

2004 Cadillac SRX

2004 SUSPENSION Rear Suspension - SRX

2004 SUSPENSION**Rear Suspension - SRX****SPECIFICATIONS****FASTENER TIGHTENING SPECIFICATIONS****Fastener Tightening Specifications**

Application	Specification	
	Metric	English
Adjustment Link to Frame Mounting Bolt	170 N.m	125 lb ft
Adjustment Link to Knuckle Mounting Bolt	160 N.m	118 lb ft
Brake Pipe Bracket to Body Retaining Nuts	10 N.m	89 lb in
Frame to Body Bolts, Front	265 N.m	195 lb ft
Frame to Body Bolts, Rear	191 N.m	140 lb ft
Lower Control Arm to Frame Mounting Bolt Retaining Nut	135 N.m	100 lb ft
Lower Control Arm to Knuckle Retaining Bolt	160 N.m	118 lb ft
Shock Absorber Upper Mounting Nuts	25 N.m	18 lb ft
Shock Lower Mounting Bolt	150 N.m	111 lb ft
Stabilizer Shaft Bracket Mounting Bolts	60 N.m	44 lb ft
Stabilizer Shaft Link Retaining Nuts	66 N.m	49 lb ft
Trailing Link to Frame Bolt	150 N.m	111 lb ft
Trailing Link to Knuckle Mounting Bolt Retaining Nut	170 N.m	125 lb ft
Upper Control Arm Ball Stud to Knuckle Mounting Nut		
• First Pass	20 N.m	15 lb ft
• Second Pass	+210°	
Upper Control Arm to Frame Mounting Bolt Retaining Nut	120 N.m	89 lb ft
Wheel Bearing/Hub to Knuckle Mounting Bolt	125 N.m	92 lb ft
Wheel Driveshaft to Wheel Bearing Retaining Nut	160 N.m	118 lb ft

REPAIR INSTRUCTIONS**WHEEL BEARING/HUB REPLACEMENT - REAR****Tools Required**

- **J 45859** Wheel Hub Remover
- **J 43631** Ball Joint Remover

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
3. Remove the rear brake rotor. Refer to **Brake Rotor Replacement - Rear** in Disc Brakes.

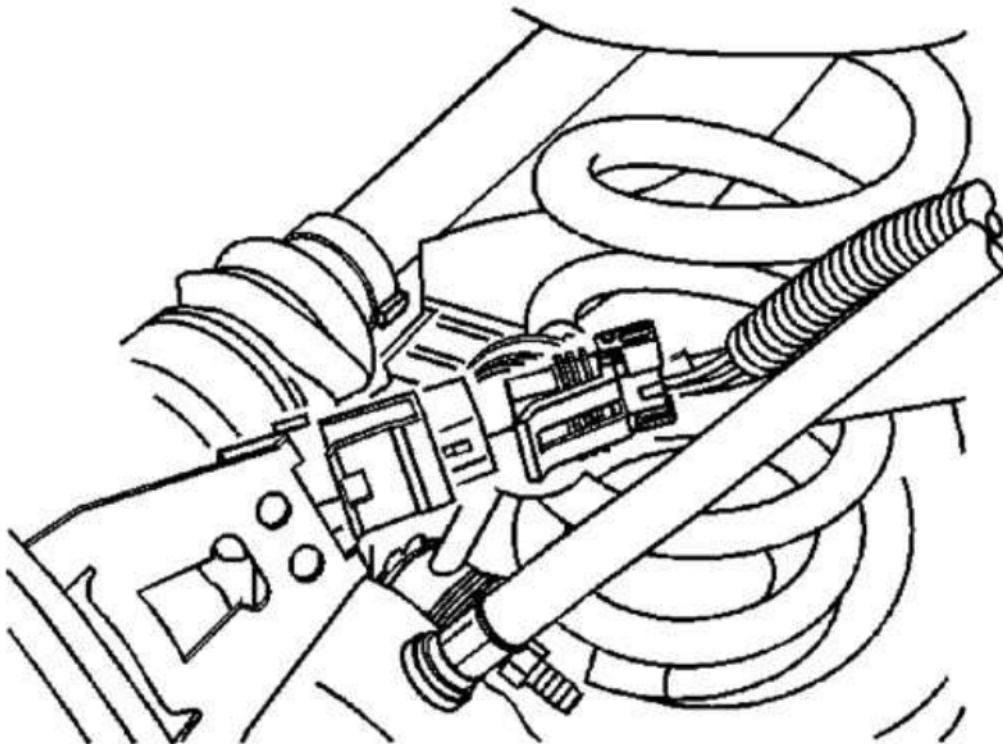


Fig. 1: View Of Rear Wheel Speed Sensor Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

4. Disconnect the wheel speed sensor electrical connector.
5. Disconnect the wheel speed sensor electrical connector from the backing plate.

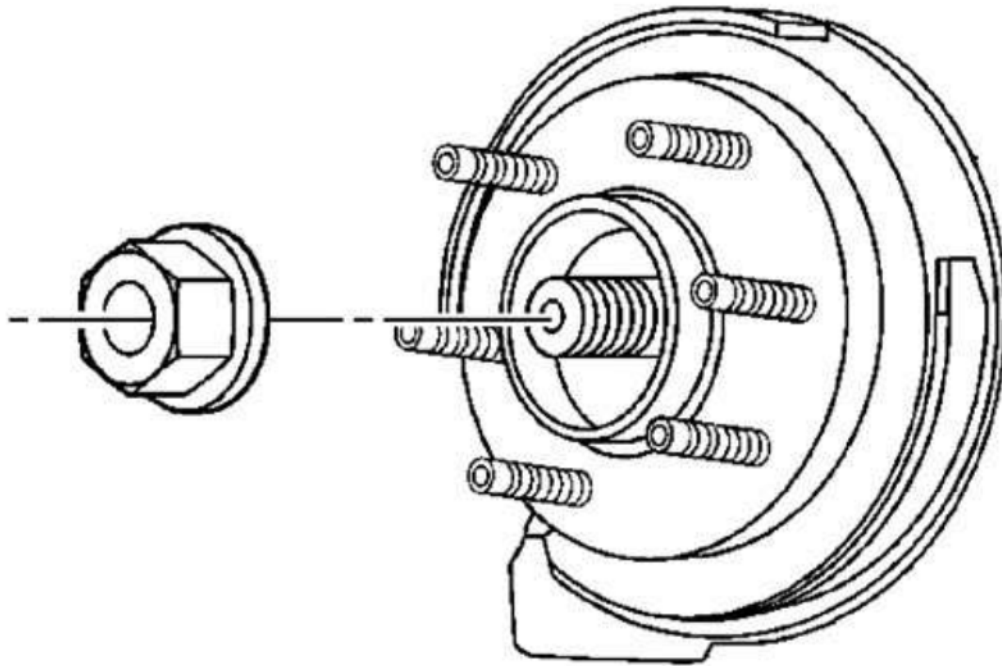


Fig. 2: View Of Wheel Drive Shaft Retaining Nut
Courtesy of GENERAL MOTORS CORP.

6. Remove the wheel drive shaft retaining nut and discard.

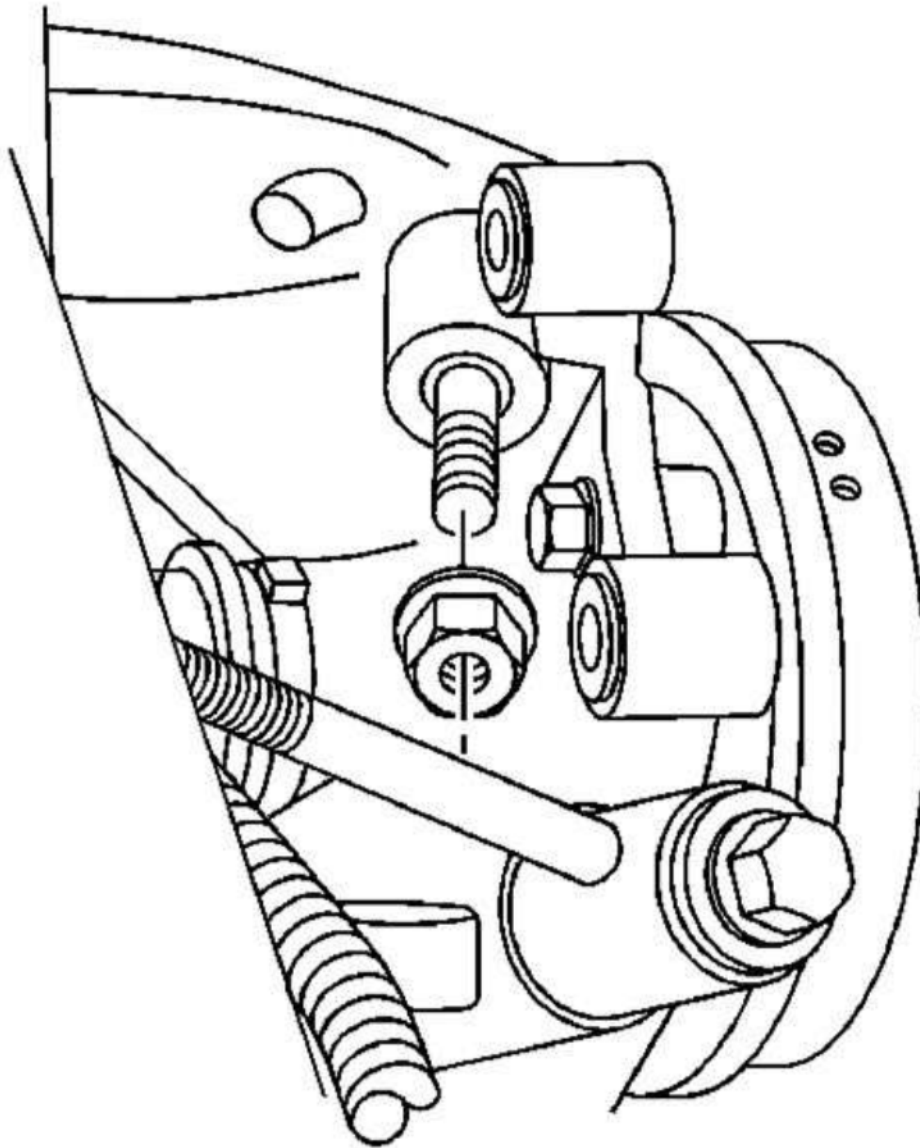


Fig. 3: View Of Upper Arm-To-Knuckle Retaining Nut
Courtesy of GENERAL MOTORS CORP.

7. Carefully remove the upper control arm to knuckle retaining nut.

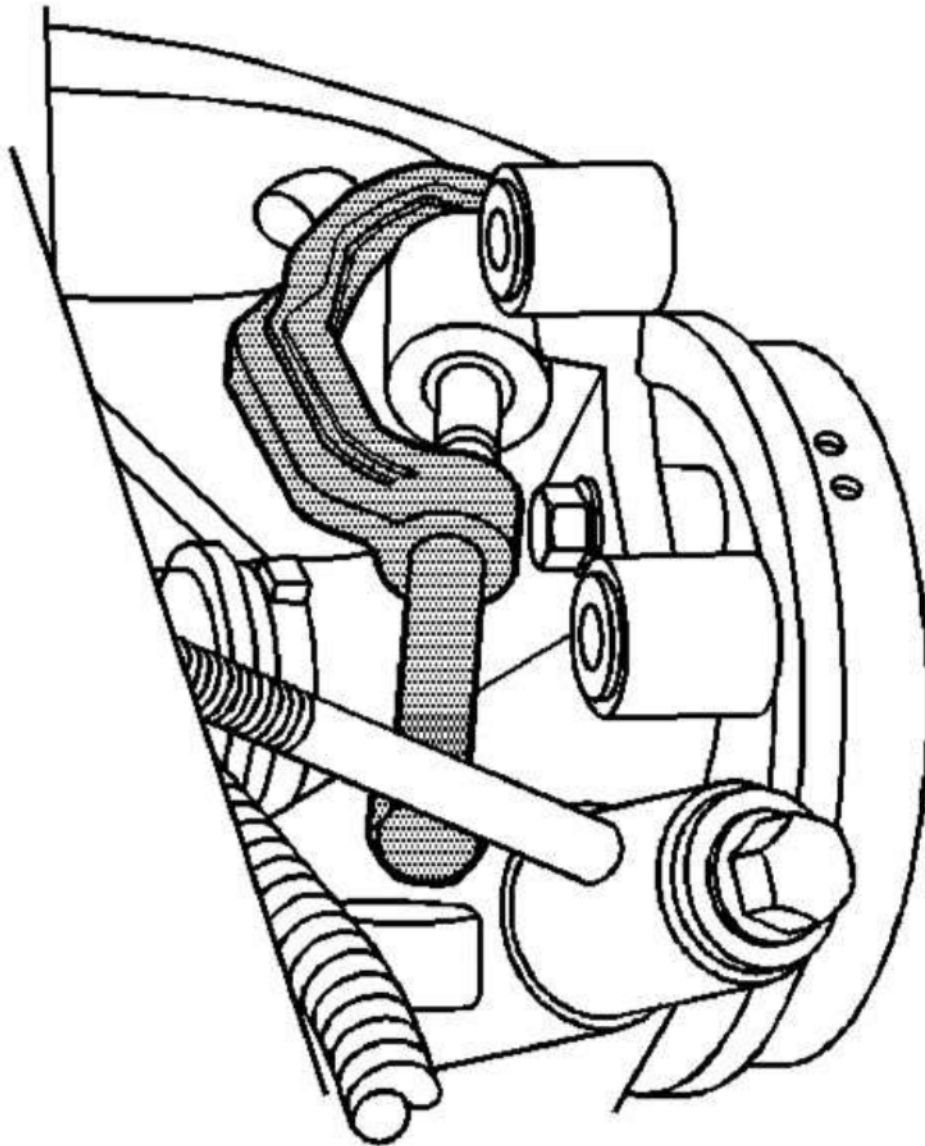


Fig. 4: Separating The Upper Control Arm From The Knuckle Using J 43631
Courtesy of GENERAL MOTORS CORP.

8. Using **J 43631** carefully separate the upper control arm from the knuckle.

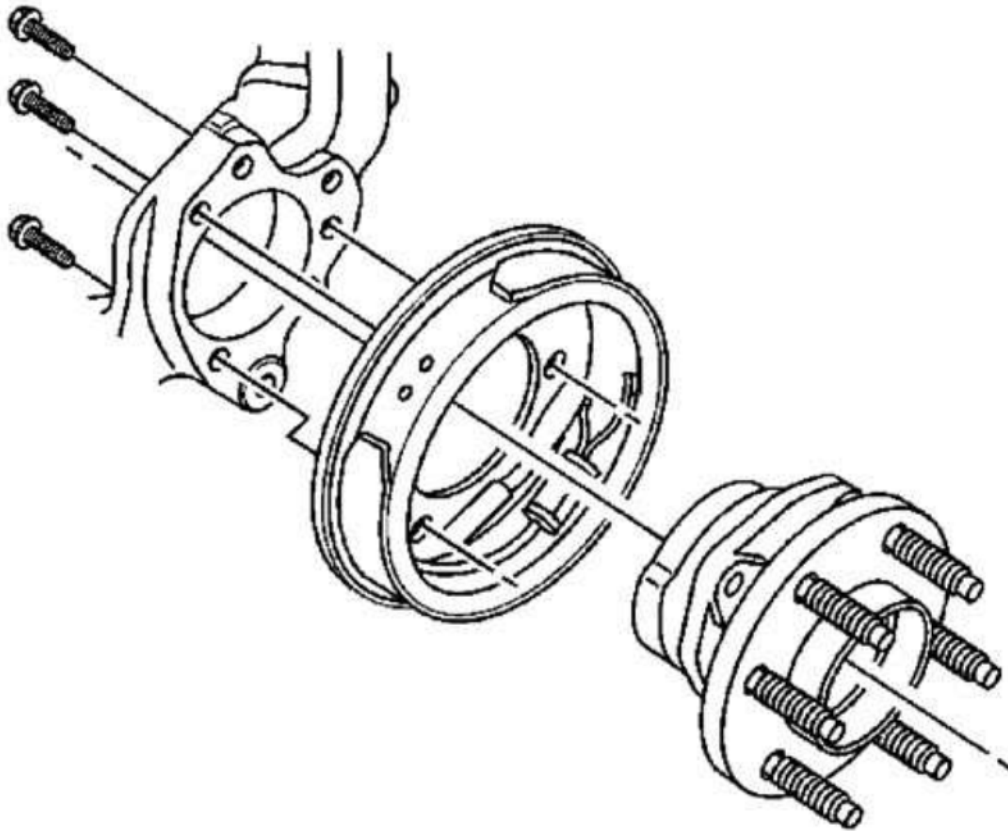


Fig. 5: View Of Wheel Bearing/Hub Assembly
Courtesy of GENERAL MOTORS CORP.

NOTE: Avoid tool contact to the outer constant velocity boot seal when removing the wheel bearing mounting bolts. Failure to observe this notice may result in damage to the CV boot.

9. Carefully remove the wheel bearing/hub retaining bolts.

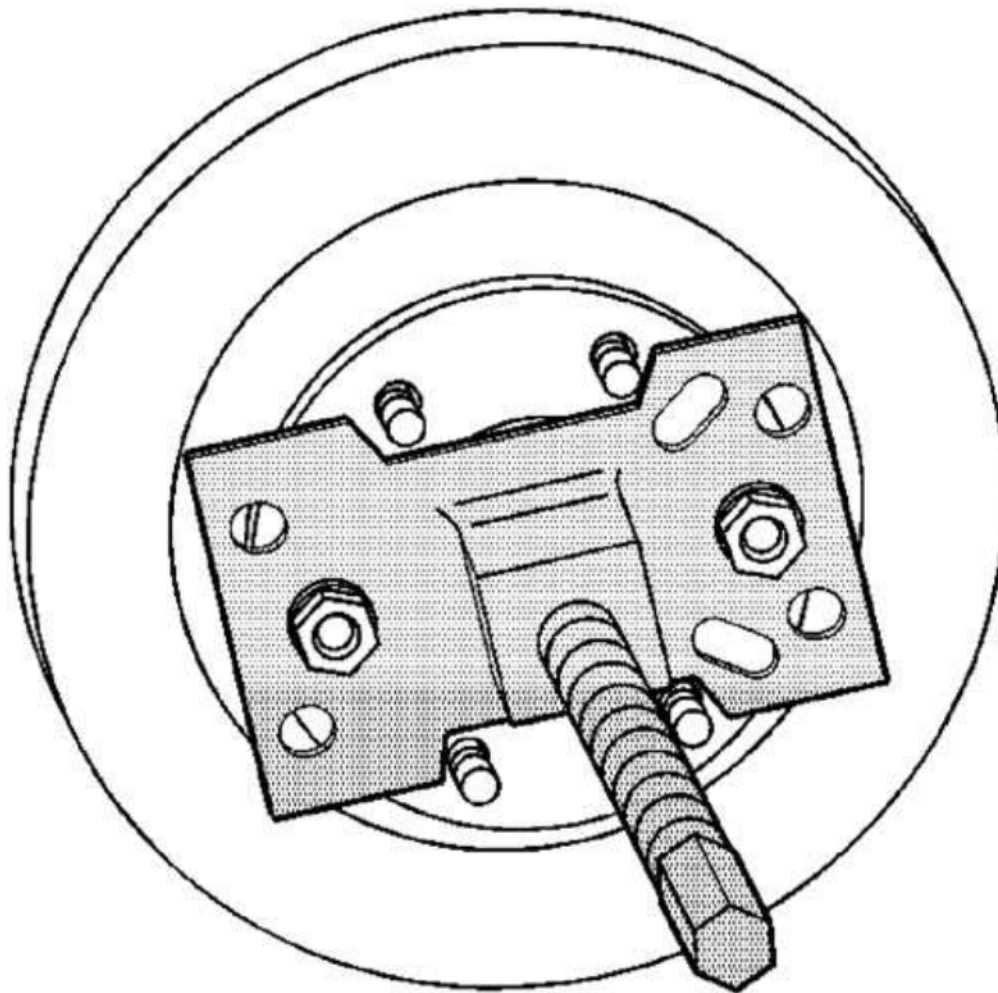


Fig. 6: Using J 45859 To Separate Wheel Driveshaft From Wheel Bearing/Hub
Courtesy of GENERAL MOTORS CORP.

10. Install **J 45859** or equivalent to the vehicle.
11. Using **J 45859** or equivalent carefully separate the wheel driveshaft from the wheel bearing/hub.
12. Remove the wheel bearing/hub from the vehicle.

Installation Procedure

NOTE: Refer to Fastener Notice in Cautions and Notices.

NOTE: Avoid tool contact to the outer constant velocity boot seal

when removing the wheel bearing mounting bolts. Failure to observe this notice may result in damage to the CV boot.

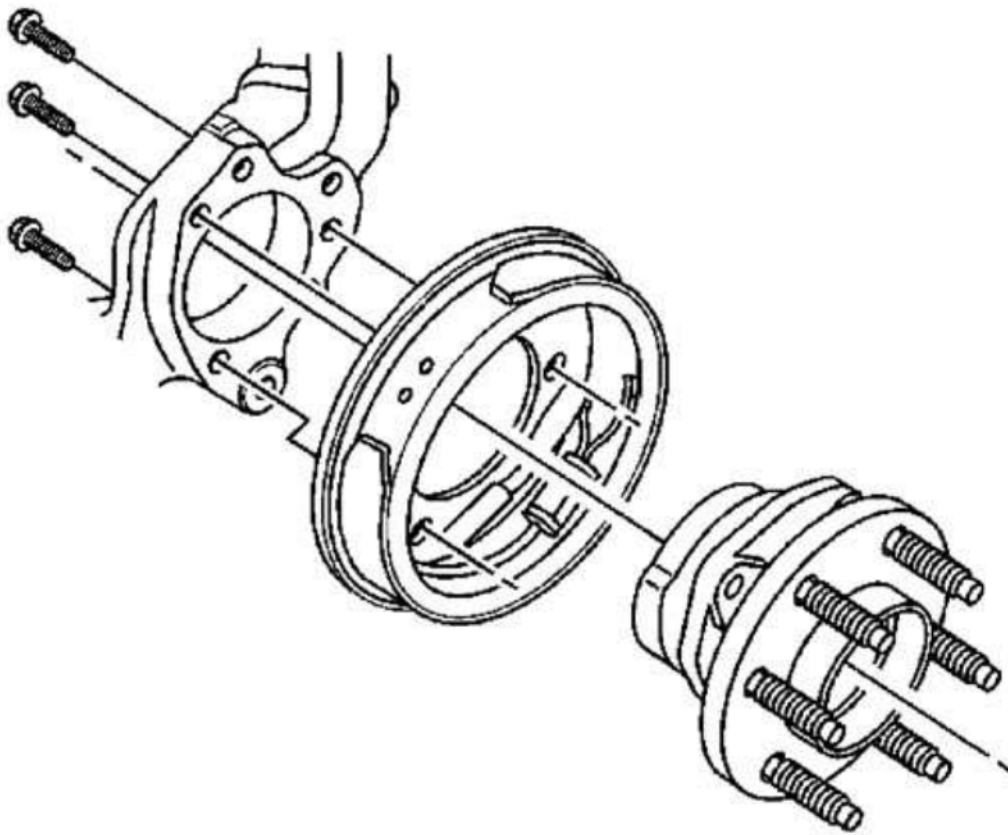


Fig. 7: View Of Rear Wheel Bearing/Hub Assembly
Courtesy of GENERAL MOTORS CORP.

1. Install the wheel bearing/hub to the vehicle.
2. Install the wheel bearing/hub retaining bolts.

Tighten: Tighten the bolts to 125 N.m (92 lb ft).

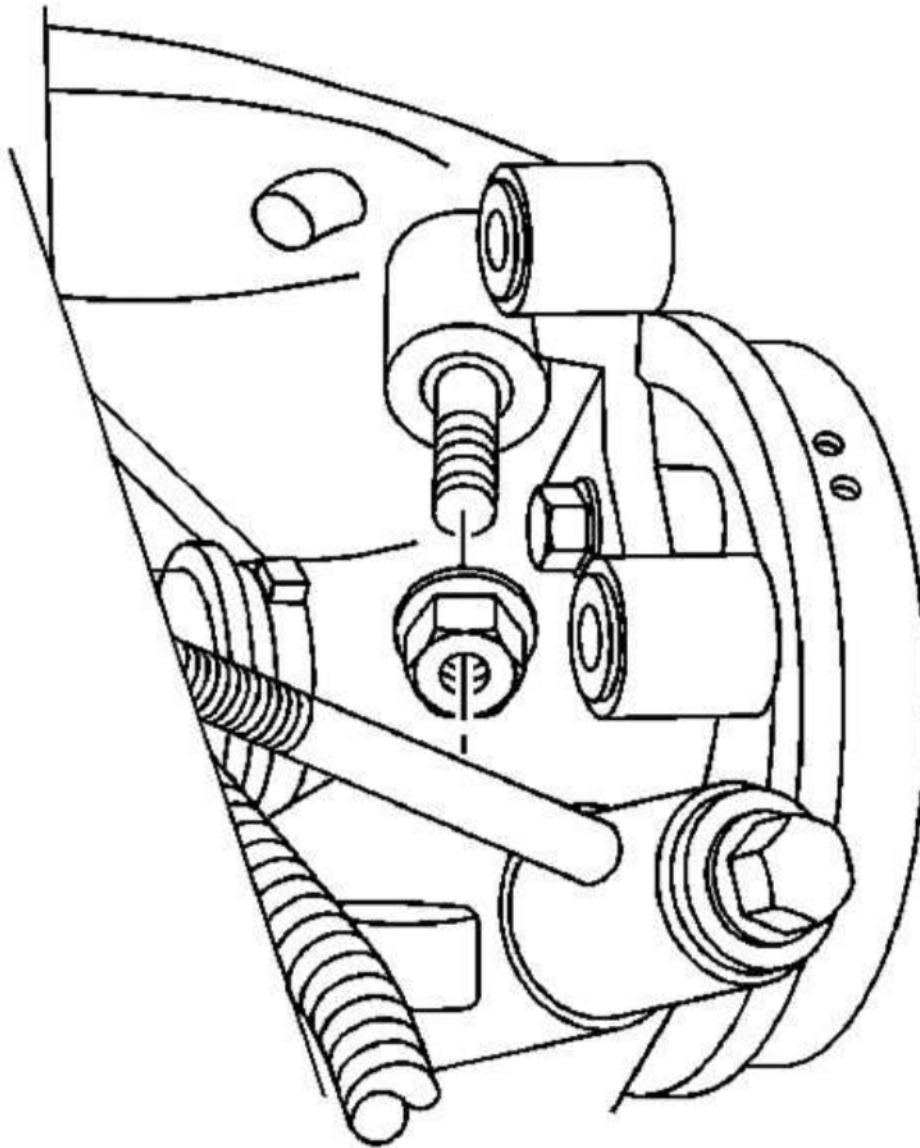


Fig. 8: View Of Upper Arm-To-Knuckle Retaining Nut
Courtesy of GENERAL MOTORS CORP.

3. Install the upper control arm to the knuckle.
4. Install the upper control arm to knuckle retaining nut.

Tighten: Tighten the upper ball joint nut to 20 N.m (15 lb ft) plus a additional 210 degree turn.

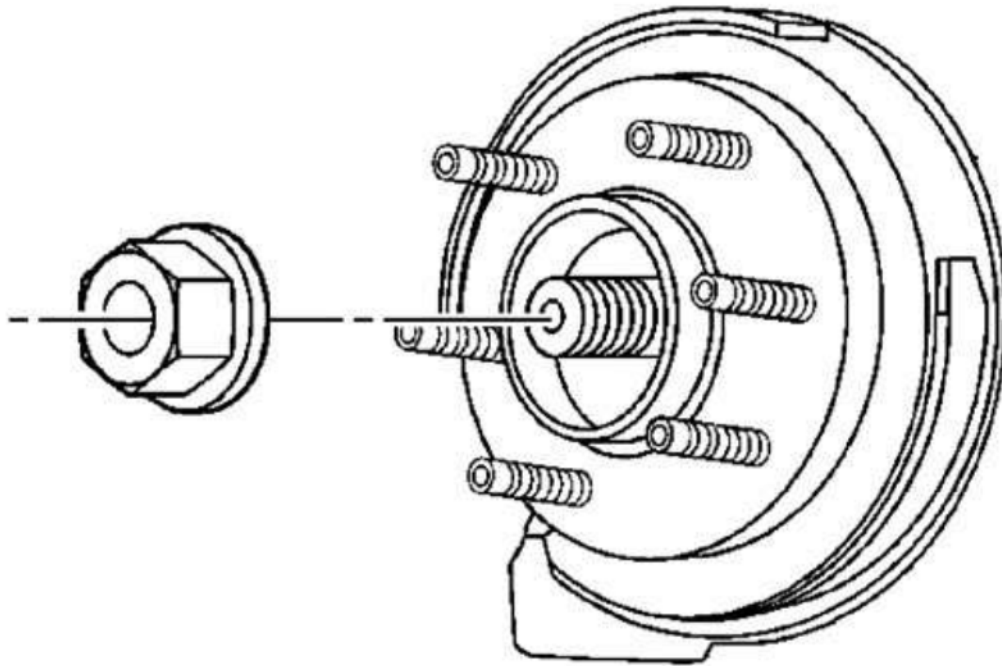


Fig. 9: View Of Wheel Drive Shaft Retaining Nut
Courtesy of GENERAL MOTORS CORP.

5. Install a new wheel drive shaft retaining nut.

Tighten: Tighten the nut to 160 N.m (118 lb ft).

6. Install the brake rotor. Refer to **Brake Rotor Replacement - Rear** in Disc Brakes.

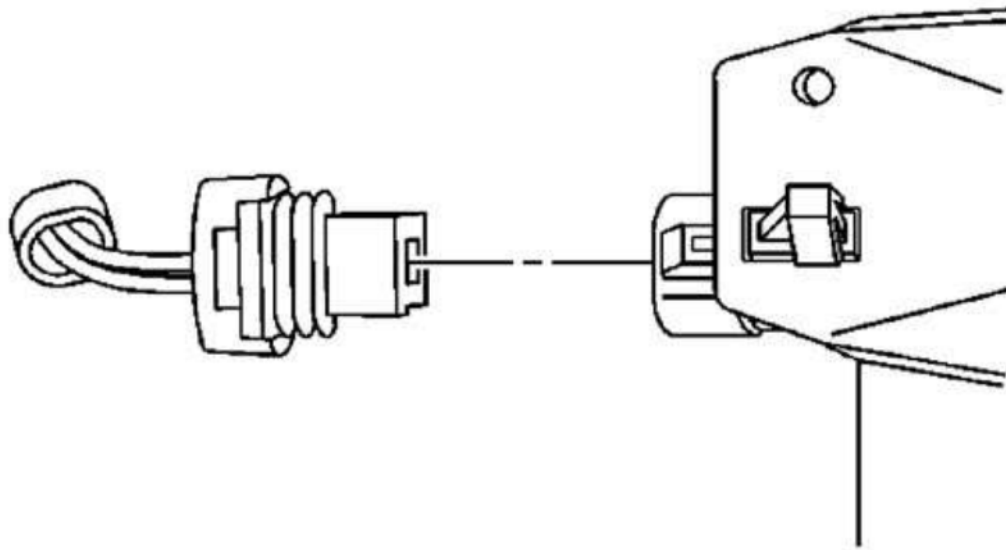


Fig. 10: View Of Wheel Speed Sensor Electrical Connector
Courtesy of GENERAL MOTORS CORP.

7. Connect the wheel speed sensor electrical connector to the backing plate.
8. Connect the wheel speed sensor electrical connector.
9. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
10. Lower the vehicle.

KNUCKLE REPLACEMENT

Tools Required

- **J 45859** Axle Remover
- **J 43631** Ball Joint Remover

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
3. Remove the rear brake rotor. Refer to **Brake Rotor Replacement - Rear** in Disc Brakes.

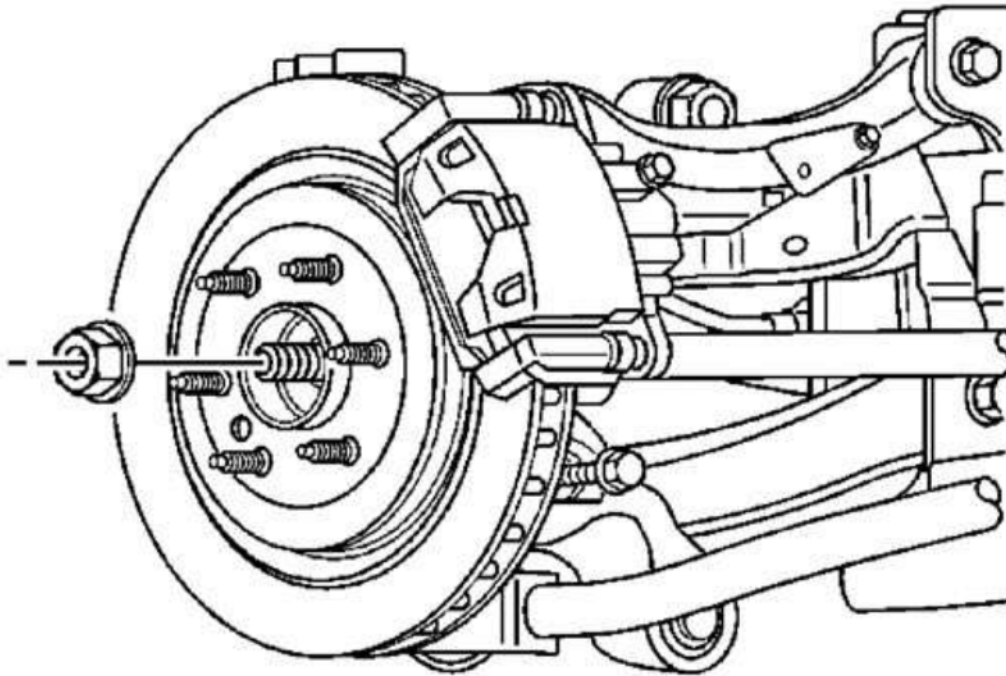


Fig. 11: View Of Wheel Drives Shaft Nut
Courtesy of GENERAL MOTORS CORP.

4. Remove the wheel driveshaft nut and discard.

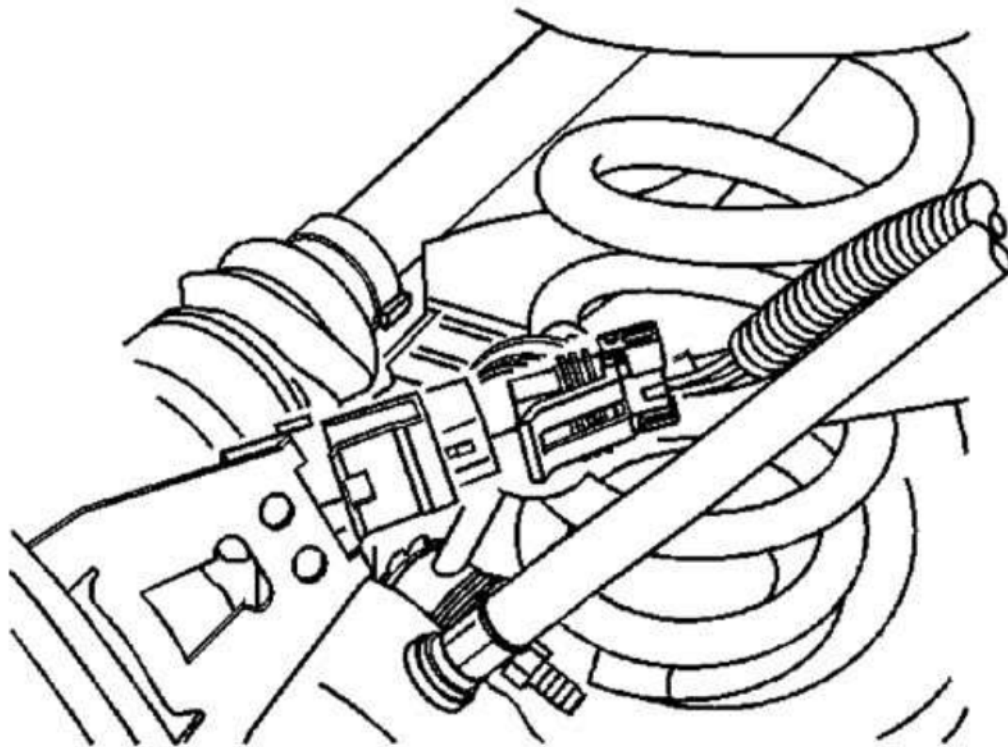


Fig. 12: View Of Rear Wheel Speed Sensor Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the Antilock Brake System (ABS) sensor harness connector.
6. Disconnect the ABS sensor harness connector from the backing plate.

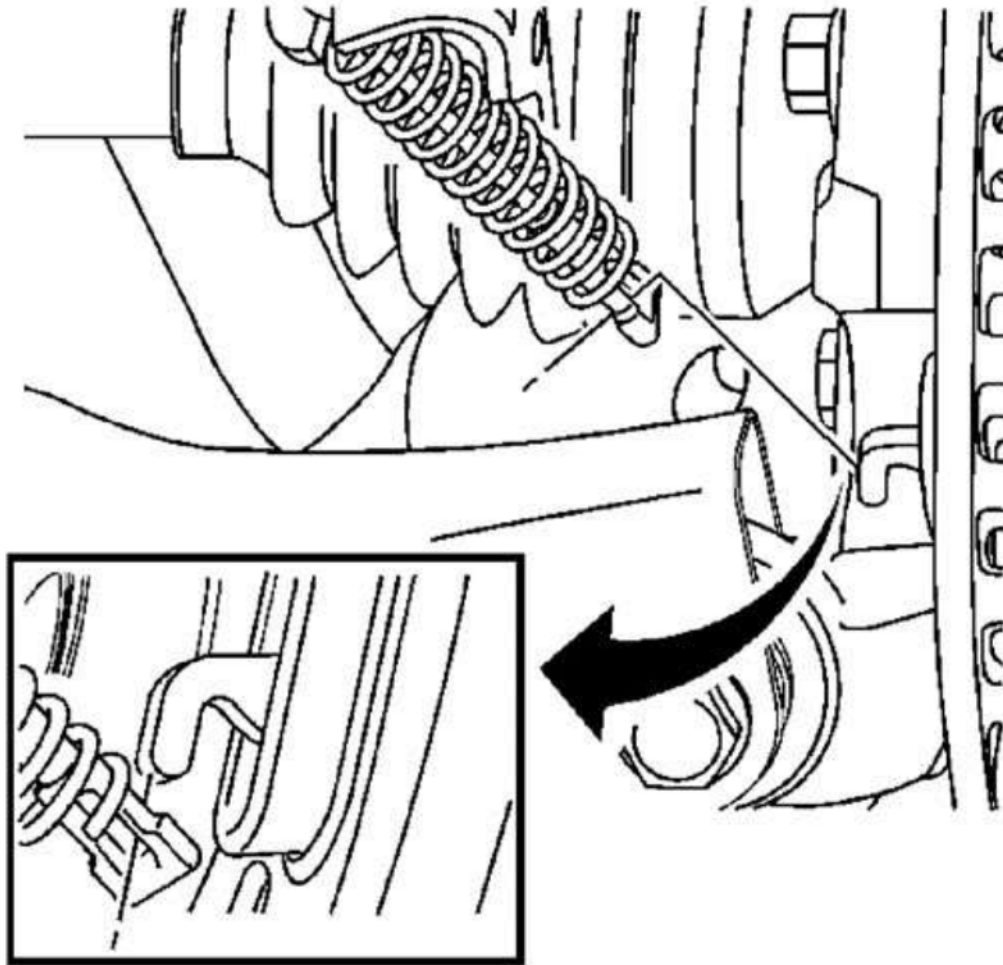


Fig. 13: Removing Parking Brake Cable
Courtesy of GENERAL MOTORS CORP.

7. Remove the parking brake cable bracket from the knuckle. Refer to **Park Brake Cable Mounting Bracket Replacement** in Park Brake.
8. Remove the parking brake cable from the parking brake lever (3).

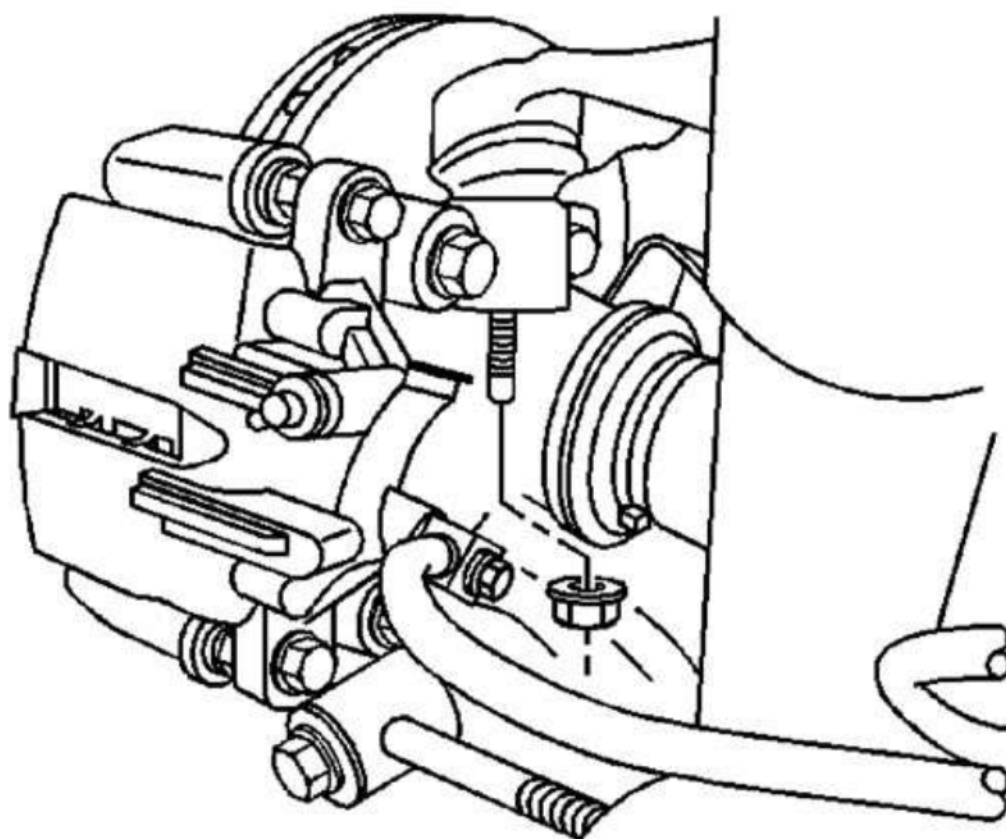


Fig. 14: View Of Upper Ball Joint Mounting Nut
Courtesy of GENERAL MOTORS CORP.

9. Remove the upper ball joint mounting nut.

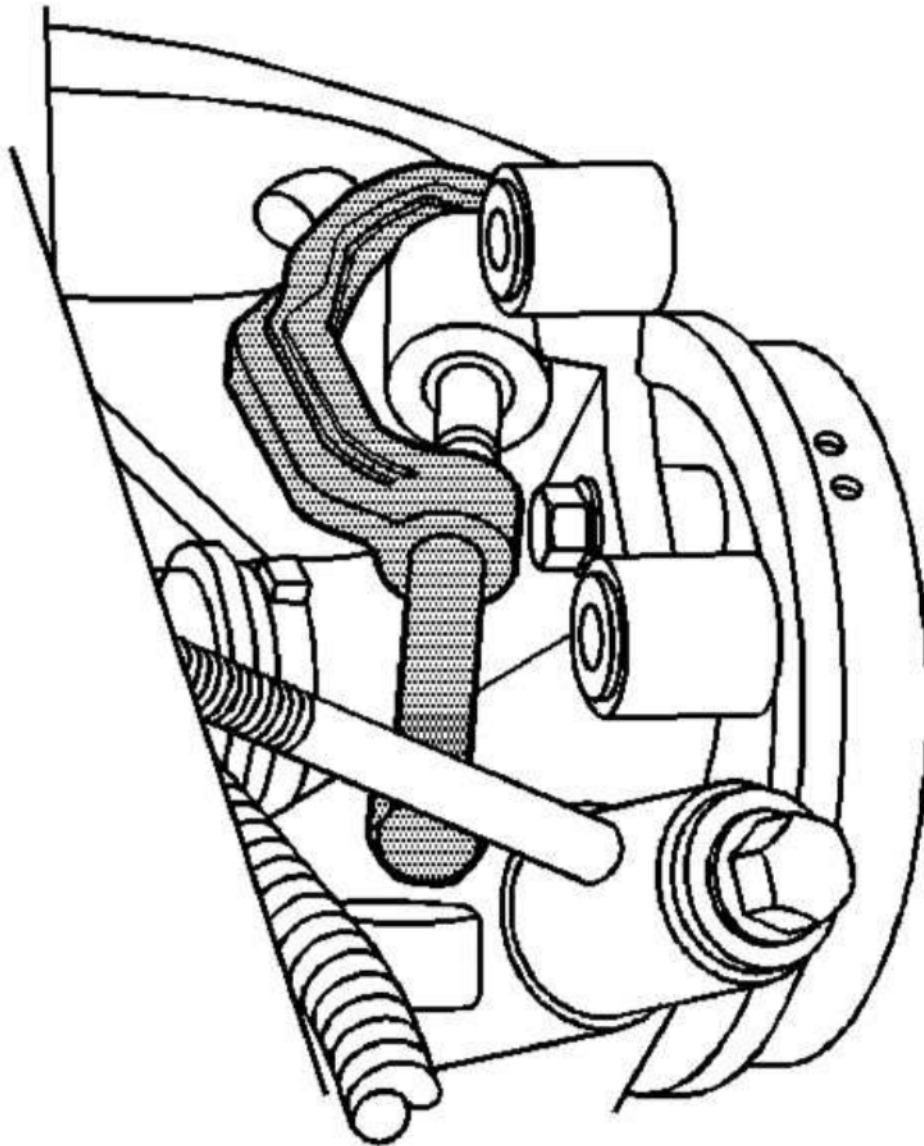


Fig. 15: Separating The Upper Control Arm From The Knuckle Using J 43631
Courtesy of GENERAL MOTORS CORP.

10. Using **J 43631** separate the ball stud from the knuckle.

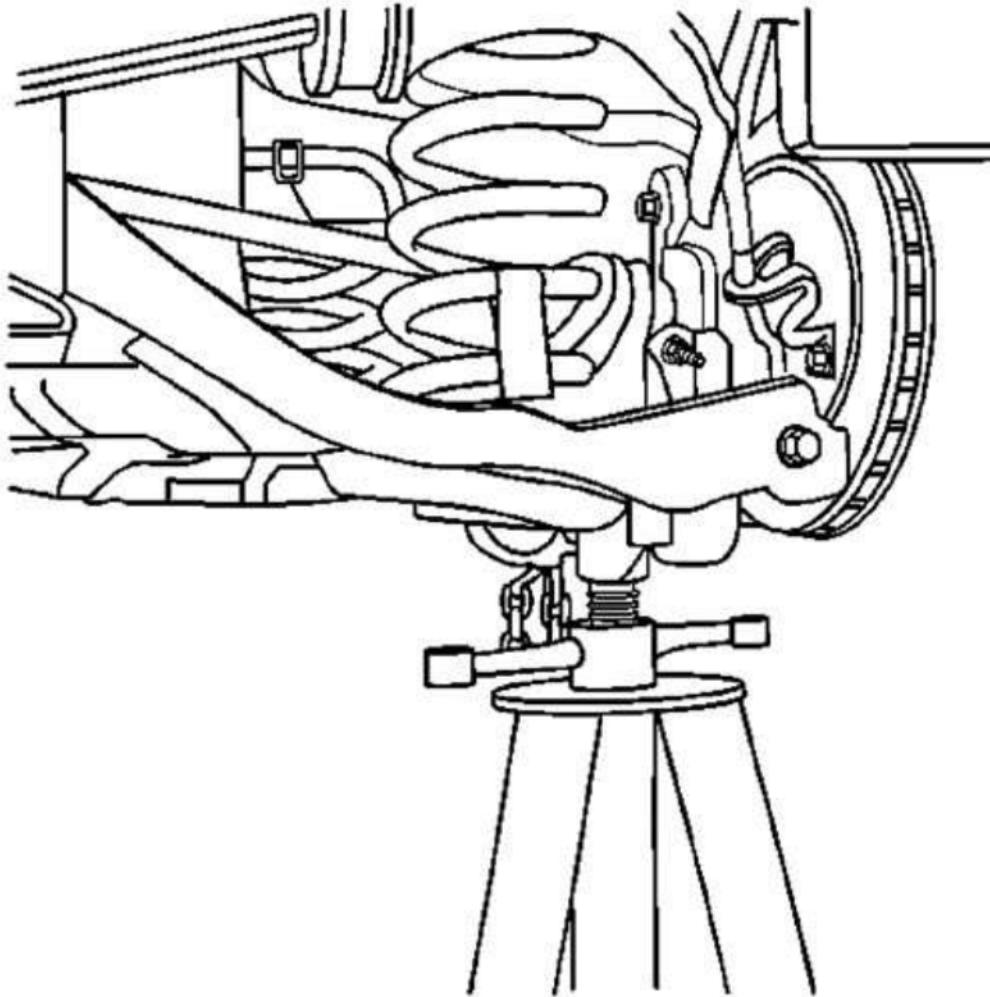


Fig. 16: Supporting Lower Control Arm
Courtesy of GENERAL MOTORS CORP.

11. Support the lower control arm with a suitable jack.

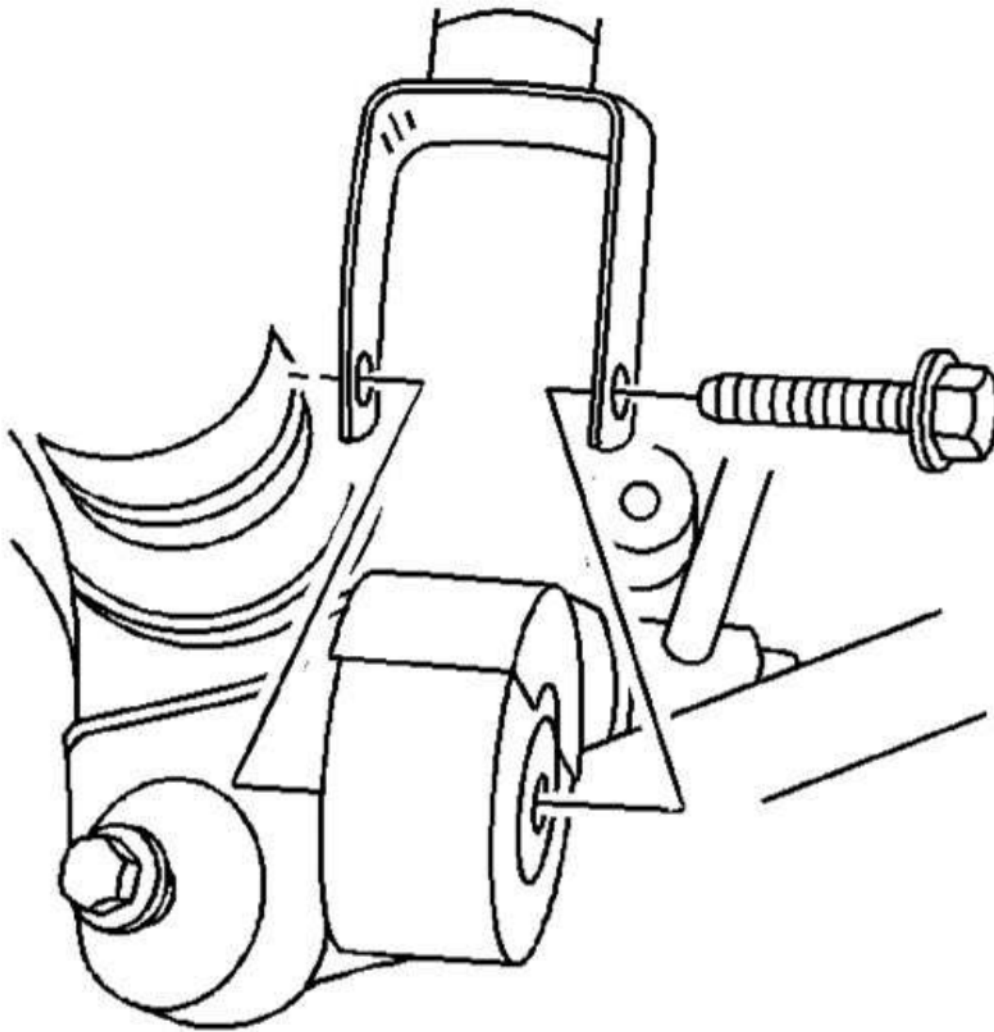


Fig. 17: View Of Lower Shock Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

12. Remove the lower shock mounting bolt.

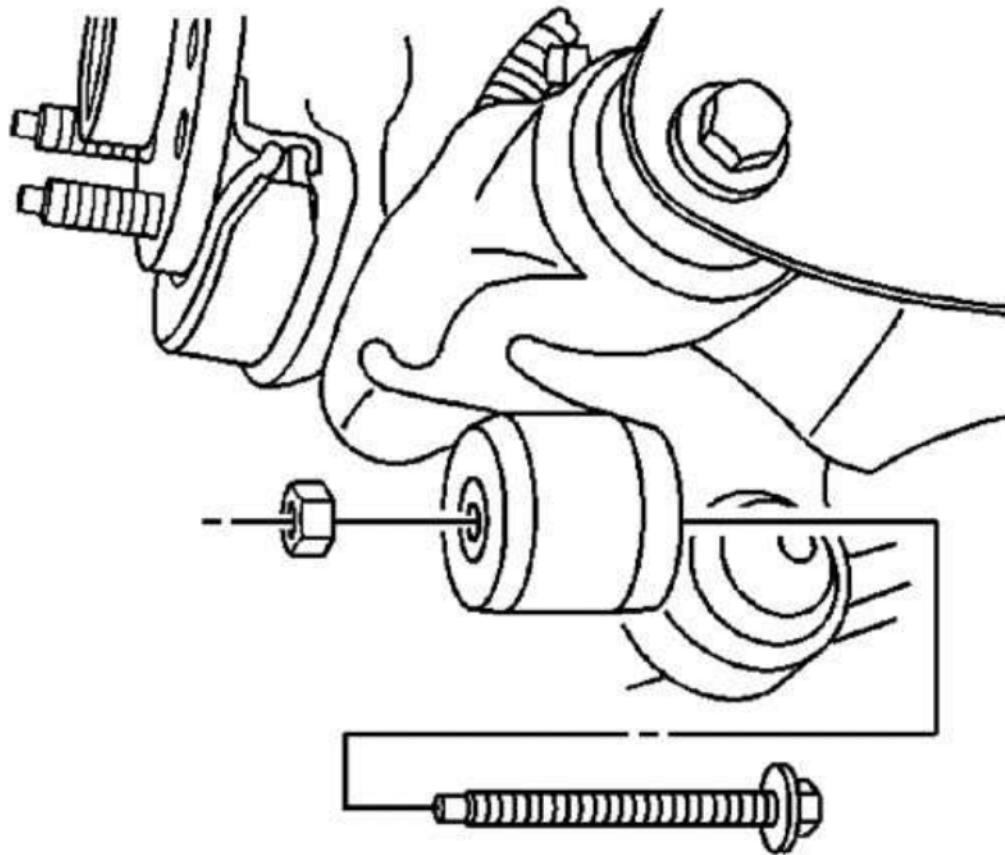


Fig. 18: View Of Trailing Arm-To-Knuckle Mounting Bolt & Nut
Courtesy of GENERAL MOTORS CORP.

13. Remove the trailing arm to knuckle mounting bolt and nut.

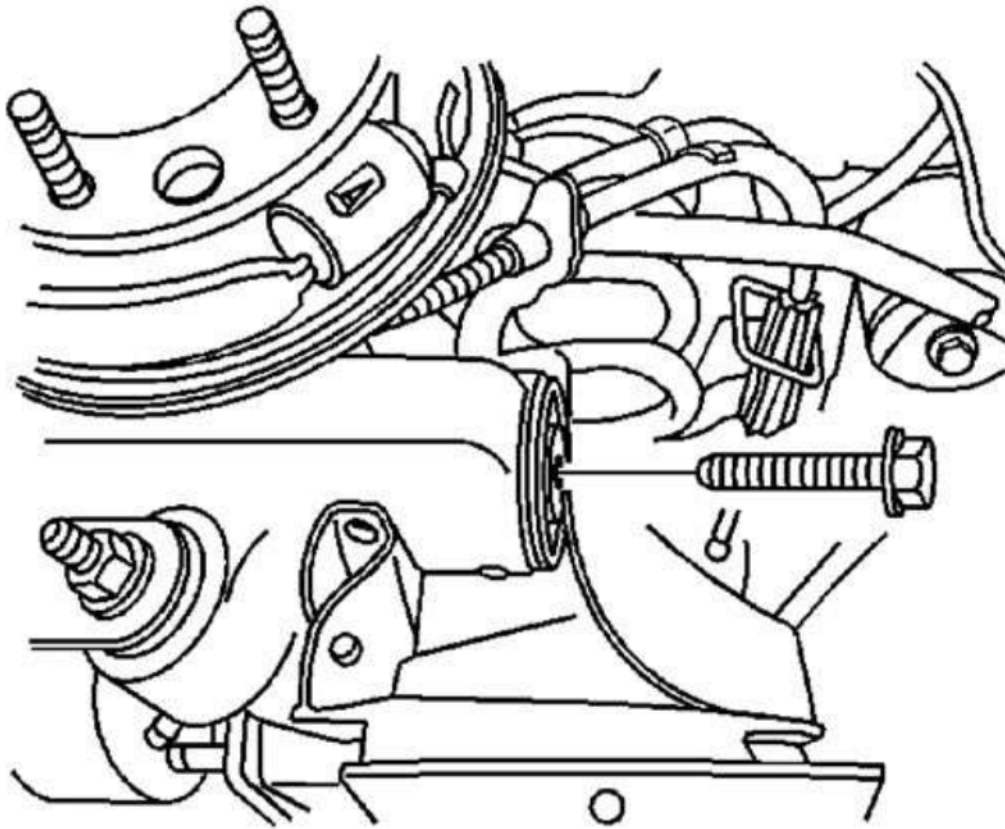


Fig. 19: View Of Lower Control Arm-To-Knuckle Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

14. Remove the lower control arm to knuckle mounting bolt.

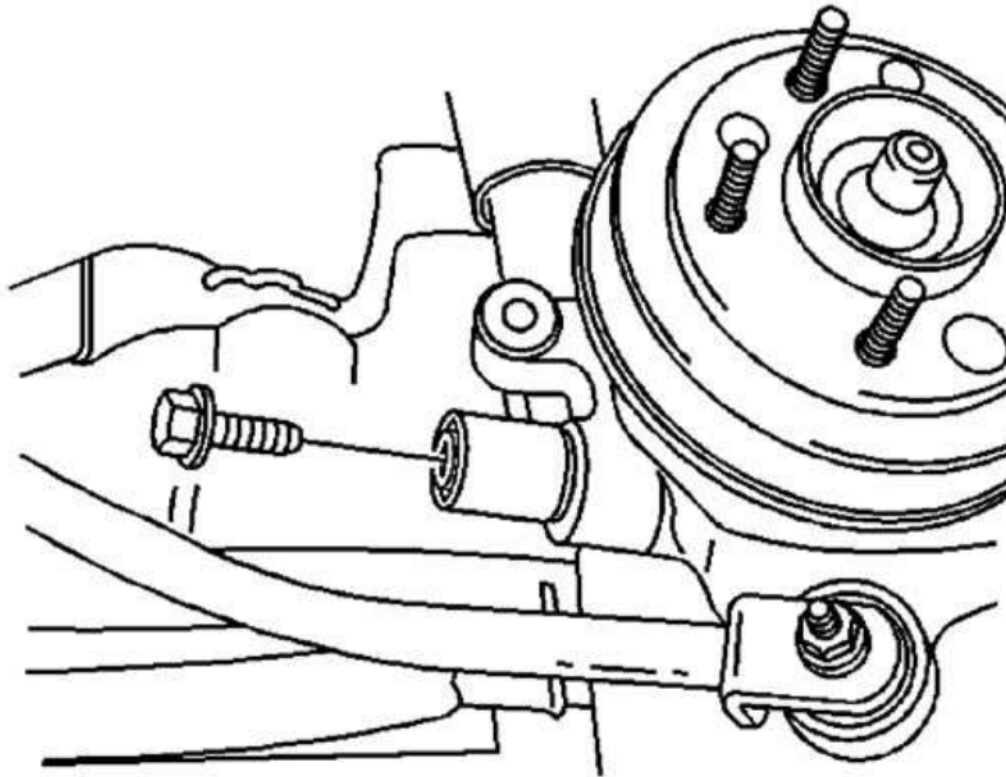


Fig. 20: View Of Adjustment Link-To-Knuckle Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

15. Remove the adjustment link to knuckle mounting bolt.

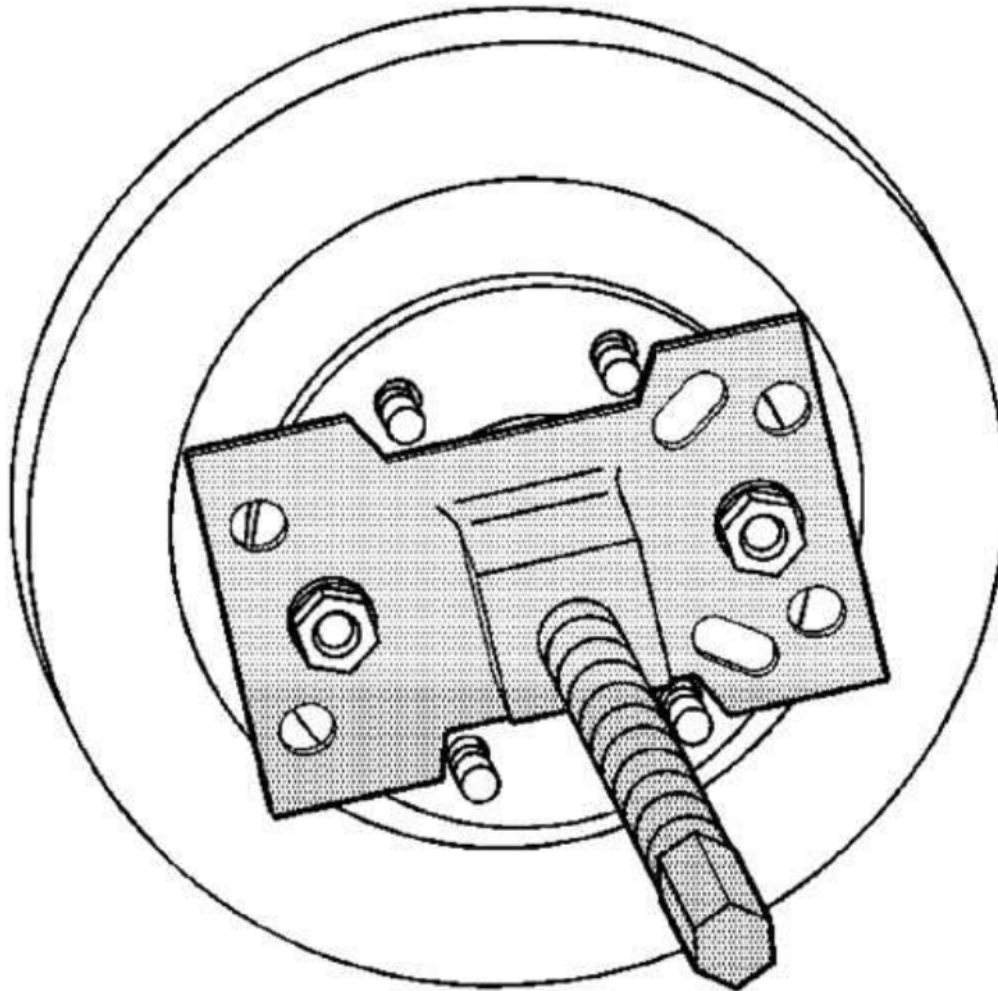


Fig. 21: View Of J 45859

Courtesy of GENERAL MOTORS CORP.

16. Install **J 45859** or equivalent to the wheel bearing/hub.

IMPORTANT: May need to use the wheel hub remover to fully disengage the wheel bearing/hub from the drive axle.

17. Using the **J 45859** or equivalent, disengage the wheel drive shaft from the wheel bearing/hub.

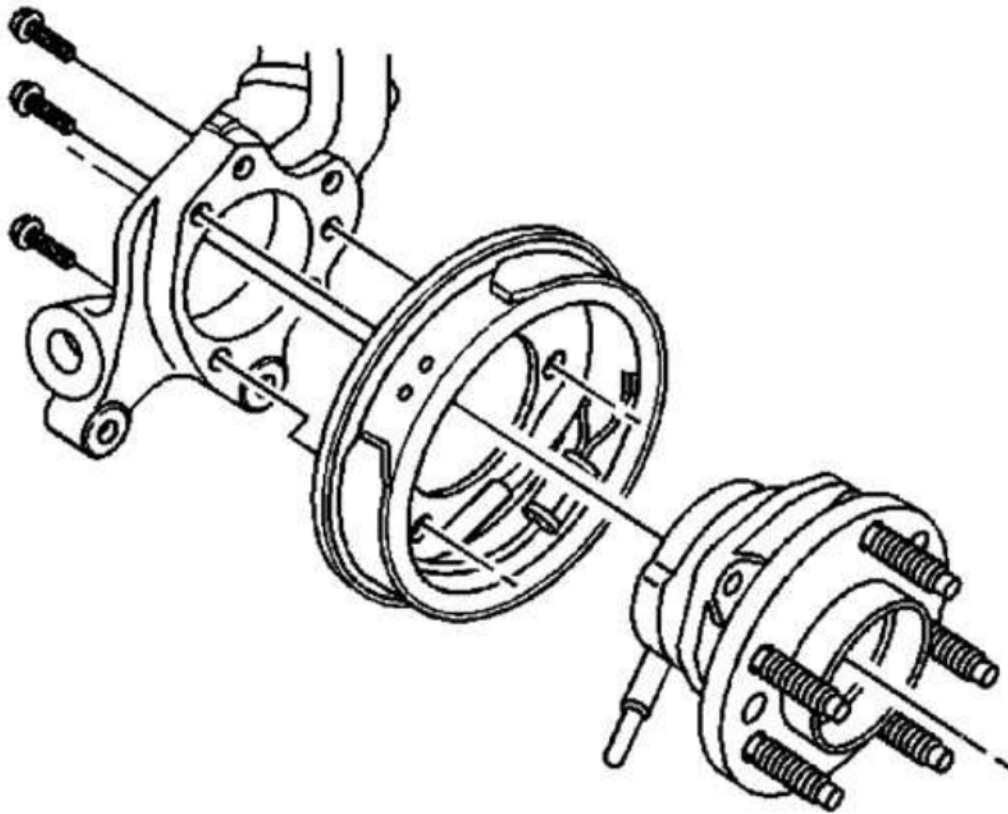


Fig. 22: View Of Rear Wheel Bearing/Hub Bolts
Courtesy of GENERAL MOTORS CORP.

18. Remove the knuckle from the vehicle.
19. Remove the wheel bearing/hub bolts.
20. Remove the knuckle and backing plate from the wheel bearing/hub.

Installation Procedure

1. Install the knuckle and backing plate to the wheel bearing/hub.

NOTE: **Refer to Fastener Notice in Cautions and Notices.**

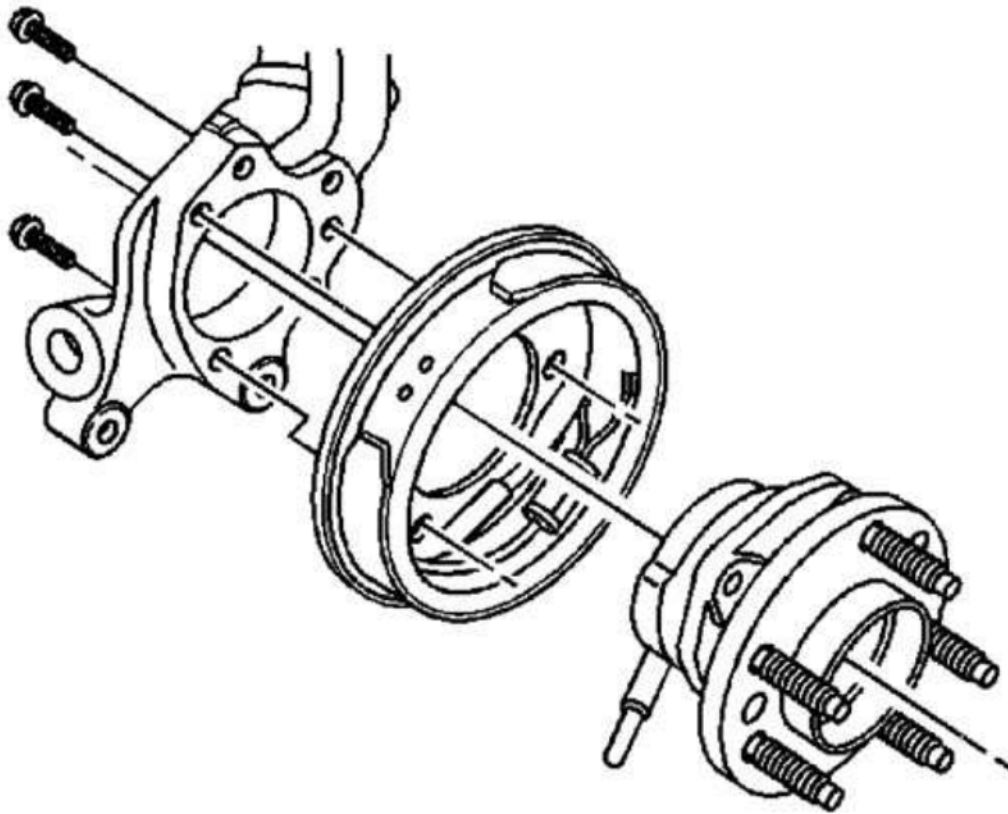


Fig. 23: View Of Rear Wheel Bearing/Hub Bolts
Courtesy of GENERAL MOTORS CORP.

2. Install the wheel bearing/hub mounting bolts.

Tighten: Tighten the bolts to 125 N.m (92 lb ft).

3. Install the knuckle to the vehicle.

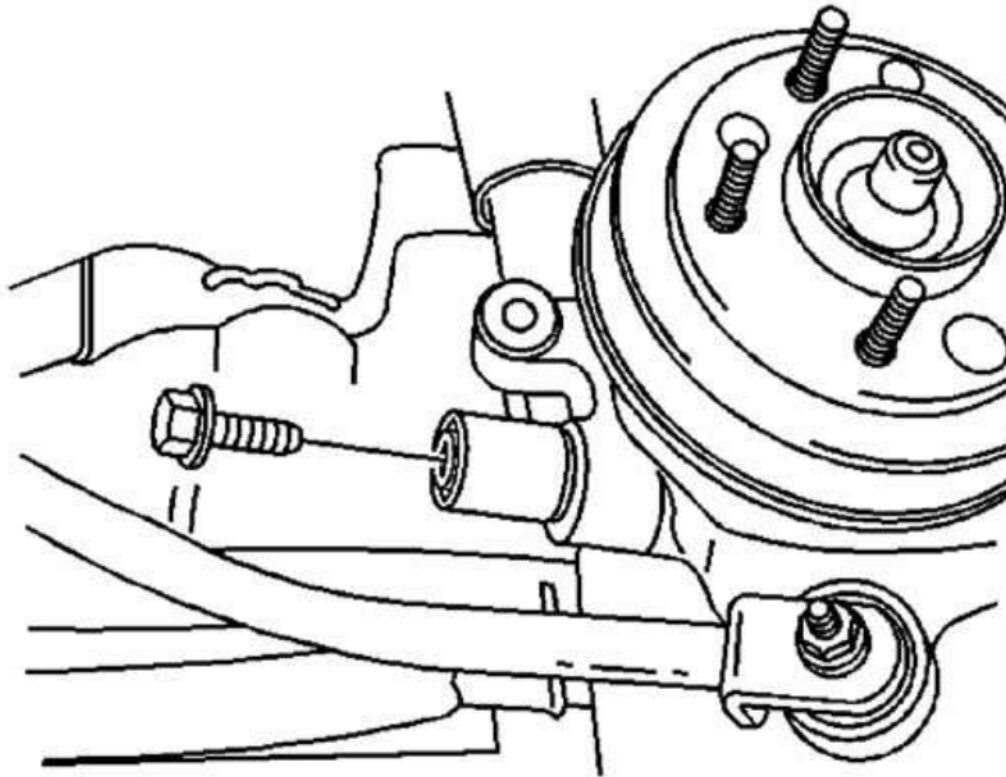


Fig. 24: View Of Adjustment Link-To-Knuckle Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Loosely install all fasteners before tightening.

4. Install the adjustment link to knuckle mounting bolt.

Tighten: Tighten the adjustment link to knuckle bolt to 160 N.m (118 lb ft).

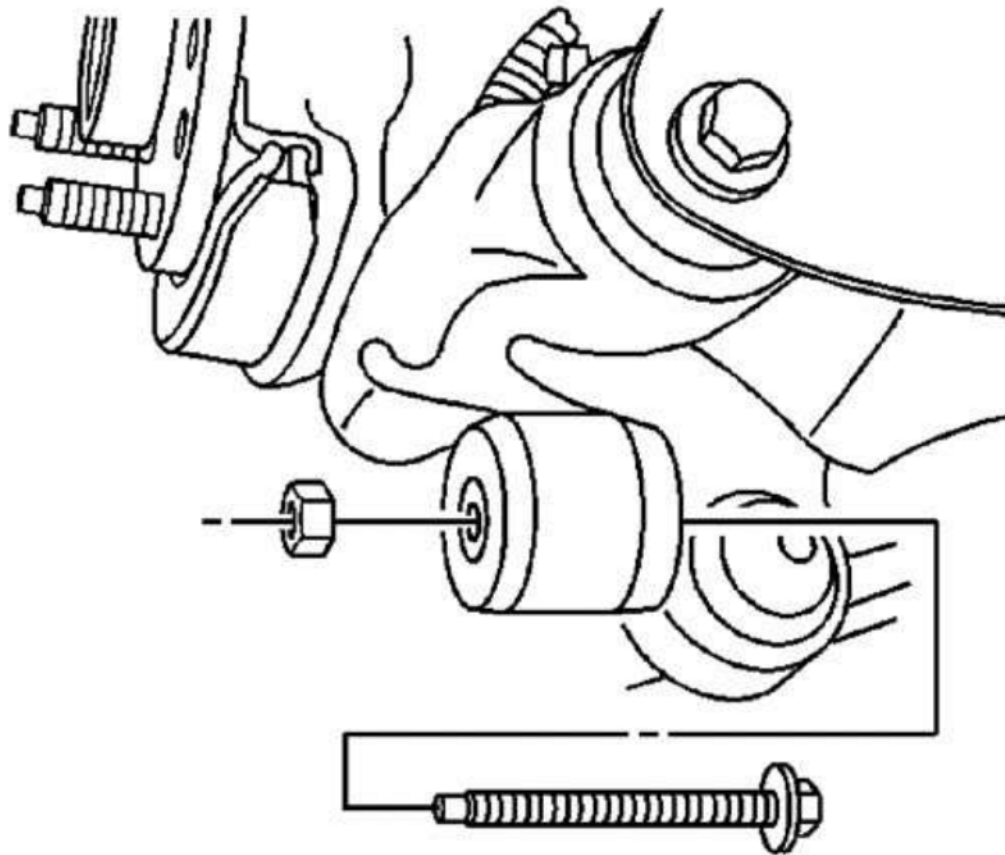


Fig. 25: View Of Trailing Arm-To-Knuckle Mounting Bolt & Nut
Courtesy of GENERAL MOTORS CORP.

5. Install the trailing arm to knuckle mounting bolt and nut.

Tighten: Tighten the trailing arm to knuckle bolt to 170 N.m (125 lb ft).

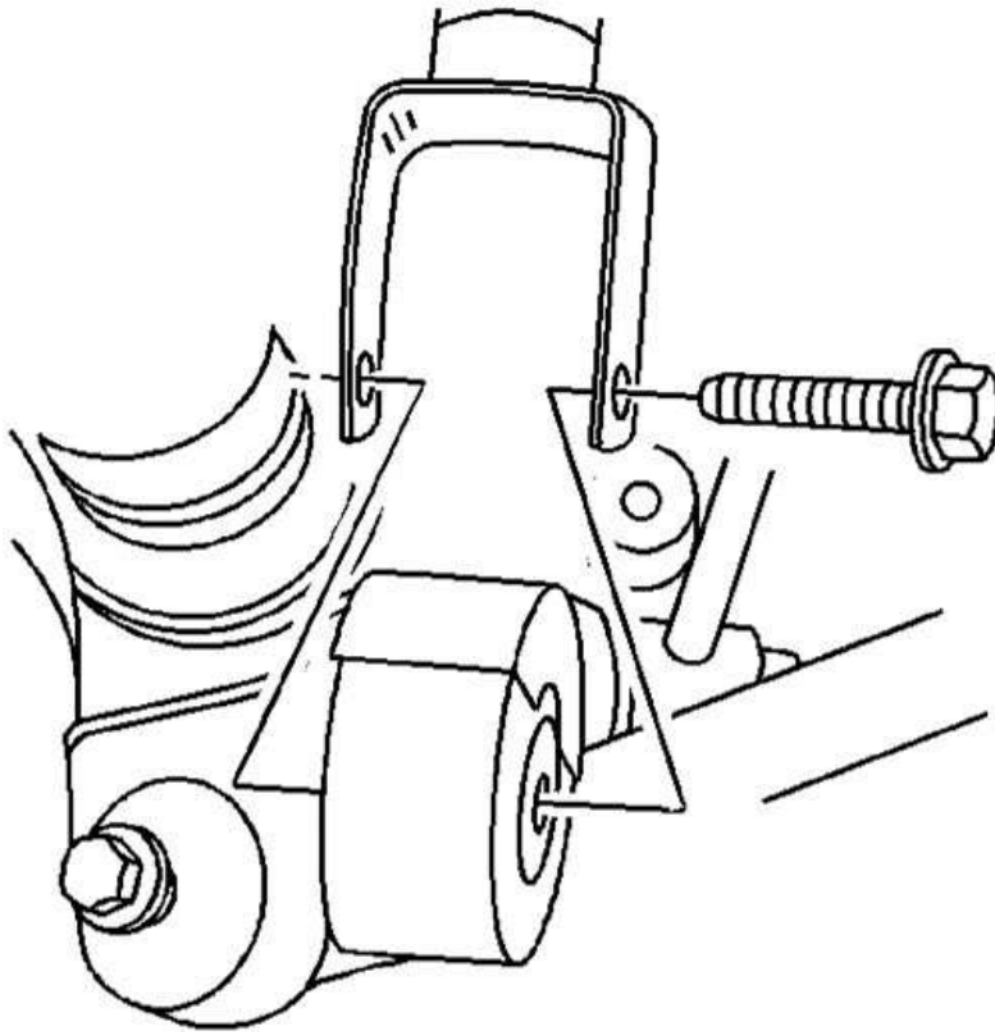


Fig. 26: View Of Lower Shock Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

6. Install the lower shock and mounting bolt.

Tighten: Tighten the lower shock mounting bolt to 150 N.m (111 lb ft).

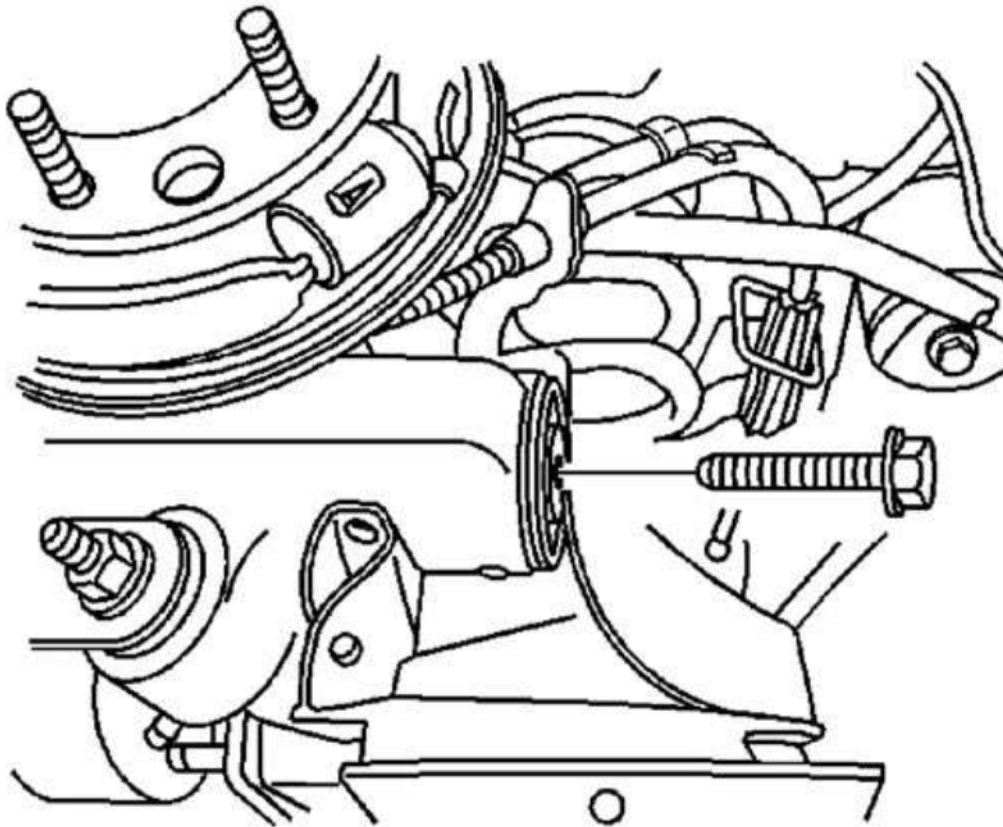


Fig. 27: View Of Lower Control Arm-To-Knuckle Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

7. Install the lower control arm to knuckle mounting bolt.

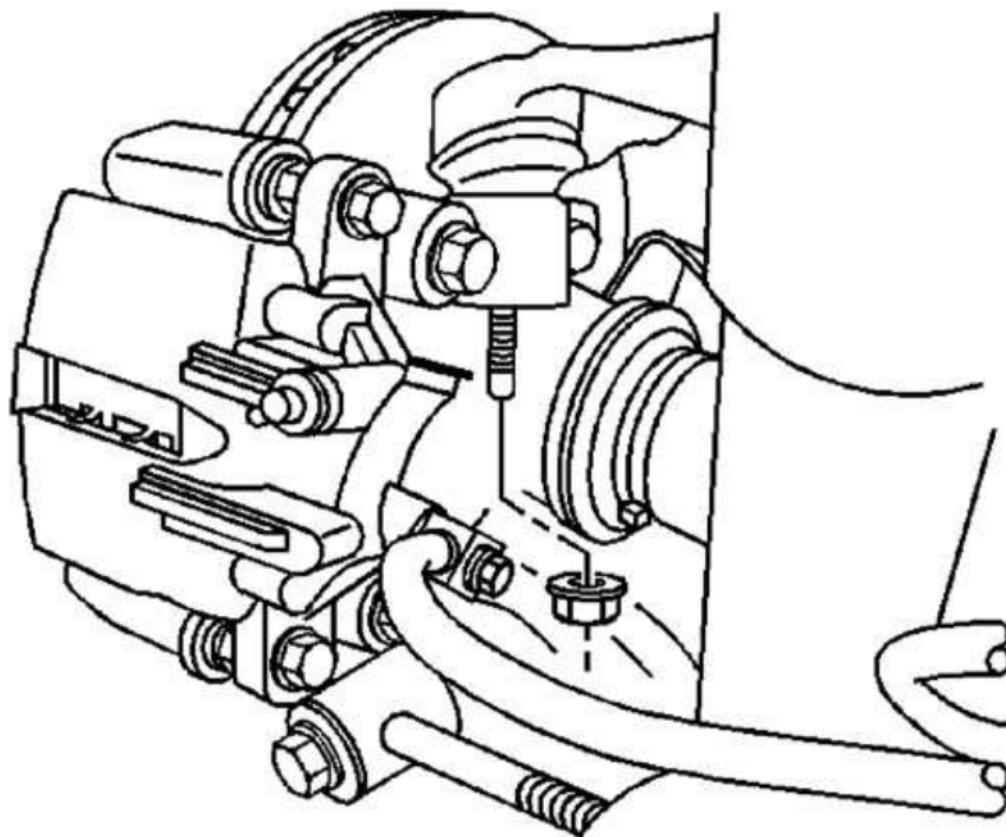


Fig. 28: View Of Upper Ball Joint Mounting Nut
Courtesy of GENERAL MOTORS CORP.

8. Connect the upper ball joint to the knuckle.
9. Install the upper ball joint mounting nut.
10. Install the parking brake cable bracket to the knuckle. Refer to **Park Brake Cable Mounting Bracket Replacement** in Park Brake.
11. Remove the jack.

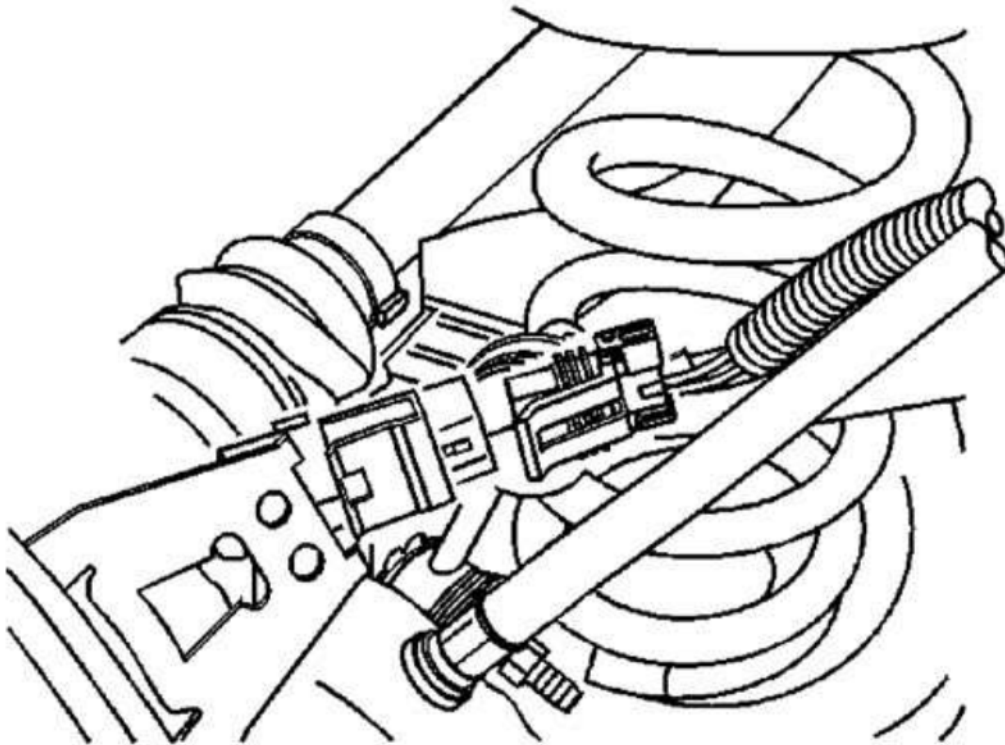


Fig. 29: View Of Rear Wheel Speed Sensor Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

12. Connect the ABS sensor electrical connector to the backing plate.
13. Connect the ABS sensor electrical connector.

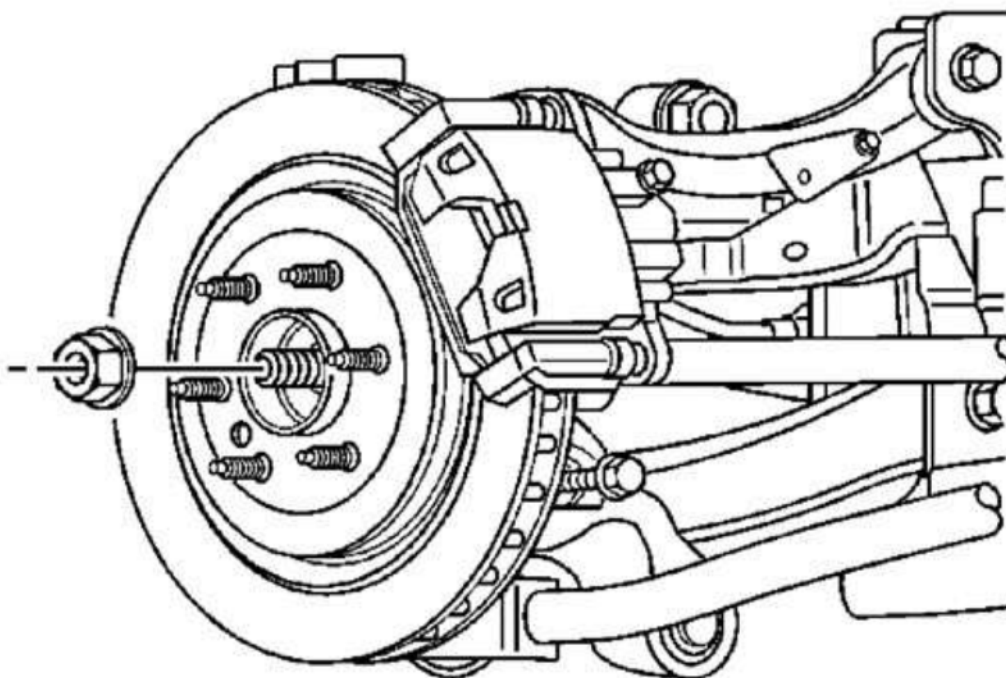


Fig. 30: View Of Wheel Drive Shaft Nut
Courtesy of GENERAL MOTORS CORP.

14. Install a new wheel drive shaft nut.

Tighten: Tighten the nut to 160 N.m (118 lb ft).

15. Install the brake rotor. Refer to **Brake Rotor Replacement - Rear** in Disc Brakes.
16. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
17. Lower the vehicle.

STABILIZER SHAFT REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the tires and wheels. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
3. Remove the stabilizer shaft links to the stabilizer shaft upper retaining nuts.

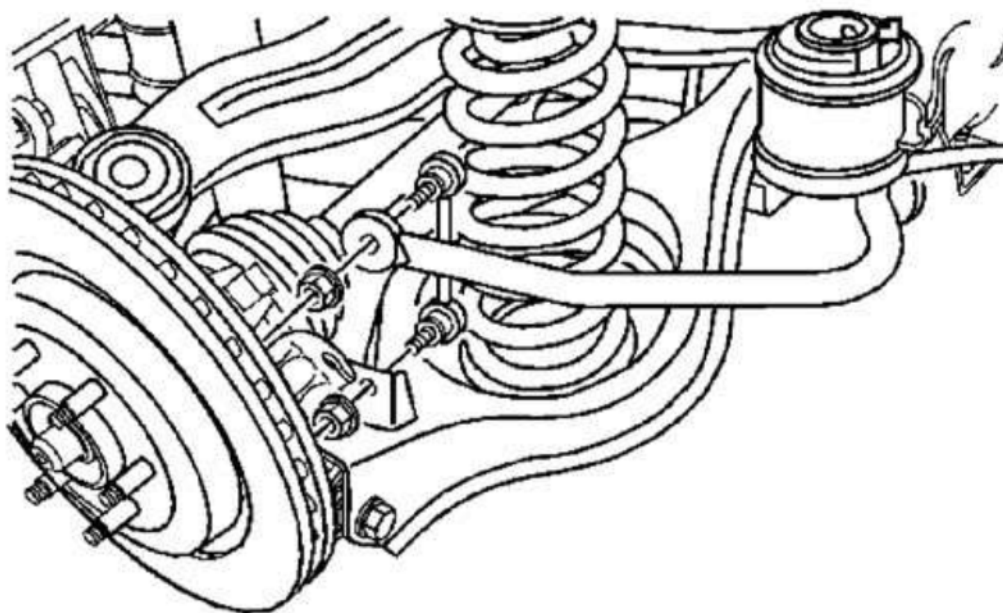


Fig. 31: View Of Stabilizer Shaft Links-To-Stabilizer Shaft Nuts
Courtesy of GENERAL MOTORS CORP.

4. Remove the stabilizer shaft links from the stabilizer shaft.

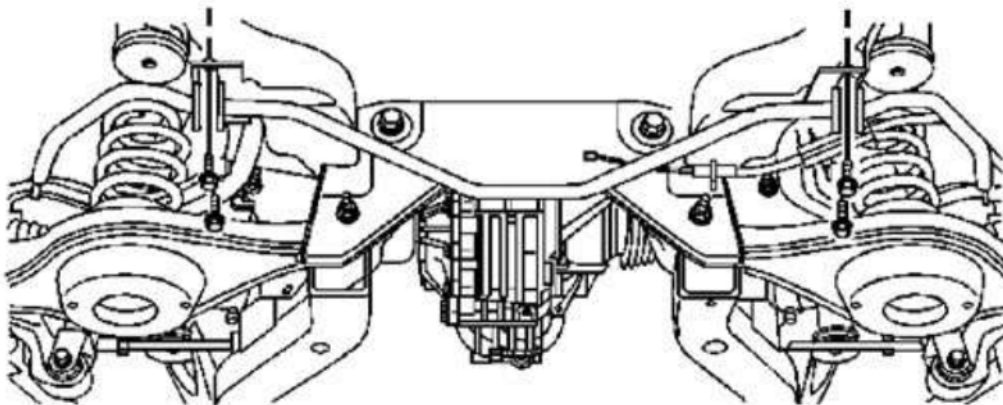


Fig. 32: View Of Stabilizer Shaft Brackets Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

5. Remove the stabilizer shaft brackets mounting bolts.
6. Remove the stabilizer shaft brackets.
7. Remove the stabilizer shaft from the vehicle.
8. Remove the stabilizer shaft insulator from the stabilizer shaft.

Installation Procedure

1. Install the stabilizer shaft insulator to the stabilizer shaft with the slit facing forwards.

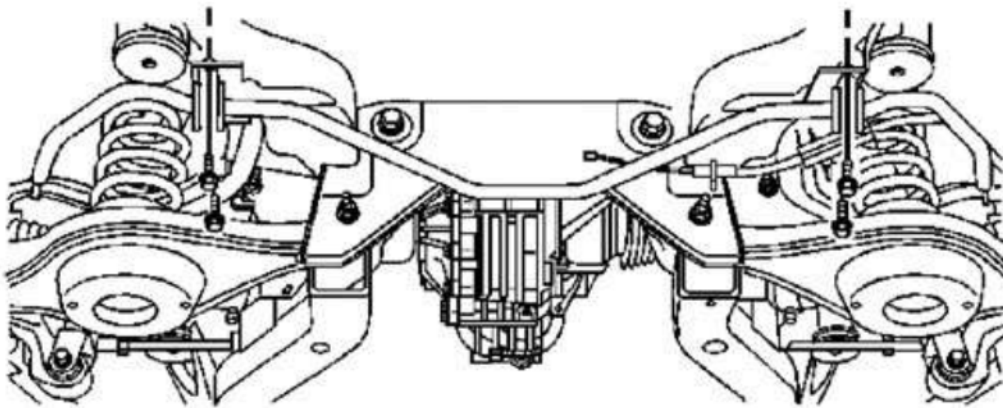


Fig. 33: View Of Stabilizer Shaft Brackets Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

2. Install the stabilizer shaft to the vehicle.

IMPORTANT: Loosely install all components before tightening.

3. Install the stabilizer shaft brackets and mounting bolts.

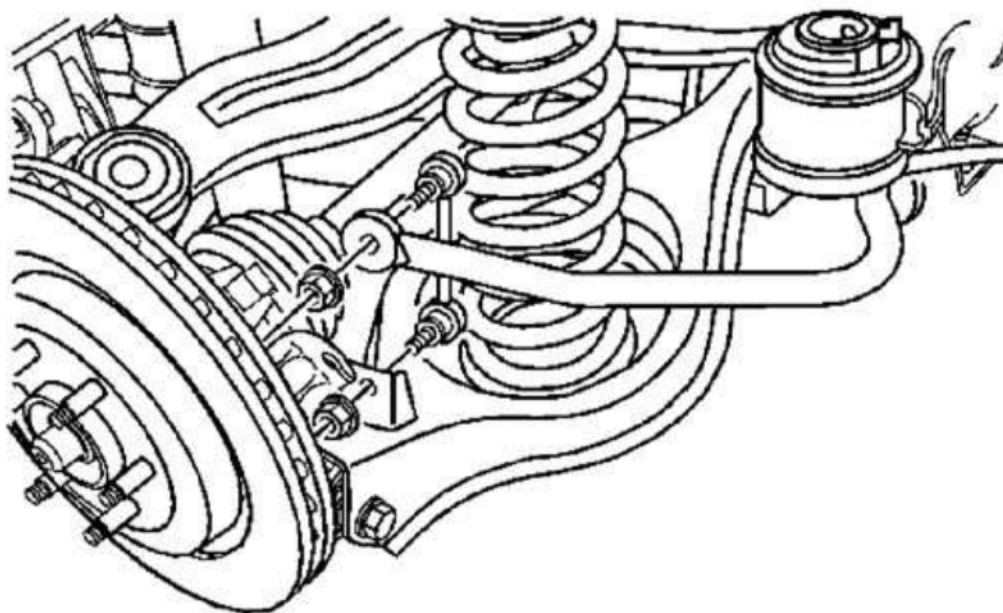


Fig. 34: View Of Stabilizer Shaft Links-To-Stabilizer Shaft Nuts
Courtesy of GENERAL MOTORS CORP.

4. Install the stabilizer shaft links to the stabilizer shaft.

NOTE: Refer to Fastener Notice in Cautions and Notices.

5. Install the stabilizer shaft links to the stabilizer shaft retaining nuts.

Tighten:

- Tighten the stabilizer shaft bracket bolts to 60 N.m (44 lb ft).
- Tighten the stabilizer shaft links nuts to 90 N.m (67 lb ft).

6. Install the tire and wheel. Refer to Tire and Wheel Removal and Installation in Tires and Wheels.
7. Lower the vehicle.

STABILIZER SHAFT INSULATOR REPLACEMENT

Removal Procedure

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

2. Remove the stabilizer shaft mounting bolts.
3. Remove the stabilizer shaft bracket.

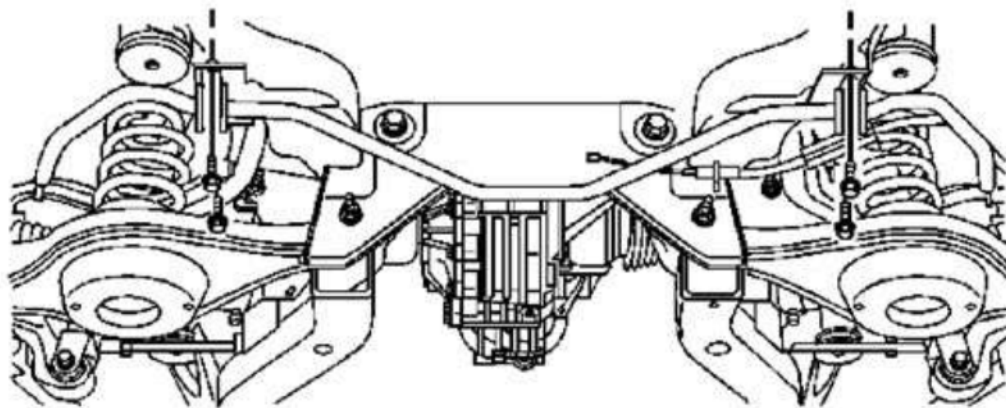


Fig. 35: View Of Stabilizer Shaft Brackets Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

4. Remove the stabilizer shaft insulator from the stabilizer shaft.

Installation Procedure

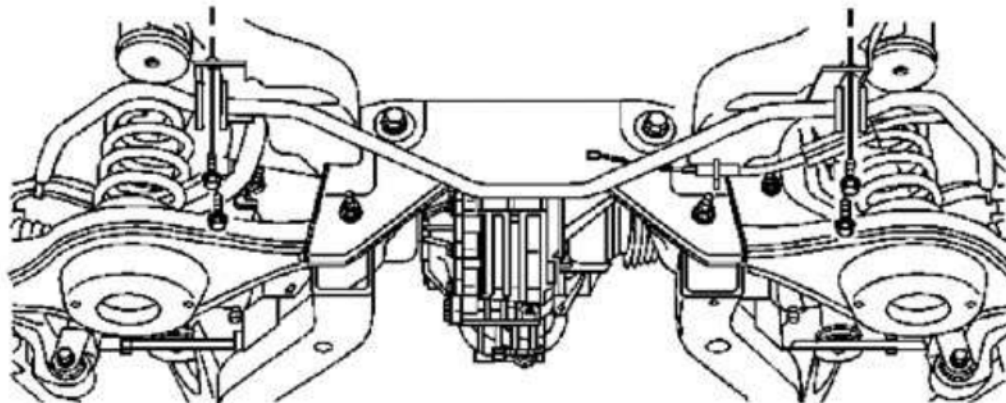


Fig. 36: View Of Stabilizer Shaft Brackets Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

1. Install the stabilizer shaft insulator to the stabilizer shaft with the slit facing forwards.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the stabilizer shaft bracket.
3. Install the stabilizer shaft bracket mounting bolts.

Tighten: Tighten the bolts to 60 N.m (44 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 in General Information.
2. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation in Tires and Wheels.

IMPORTANT: Hold the shaft link stud with a hex tool to prevent damage to the link seal.

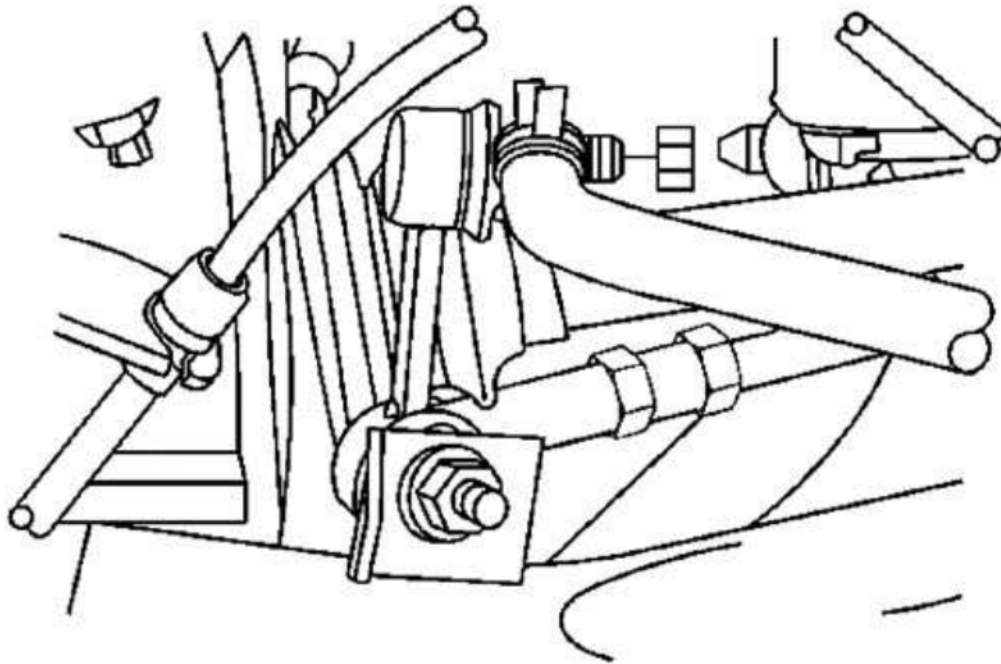


Fig. 37: Locating Stabilizer Shaft Link Retaining Nuts
Courtesy of GENERAL MOTORS CORP.

3. Remove the stabilizer shaft link retaining nuts.
4. Remove the stabilizer shaft link from the stabilizer shaft.

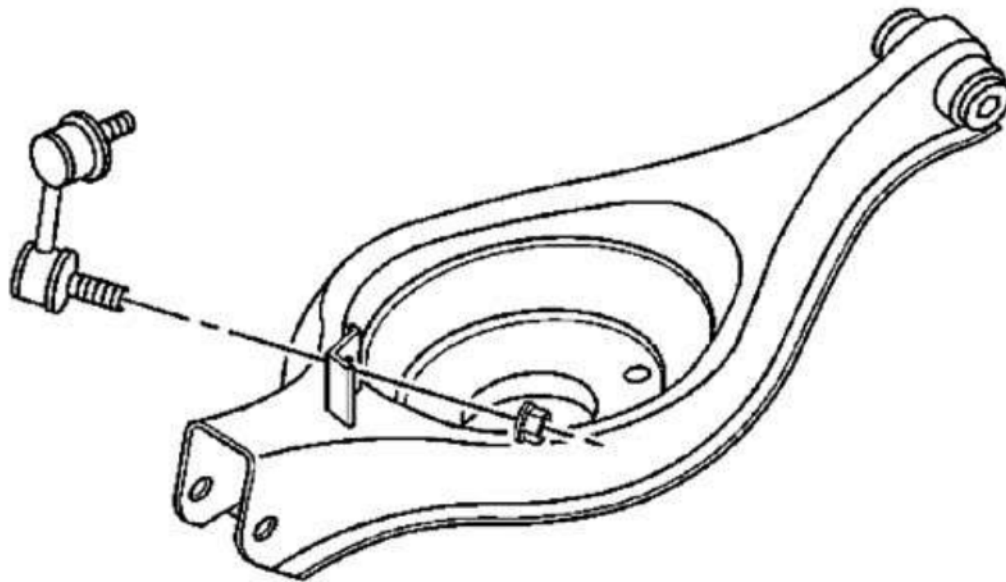


Fig. 38: View Of Stabilizer Shaft Link
Courtesy of GENERAL MOTORS CORP.

5. Remove the stabilizer shaft link from the lower control arm.

Installation Procedure

1. Install the stabilizer shaft link to the lower control arm.

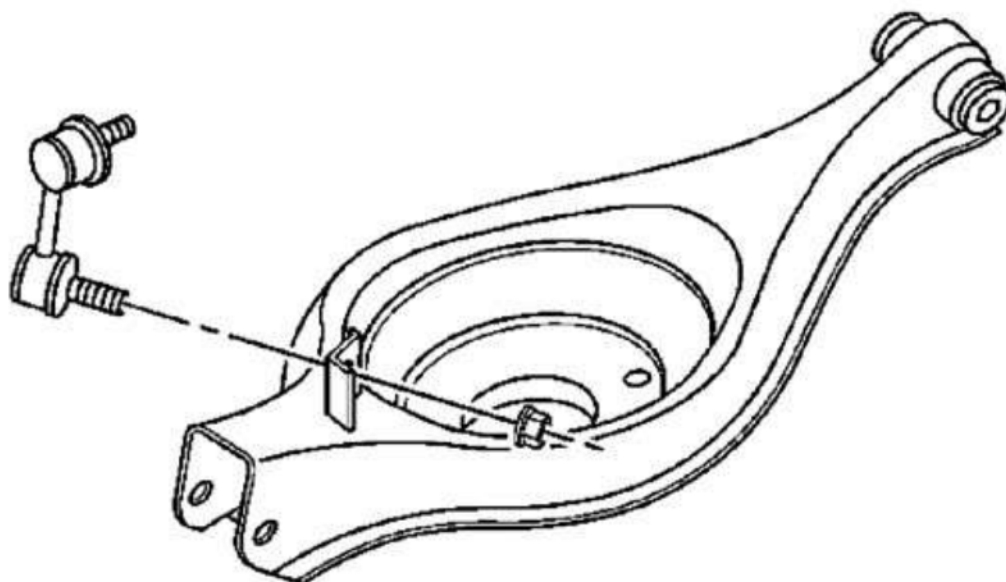


Fig. 39: View Of Stabilizer Shaft Link
Courtesy of GENERAL MOTORS CORP.

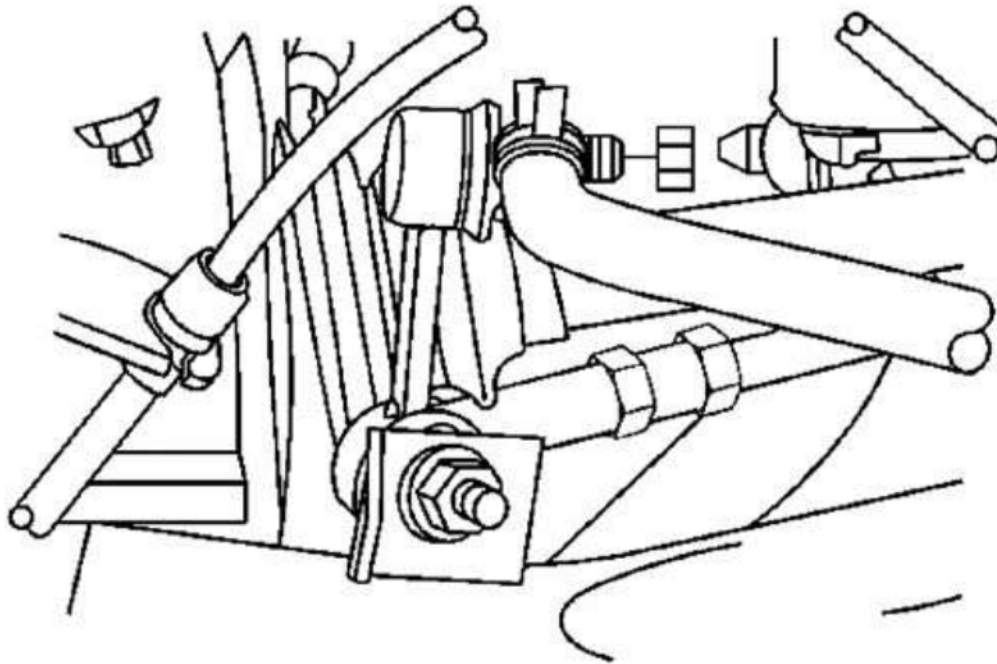


Fig. 40: Locating Stabilizer Shaft Link Retaining Nuts
Courtesy of GENERAL MOTORS CORP.

2. Install the stabilizer shaft link to the stabilizer shaft.

NOTE: Refer to Fastener Notice in Cautions and Notices.

IMPORTANT: Hold the shaft link stud with a hex tool to prevent damage to the link seal.

3. Install the stabilizer shaft link retaining nuts.

Tighten: Tighten the nuts to 90 N.m (67 lb ft).

4. Install the tire and wheel. Refer to Tire and Wheel Removal and Installation in Tires and Wheels.
5. Lower the vehicle.

SHOCK ABSORBER REPLACEMENT

Removal Procedure

1. Remove the trim panel.
2. Move the sound insulator away from the shock tower.
3. Disconnect the electrical connector (1) on vehicles equipped with F55 suspension.

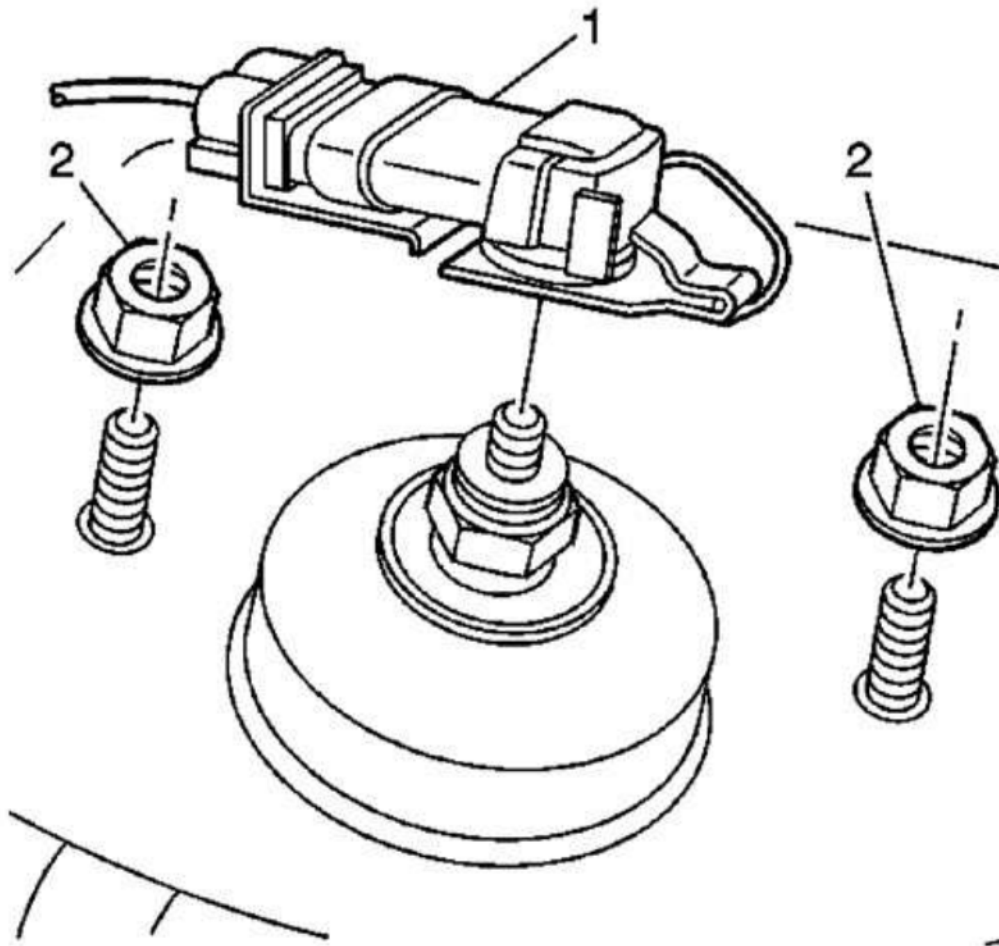


Fig. 41: View Of Shock Absorber Electrical Connector & Upper Shock Mounting Nuts

Courtesy of GENERAL MOTORS CORP.

4. Remove the upper shock mounting nuts (2).
5. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle in General Information.

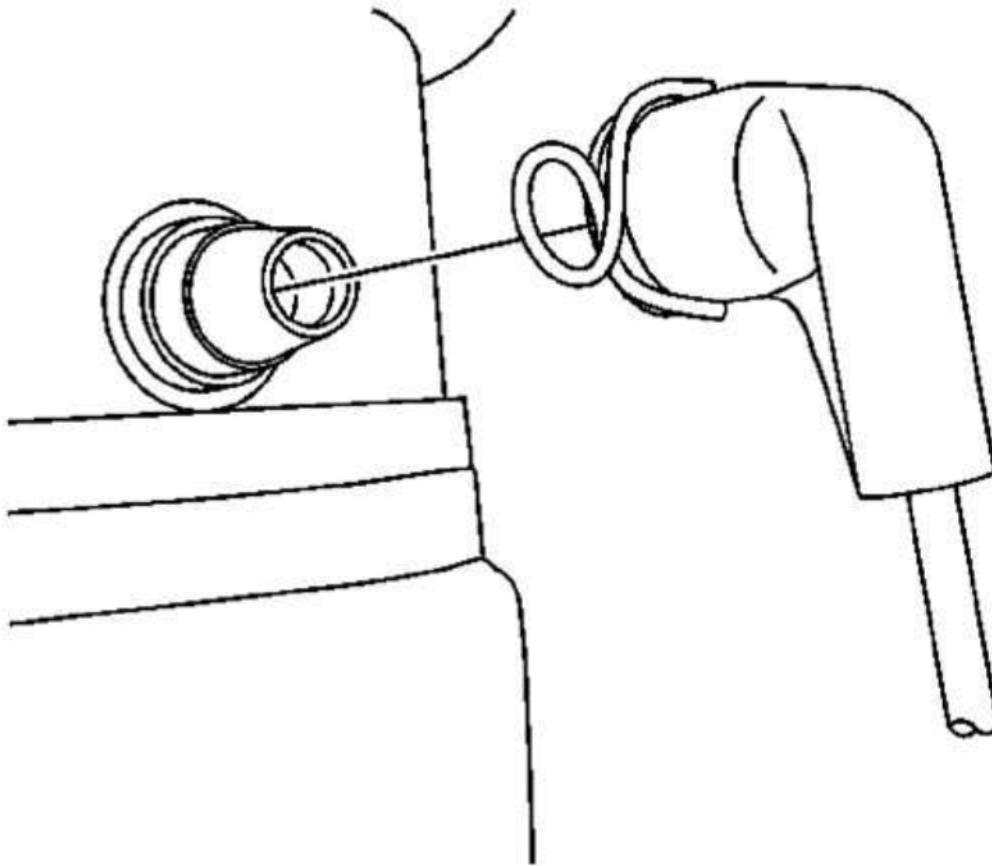


Fig. 42: View Of Automatic Level Control
Courtesy of GENERAL MOTORS CORP.

6. Disconnect the automatic level control from the shock on vehicle with F55 suspension.
Twist the retaining clip and pull the connector from the shock.

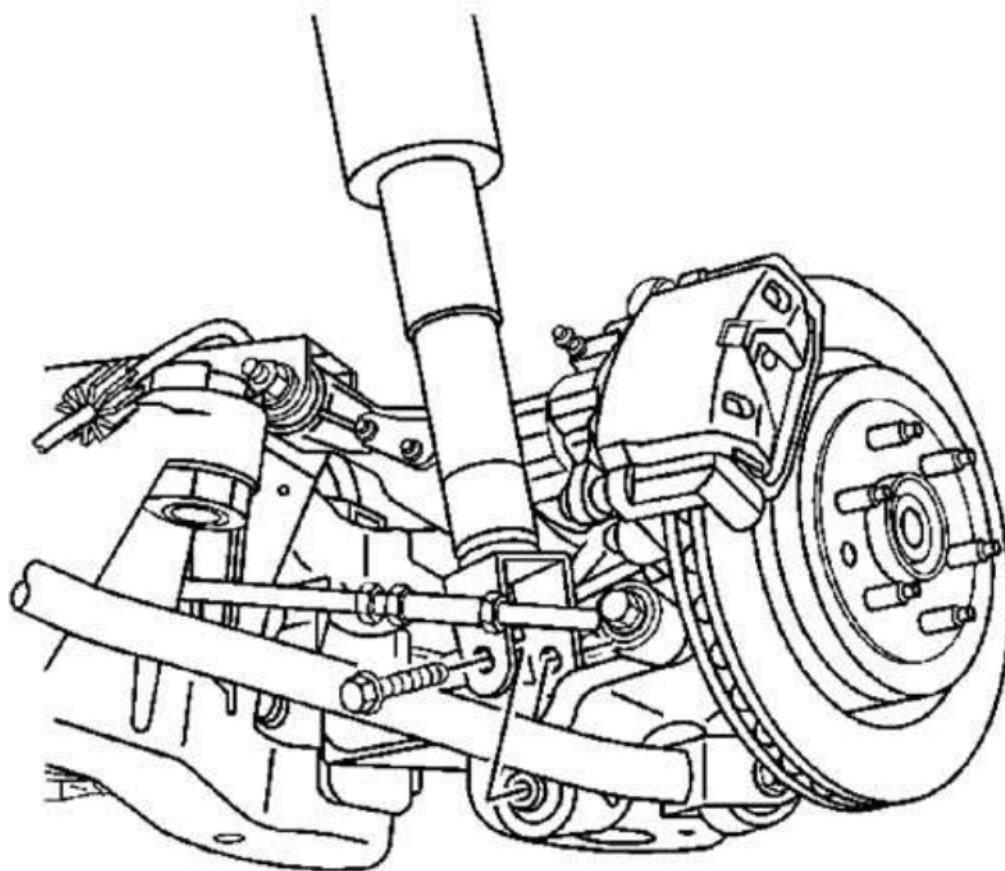


Fig. 43: View Of Lower Shock Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

7. Remove the lower shock mounting bolt.

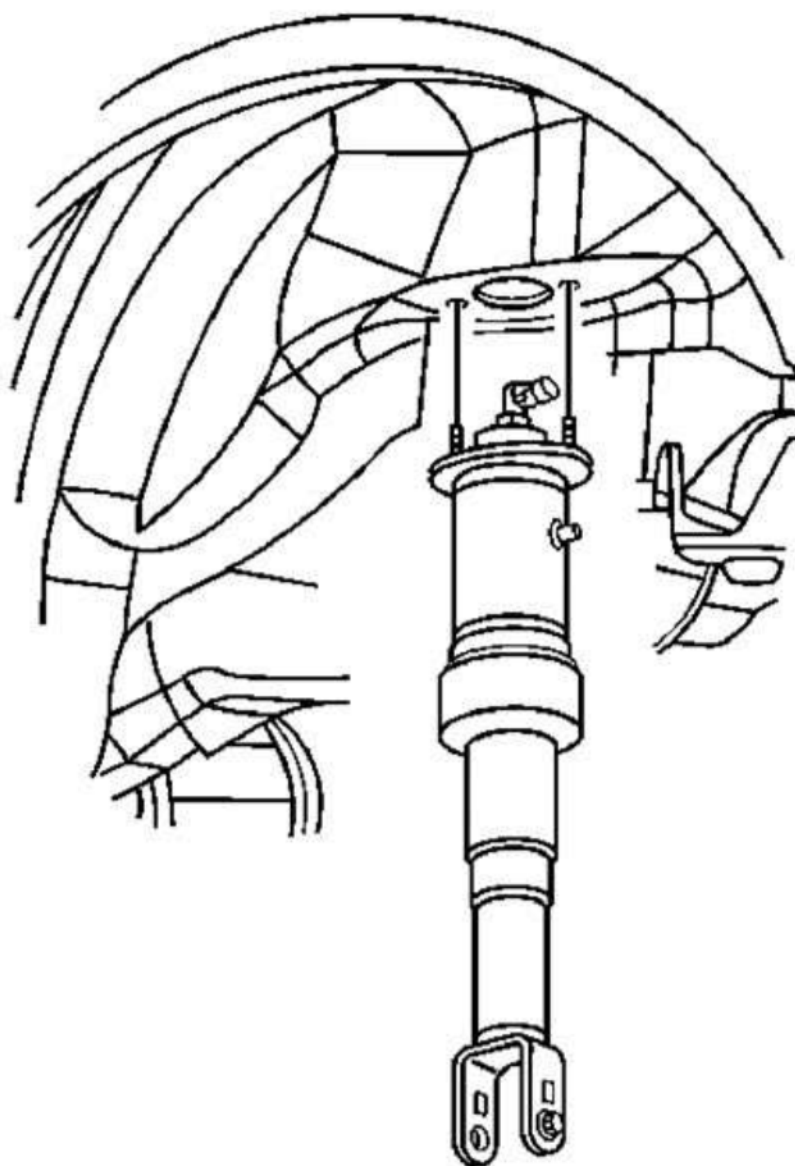


Fig. 44: View Of Shock Absorber
Courtesy of GENERAL MOTORS CORP.

8. Remove the shock from the vehicle.

Installation Procedure

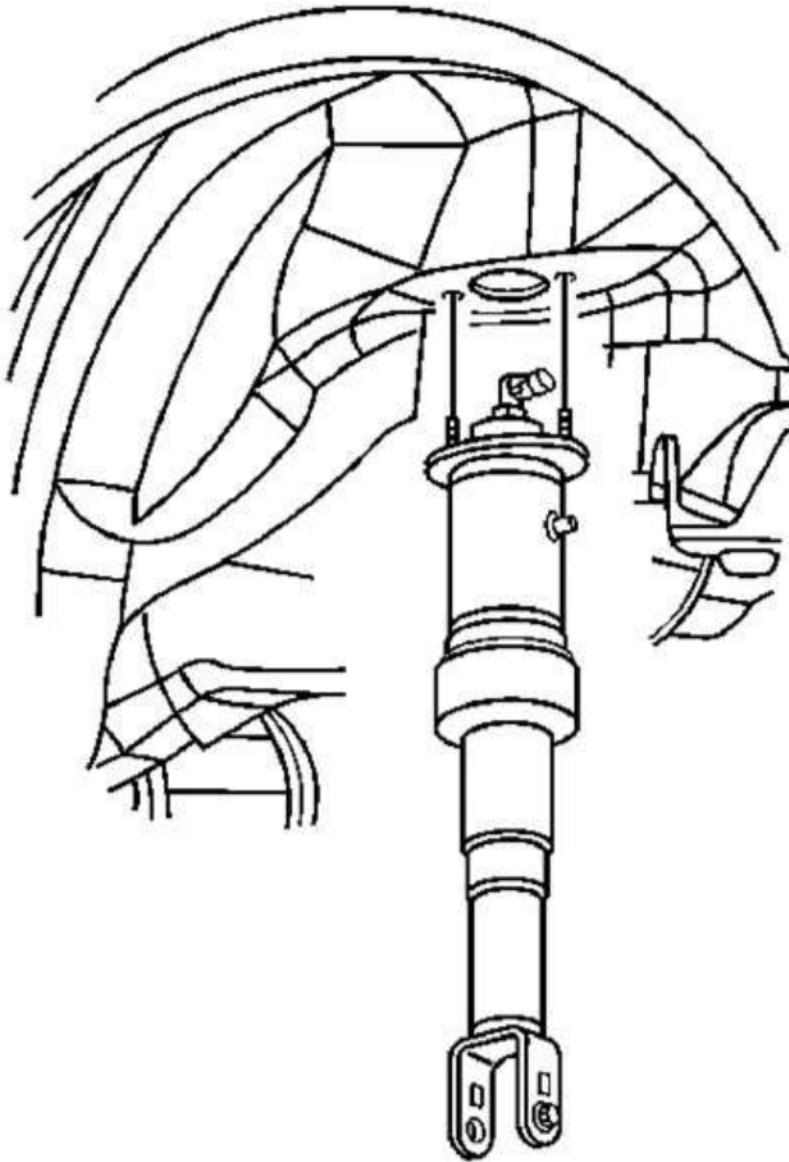


Fig. 45: View Of Shock Absorber
Courtesy of GENERAL MOTORS CORP.

1. Install the shock to the vehicle.

NOTE: Refer to Fastener Notice in Cautions and Notices.

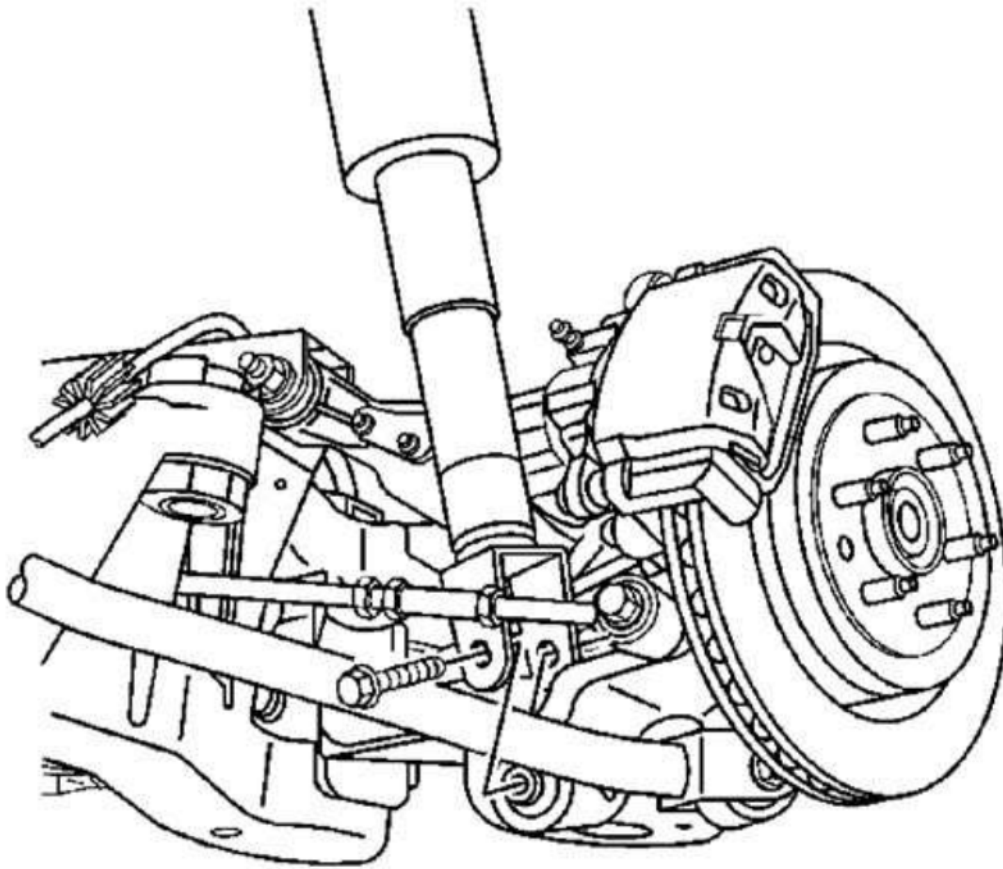


Fig. 46: View Of Lower Shock Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

2. Install the lower shock mounting bolt.

Tighten: Tighten the bolt to 150 N.m (111 lb ft).

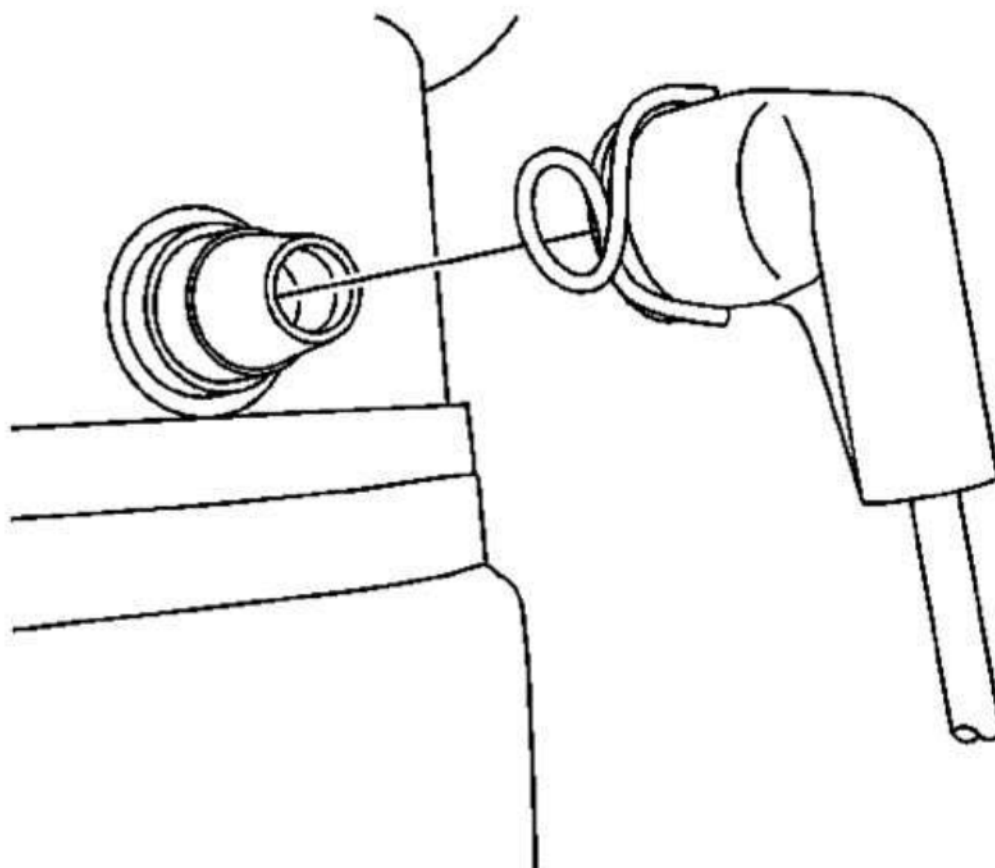


Fig. 47: View Of Automatic Level Control
Courtesy of GENERAL MOTORS CORP.

3. Connect the automatic level control air line to the shock.

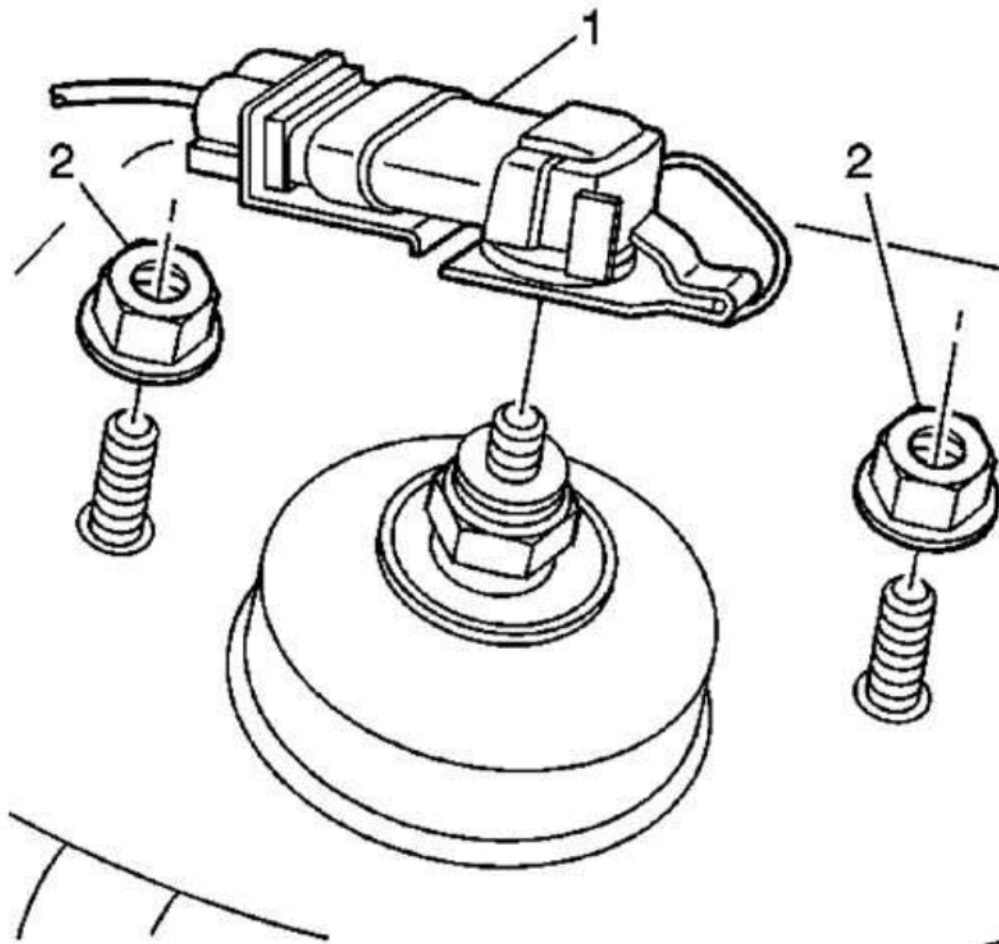


Fig. 48: View Of Shock Absorber Electrical Connector & Upper Shock Mounting Nuts

Courtesy of GENERAL MOTORS CORP.

4. Guide the shock to the body while lowering the vehicle.
5. Install the upper shock mounting nuts (2).

Tighten: Tighten the nuts to 25 N.m (18 lb ft).

6. Connect the electrical connector (1) on vehicles equipped with F55 suspension.
7. Reposition the sound insulator around the shock tower.
8. Install the trim panel.

2004 Cadillac SRX

2004 SUSPENSION Rear Suspension - SRX

CAUTION: Gas charged shock absorbers contain high pressure gas. Do not attempt to cut the shock open before all gas pressure is released. Failure to do so may result in personal injury.

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.

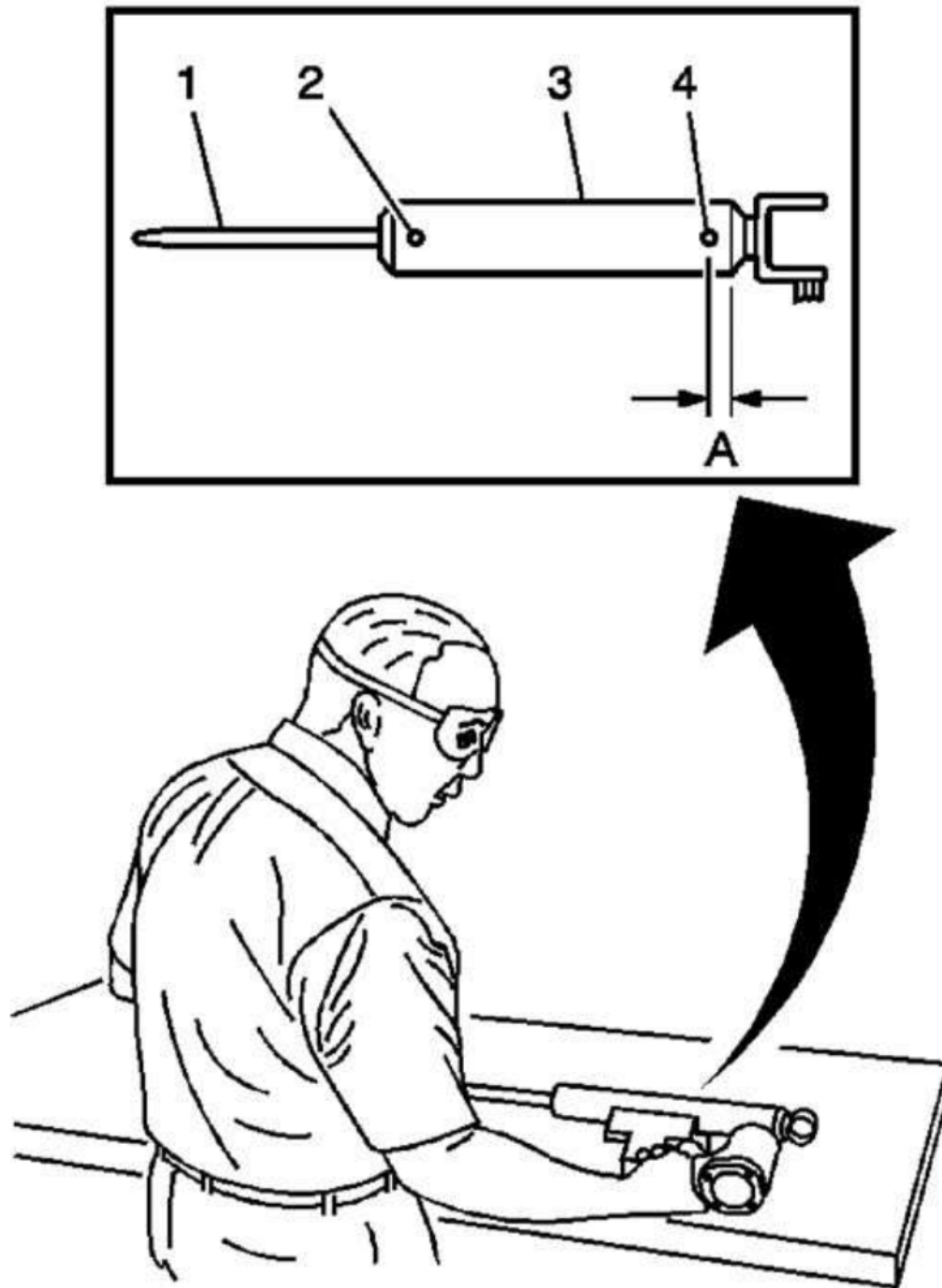


Fig. 49: Disposing Of Shock Absorber
Courtesy of GENERAL MOTORS CORP.

1. Make an indentation 50 mm (2 in) from the top (2) of the tube using a centerpunch.

2004 Cadillac SRX

2004 SUSPENSION Rear Suspension - SRX

2. Make an indentation 25 mm (1.0 in) from the bottom (4) of the tube (3) using a centerpunch.
3. Clamp the shock absorber in a vise horizontally with the shock absorber rod (1) completely extended.
4. 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.
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

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
3. Disconnect the automatic level control sensor link from the upper control arm.

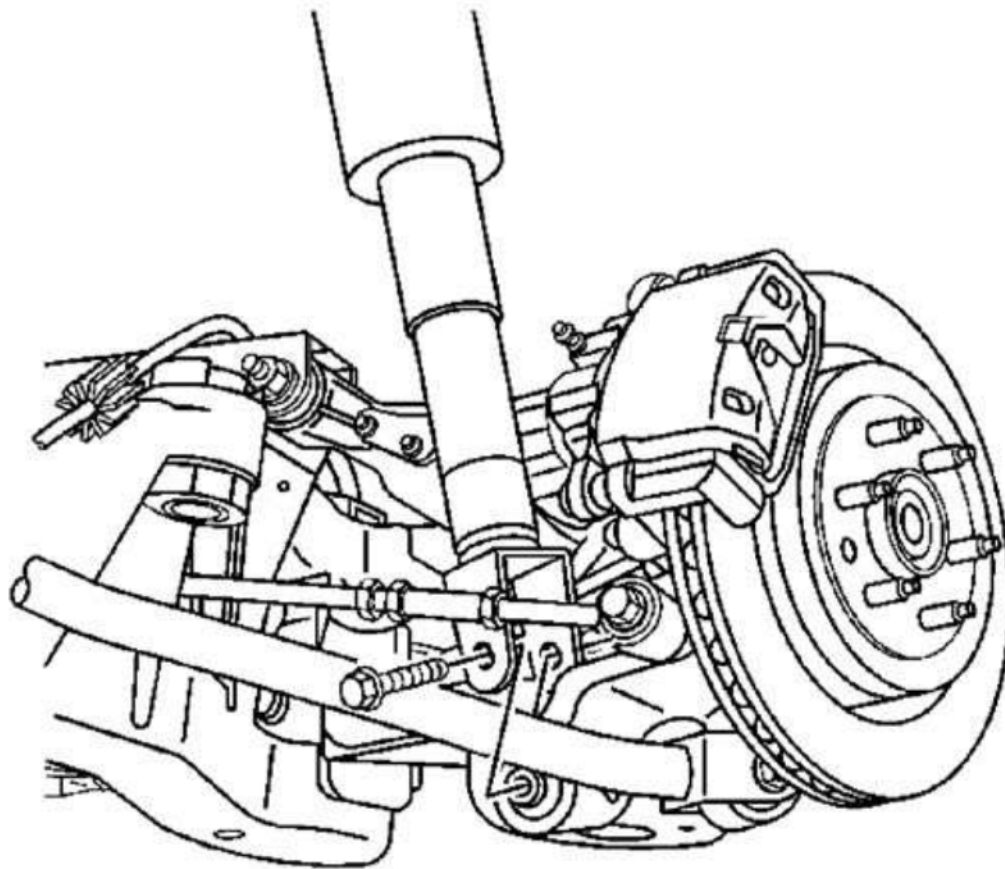


Fig. 50: View Of Lower Shock Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

4. Disconnect the head lamp adjustment link from the upper control arm.
5. Support and raise the lower control arm using a suitable jack.
6. Remove the shock absorber lower mounting bolt.
7. Lower the lower control arm and remove the support.
8. Support the rear frame with a suitable jack.

IMPORTANT: Remove the frame bolts from the side that the coil spring is being replaced on.

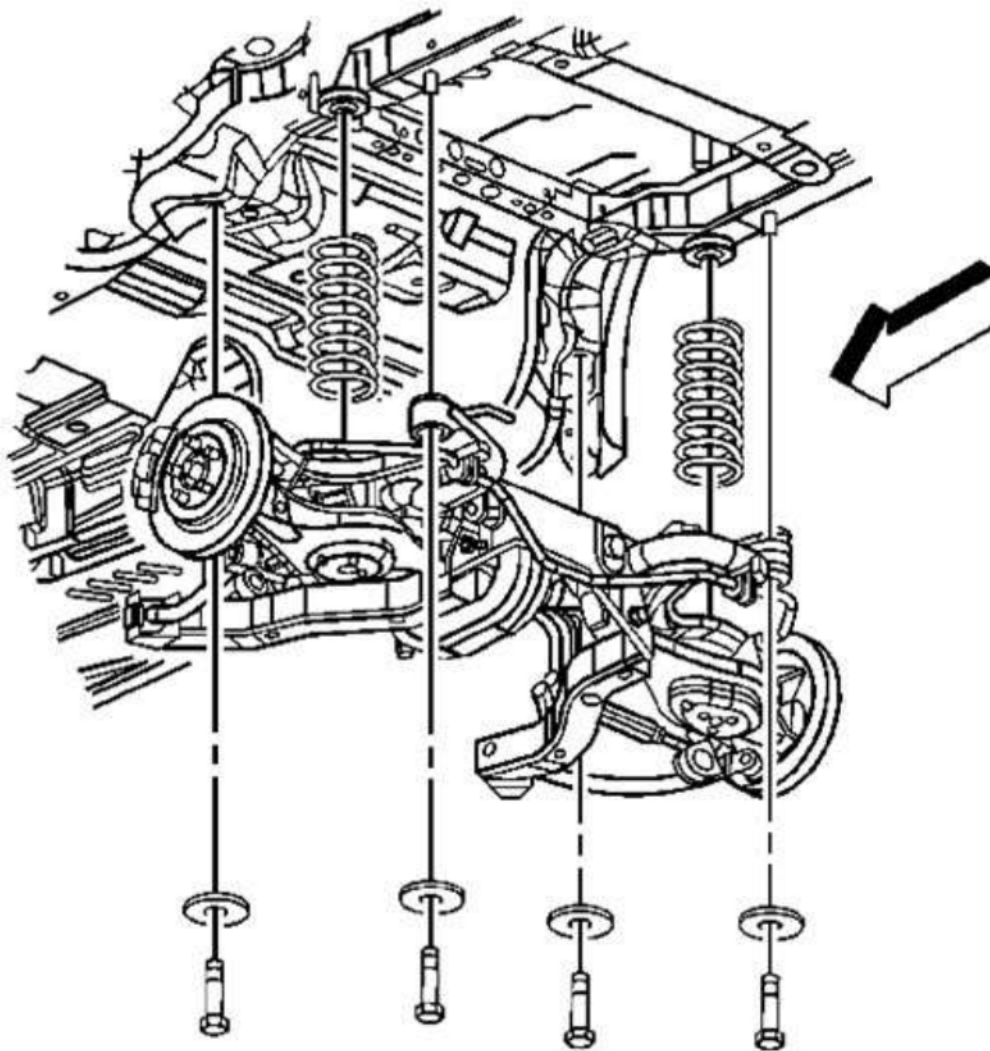


Fig. 51: View Of Frame-To-Body Side Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

9. Remove the frame to body side mounting bolts and washers.

IMPORTANT: Lower the frame far enough to remove the coil spring without going past the guide pins.

10. Lower the side of the frame.
11. Remove the coil spring from the vehicle.

1. Install the coil spring to the vehicle.

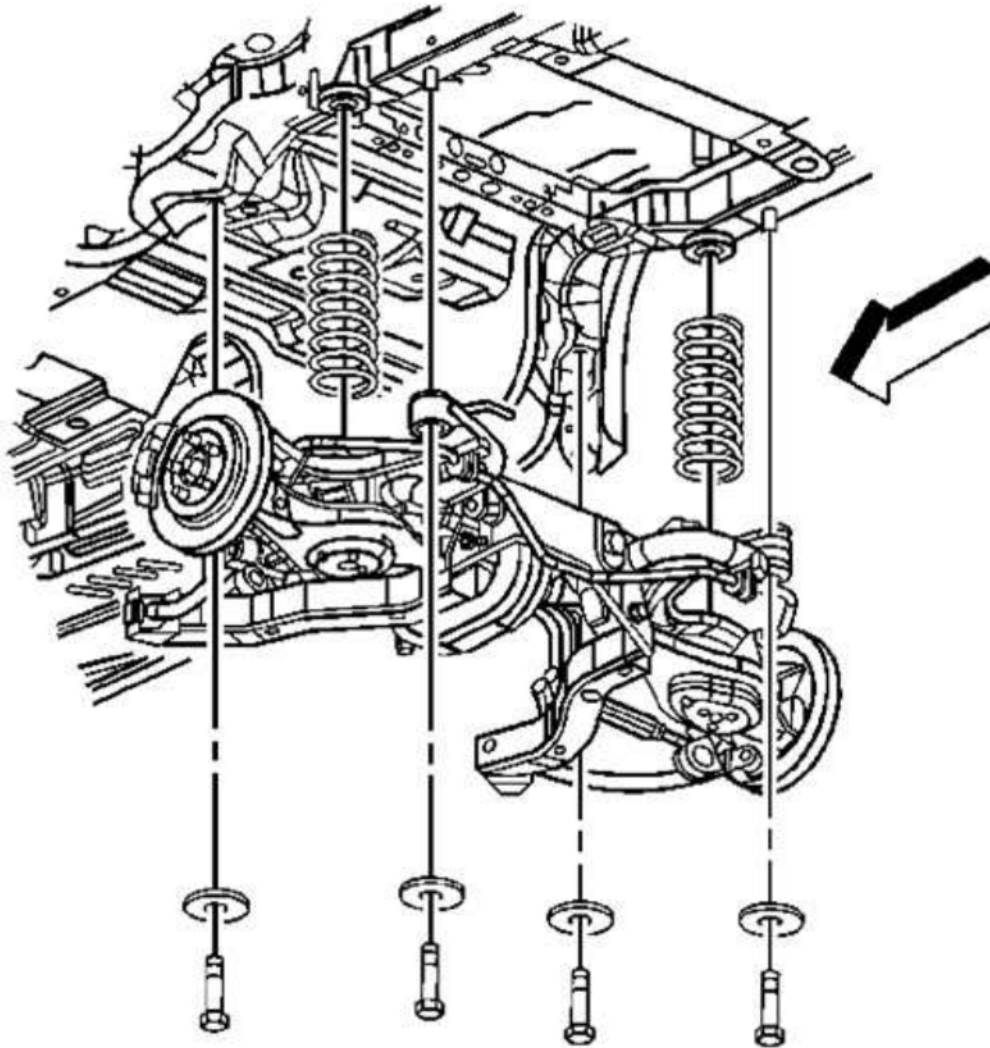


Fig. 52: View Of Frame-To-Body Side Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

2. Raise the frame.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the frame to body mounting bolts and washers.

Tighten:

- Tighten the front bolts to 265 N.m (195 lb ft).
 - Tighten the rear bolts to 191 N.m (140 lb ft).
4. Remove the jack from the vehicle.
 5. Install a suitable jack under the lower control arm.

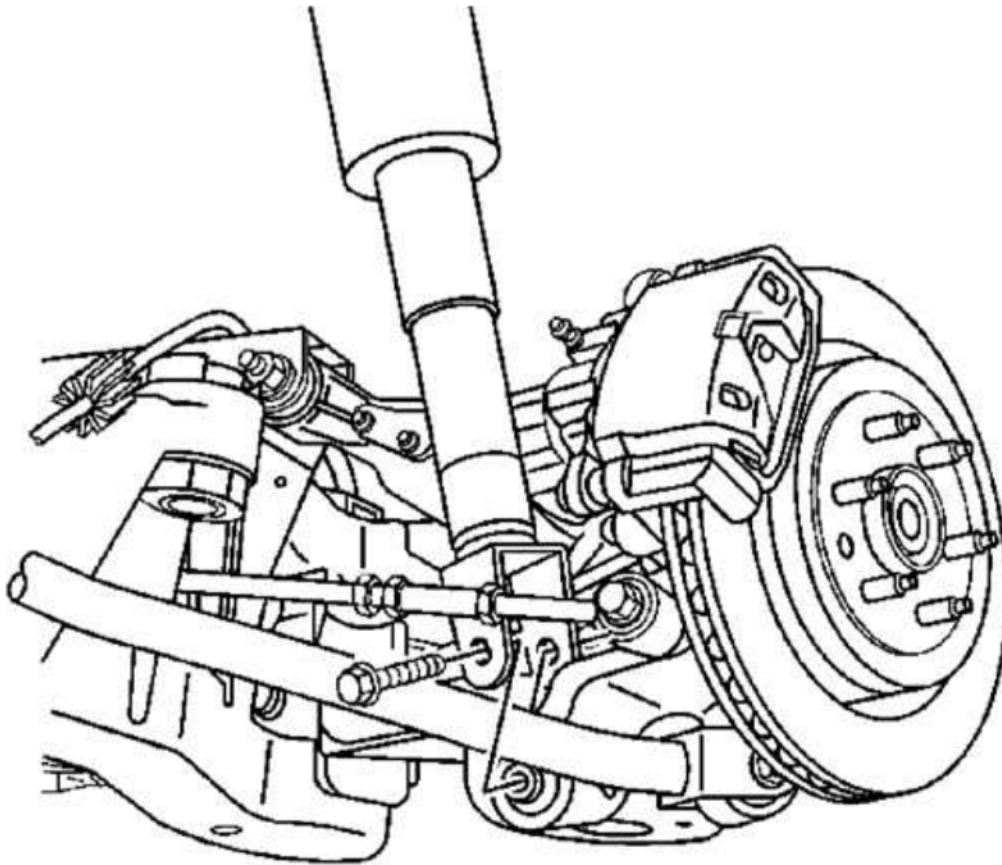


Fig. 53: View Of Lower Shock Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

6. Using the jack raise the lower control arm until the shock absorber aligns with the knuckle.
7. Install the shock absorber lower retaining bolt.

Tighten: Tighten the bolt to 150 N.m (111 lb ft).

8. Remove the jack from the vehicle.

9. Connect the head lamp adjustment link to the upper control arm.
10. Connect the automatic level control sensor link to the upper control arm.
11. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
12. Lower the vehicle.

COIL SPRING INSULATORS REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the rear coil spring. Refer to **Coil Spring Replacement**.

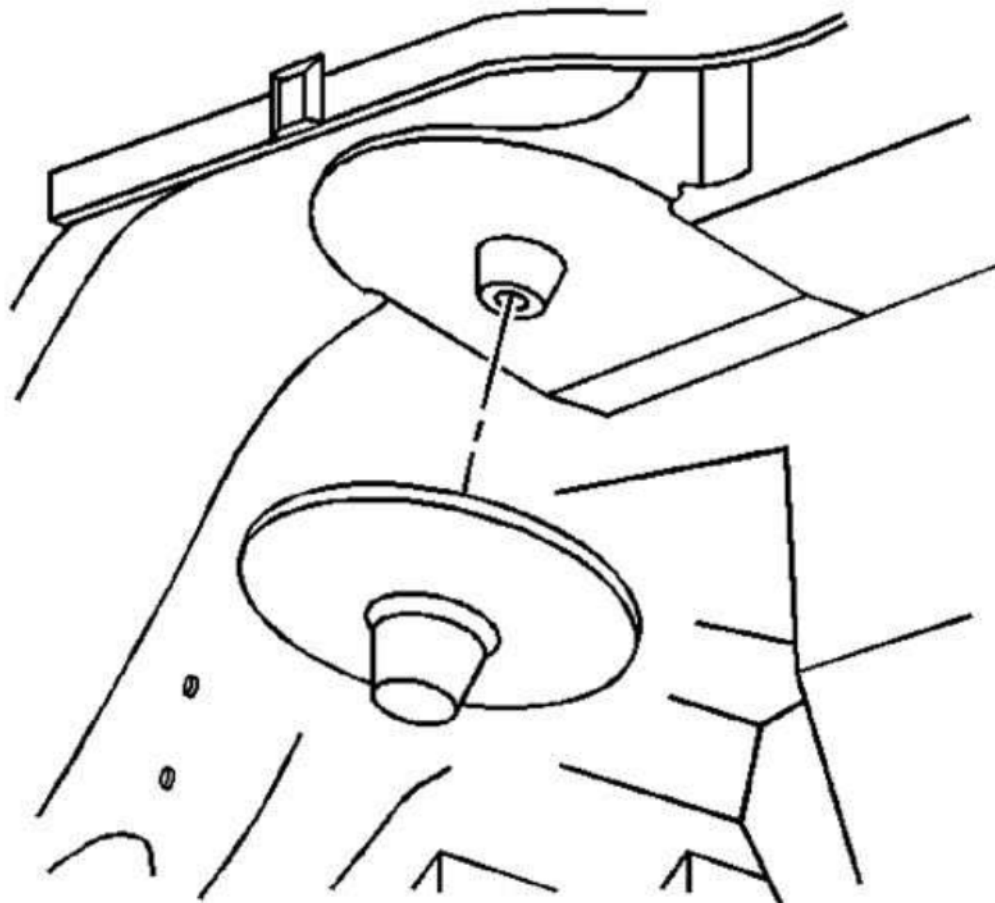


Fig. 54: View Of Upper Coil Spring Insulator

Courtesy of **GENERAL MOTORS CORP.**

3. Remove the upper coil spring insulator.

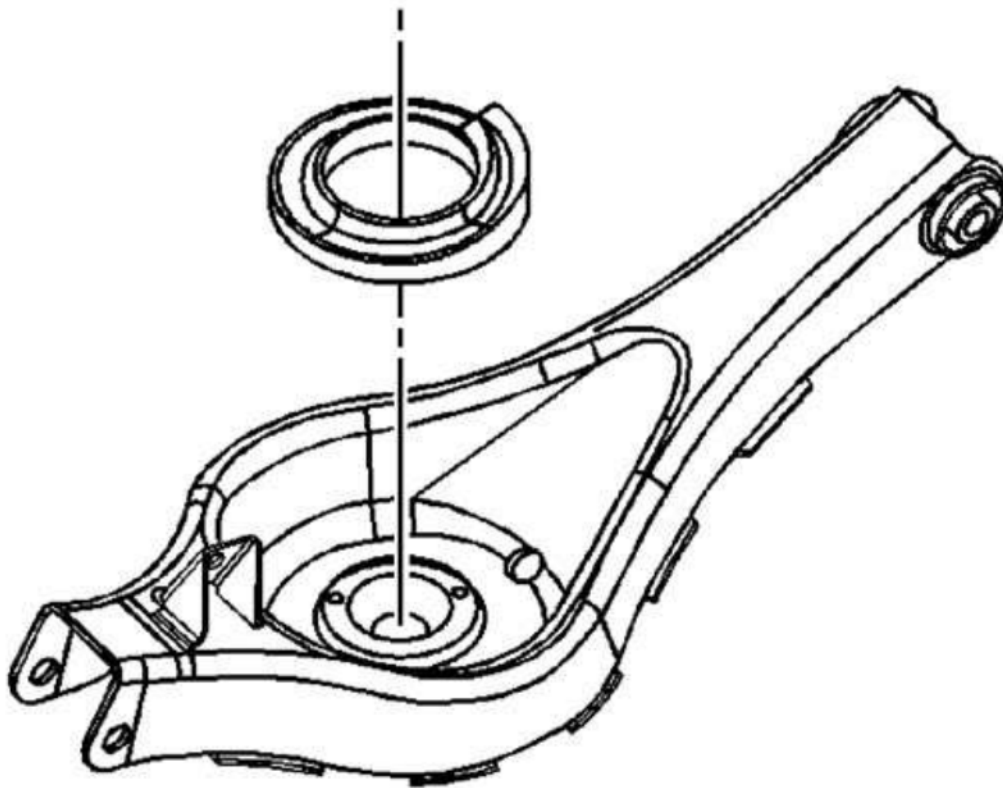


Fig. 55: View Of Lower Coil Spring Insulator
Courtesy of **GENERAL MOTORS CORP.**

4. Remove the lower coil spring insulator.

Installation Procedure

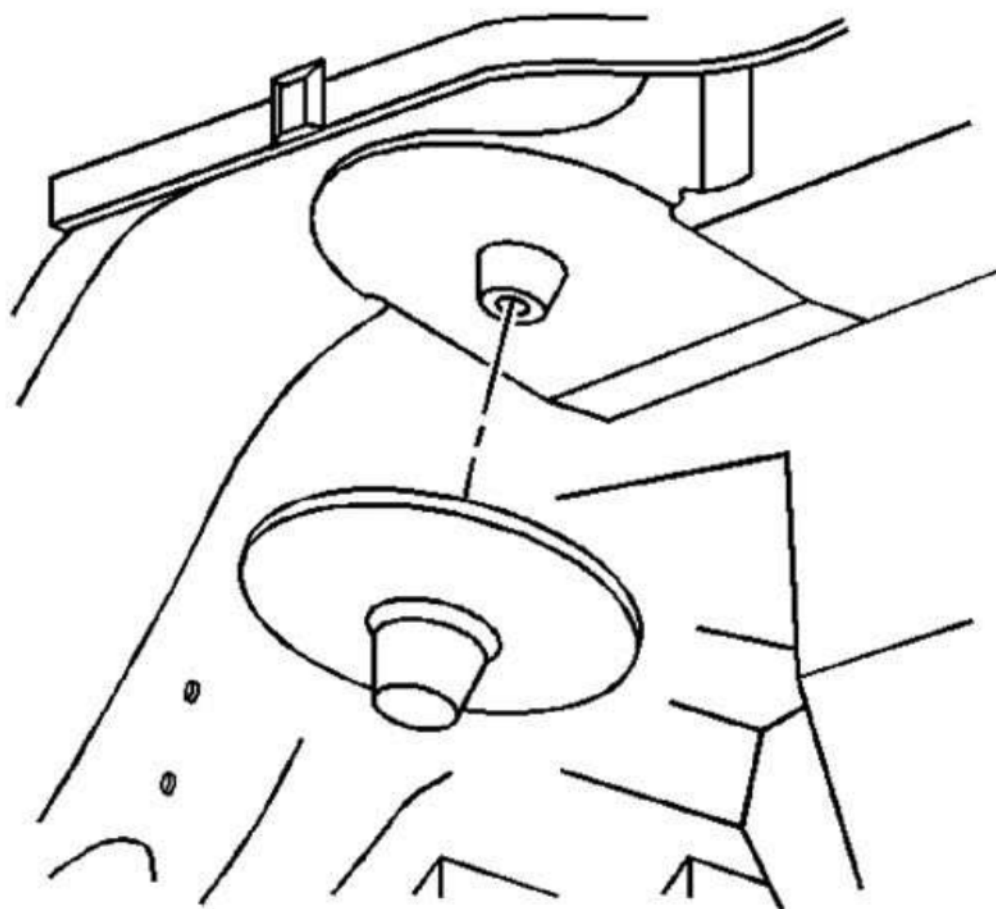


Fig. 56: View Of Upper Coil Spring Insulator
Courtesy of GENERAL MOTORS CORP.

1. Install the upper coil spring insulator.

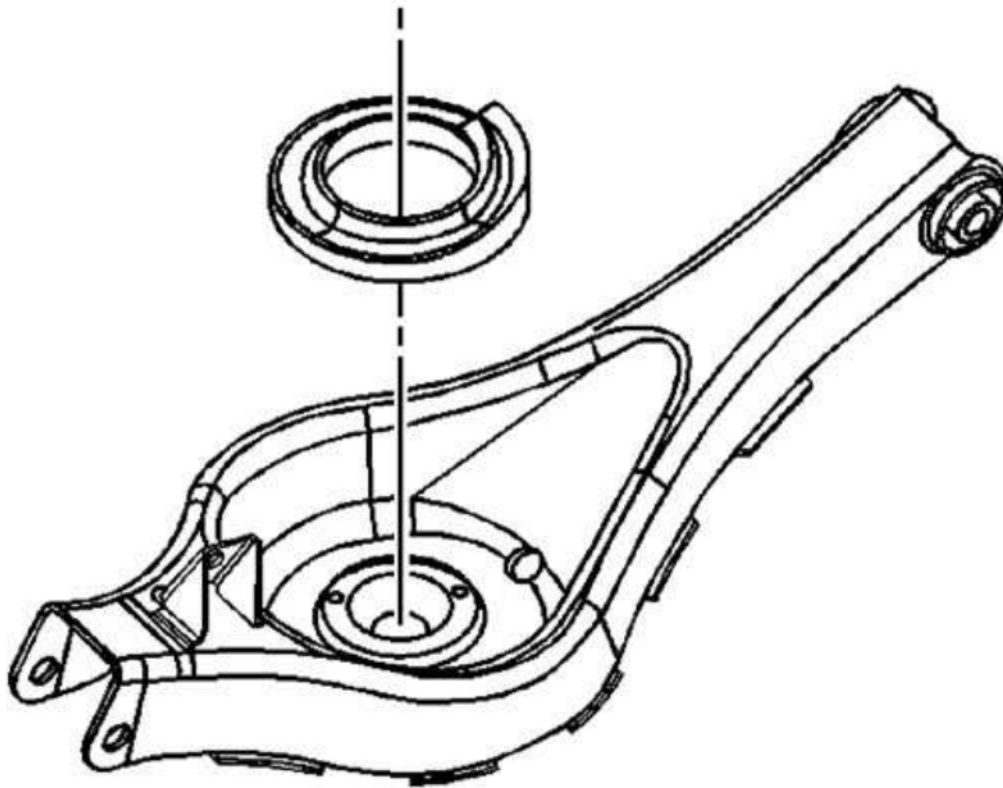


Fig. 57: View Of Lower Coil Spring Insulator
Courtesy of GENERAL MOTORS CORP.

2. Install the lower coil spring insulator.
3. Install the rear coil spring. Refer to **Coil Spring Replacement**
4. Lower the vehicle.
5. Adjust the rear camber. Refer to **Rear Camber Adjustment** in Wheel Alignment.

TRAILING ARM REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
3. Remove the automatic level control link from the upper control arm.
4. Remove the brake pipe bracket retaining nuts.

5. Remove the brake pipe bracket from the mounting studs.
6. Support the lower control arm with a suitable jack.

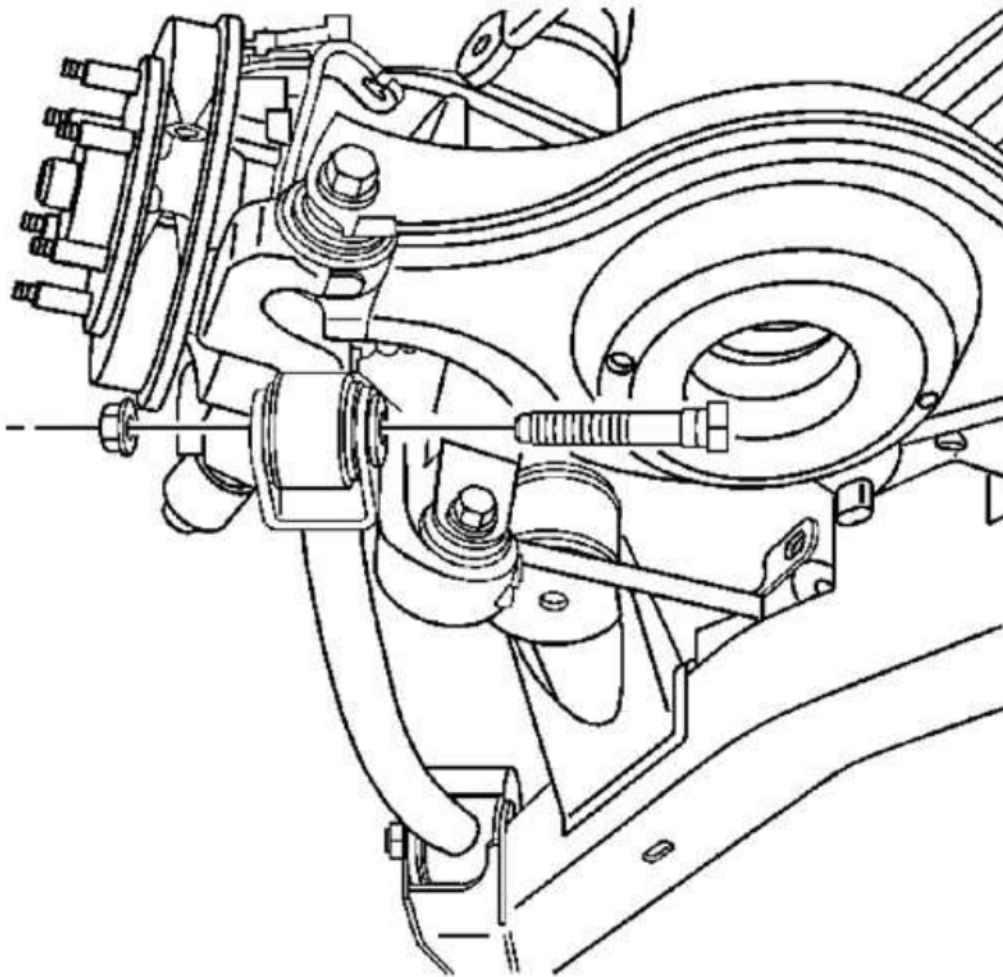


Fig. 58: View Of Trailing Link-To-Knuckle Bolt
Courtesy of GENERAL MOTORS CORP.

7. Remove the trailing link to knuckle nut.
8. Remove the trailing link to knuckle bolt.
9. Remove the jack.
10. Support the frame with a suitable jack.
11. Remove the front bolts from the frame.
12. Lower the front of the rear frame.

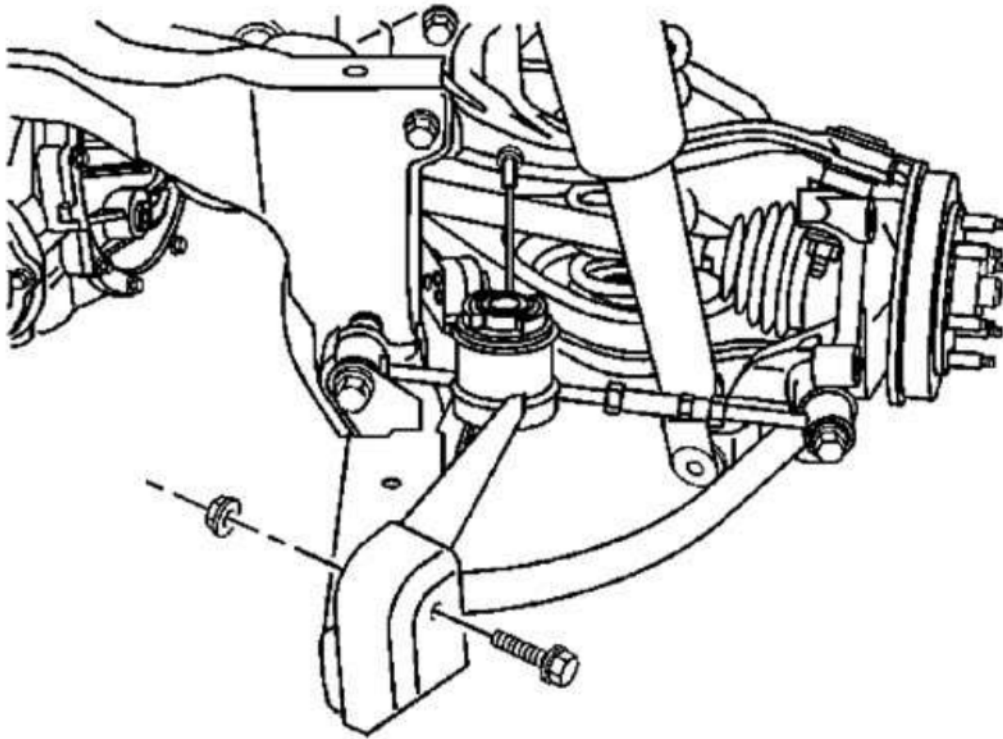


Fig. 59: View Of Trailing Link-To-Frame Bolt
Courtesy of GENERAL MOTORS CORP.

13. Remove the trailing link to frame nut.
14. Remove the trailing link to frame bolt.

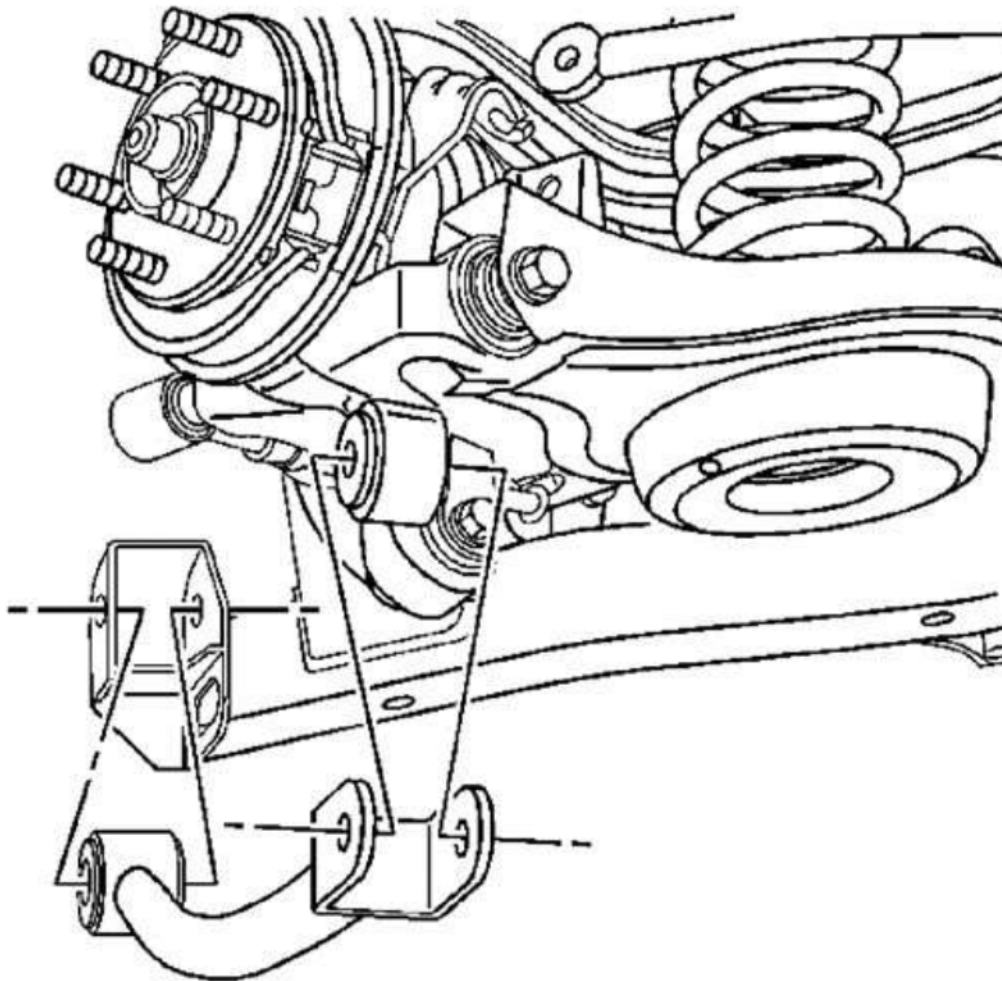
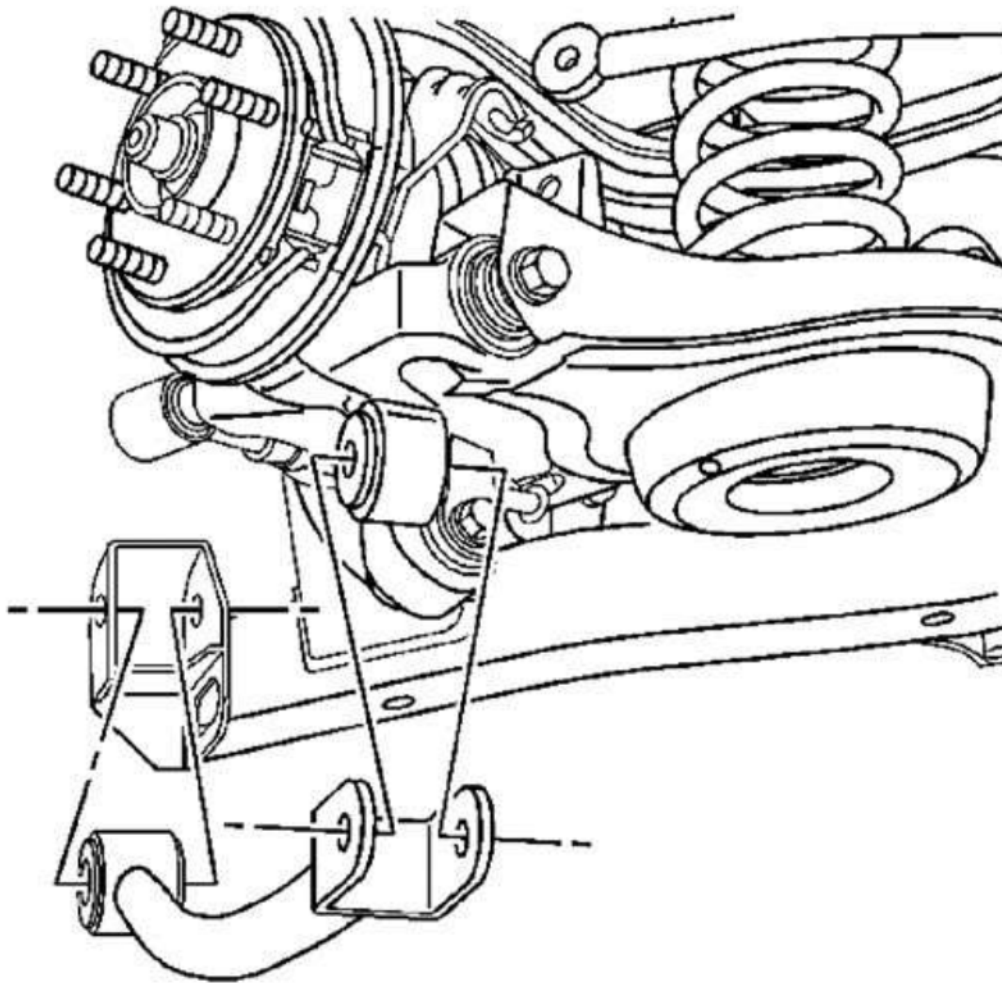


Fig. 60: View Of Trailing Link
Courtesy of GENERAL MOTORS CORP.

15. Remove the trailing link from the vehicle.

Installation Procedure



1. Install the trailing link to the vehicle.

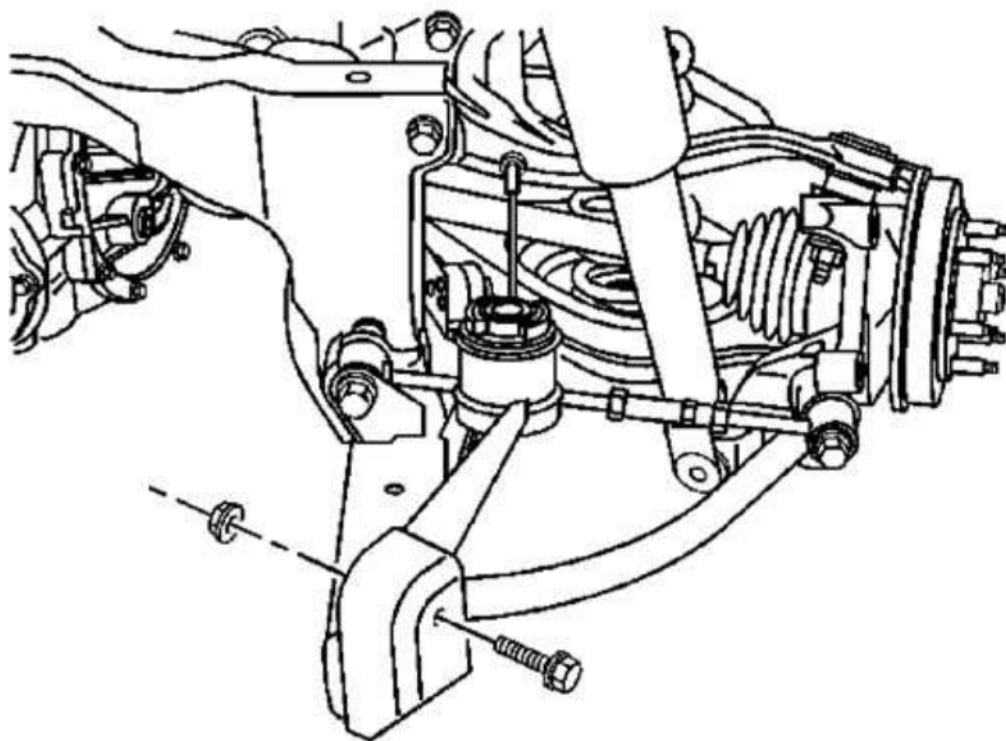


Fig. 62: View Of Trailing Link-To-Frame Bolt
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Loosely install the trailing link before tightening.

2. Install the trailing link to frame bolt.
3. Install the trailing link to frame nut.
4. Raise the frame with a suitable jack.

NOTE: Refer to Fastener Notice in Cautions and Notices.

5. Install the front bolts to the frame.

Tighten: Tighten the bolts to 265 N.m (195 lb ft).

6. Remove the jack.
7. Support the lower control arm with a suitable jack for alignment of the trailing link and the knuckle.

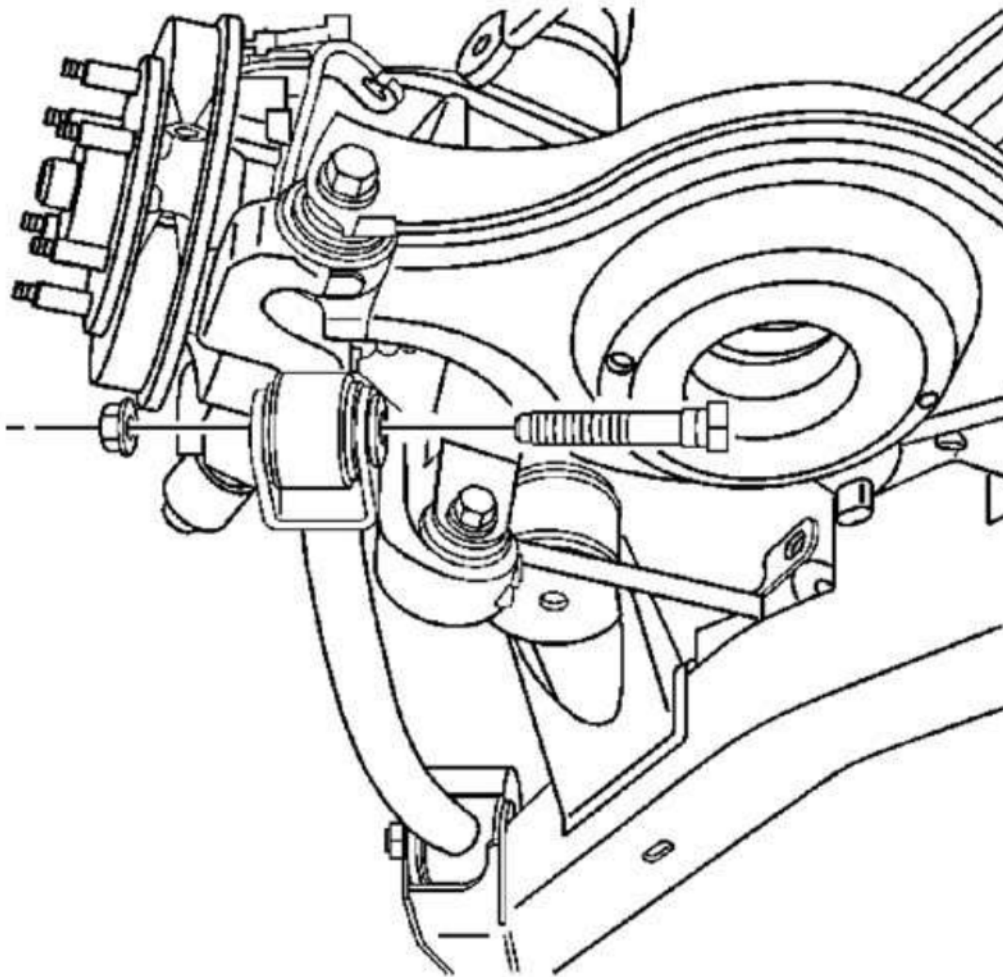


Fig. 63: View Of Trailing Link-To-Knuckle Bolt
Courtesy of GENERAL MOTORS CORP.

8. Install the trailing link to knuckle bolt.
9. Install the trailing link to knuckle nut.

Tighten:

- Tighten the trailing link to frame nut to 150 N.m (111 lb ft).
- Tighten the trailing link to knuckle mounting bolt to 170 N.m (125 lb ft).

10. Install the brake pipe bracket from the mounting studs.
11. Install the brake pipe bracket retaining nuts.

Tighten: Tighten the bolts to 10 N.m (89 lb in).

12. Install the automatic level control link to the upper control arm.
13. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
14. Lower the vehicle.

DIFFERENTIAL MOUNT REPLACEMENT

Tools Required

- **J 21474** Control Arm Bushing Installer. See **Special Tools and Equipment**.
- **J 9519-E** Lower Ball Joint Remover/Installer. See **Special Tools and Equipment**.

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Removal the differential from the vehicle. Refer to **Differential Replacement** in Rear Drive Axle.
3. Install the **J 9519-E** and **J 21474** to the differential bushing.

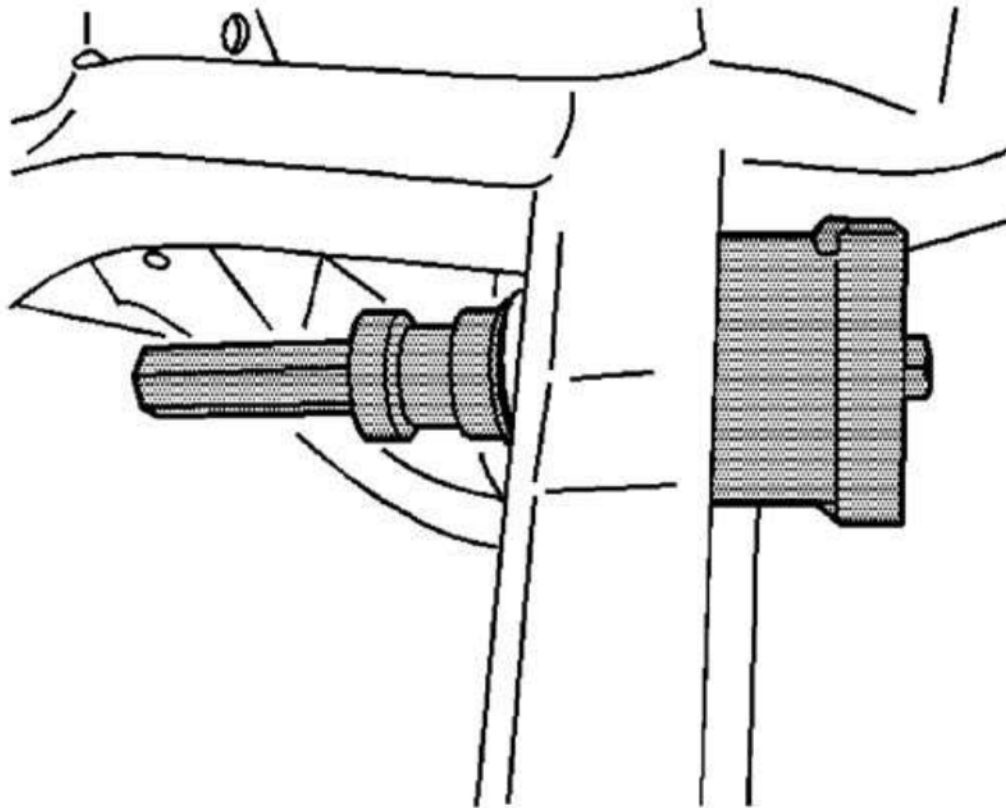


Fig. 64: Removing The Differential Bushing From The Vehicle Using J 9519-E
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The differential bushing is not fully seated in the bore and has voids that are in the horizontal position. Note and mark the position of the bushings prior to removal and press the new bushings in to the same position.

4. Using the J 9519-E and J 21474 , remove the differential bushing from the vehicle. See Special Tools and Equipment.

Installation Procedure

1. Install the J 9519-E and J 21474 to the differential bushing. See Special Tools and Equipment.

IMPORTANT: The differential bushing is not fully seated in the bore and has voids that are in the horizontal position. Note and

mark the position of the bushings prior to removal and press the new bushings in to the same position.

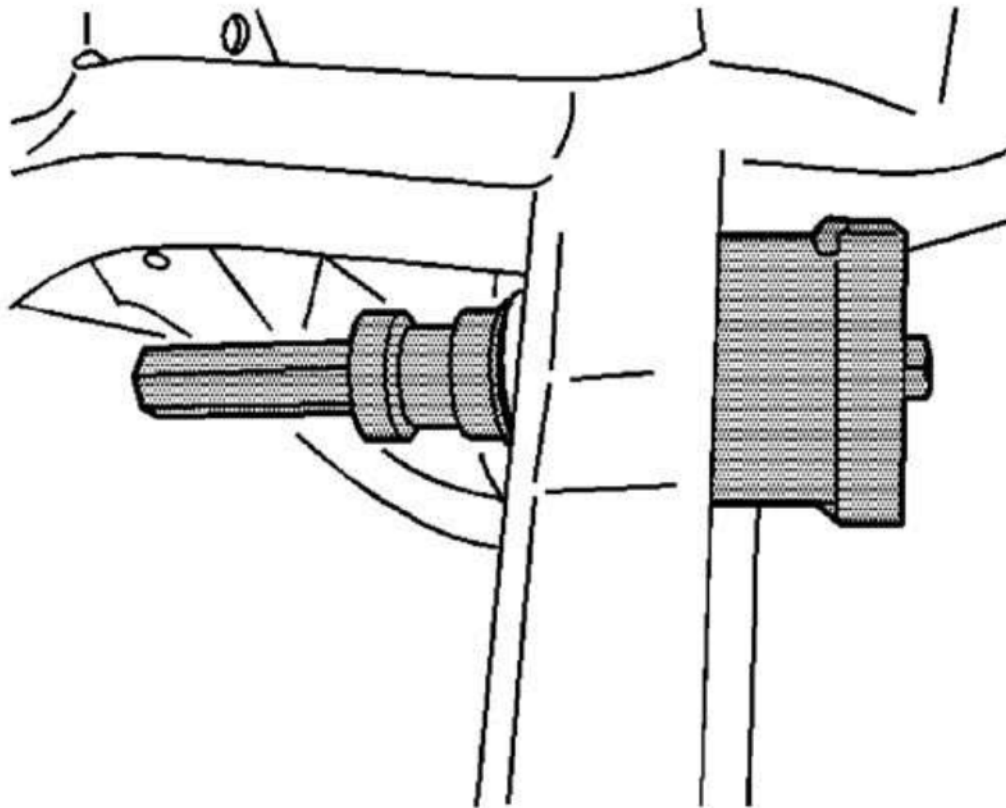


Fig. 65: Installing The Differential Bushing To The Vehicle Using J 9519-E
Courtesy of GENERAL MOTORS CORP.

2. Using the **J 9519-E** and **J 21474** , install the differential bushing to the vehicle. See **Special Tools and Equipment**.
3. Install the differential to the vehicle. Refer to **Differential Replacement** in Rear Drive Axle.
4. Lower the vehicle.

ADJUSTMENT LINK REPLACEMENT

Removal Procedure

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

2. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation in Tires and Wheels.

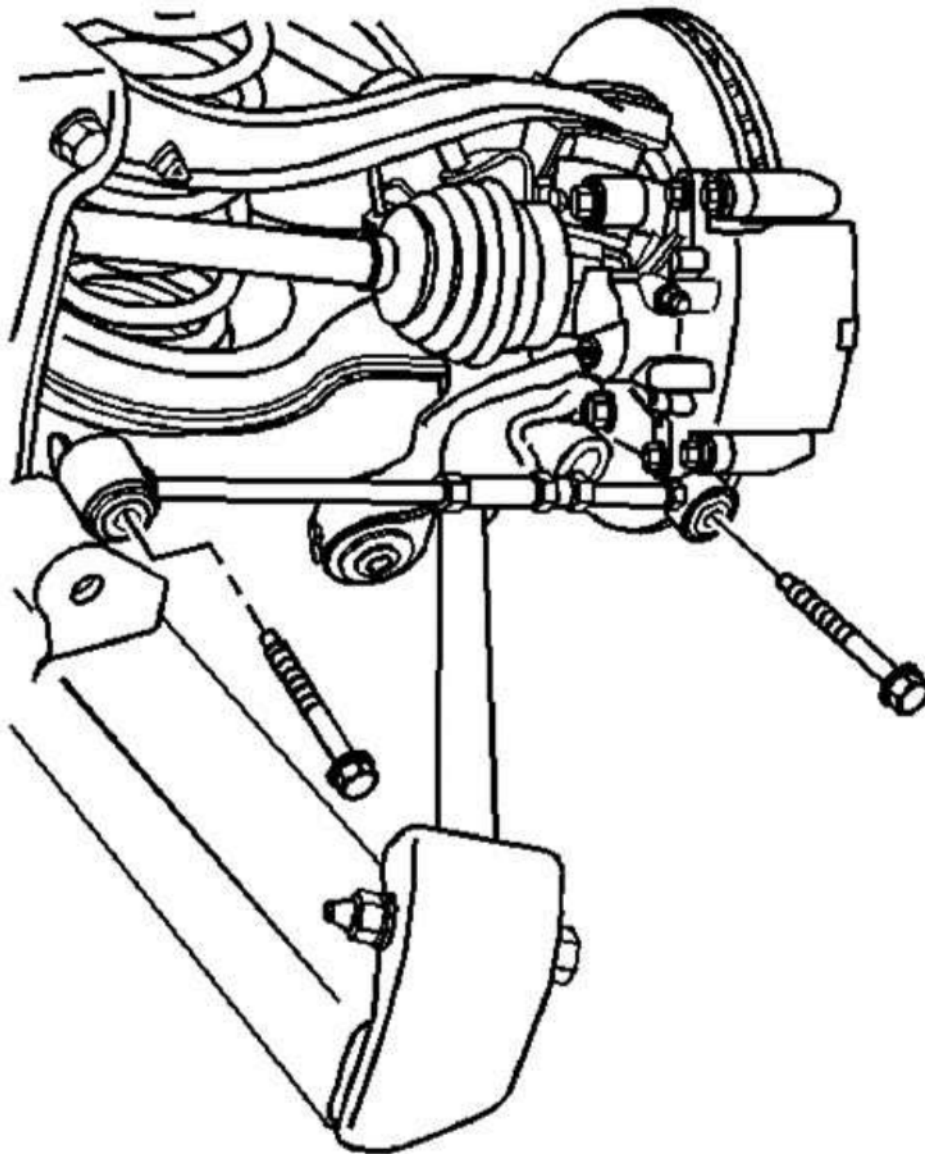


Fig. 66: View Of Adjustment Link Bolts
Courtesy of GENERAL MOTORS CORP.

3. Remove the adjustment link to knuckle mounting bolt.
4. Remove the adjustment link to frame mounting nut.

5. Remove the adjustment link to frame mounting bolt.
6. Remove the adjustment link from the vehicle.

Installation Procedure

1. Install the adjustment link to the vehicle.

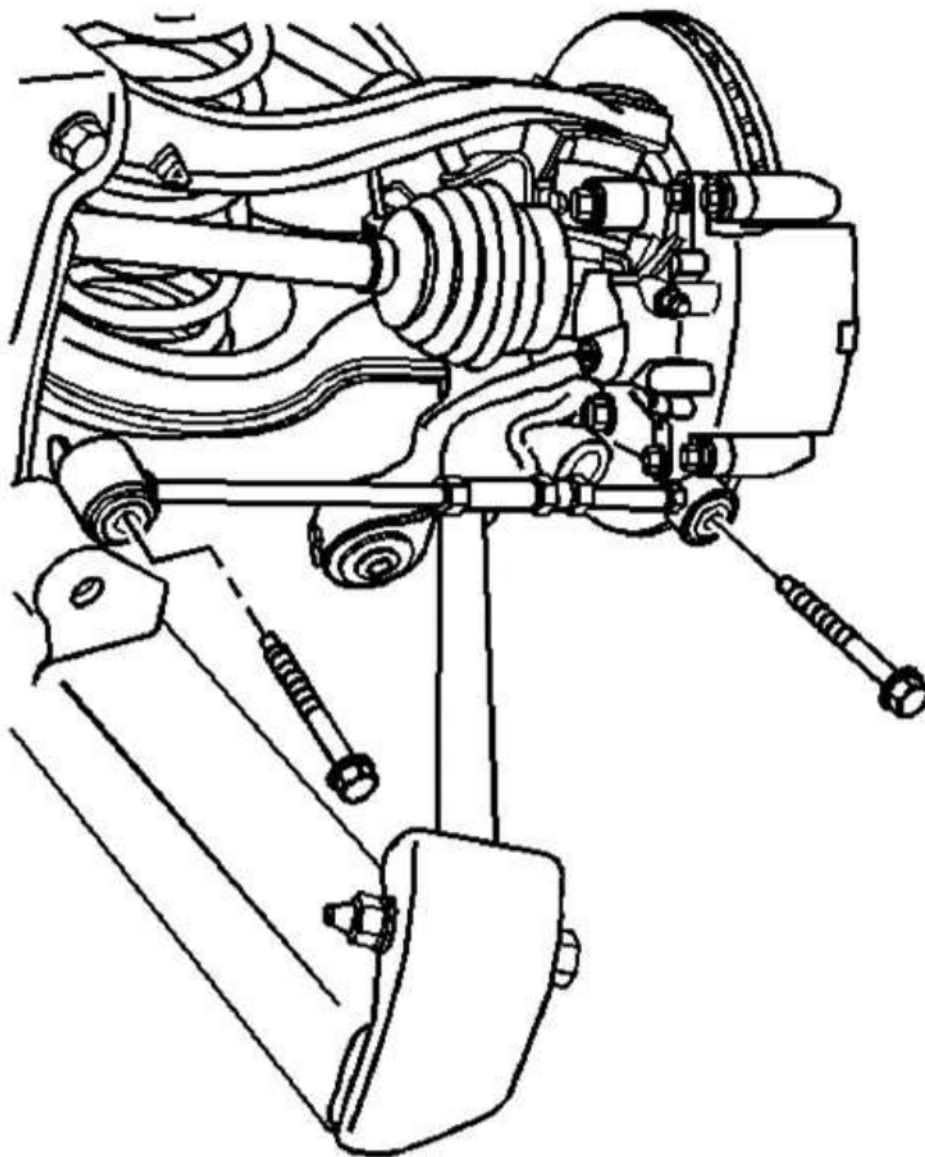


Fig. 67: View Of Adjustment Link Bolts
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Loosely install all fasteners before tightening.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the adjustment link to knuckle mounting bolt.

Tighten: Tighten the bolt to 160 N.m (118 lb ft).

3. Install the adjustment link to frame mounting bolt.
4. Install the adjustment link to frame mounting nut.

Tighten: Tighten the bolts and nut to 170 N.m (125 lb ft).

5. Install the tire and wheel. Refer to Tire and Wheel Removal and Installation in Tires and Wheels.
6. Lower the vehicle.
7. Adjust the rear toe. Refer to Rear Toe Adjustment in Wheel Alignment.

UPPER CONTROL ARM REPLACEMENT

Tools Required

J 43631 Ball Joint Remover

Removal Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle in General Information.
2. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation in Tires and Wheels.

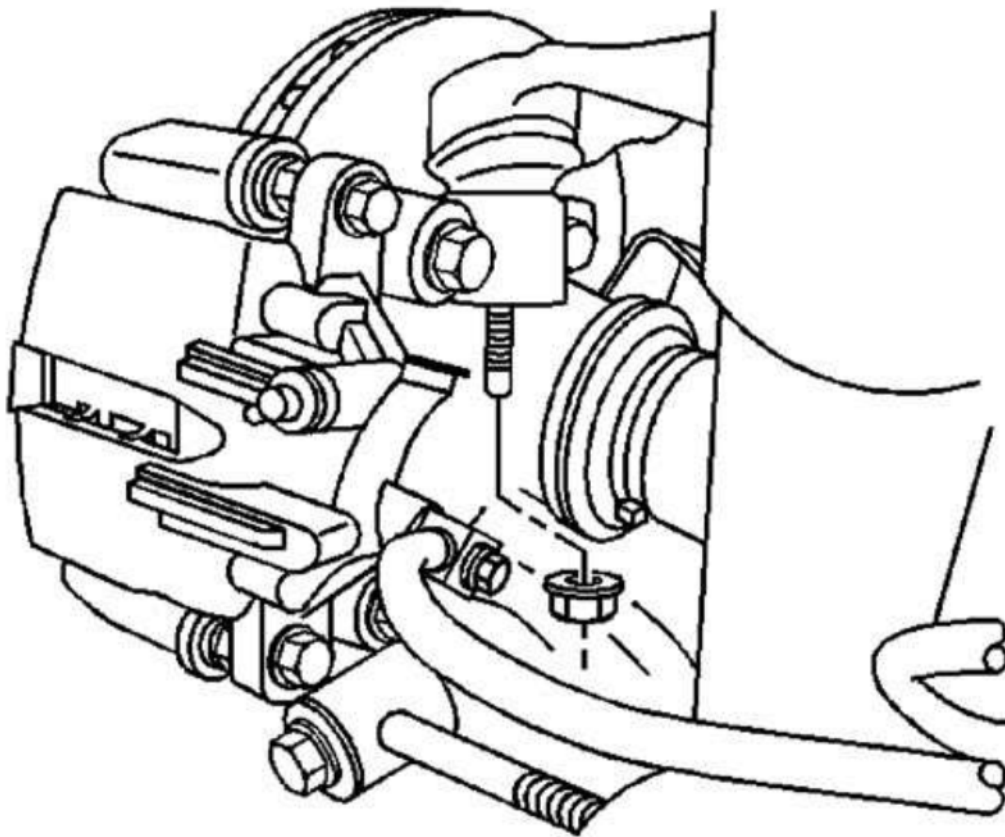


Fig. 68: View Of Upper Ball Joint Mounting Nut
Courtesy of GENERAL MOTORS CORP.

3. Remove the upper control arm to knuckle retaining nut.

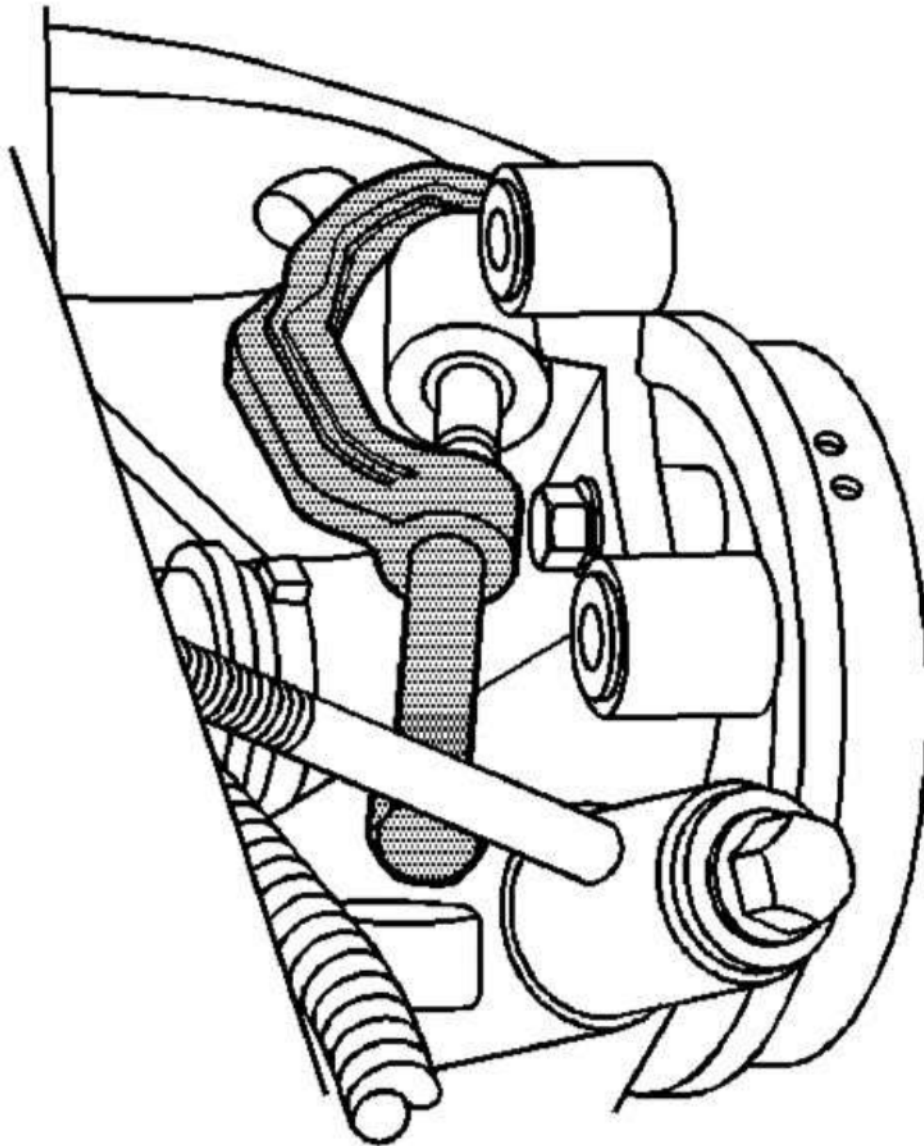


Fig. 69: Separating The Ball Stud From The Knuckle Using J 43631
Courtesy of GENERAL MOTORS CORP.

NOTE: Do not free the ball stud by using a pickle fork or a wedge-type tool. Damage to the seal or bushing may result.

4. Using the **J 43631** , disconnect the upper control arm from the knuckle.

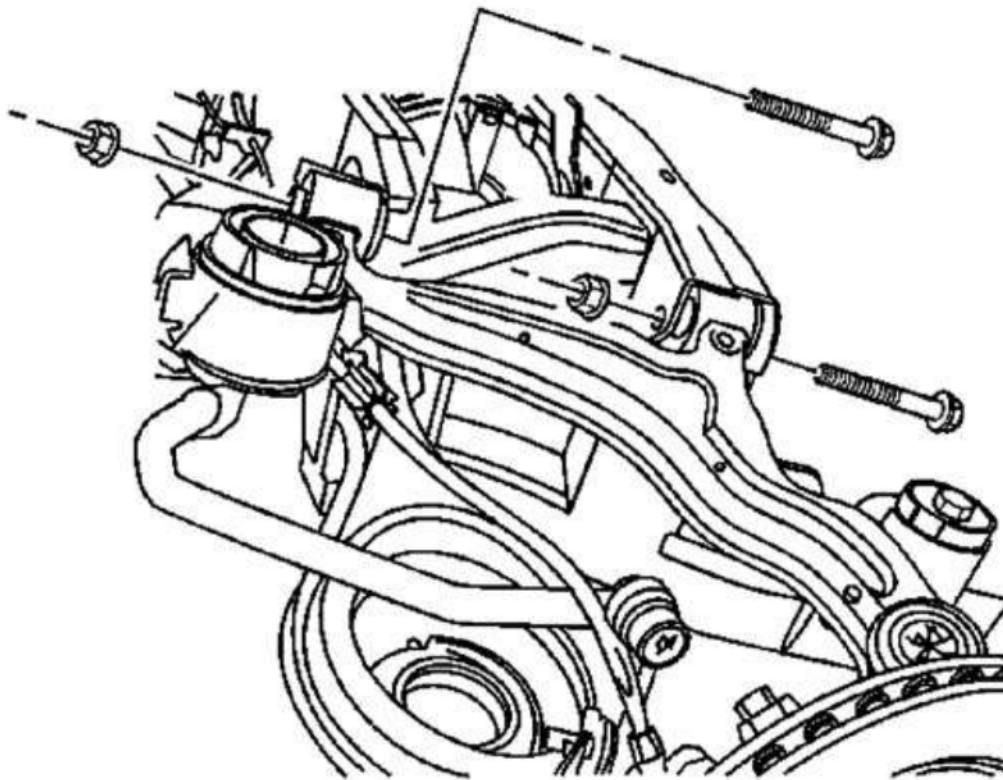


Fig. 70: View Of Upper Control Arm-To-Frame Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

5. Remove the upper control arm to frame mounting nuts and discard.
6. Remove the upper control arm to frame mounting bolts and discard.
7. Remove the upper control arm from the vehicle.

Installation Procedure

1. Install the upper control arm to the vehicle.

IMPORTANT: Loosely install all fasteners before tightening.

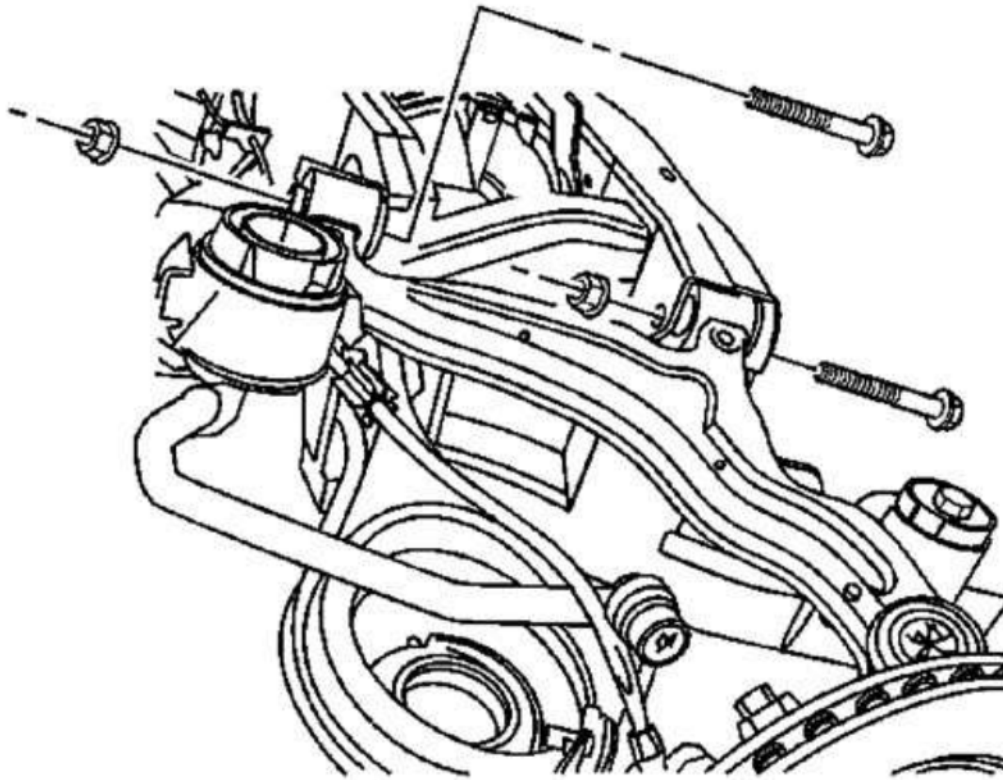


Fig. 71: View Of Upper Control Arm-To-Frame Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

2. Install the upper control arm to frame mounting bolts.
3. Install the upper control arm to frame mounting nuts.
4. Install the upper control arm to the knuckle.

NOTE: Refer to Fastener Notice in Cautions and Notices.

5. Install the upper control arm to knuckle retaining nut.

Tighten:

- Tighten the upper control arm to knuckle nut to 20 N.m (15 lb ft) plus an additional 210 degrees.
- Tighten new upper control arm to frame bolts to 150 N.m (111 lb ft).
- Tighten new upper control arm to frame nuts to 150 N.m (111 lb ft).

6. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires

and Wheels.

7. Lower the vehicle.

LOWER CONTROL ARM REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle in General Information.
2. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation in Tires and Wheels.
3. Remove the stabilizer shaft link lower retaining nut.
4. Disconnect the stabilizer shaft link from the lower control arm.
5. Remove the rear coil spring. Refer to Coil Spring Replacement.

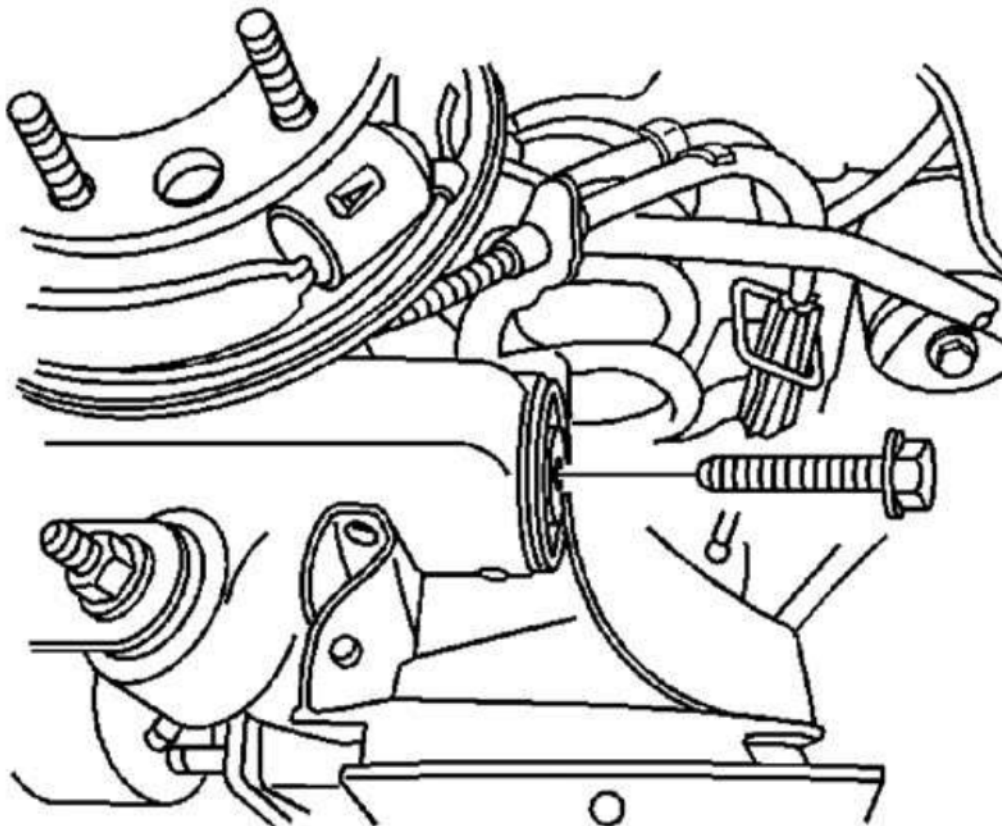


Fig. 72: View Of Lower Control Arm-To-Knuckle Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

6. Remove the lower control arm to knuckle bolt.

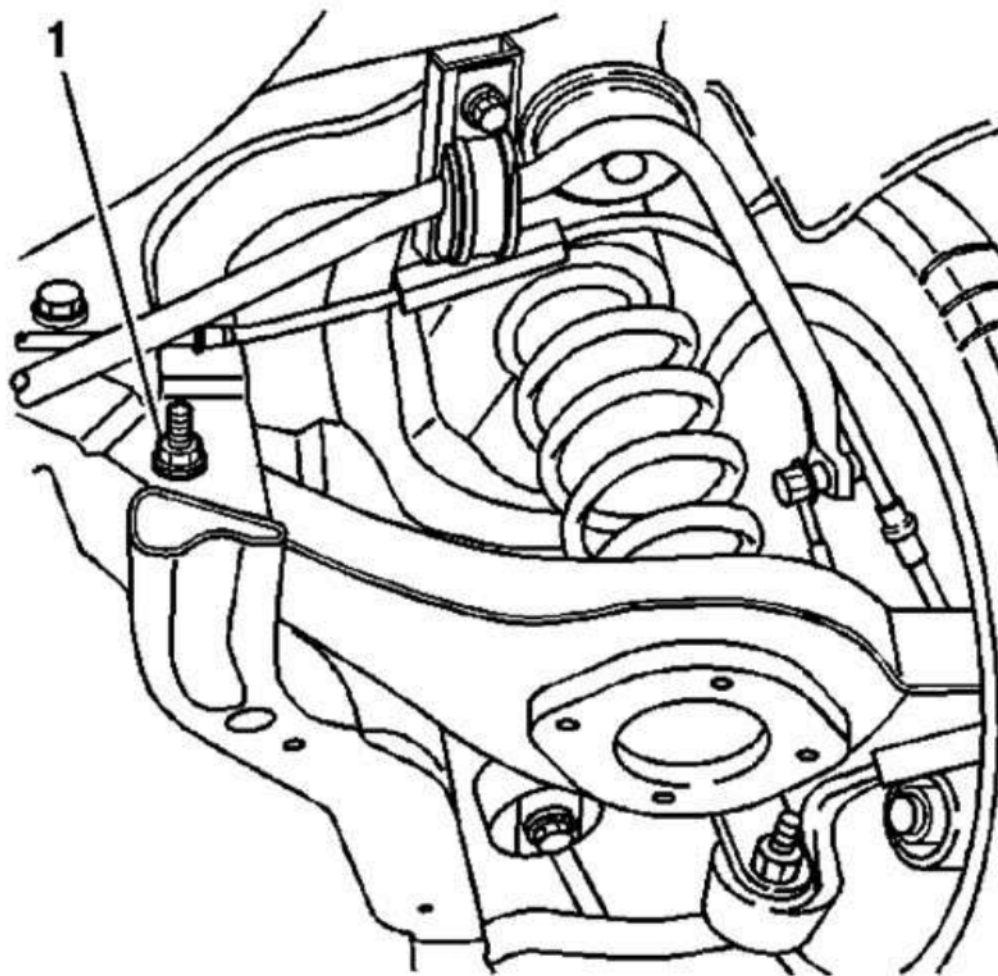


Fig. 73: Locating Lower Control Arm-To-Frame Bolt & Nut
Courtesy of GENERAL MOTORS CORP.

7. Remove the lower control arm to frame bolt and nut (1).
8. Remove the lower control arm.

Installation Procedure

1. Install the lower control arm to the vehicle.

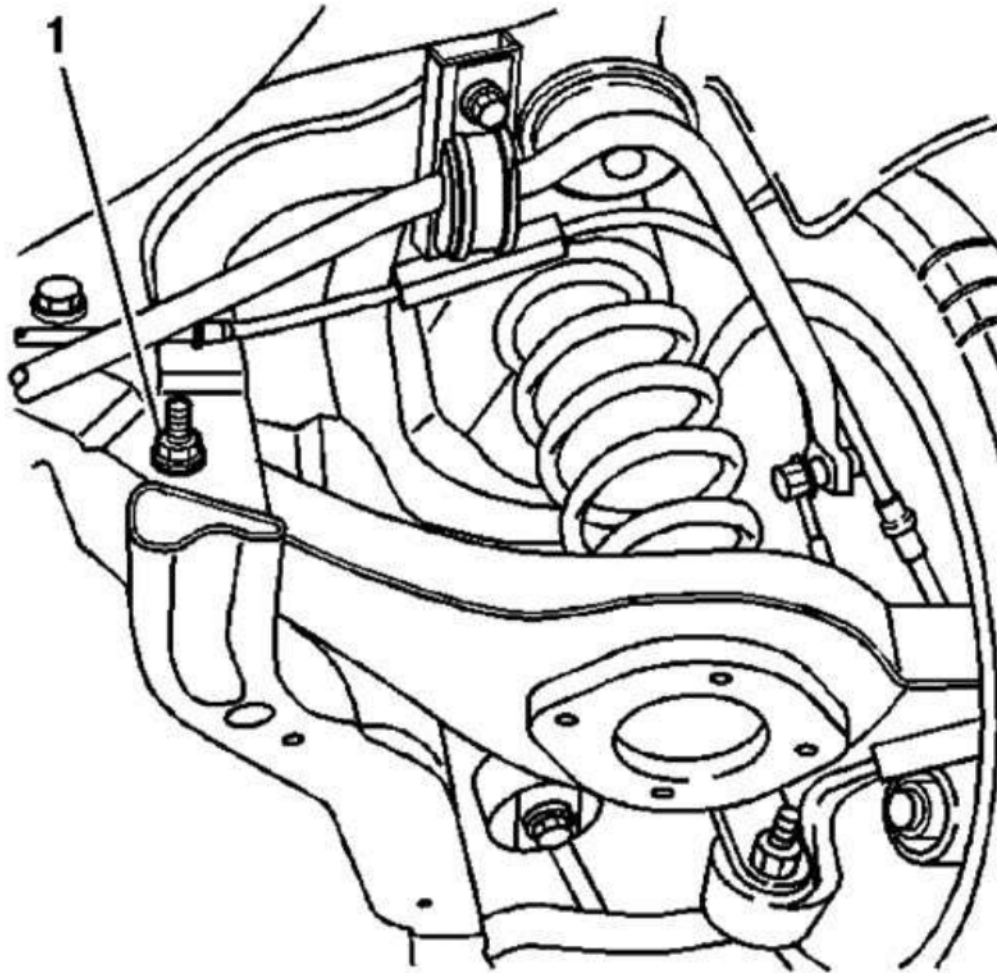


Fig. 74: Locating Lower Control Arm-To-Frame Bolt & Nut
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Loosely install all fasteners before tightening.

2. Install the lower control arm to frame bolt and nut (1).

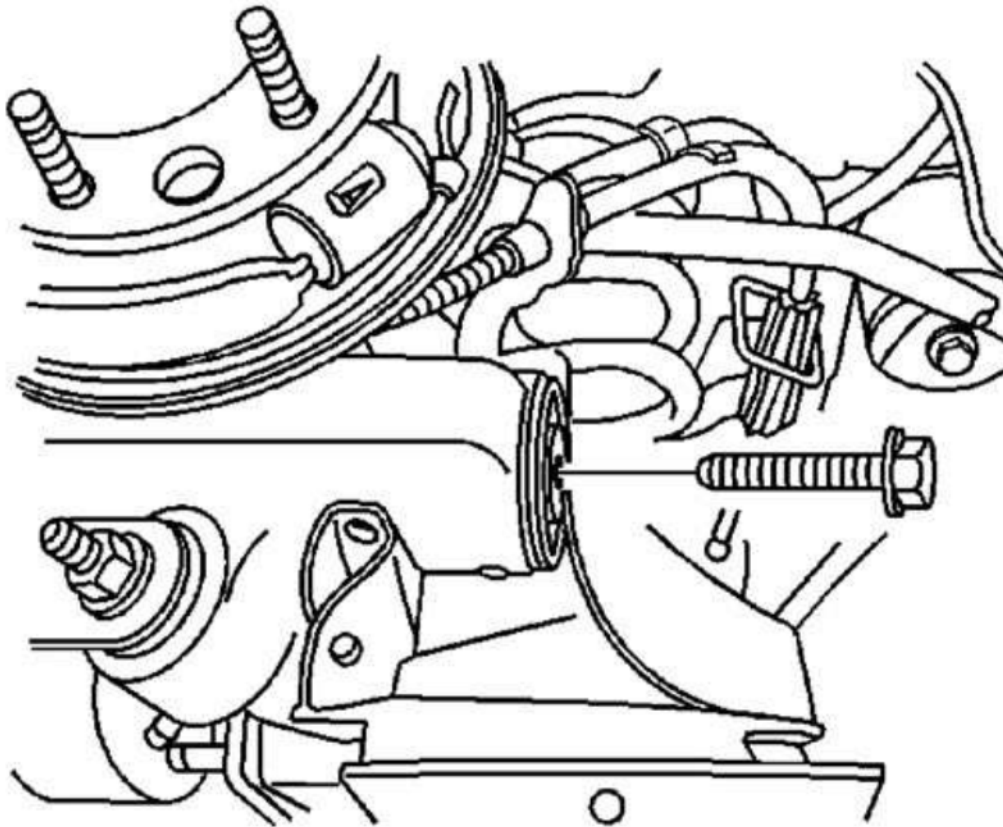


Fig. 75: View Of Lower Control Arm-To-Knuckle Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

3. Install the lower control arm to knuckle bolt.
4. Install the rear coil spring. Refer to Coil Spring Replacement.

NOTE: Refer to Fastener Notice in Cautions and Notices.

5. Tighten the following fasteners:

Tighten:

- Tighten the lower control arm to frame bolt to 135 N.m (100 lb ft).
 - Tighten the lower control arm to frame nut to 135 N.m (100 lb ft).
 - Tighten the lower control arm to knuckle bolt to 160 N.m (118 lb ft).
6. Connect the stabilizer shaft link to the lower control arm.
 7. Install the stabilizer shaft link lower retaining nut.

2004 Cadillac SRX

2004 SUSPENSION Rear Suspension - SRX

8. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
9. Lower the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.

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** in General Information.
2. Remove the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.

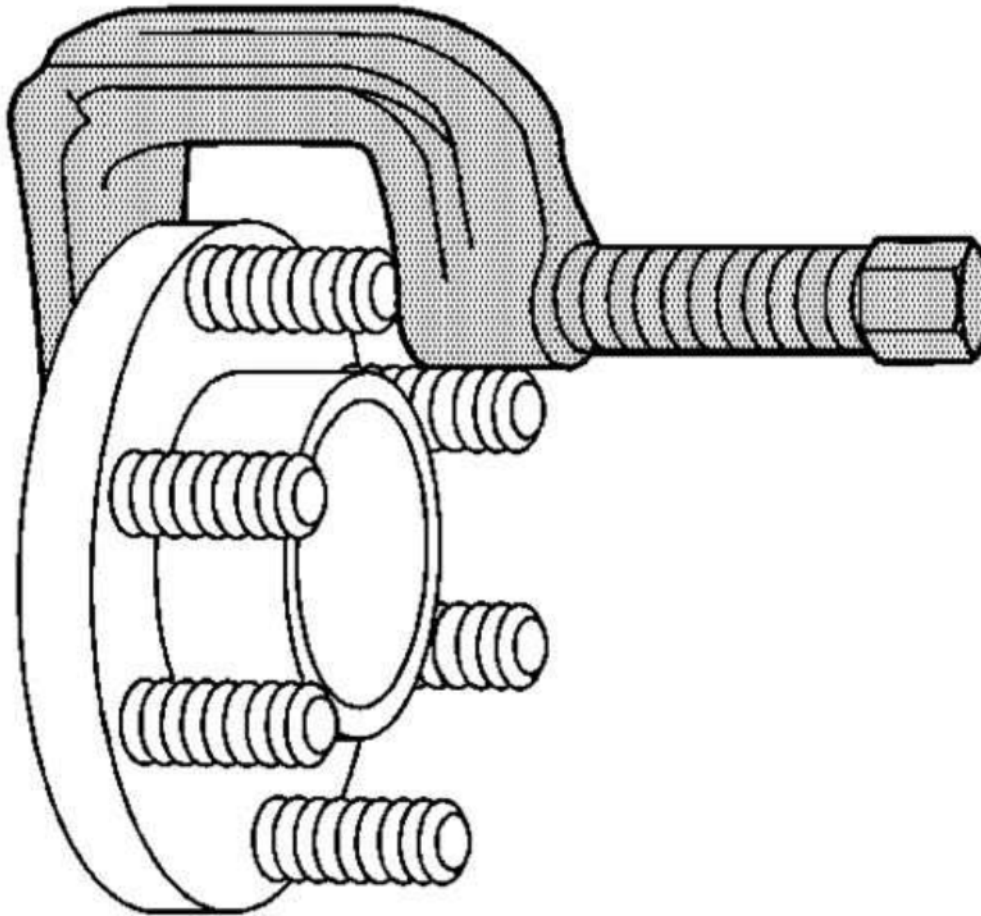


Fig. 76: Removing Wheel Studs
Courtesy of GENERAL MOTORS CORP.

3. Remove the wheel bearing/hub assembly. Refer to **Wheel Bearing/Hub Replacement - Rear**.
4. Using **J 43631** remove the wheel stud from the wheel bearing.

Installation Procedure

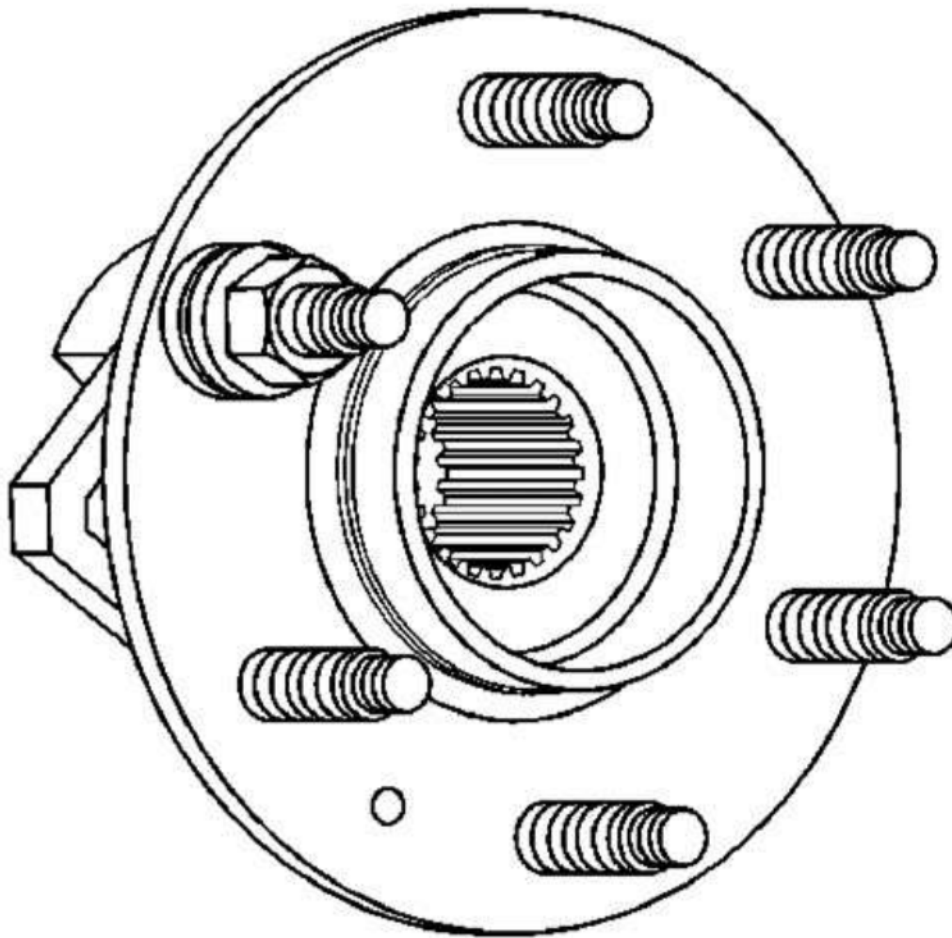


Fig. 77: Installing Wheel Studs
Courtesy of GENERAL MOTORS CORP.

1. Install the new stud from the back side of the hub.
2. Install flat washers on the wheel stud.

IMPORTANT: Ensure that the wheel stud is fully seated against the wheel hub flange.

3. With the flat side of a wheel nut against the washers, tighten the wheel nut until the wheel stud head seats against the wheel hub flange.
4. Install the wheel bearing/hub assembly. Refer to **Wheel Bearing/Hub Replacement - Rear.**

5. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
6. Lower the vehicle.

DESCRIPTION AND OPERATION

GENERAL DESCRIPTION

These vehicles are equipped with independent rear suspension and coil spring.

The shock absorbers with RPO code FE3 are a fully automatic self levelling shock absorber. The shock absorber when loaded will reach its normal ride height after a few hundred yards.

The rear spring steel stabilizing bar helps minimize body roll and sway during cornering. The rear stabilizer shaft is connected to the frame through insulators and to the lower control arm through the stabilizer shaft links.

The rear suspension system on this vehicle consists of the following components:

- The rear differential
- Two coil springs
- Two shock absorbers
- Two toe adjustment links
- Two upper control arms
- Two lower control arms
- Two knuckles
- The stabilizer shaft
- Two stabilizer shaft links
- Two trailing arms

SPECIAL TOOLS AND EQUIPMENT

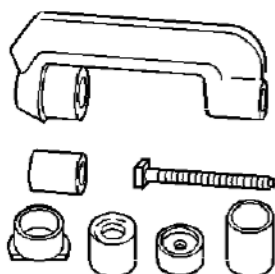
SPECIAL TOOLS

Special Tools

Illustration	Tool Number/Description
	J 9519-E

2004 Cadillac SRX

2004 SUSPENSION Rear Suspension - SRX



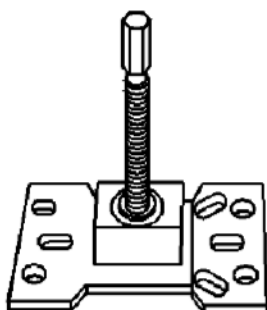
Lower Ball Joint Remover and Installer



J 21474-O1
Control Arm Bushing Set



J 43631
Ball Joint Remover



J 45859
Axle Remover

2004 Cadillac SRX
2004 SUSPENSION Rear Suspension - SRX

2004 Cadillac SRX
2004 SUSPENSION Rear Suspension - SRX

2004 Cadillac SRX
2004 SUSPENSION Rear Suspension - SRX

2004 Cadillac SRX
2004 SUSPENSION Rear Suspension - SRX

2004 Cadillac SRX
2004 SUSPENSION Rear Suspension - SRX

2004 Cadillac SRX
2004 SUSPENSION Rear Suspension - SRX