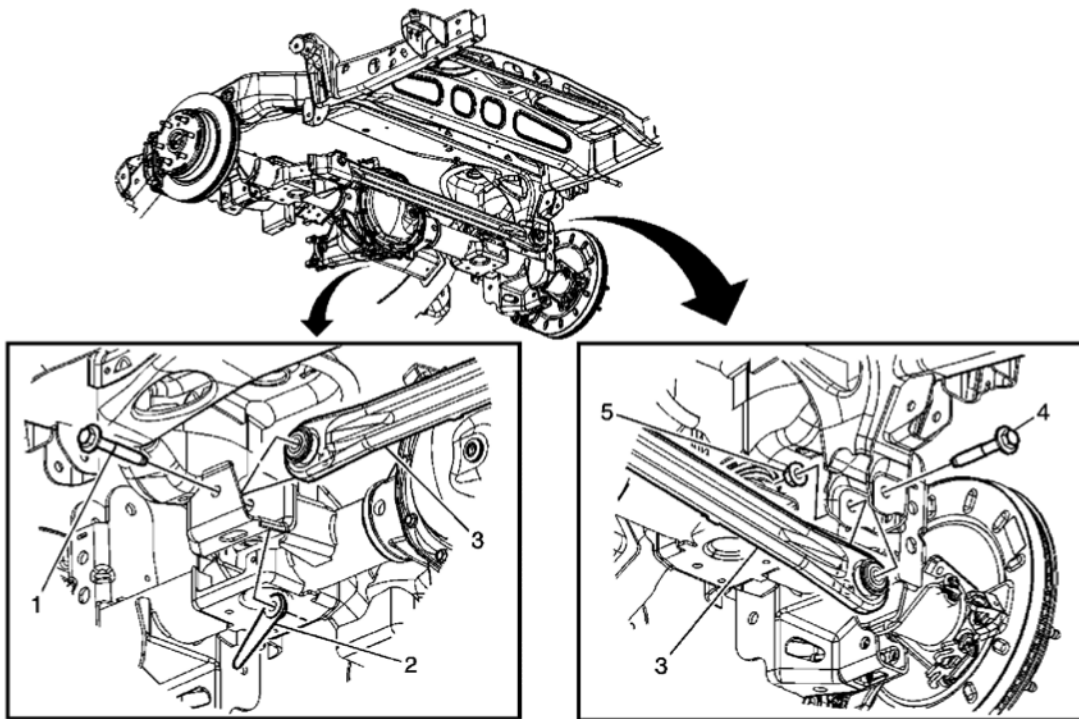


Fig. 40: View Of Track Bar & Components

Courtesy of GENERAL MOTORS CORP.

Track Bar Replacement

Callout	Component Name
Preliminary Procedure: Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
1	Mounting Bolt NOTE: Refer to <u>Fastener Notice</u> . Tighten: 107 N.m (77 lb ft) Tip: • Support the rear driveaxle before removing either of the mounting bolts. • Finger tighten the mounting bolt. This will allow for movement in the track bar to align the opposite end mounting bolt hole with the mounting bolt.
2	Nut
3	Track Bar Tip: Disconnect the park brake cable from the track bar.

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4	Mounting Bolt Tighten: 140 N.m (103 lb ft)
5	Nut

WHEEL STUD REPLACEMENT

Tools Required

J 43631 Ball Joint Remover

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Remove the tire and wheel. Refer to **Tire and Wheel Removal and Installation** .
3. Remove the brake rotor. Refer to **Rear Brake Rotor Replacement (1500 Series)** or **Rear Brake Rotor Replacement (2500 Series)** .

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2007 SUSPENSION Rear Suspension - Avalanche, Escalade, Suburban, Tahoe & Yukon

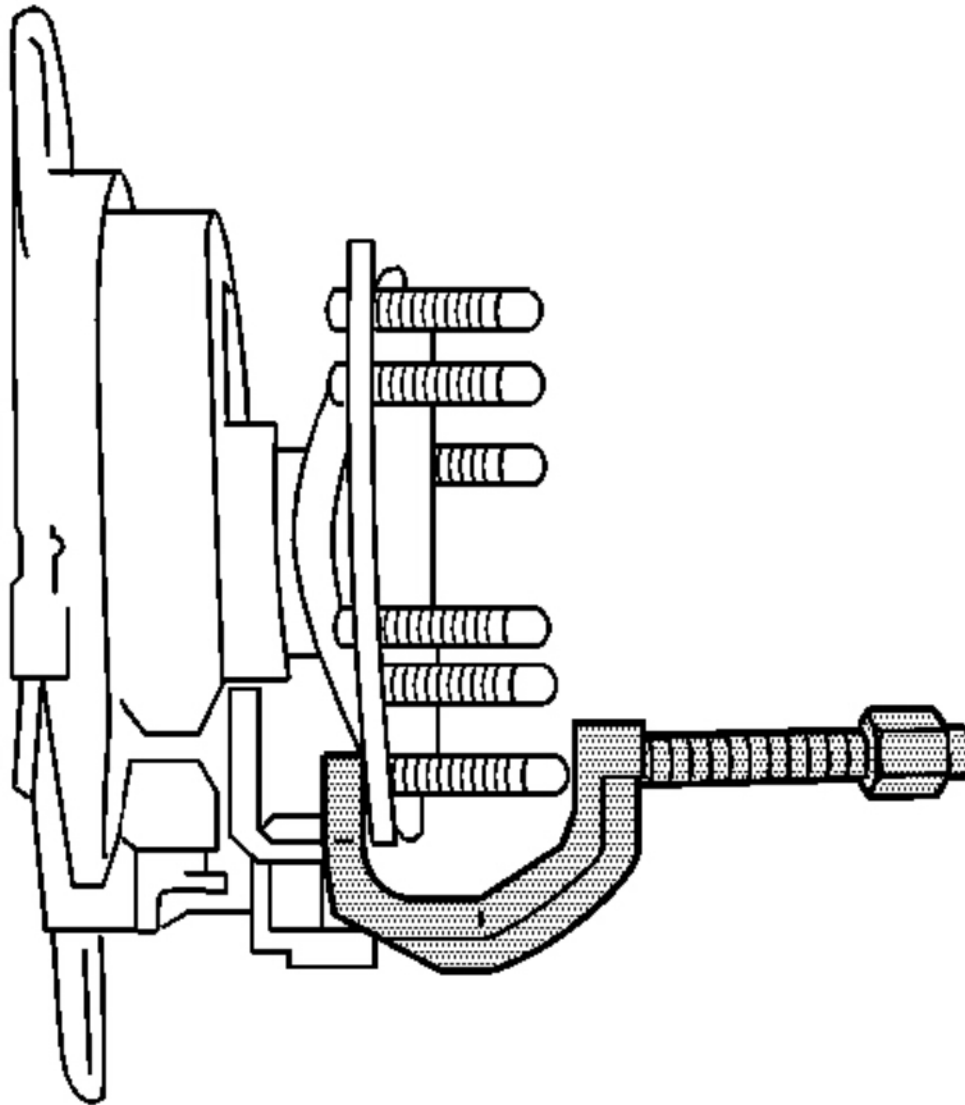


Fig. 41: Using Ball Joint Remover J 43631
Courtesy of GENERAL MOTORS CORP.

4. Remove the wheel stud from the hub flange using the **J 43631**.
5. Remove the wheel stud from the hub flange.

Installation Procedure

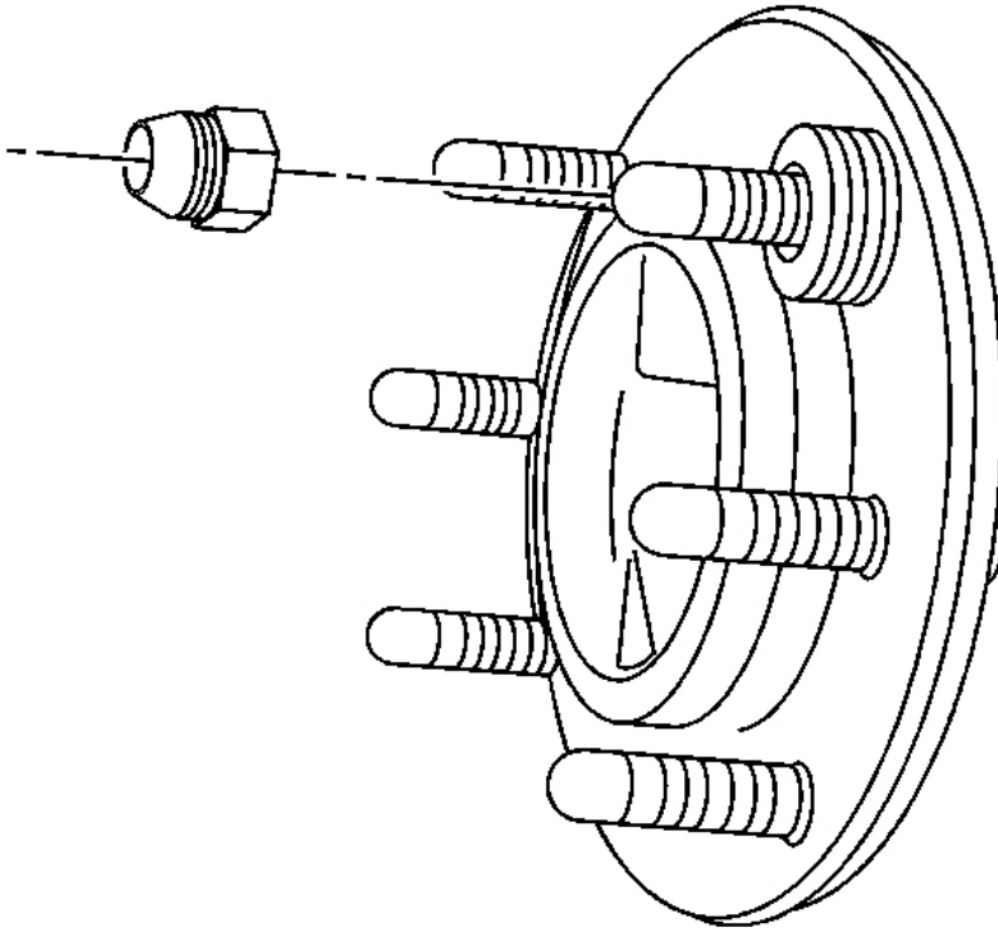


Fig. 42: View Of Wheel Nut & Studs
Courtesy of GENERAL MOTORS CORP.

1. Install the new stud into the hub flange hole using firm hand pressure.
2. Install 4 washers to the new wheel stud.
3. Thread a wheel nut onto the new stud with the flat side facing the front hub flange.
4. Tighten the lug nut until the stud contacts the back of the hub flange.
5. Remove the wheel nut.
6. Remove the washers.
7. Install the brake rotor. Refer to **Rear Brake Rotor Replacement (1500 Series)** or **Rear Brake Rotor Replacement (2500 Series)** .
8. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** .

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2007 SUSPENSION Rear Suspension - Avalanche, Escalade, Suburban, Tahoe & Yukon

9. Remove the safety stands.
10. Lower the vehicle.

DESCRIPTION AND OPERATION

GENERAL DESCRIPTION

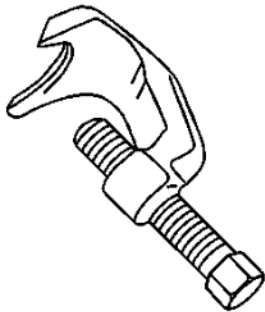
All 15 series utility vehicles use a 5-link rear suspension system. The rear axle is attached to the frame with the upper control arms, lower control arms, and a track bar. Two coil springs and a link mounted rear stabilizer shaft complete the system.

All 25 series Utility models use a rear spring suspension system and a solid rear axle suspension system. The rear axle is attached to the multi-rear springs by U-bolts. The front of the spring ends are attached to the frame at the front hangers through rubber bushings. The rear of the spring ends are attached to the frame with shackles that allow the springs to change their length, due to the spring compressing, while the vehicle is in motion. The ride control is provided by 2 identical direct dual-action shock absorbers that are angle-mounted between the frame and the brackets which are attached to the axle tubes.

SPECIAL TOOLS AND EQUIPMENT

SPECIAL TOOLS

Special Tools

Illustration	Tool Number/ Description
	J 43631 Ball Joint Remover