

ACCESSORIES EQUIPMENT

Frame and Underbody - Corvette

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Engine Mount Upper Mounting Fastener	75 N.m	55 lb ft
Floor Panel Tunnel Panel Fasteners (Qty 22)	27 N.m	20 lb ft
Floor Panel Tunnel Panel Fasteners (Qty 2)	100 N.m	74 lb ft
Front Brake Hose Bracket Fastener	9 N.m	80 lb in
Front Brake Caliper Cooling Duct Fasteners	9 N.m	80 lb in
Front Brake Caliper Cooling Duct Deflector Fasteners	4.5 N.m	35 lb in
Front Cradle Mounting Fasteners	160 N.m	118 lb ft
Park Brake Cable Bracket Fastener	9 N.m	80 lb in
Power Steering Gear Mounting Bolts	110 N.m	81 lb ft
Rear Brake Caliper Cooling Duct Fasteners	9 N.m	80 lb in
Rear Brake Caliper Cooling Duct Deflector Fasteners	4.5 N.m	35 lb in
Rear Crossmember Mounting Bolts	160 N.m	118 lb ft
Stabilizer Shaft Mounting Bracket Fasteners	58 N.m	43 lb ft
Transmission Mounting Nuts	43 N.m	32 lb ft
Underbody Side Rail Cross Brace Fasteners	100 N.m	74 lb ft
Wheelhouse Liner Bolts	9 N.m	80 lb in
Wheelhouse Liner Screws	2.5 N.m	80 lb in
Wheel Speed Sensor/Brake Hose Bracket Fastener	9 N.m	80 lb in

REPAIR INSTRUCTIONS

REAR CROSSMEMBER REPLACEMENT

Special Tools

J 42055 Drivetrain Support Fixture

For equivalent regional tools, refer to **Special Tools**.

Removal Procedure

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

NOTE: Vehicle alignment is not required if the cradle is being lowered or dropped to perform another procedure. This vehicle is equipped with a cradle to body aligning feature: cradle to body through holes or self aligning pins that are part of the cradle or body. Only align if replacing with a **NEW** part and transferring components.

2. Remove the rear wheel and tire assembly.
3. Remove the rear underbody side rail cross braces. Refer to **Underbody Side Rail Cross Brace Replacement (Rear)**, **Underbody Side Rail Cross Brace Replacement (Front)**.

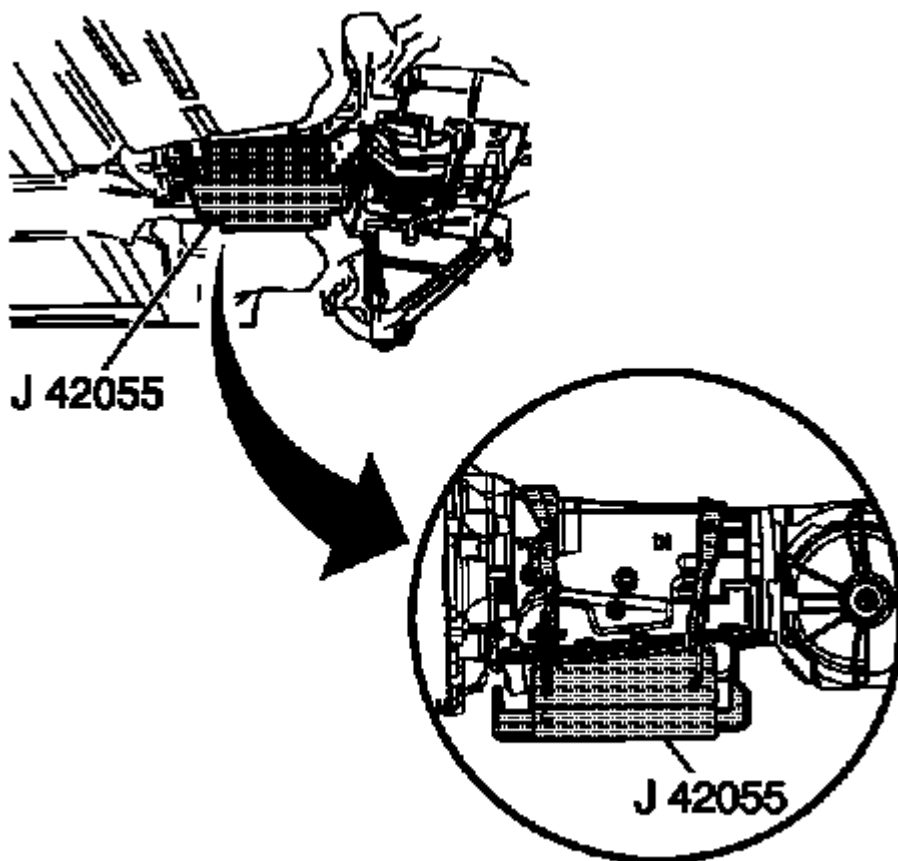


Fig. 1: View Of J 42055 & Transmission
Courtesy of GENERAL MOTORS COMPANY

4. Assemble the **J 42055** drivetrain support fixture and install it to a transmission jack.
5. Position and firmly secure the **J 42055** drivetrain support fixture with the transmission jack to the transmission. Support the transmission.

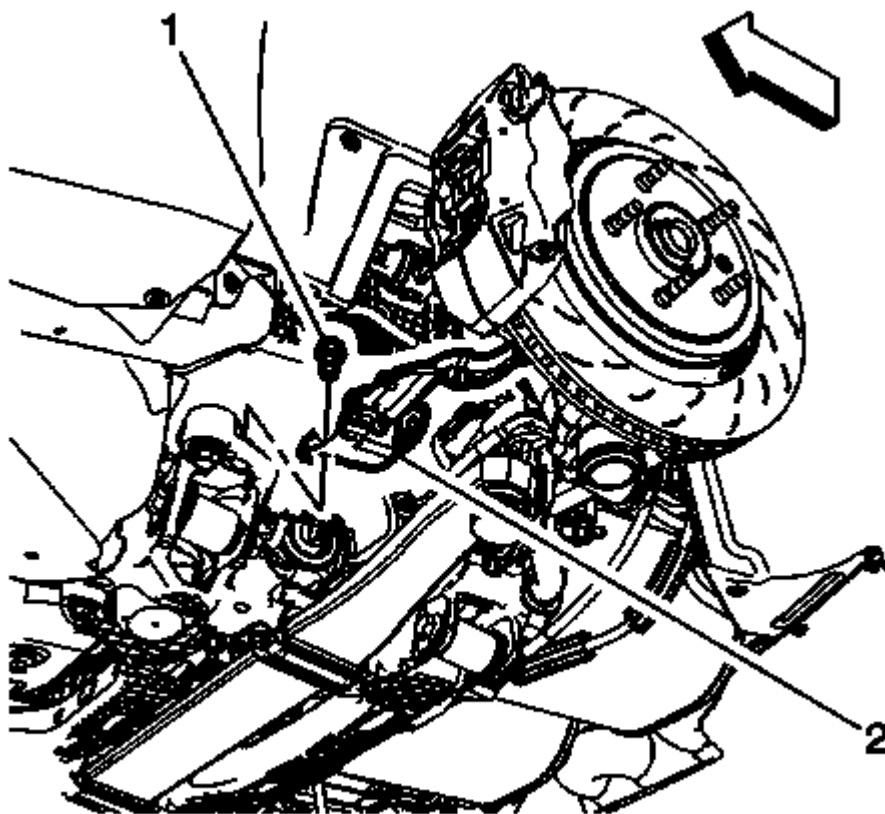


Fig. 2: Fastener

Courtesy of GENERAL MOTORS COMPANY

6. Remove the fastener (1) that secures the brake hose and wheel speed sensor bracket (2), to the rear crossmember.

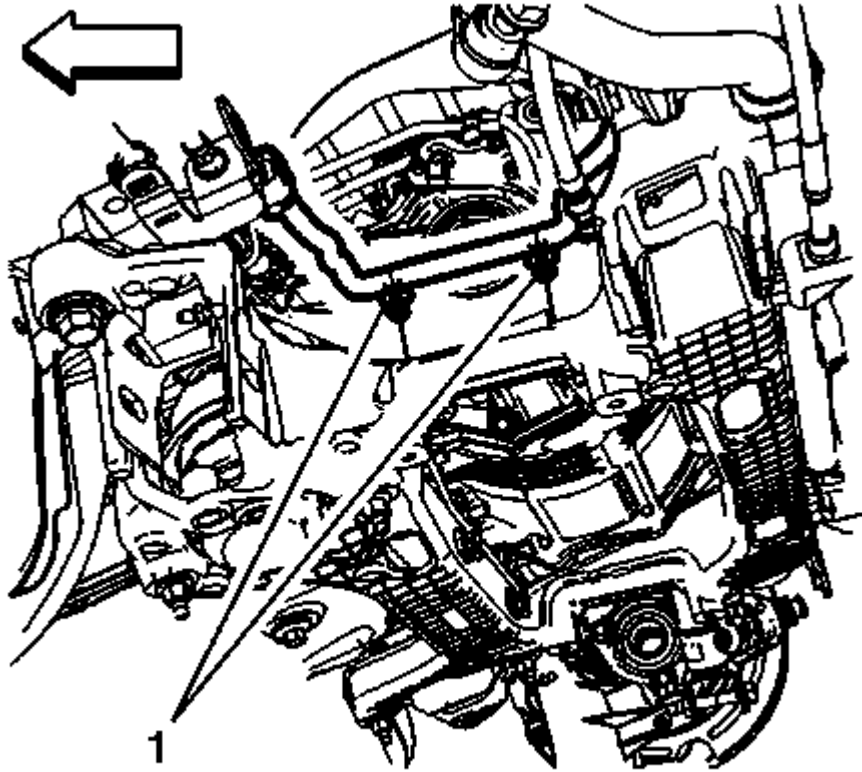


Fig. 3: Left Side Transmission Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

7. Disconnect the left side transmission harness retainers (1) from the rear crossmember.

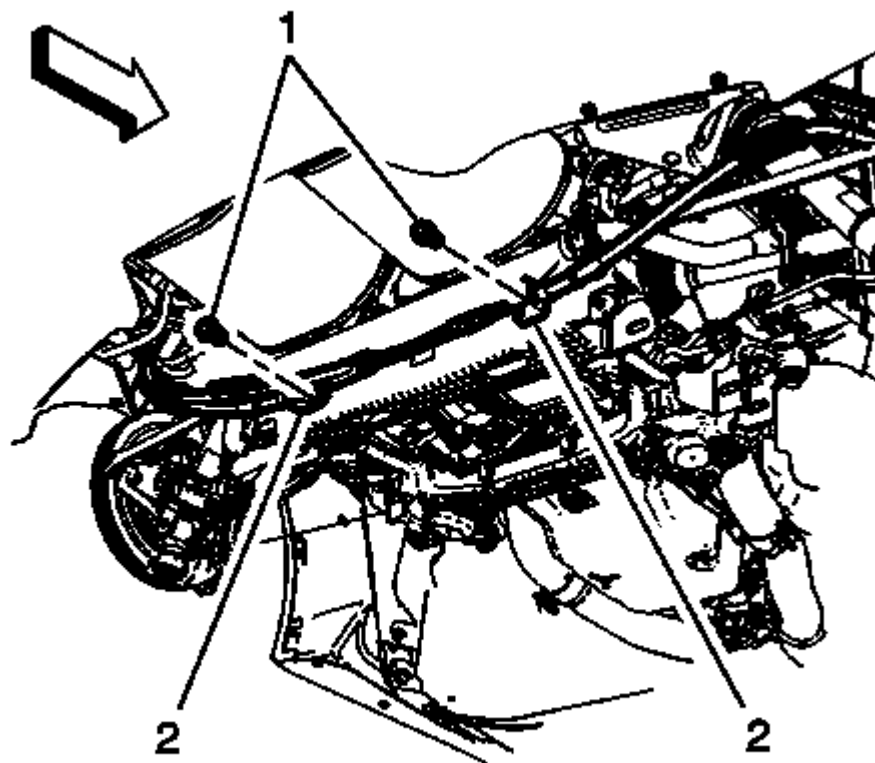


Fig. 4: Park Brake Cable Bracket Fasteners
Courtesy of GENERAL MOTORS COMPANY

8. Remove the park brake cable bracket fasteners (1).
9. Using mechanics wire, secure the park brake cable brackets (2) away from the rear crossmember.

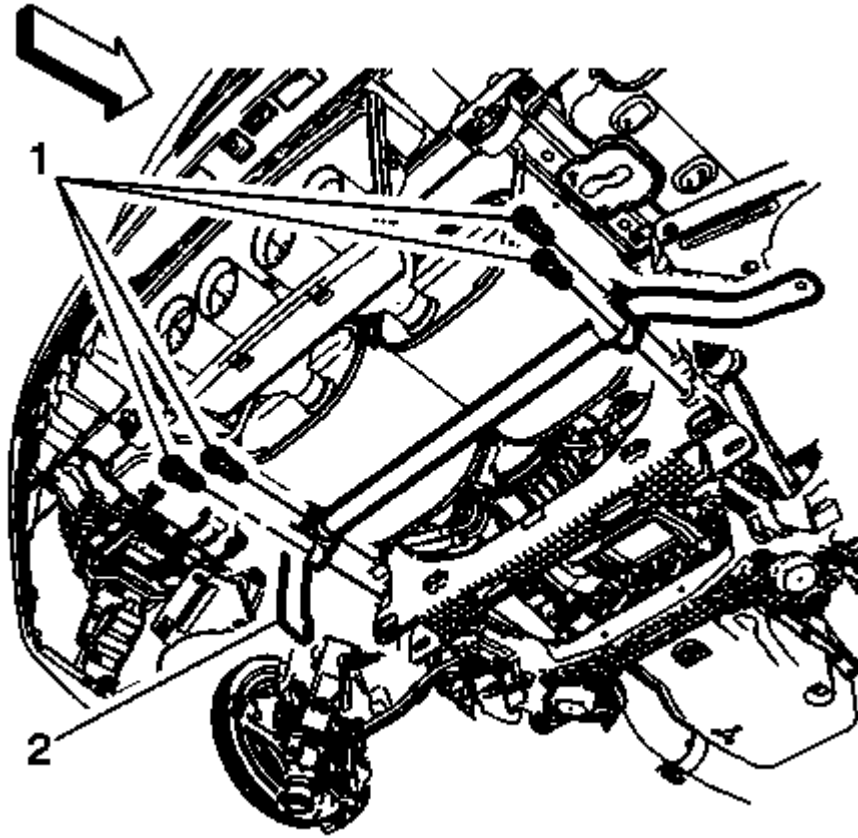


Fig. 5: Stabilizer Bar Fasteners
Courtesy of GENERAL MOTORS COMPANY

10. Remove the stabilizer bar fasteners (1) and remove the stabilizer bar (2) from the rear crossmember.

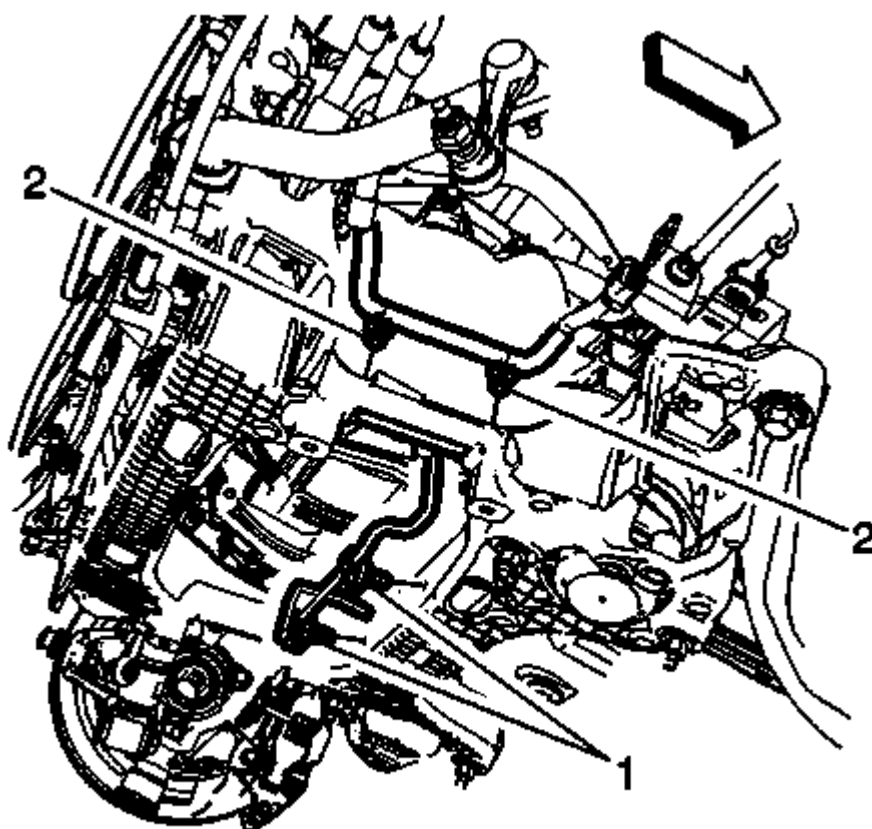


Fig. 6: Right Side Transmission Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

11. Remove the right side transmission harness retainers (2) and the brake pipe retainers (1), from the rear crossmember.

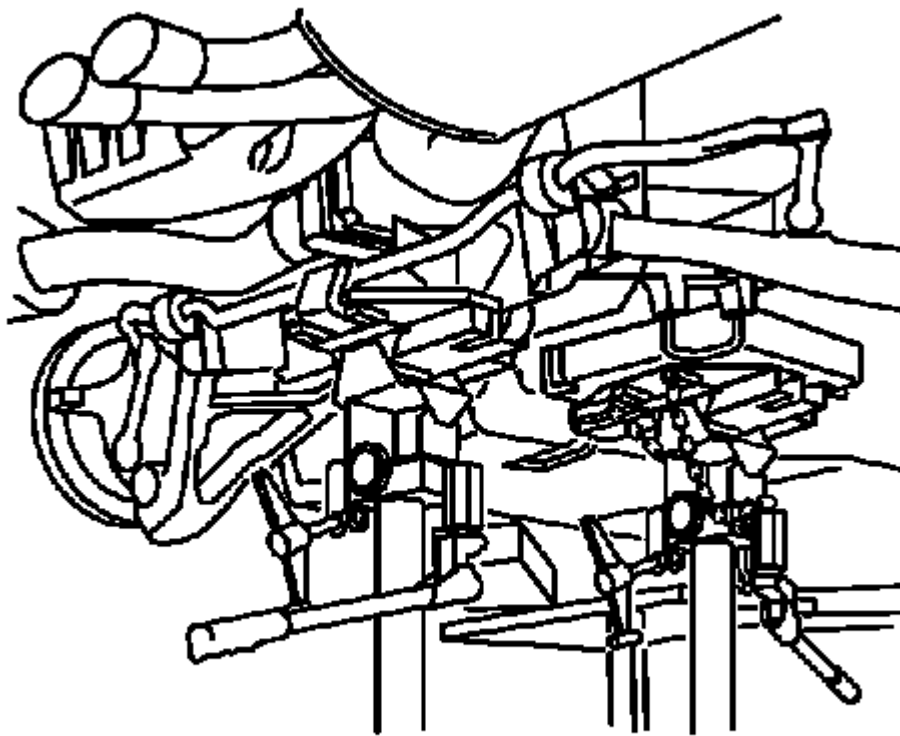


Fig. 7: View Of Jack Supports

Courtesy of **GENERAL MOTORS COMPANY**

12. Remove the rear wheel driveshafts. Refer to **Rear Wheel Drive Shaft Replacement** ..
13. Disconnect the lower shock mounting bolts.
14. Place a jack stand under the lower control arm and disconnect the lower control arm ball stud from the knuckle.
15. Slowly lower the jack stand and remove.

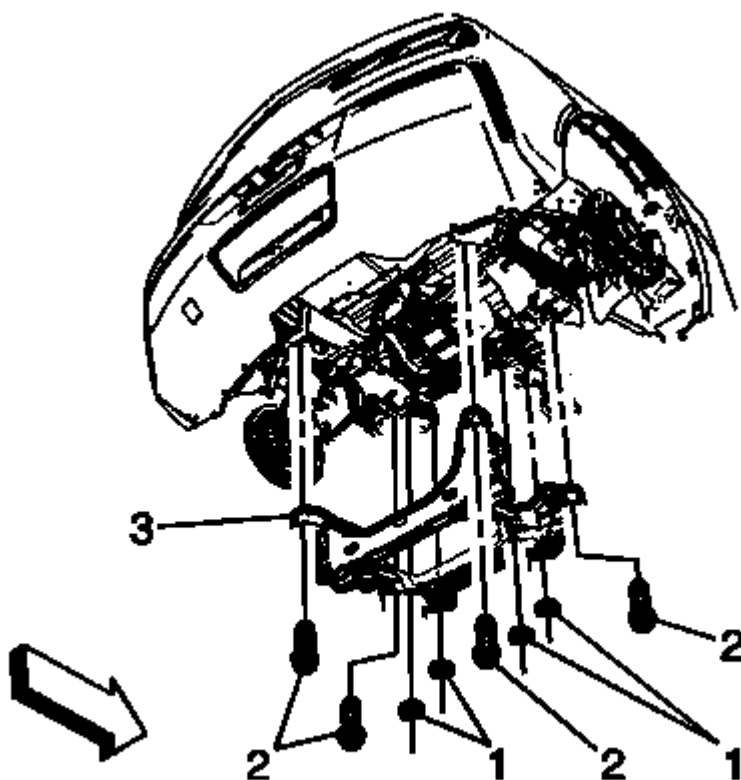


Fig. 8: Rear Crossmember Mounting Bolts And Rear Crossmember
Courtesy of GENERAL MOTORS COMPANY

16. Using HAND TOOLS ONLY, remove the lower transmission mount-to-lower rear suspension crossmember fasteners (1).
17. Position a transmission jack under the rear crossmember and firmly secure the rear crossmember to the jack. Support the rear crossmember.
18. Using HAND TOOLS ONLY, remove the rear crossmember mounting bolts (2).
19. Remove the rear crossmember (3) from the vehicle.

NOTE: Rear spring and lower control arms will come down with the crossmember. Transfer parts to NEW cradle if it is replaced.

20. Remove the rear spring. Refer to **Rear Spring Replacement** .

Installation Procedure

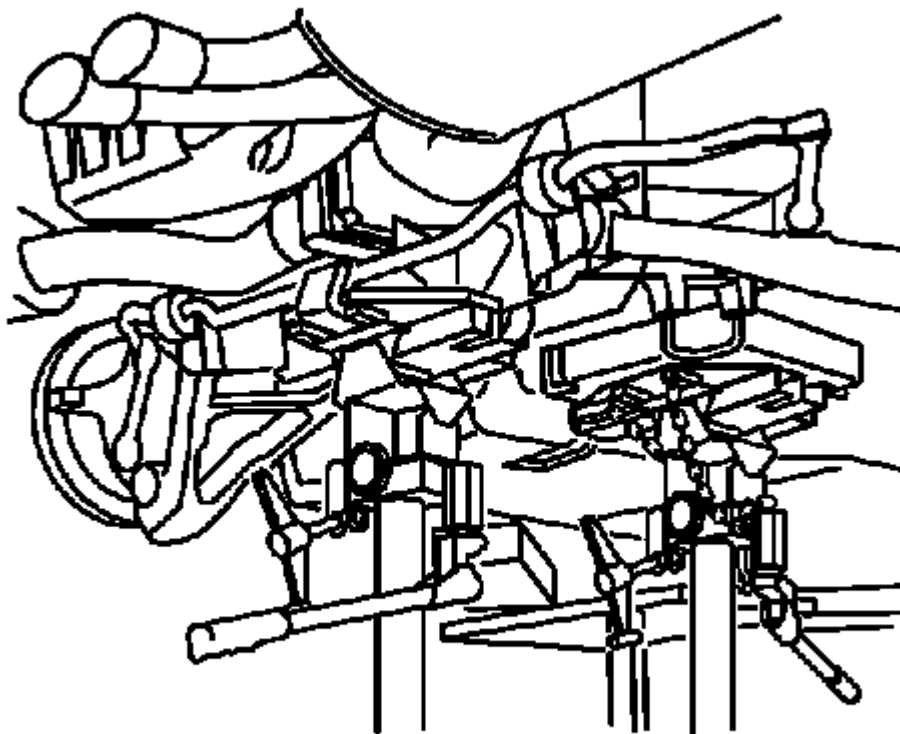


Fig. 9: View Of Jack Supports

Courtesy of GENERAL MOTORS COMPANY

NOTE: Make sure the front lower control arm bolt head is pointing towards the front of the vehicle.

1. Transfer spring and lower control arms to the NEW cradle.
2. Install the rear crossmember to the vehicle.
 - Align the rear crossmember dowel pins to the holes in the frame rails.
 - Align the transmission mount studs to the rear crossmember.

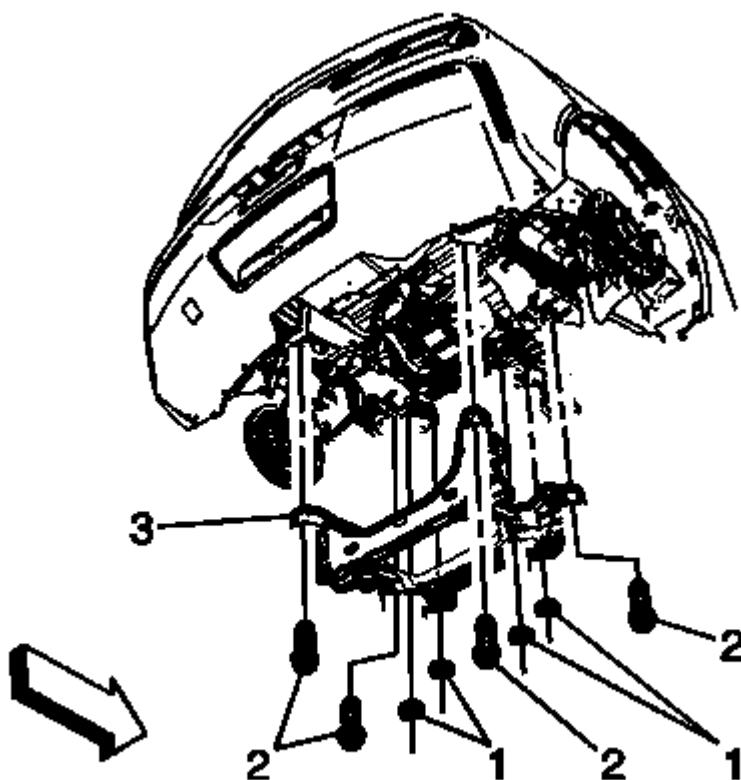


Fig. 10: Rear Crossmember Mounting Bolts And Rear Crossmember
 Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

3. Using HAND TOOLS ONLY, install the rear crossmember mounting bolts (2) and tighten to 160 (118 lb ft).
4. Using HAND TOOLS ONLY, Install the transmission mount nuts (1) and tighten to 43 (32 lb ft).
5. Remove the **J 42055** drivetrain support fixture transmission jack from the transmission.
6. Remove the transmission jack from the crossmember.
7. Using a jackstand to support the lower control arm, perform the following:
 - Reinstall the axle shaft to the knuckle. Refer to Rear Wheel Drive Shaft Replacement .
 - Reinstall the lower control arm to the knuckle. Refer to Lower Control Arm Replacement (without FE2, FE4) , Lower Control Arm Replacement (with FE2, FE4) .
 - Reinstall the lower shock bolts. Refer to Shock Absorber Replacement (without FE2, FE4) , Shock Absorber Replacement (with FE2, FE4) .
 - Reinstall the adjust link. Refer to Adjust Link Replacement .

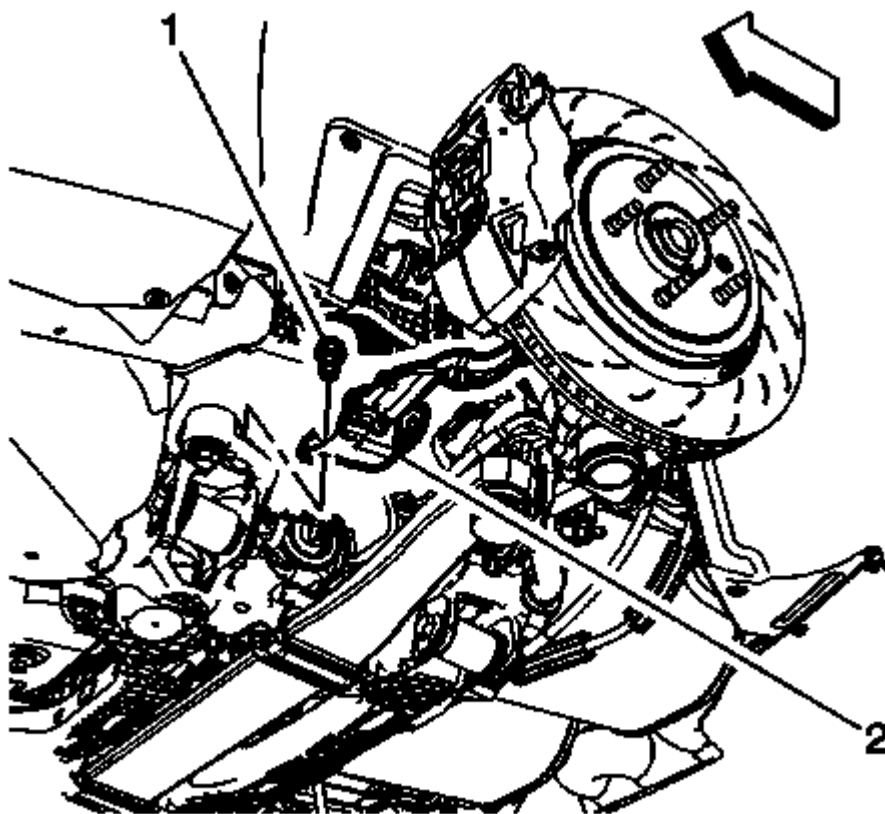


Fig. 11: Fastener

Courtesy of GENERAL MOTORS COMPANY

8. Install the left and right wheel speed/brake hose brackets (2) and tighten the fastener (1) to 9 (80 lb in).

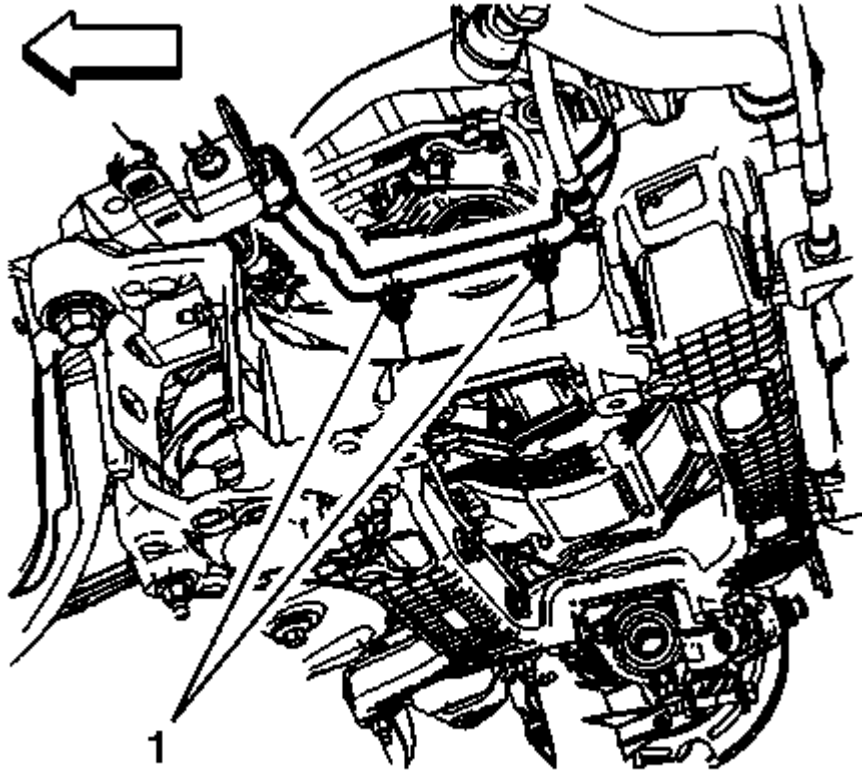


Fig. 12: Left Side Transmission Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

9. Install the left side transmission harness retainers (1) to the rear crossmember.

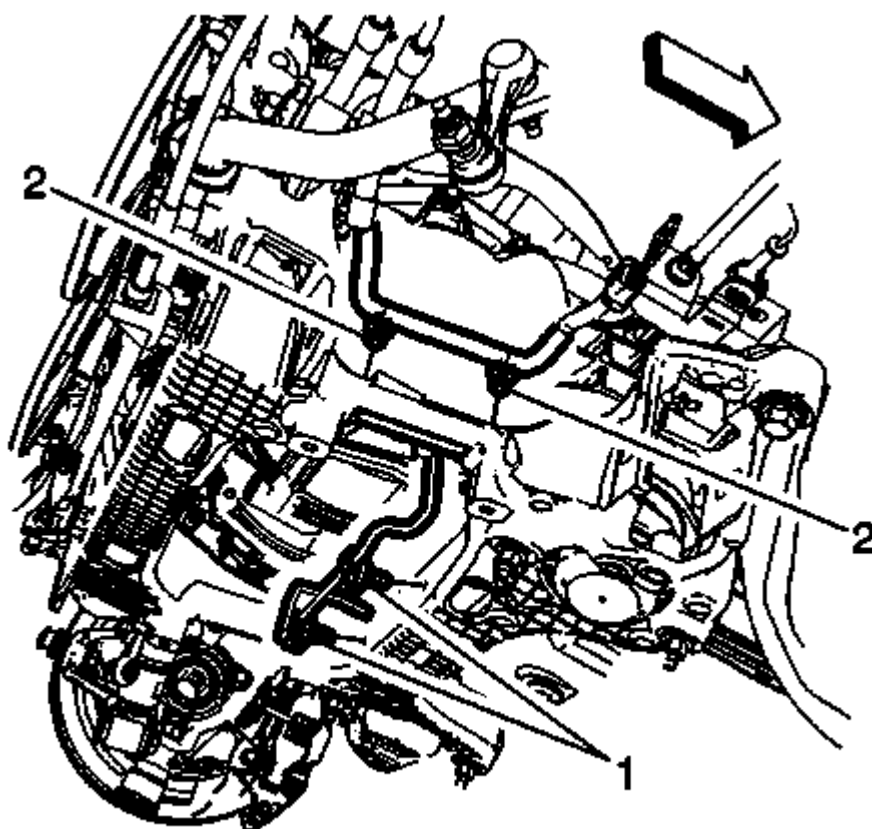


Fig. 13: Right Side Transmission Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

10. Install the right side transmission harness retainers (2) and the brake line retainers (1) to the rear crossmember.

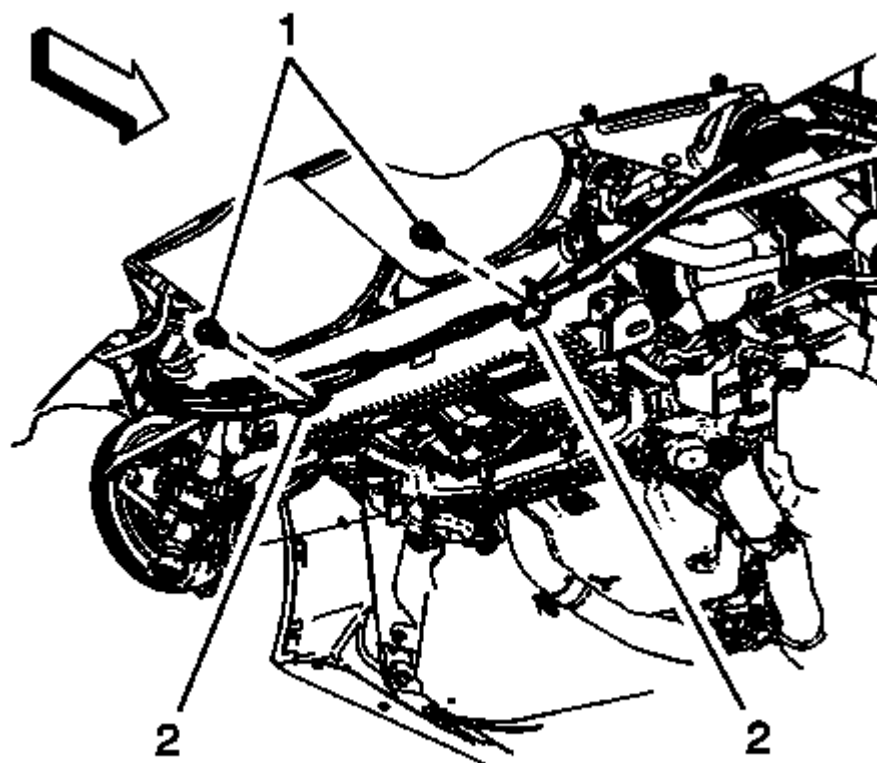


Fig. 14: Park Brake Cable Bracket Fasteners
Courtesy of GENERAL MOTORS COMPANY

11. Install the park brake cable brackets (2) and tighten the fasteners (1) to 9 (80 lb in).

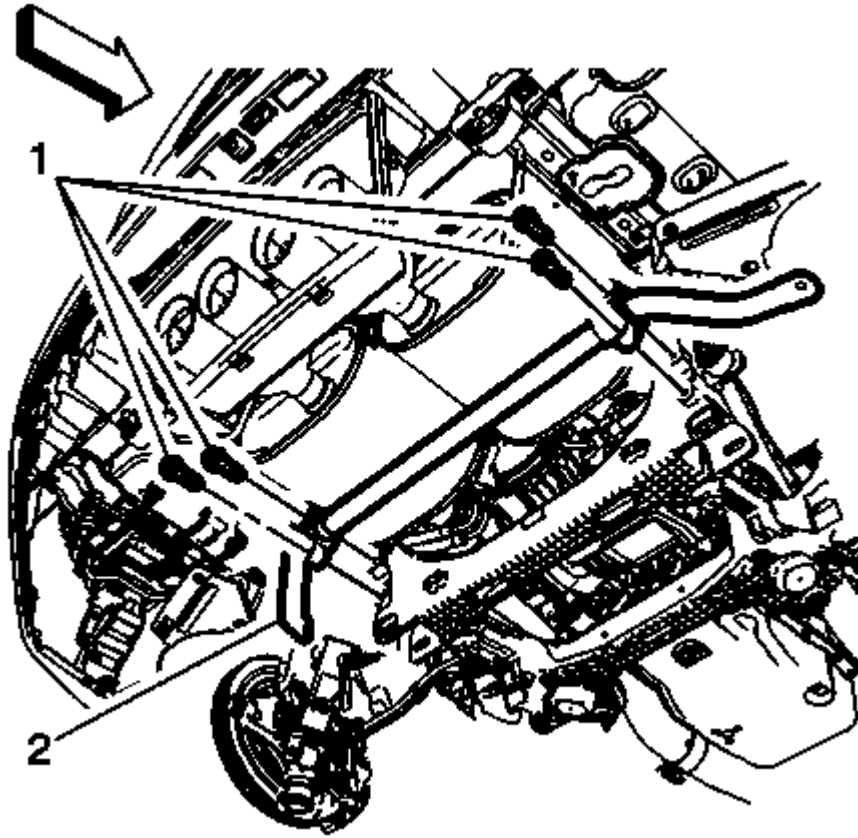


Fig. 15: Stabilizer Bar Fasteners
 Courtesy of GENERAL MOTORS COMPANY

NOTE: Only tighten the insulator clamp bolts enough to draw the insulator clamp to the rear suspension support.

12. Loosely install the stabilizer shaft insulator clamp fasteners (1).
13. Tighten the stabilizer shaft insulator clamp fasteners (1), alternating between the top and bottom, until the stabilizer shaft insulator clamps are drawn to the rear suspension support.
14. Tighten the stabilizer shaft insulator clamp fasteners to 58 (43 lb ft).
15. Install the rear underbody side rail cross braces. Refer to **Underbody Side Rail Cross Brace Replacement (Rear)**, **Underbody Side Rail Cross Brace Replacement (Front)**.
16. Install the tire and wheel assemblies. Refer to **Tire and Wheel Removal and Installation**.
17. Lower the vehicle.
18. Measure and adjust the rear trim height as necessary. Refer to **Trim Height Inspection**.
19. Perform a rear wheel alignment only if replacing with a NEW rear crossmember. Refer to **Wheel Alignment Measurement**.

UNDERBODY SIDE RAIL CROSS BRACE REPLACEMENT (REAR)

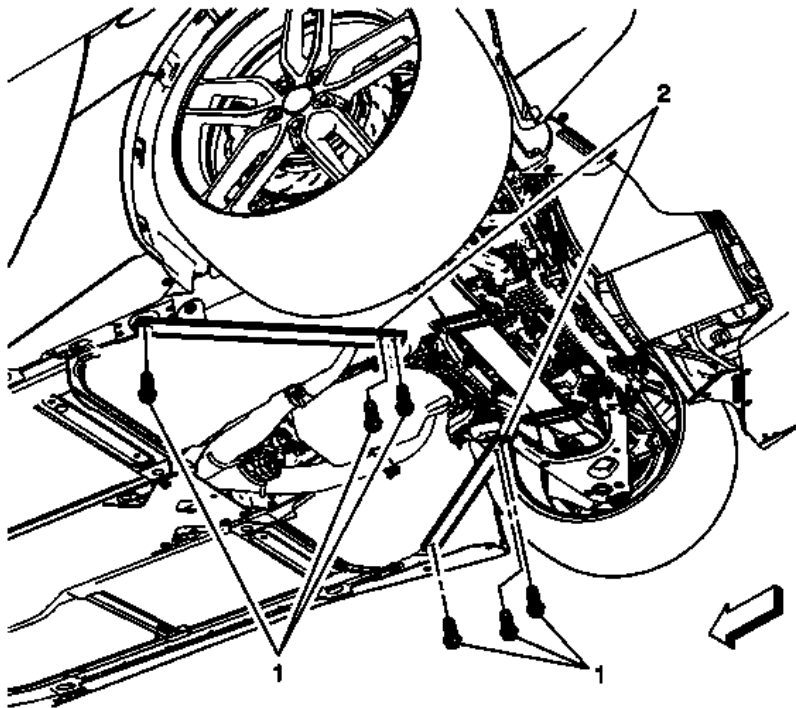


Fig. 16: Underbody Side Rail Cross Brace (Rear)
Courtesy of GENERAL MOTORS COMPANY

Underbody Side Rail Cross Brace Replacement (Rear)

Callout	Component Name
Preliminary Procedure Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
1	Underbody Side Rail Cross Brace - Rear Fasteners (Qty: 6) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 100 (74 lb ft)
2	Underbody Side Rail Cross Brace - Rear

UNDERBODY SIDE RAIL CROSS BRACE REPLACEMENT (FRONT)

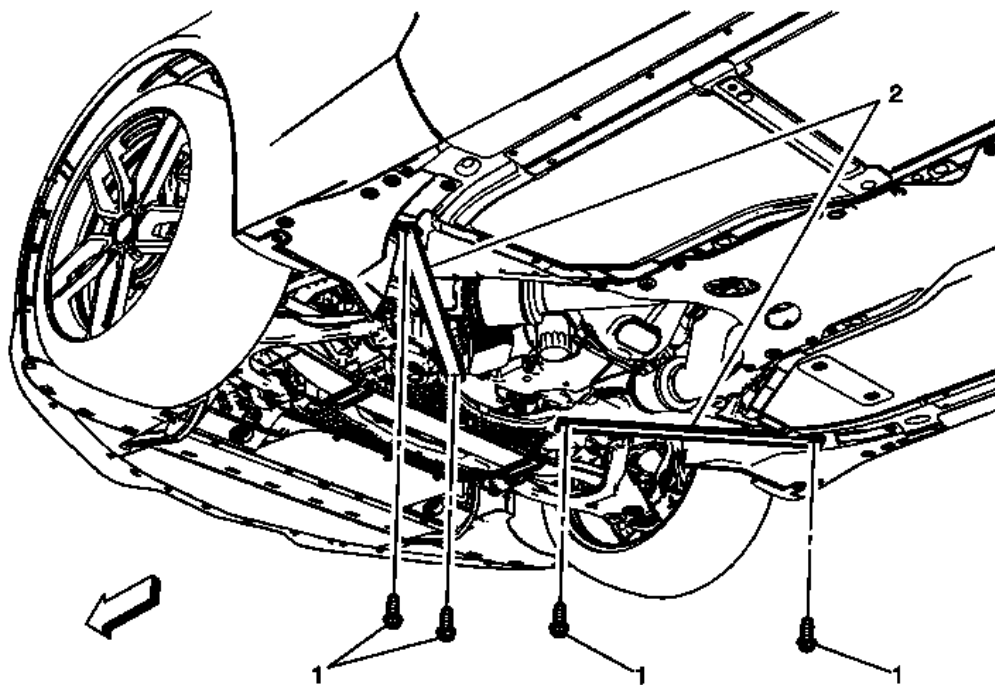


Fig. 17: Underbody Side Rail Cross Brace (Front)
Courtesy of GENERAL MOTORS COMPANY

Underbody Side Rail Cross Brace Replacement (Front)

Callout	Component Name
Preliminary Procedure Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .	
1	Underbody Side Rail Cross Brace - Front Fasteners (Qty: 6) CAUTION: Refer to Fastener Caution . Tighten 100 (74 lb ft)
2	Underbody Side Rail Cross Brace - Front

FRONT CRADLE REPLACEMENT

Special Tools

- **J 33432-B** Transverse Spring Compressor

For equivalent regional tools, refer to **Special Tools**.

Removal Procedure

NOTE: Vehicle alignment is not required if cradle is being lowered or dropped to perform another procedure. This vehicle is equipped with a cradle to body aligning feature: cradle to body through holes or self-aligning pins that are part of the cradle or body. Only align if replacing the cradle with a NEW cradle and transferring components.

1. Remove the generator. Refer to **Generator Replacement (LT1)** .
2. Install the engine support fixture. Refer to **Engine Support Fixture** .
3. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
4. Remove the tire and wheel assemblies. Refer to **Tire and Wheel Removal and Installation** .

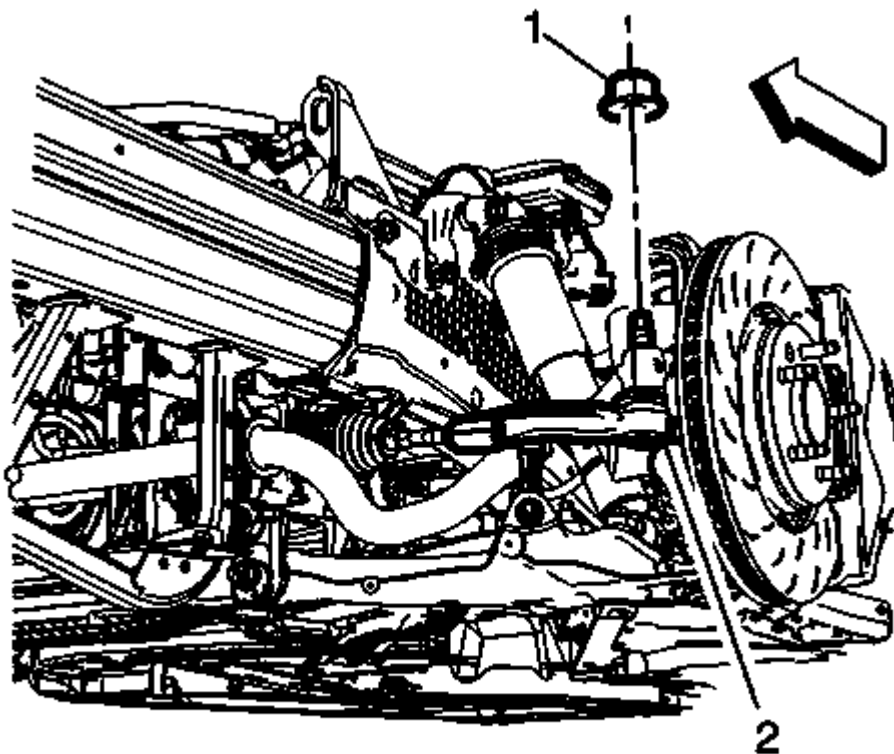


Fig. 18: Steering Linkage Outer Tie Rod End Stud Nuts
Courtesy of GENERAL MOTORS COMPANY

5. Remove the steering linkage outer tie rod end stud nuts (1). Refer to **Steering Linkage Outer Tie Rod Replacement** .
6. Disconnect the intermediate shaft lower coupling from the steering gear. Refer to **Intermediate Steering Shaft Replacement** .

7. Remove the fasteners from the electronic brake control module (EBCM)/brake pressure modulator valve (BPMV) bracket. Refer to **Brake Pressure Modulator Valve Bracket Replacement** .
8. Support and reposition the EBCM/BPMV and bracket away from the crossmember.

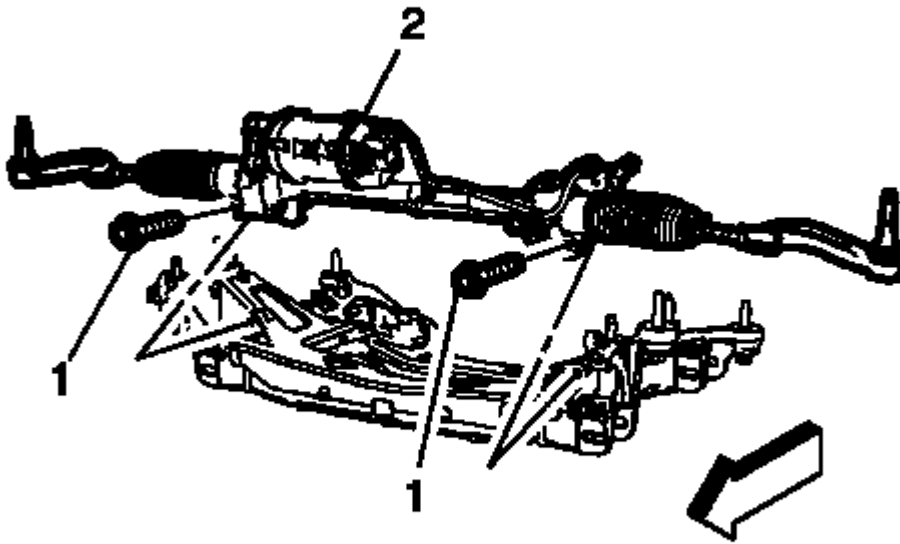


Fig. 19: Power Steering Gear Mounting Fasteners
Courtesy of GENERAL MOTORS COMPANY

9. Remove the power steering gear mounting fasteners (1).
10. Lift the power steering gear (2) off of the crossmember and support.

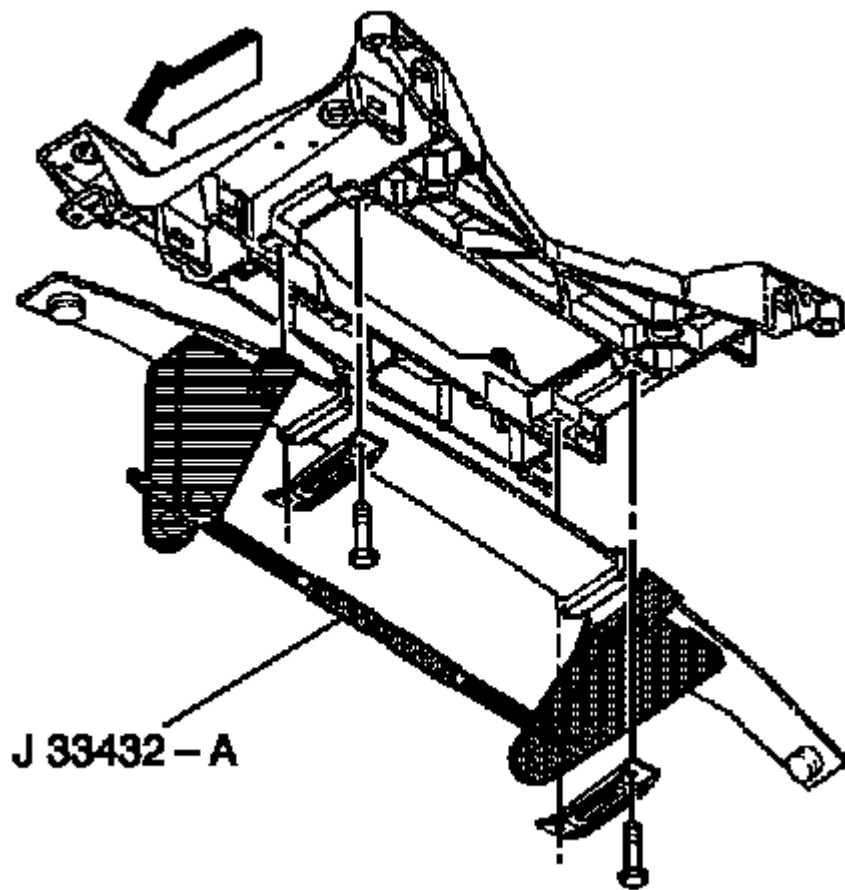


Fig. 20: Removing/Installing Transverse Spring Using J 33432-A
Courtesy of GENERAL MOTORS COMPANY

11. Using the **J 33432-A** transverse spring compressor, remove the front spring from the vehicle. Refer to **Front Spring Replacement** .
12. Disconnect the lower control arm ball joint stud at the knuckle on the opposite side. Refer to **Lower Control Arm Replacement** .
13. Remove the lower shock attachment bolts. Refer to **Shock Absorber Replacement** .

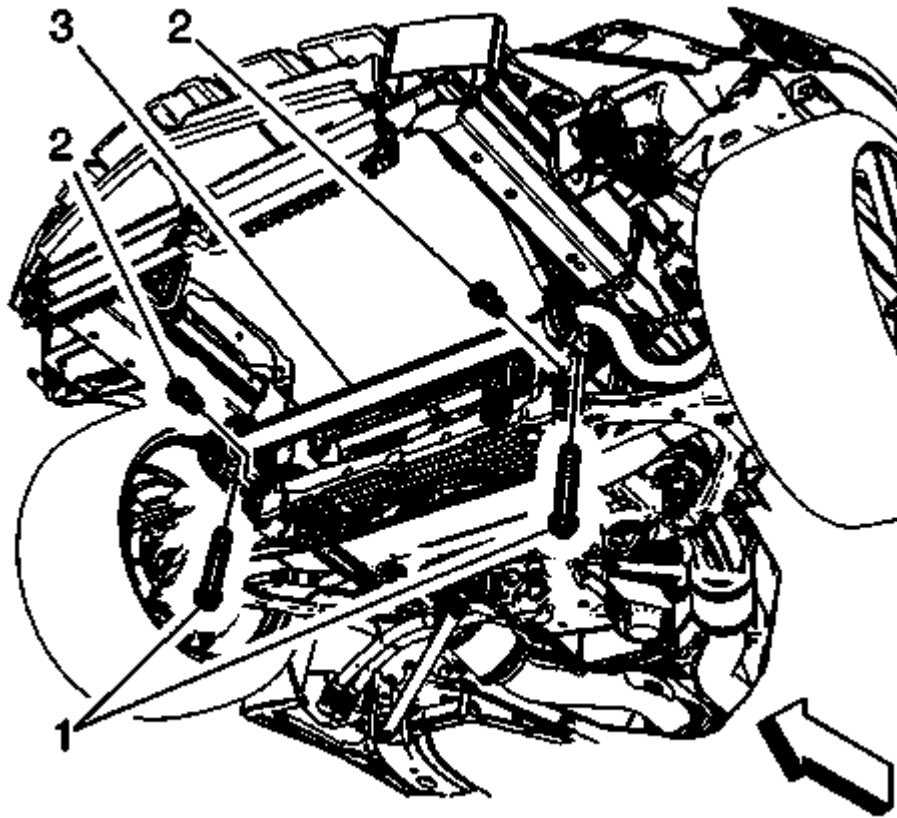


Fig. 21: Front Stabilizer Bracket Mounting Fasteners
Courtesy of GENERAL MOTORS COMPANY

14. Remove the front stabilizer bracket mounting fasteners (2) and the bracket to frame fasteners (1).
15. Support the front stabilizer bar (3) to the engine with mechanic wire.

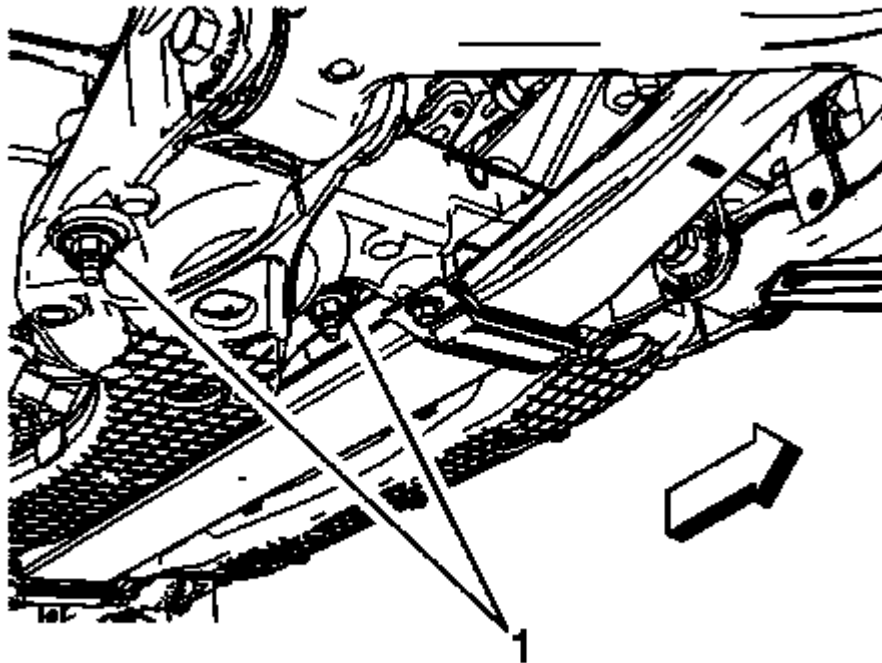


Fig. 22: Left Lower Engine Mounting Nuts
Courtesy of GENERAL MOTORS COMPANY

16. Remove the left lower engine mounting nuts (1).

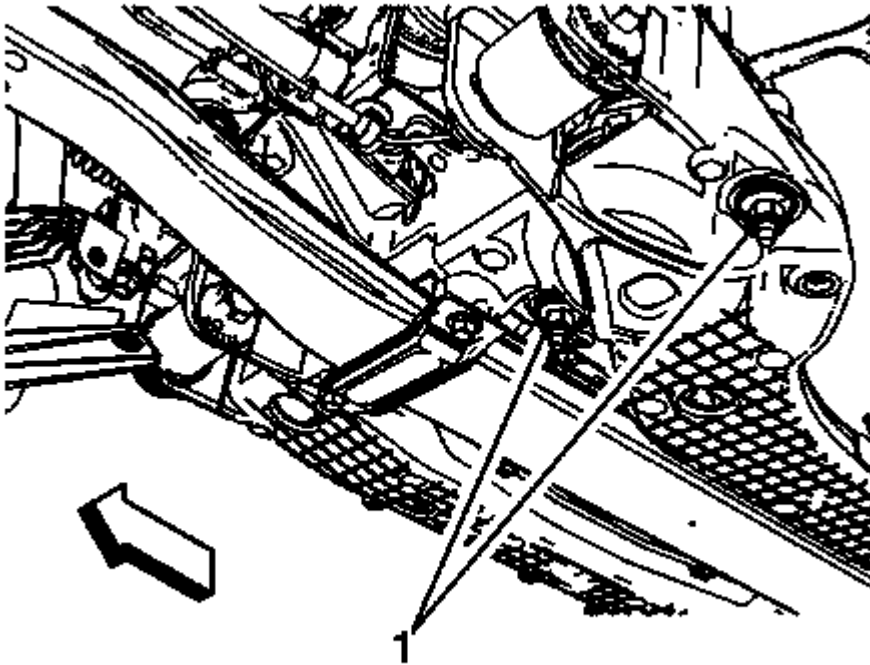


Fig. 23: Lower Engine Mounting Nuts
Courtesy of GENERAL MOTORS COMPANY

17. Remove the right lower engine mounting nuts (1).

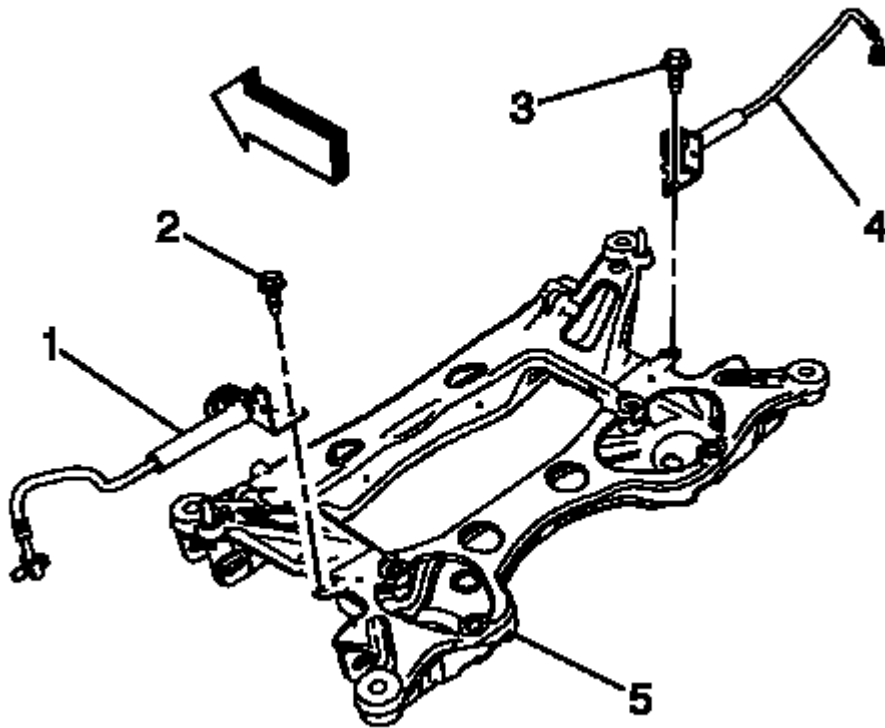


Fig. 24: Left Front Brake Hose Mounting Bracket Fastener
Courtesy of GENERAL MOTORS COMPANY

18. Remove the left front brake hose mounting bracket fastener (2) and set aside the left front brake hose (1).
19. Remove the right front brake hose mounting bracket fastener (3) and set aside the right front brake hose (4).

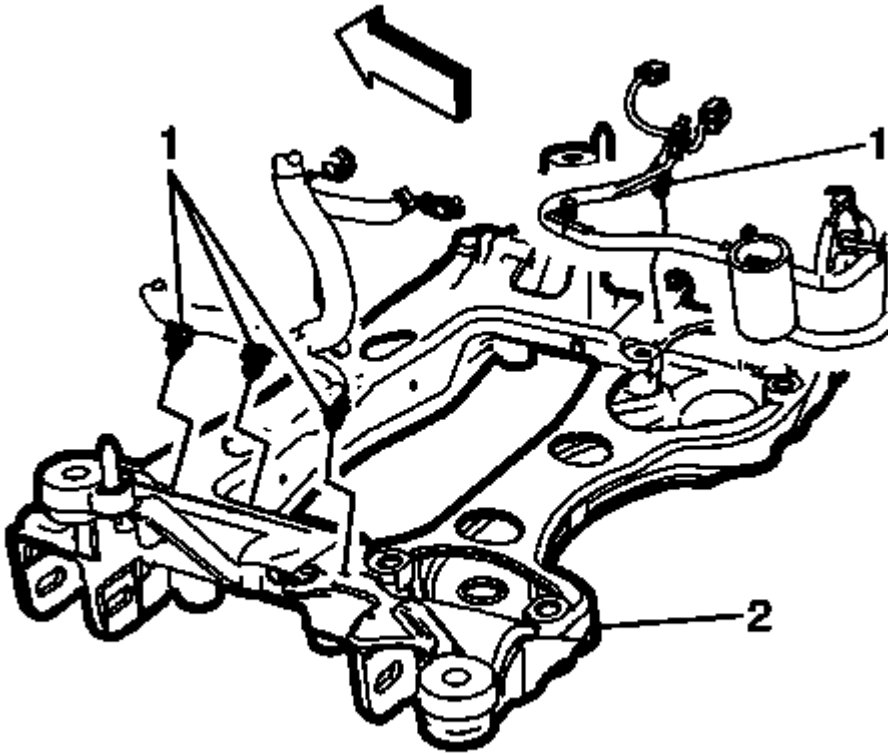


Fig. 25: Engine Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

20. Remove the engine harness retainers (1) from the front cradle assembly (2).

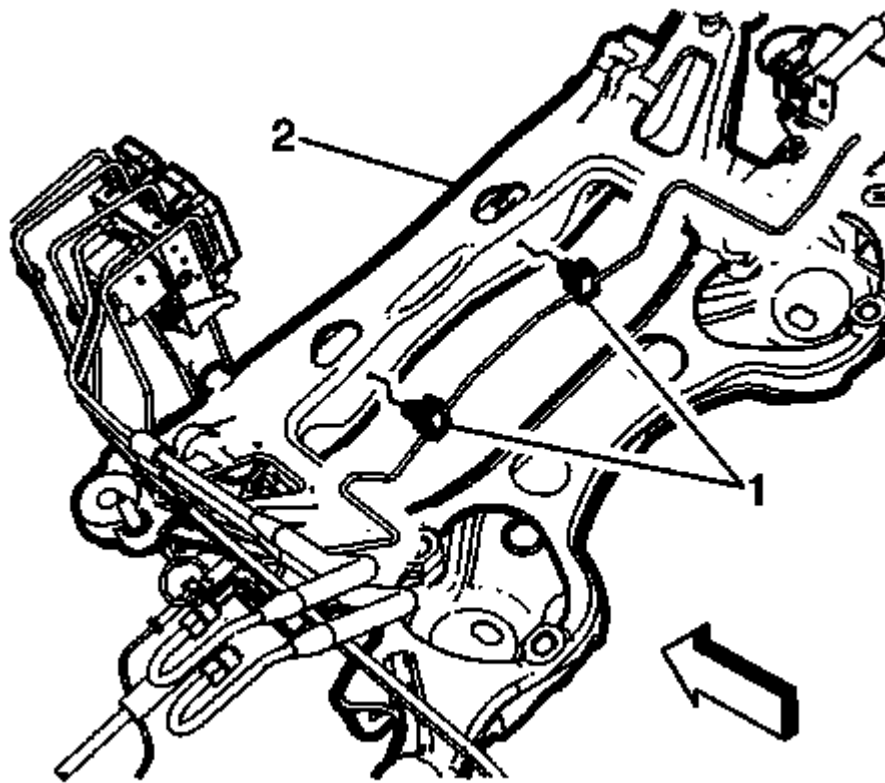


Fig. 26: Brake Pipe Retainers And Front Cradle
Courtesy of GENERAL MOTORS COMPANY

21. Remove the brake pipe retainers (1) from the front cradle (2).
22. Support the front cradle (2) with a suitable jack.

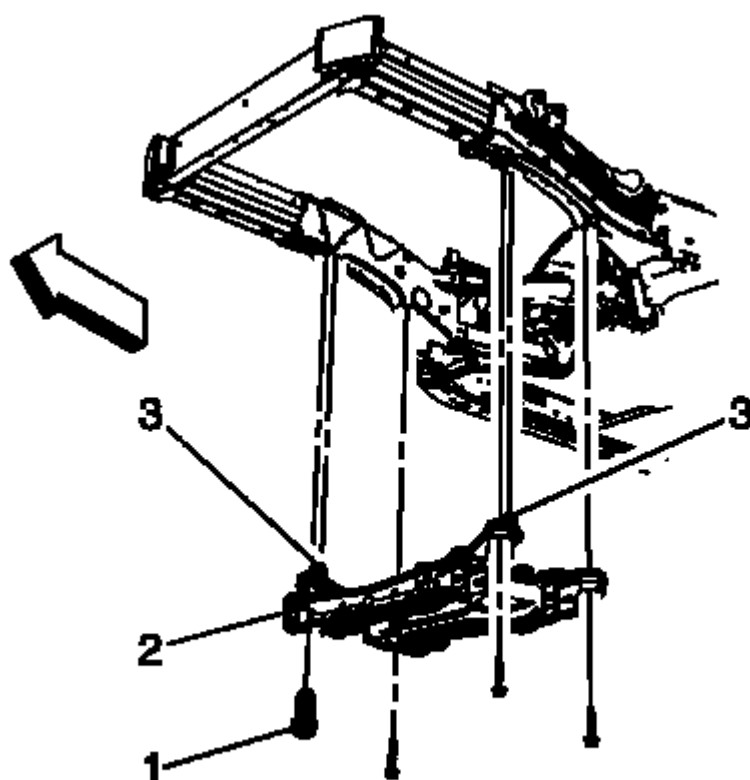


Fig. 27: Front Cradle Mounting Fasteners
Courtesy of GENERAL MOTORS COMPANY

23. Remove the front cradle mounting fasteners (1) and lower the front cradle (2) from the engine compartment.

Installation Procedure

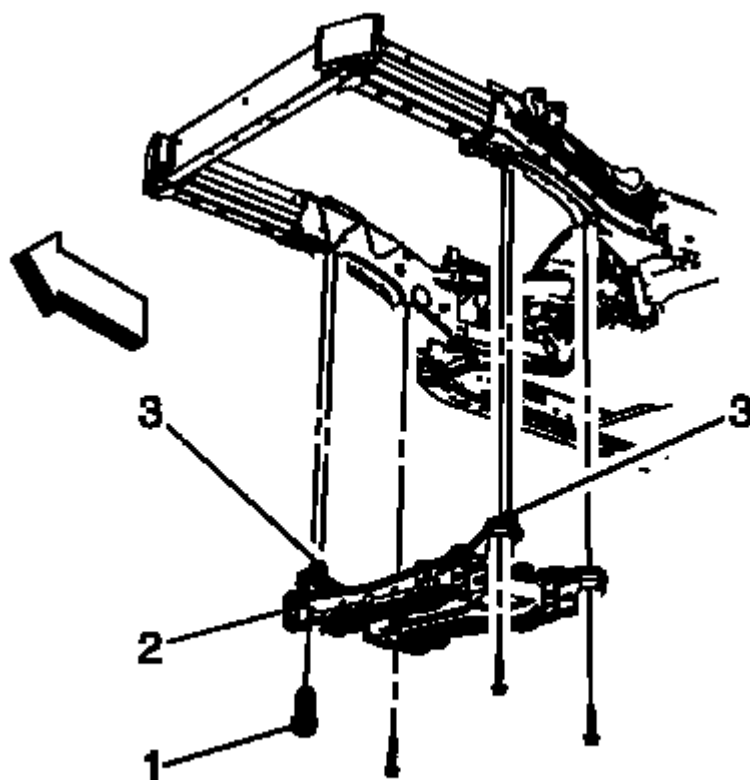


Fig. 28: Front Cradle Mounting Fasteners
Courtesy of GENERAL MOTORS COMPANY

1. Raise the front cradle (2) to the vehicle.
 1. Align the crossmember dowel pins (3) to the frame rails.

CAUTION: Refer to Fastener Caution .

2. Install the front cradle mounting fasteners (1) and tighten to 160 (118 lb ft).

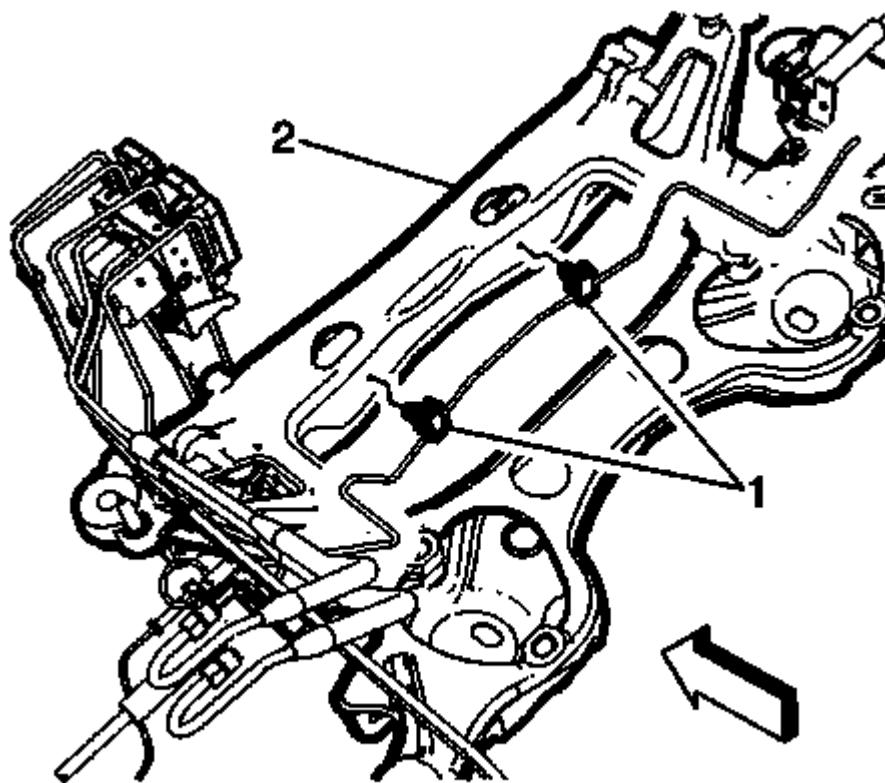


Fig. 29: Brake Pipe Retainers And Front Cradle
Courtesy of GENERAL MOTORS COMPANY

3. Install the brake pipe retainers (1) to the front cradle (2).

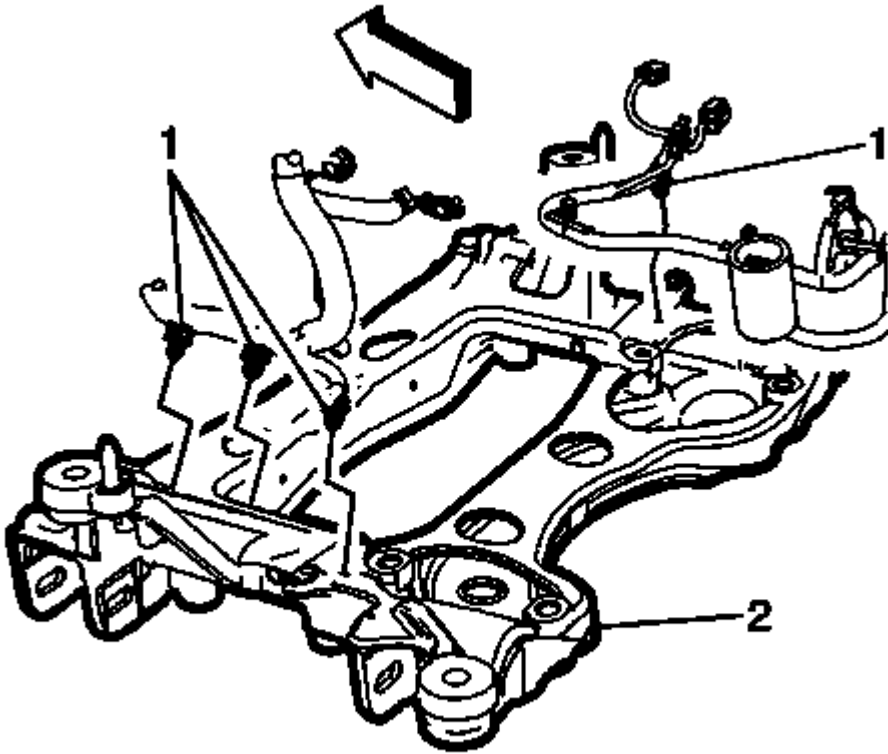


Fig. 30: Engine Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

4. Install the engine harness retainers (1) to the front cradle (2).

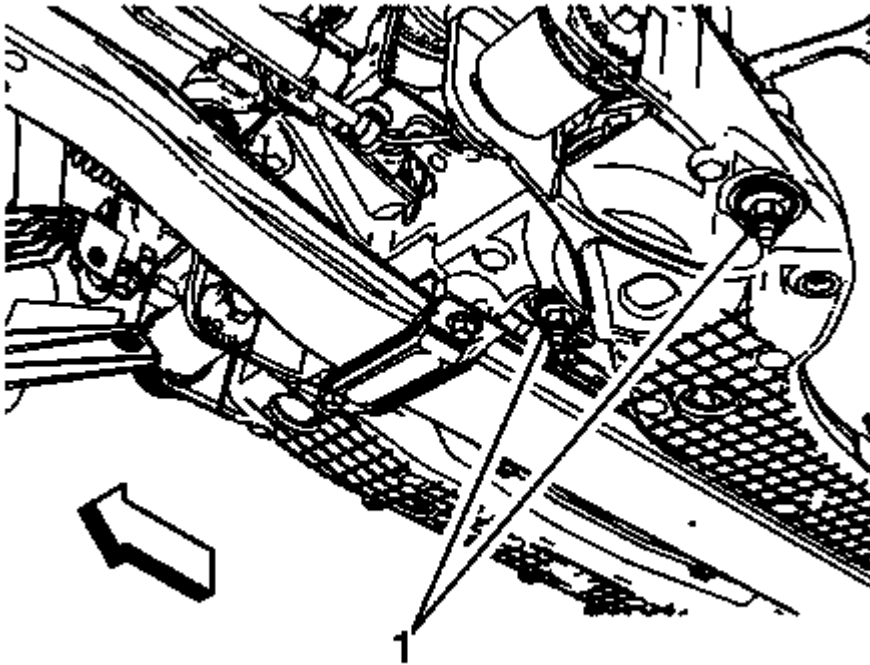


Fig. 31: Lower Engine Mounting Nuts
Courtesy of GENERAL MOTORS COMPANY

5. Install the lower right engine mount-to-front suspension crossmember fasteners (1) and tighten to 43 (32 lb ft).

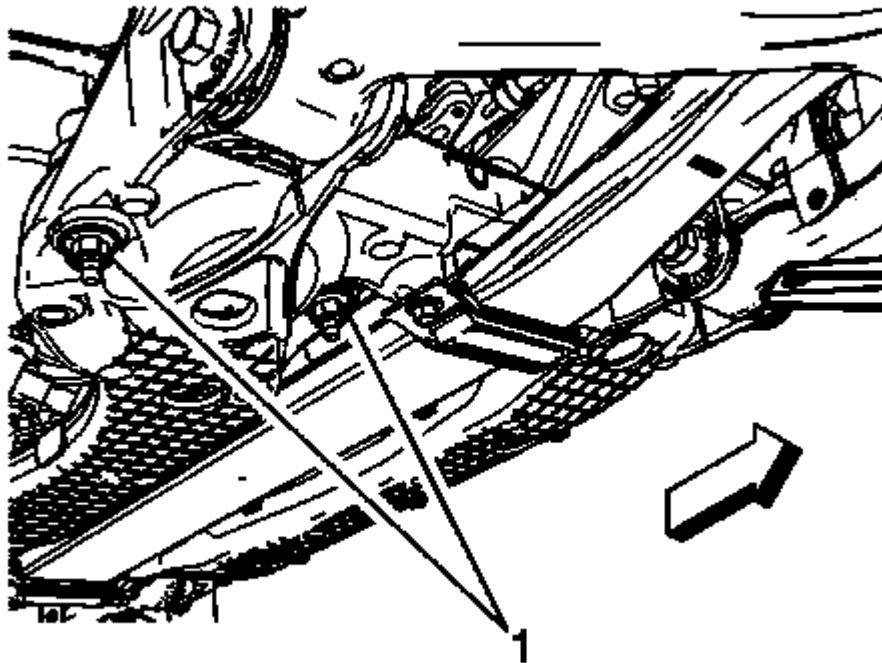


Fig. 32: Left Lower Engine Mounting Nuts
Courtesy of GENERAL MOTORS COMPANY

6. Install the left engine mount-to-front suspension crossmember fasteners (1) and tighten to 43 (32 lb ft).

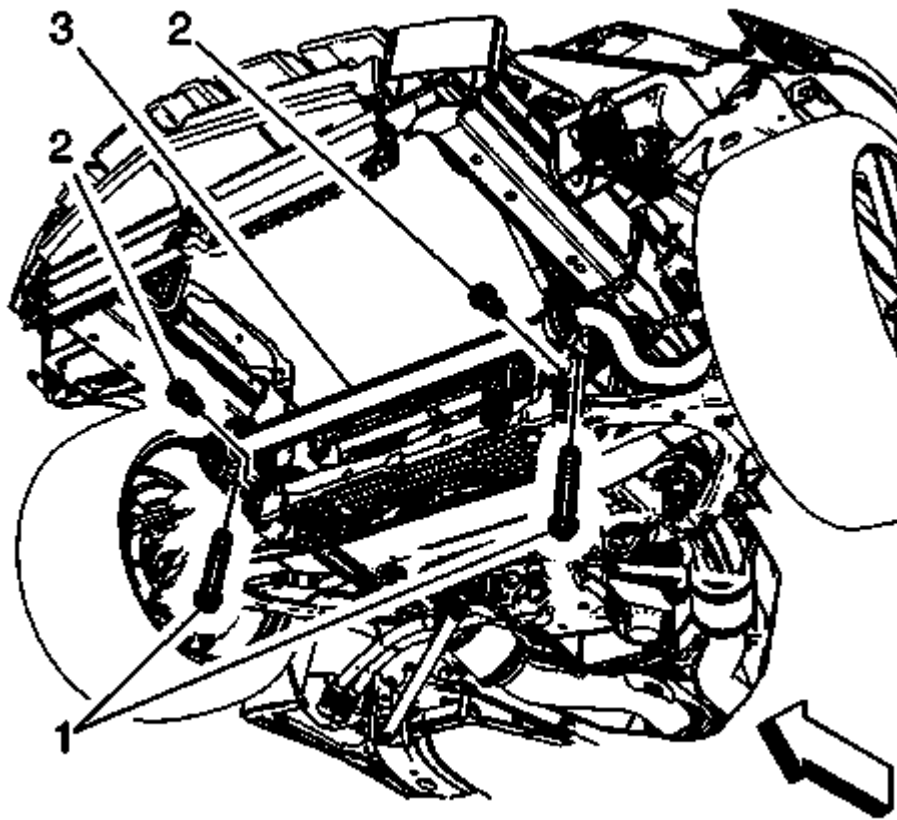


Fig. 33: Front Stabilizer Bracket Mounting Fasteners
Courtesy of GENERAL MOTORS COMPANY

7. Install the front stabilizer bar (3) to the front cradle and tighten the fasteners (2) to 58 (43 lb ft).
8. Install the bracket to frame fasteners (1) and tighten to 160 (118 lb ft).

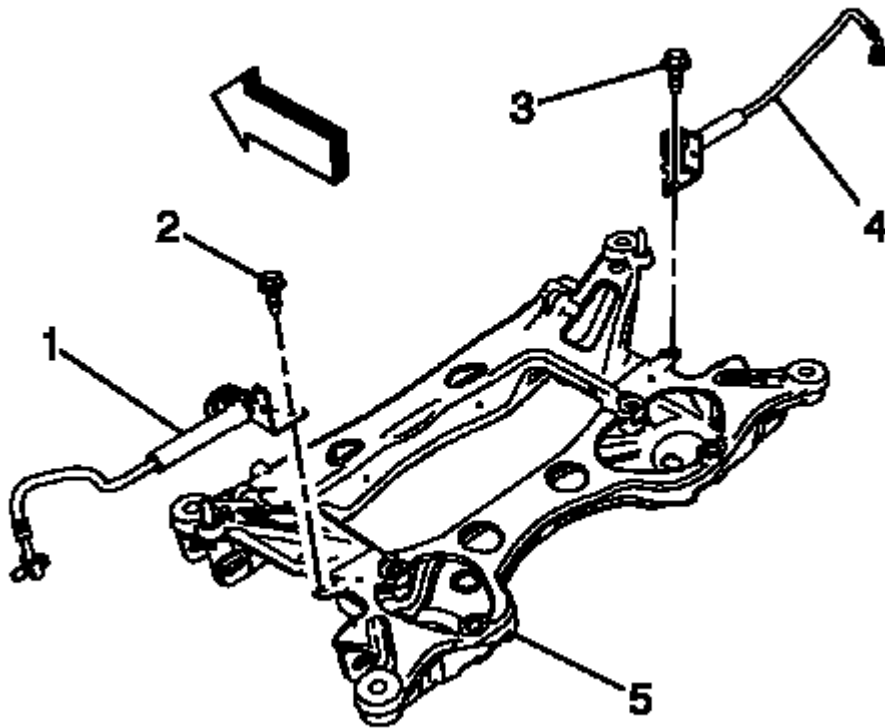


Fig. 34: Left Front Brake Hose Mounting Bracket Fastener
Courtesy of GENERAL MOTORS COMPANY

9. Install the left front brake hose (1) and bracket to the front cradle. Tighten the fastener (2) to 9 (80 lb in).
10. Install the right front brake hose (4) and bracket to the front cradle. Tighten the fastener (3) to 9 (80 lb in)

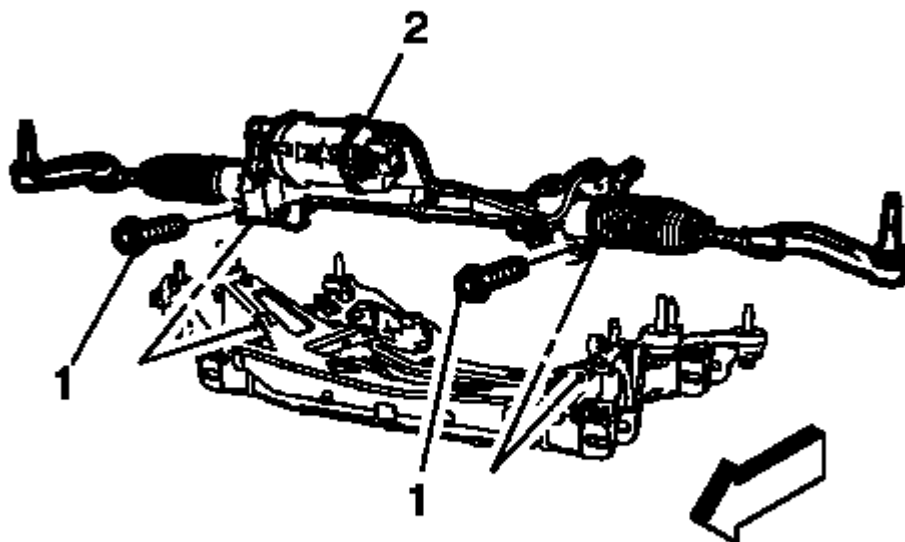


Fig. 35: Power Steering Gear Mounting Fasteners
Courtesy of GENERAL MOTORS COMPANY

11. Install the power steering gear (2) to the front cradle and tighten the fasteners (1) to 125 (92 lb ft).

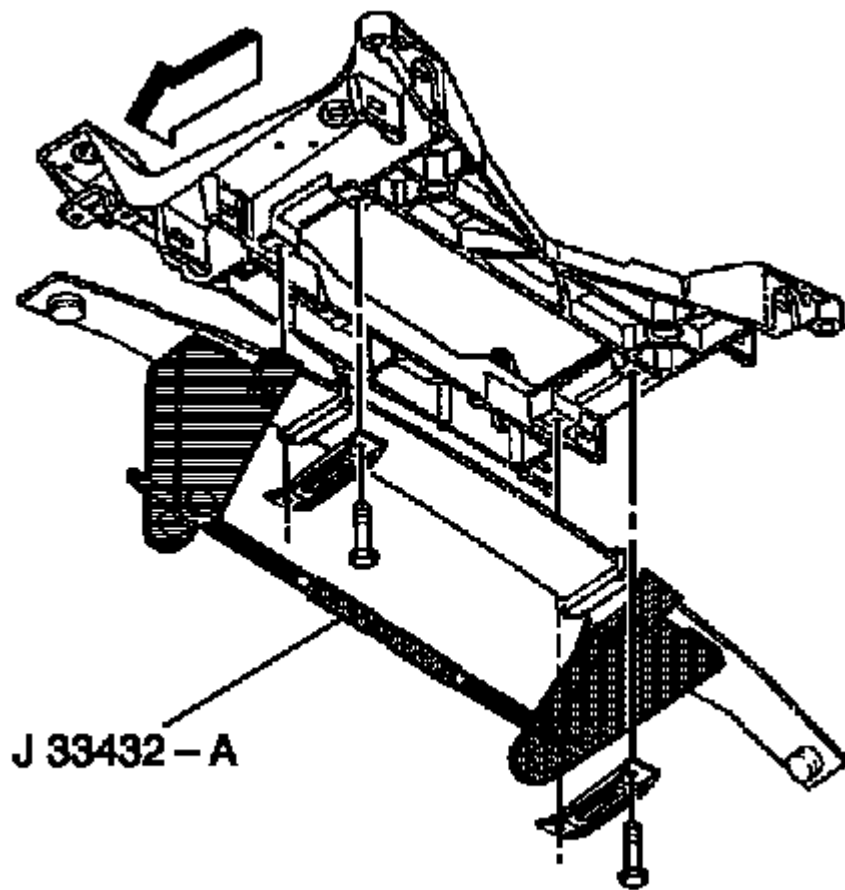


Fig. 36: Removing/Installing Transverse Spring Using J 33432-A
Courtesy of GENERAL MOTORS COMPANY

12. Install the front spring with the **J 33432-A** transverse spring compressor connected, to the front cradle. Refer to **Front Spring Replacement** .

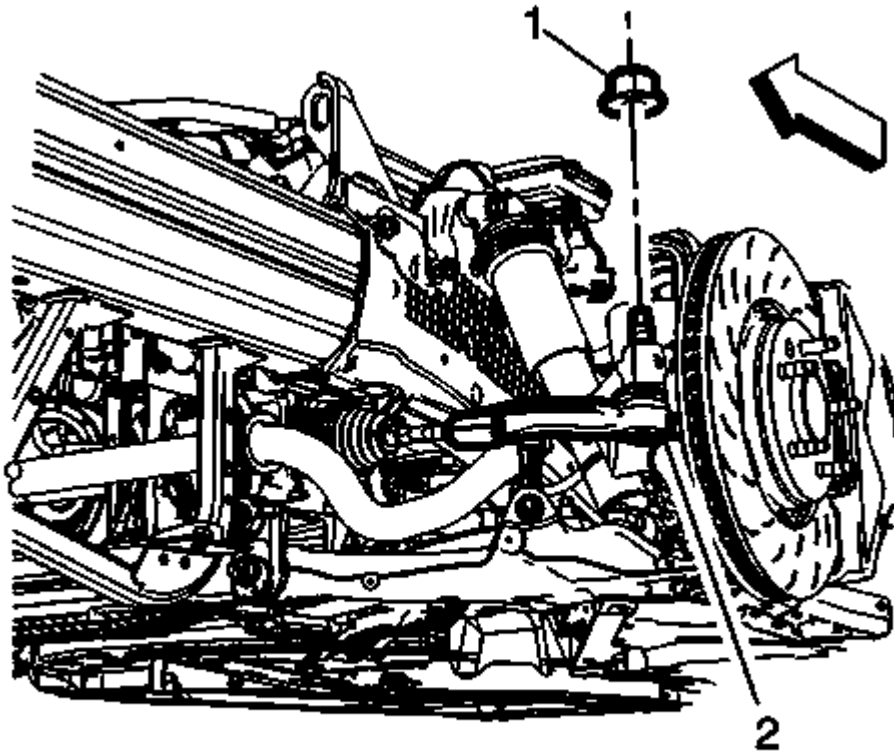


Fig. 37: Steering Linkage Outer Tie Rod End Stud Nuts
Courtesy of GENERAL MOTORS COMPANY

13. Install the steering linkage outer tie rod ends (2) to the steering knuckles. Refer to **Steering Linkage Outer Tie Rod Replacement** .
14. Install the fasteners to the BPMV bracket. Refer to **Brake Pressure Modulator Valve Bracket Replacement** .
15. Connect the intermediate shaft to the steering gear. Refer to **Intermediate Steering Shaft Replacement** .
16. Install the tire and wheel assemblies. Refer to **Tire and Wheel Removal and Installation** .
17. Lower the vehicle.
18. Remove the engine support fixture.
19. Install the generator. Refer to **Generator Replacement (LT1)** .
20. Connect the negative battery cable. Refer to **Battery Negative Cable Disconnection and Connection** .

FRONT WHEELHOUSE LINER REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
2. Remove the front wheel. Refer to Tire and Wheel Removal and Installation .

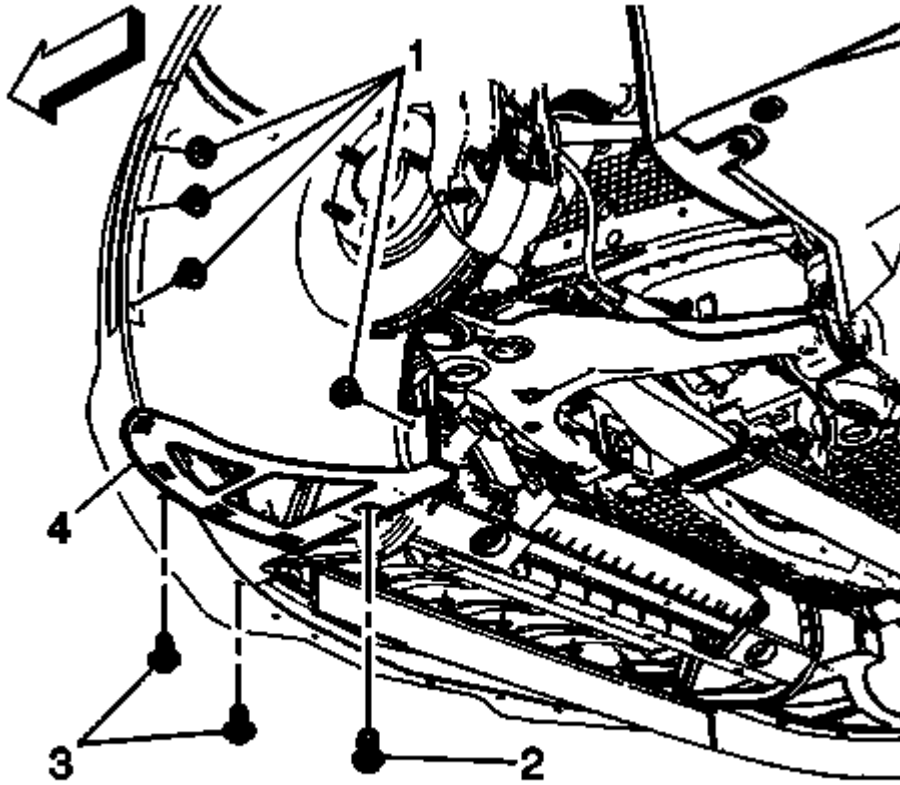


Fig. 38: Front Wheelhouse Liner Fasteners
Courtesy of GENERAL MOTORS COMPANY

3. Remove the front wheelhouse liner fasteners (1, 2, 3) from the front wheelhouse liner (4).

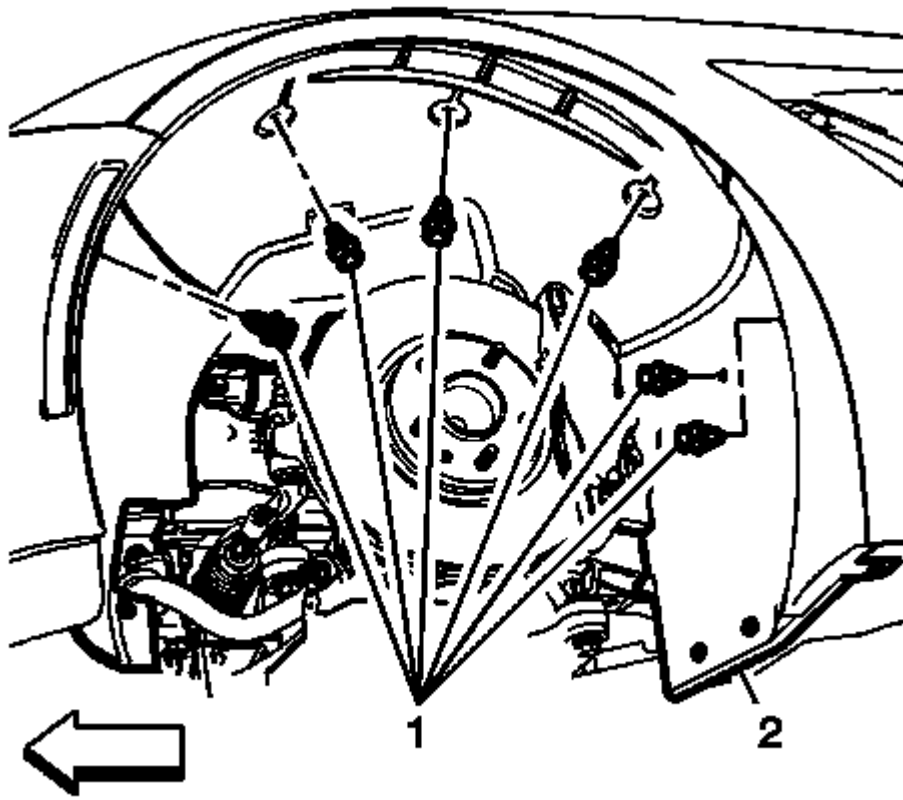


Fig. 39: Front Wheelhouse Liner Retainers
Courtesy of GENERAL MOTORS COMPANY

4. Remove the front wheelhouse liner retainers (1) from the front wheelhouse liner (2).

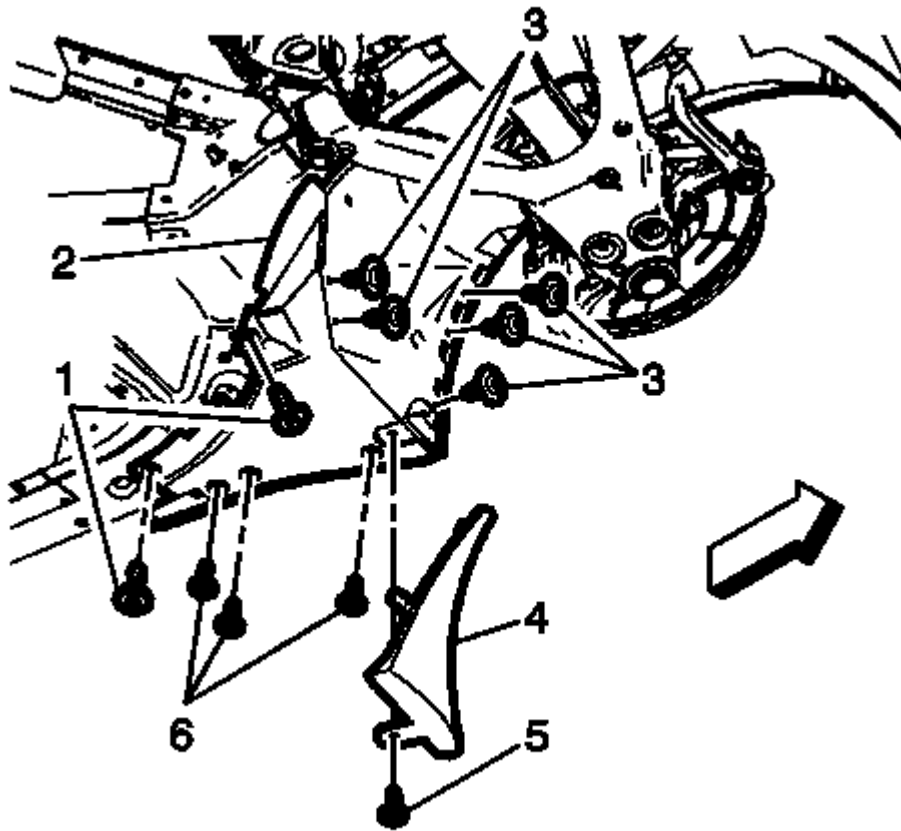


Fig. 40: Front Wheel Opening Rear Molding Fastener
Courtesy of GENERAL MOTORS COMPANY

5. Remove the front wheel opening rear molding fastener (5) and remove the front wheel opening rear molding (4). Refer to **Front Wheel Opening Rear Molding Replacement** .
6. Remove the front wheelhouse liner fasteners (3).
7. Remove the front wheelhouse liner fasteners (1).
8. Remove the front wheelhouse liner fasteners (6) and remove the front wheelhouse liner (2).

Installation Procedure

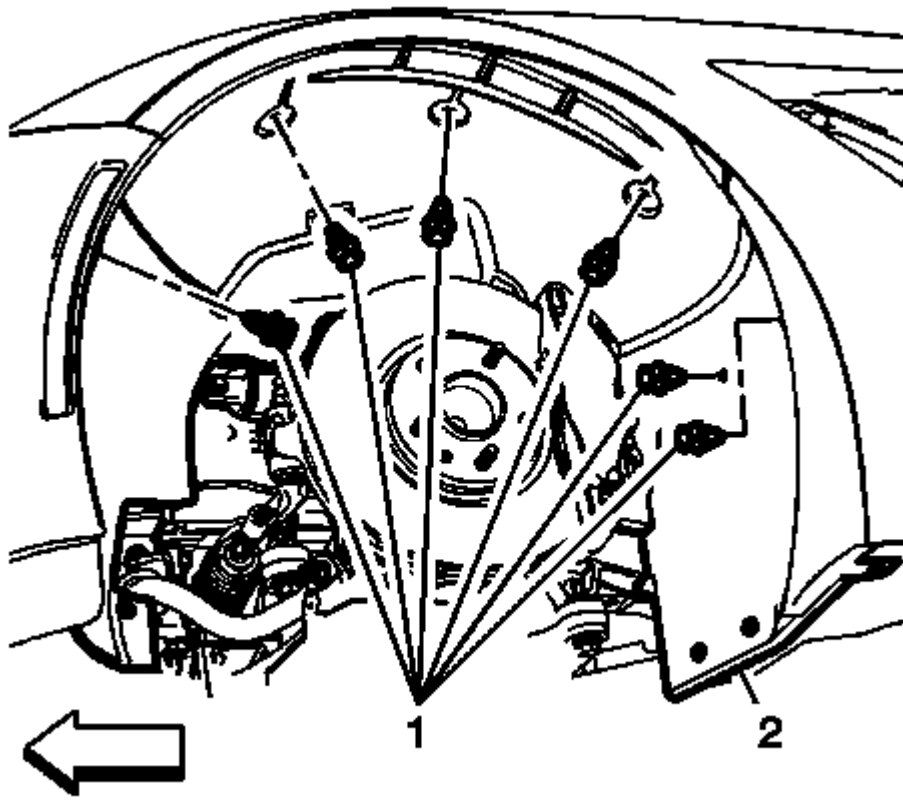


Fig. 41: Front Wheelhouse Liner Retainers
Courtesy of GENERAL MOTORS COMPANY

1. Install the front wheelhouse liner (2) into position with the retainers (1).

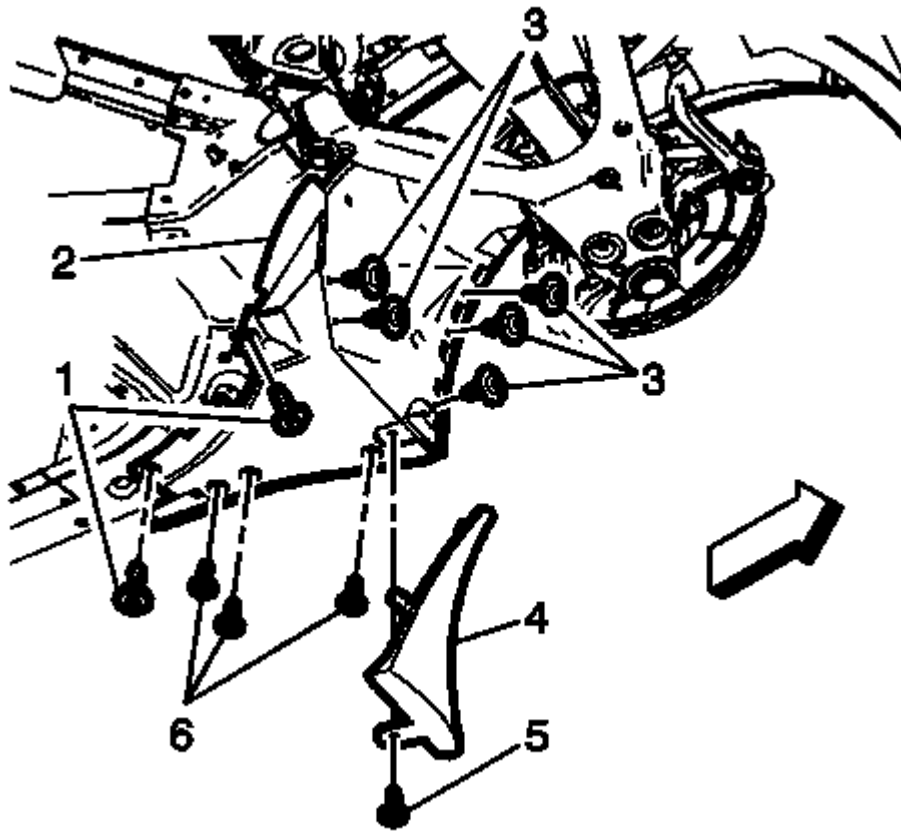


Fig. 42: Front Wheel Opening Rear Molding Fastener
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

2. Install the front wheelhouse liner fasteners (1) and tighten to 9 (80 lb in).
3. Install the front wheelhouse liner fasteners (3) and tighten to 2.5 (22 lb in).
4. Install the front wheelhouse liner fasteners (6) and tighten to 2.5 (22 lb in).
5. Install the front wheel opening rear molding (4) and tighten the fastener (5) to 9 (80 lb in).

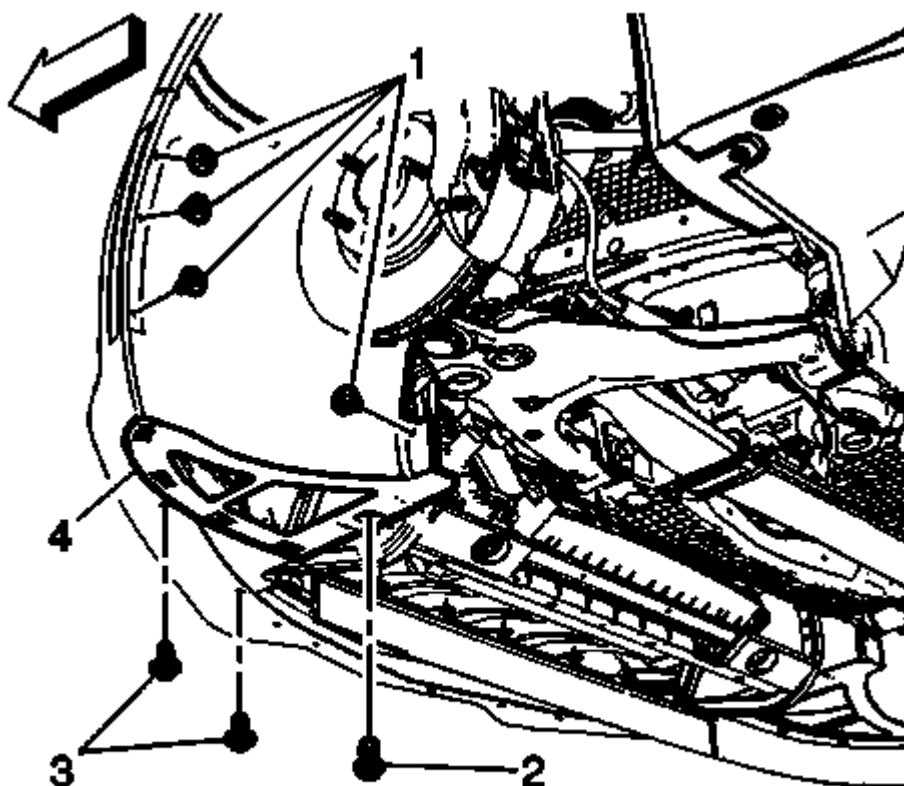


Fig. 43: Front Wheelhouse Liner Fasteners
Courtesy of GENERAL MOTORS COMPANY

6. Install the front wheelhouse liner fasteners (1) and tighten to 2.5 (22 lb in).
7. Install the front wheelhouse fastener (2) and tighten to 4.5 (40 lb in).
8. Install the front wheelhouse liner fasteners (3) and tighten to 2.5 (22 lb in).
9. Install the front wheel. Refer to **Tire and Wheel Removal and Installation** .
10. Lower the vehicle.

REAR WHEELHOUSE LINER REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Remove the rear wheel. Refer to **Tire and Wheel Removal and Installation** .

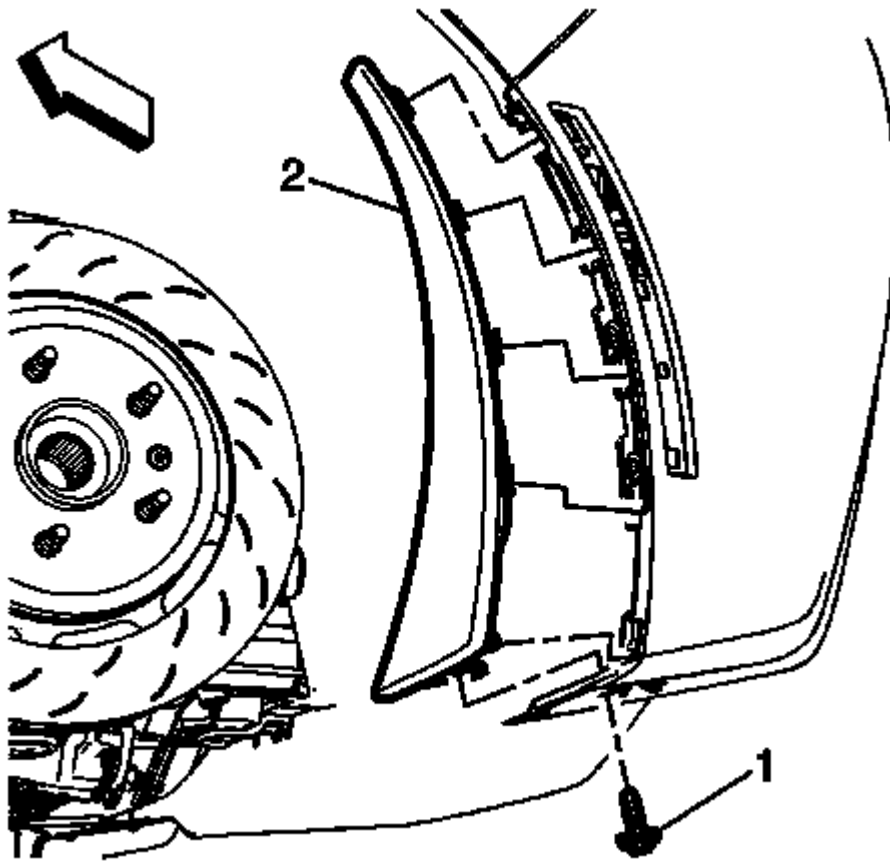


Fig. 44: Rear Wheelhouse Opening Rear Molding Fastener
Courtesy of GENERAL MOTORS COMPANY

3. Remove the rear wheelhouse opening rear molding fastener (1) and detach the rear wheelhouse opening rear molding (2), from the rear wheelhouse liner. Refer to **Rear Wheel Opening Rear Molding Replacement** .

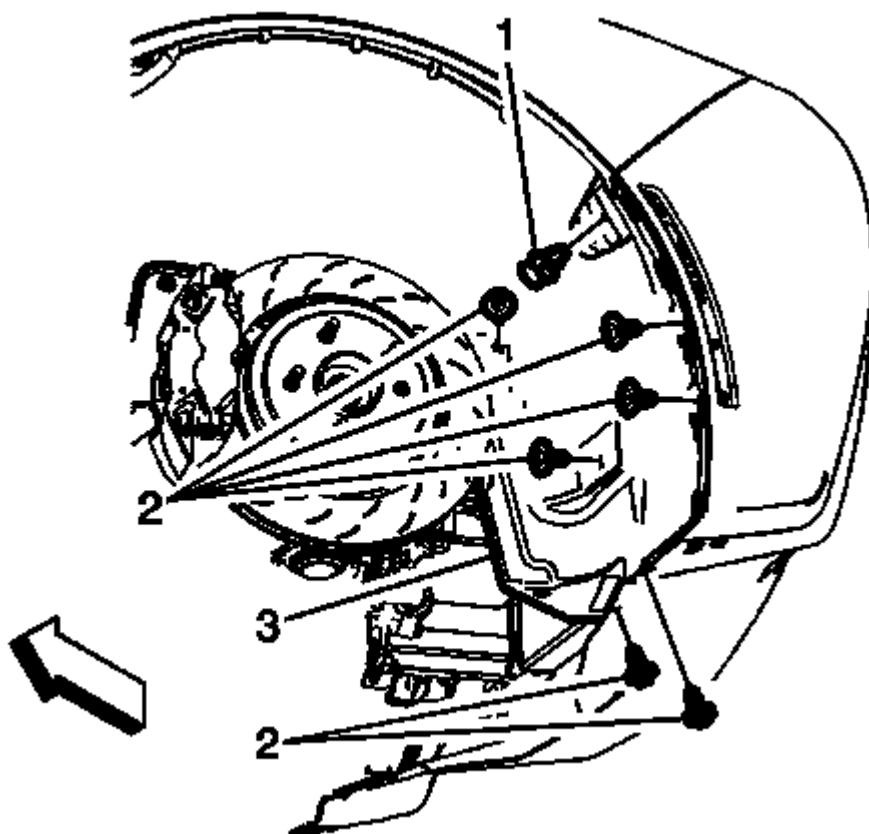


Fig. 45: Rear Wheelhouse Liner Retainer
Courtesy of GENERAL MOTORS COMPANY

4. Remove the rear wheelhouse liner retainer (1) and fasteners (2), from the rear wheelhouse liner (3).

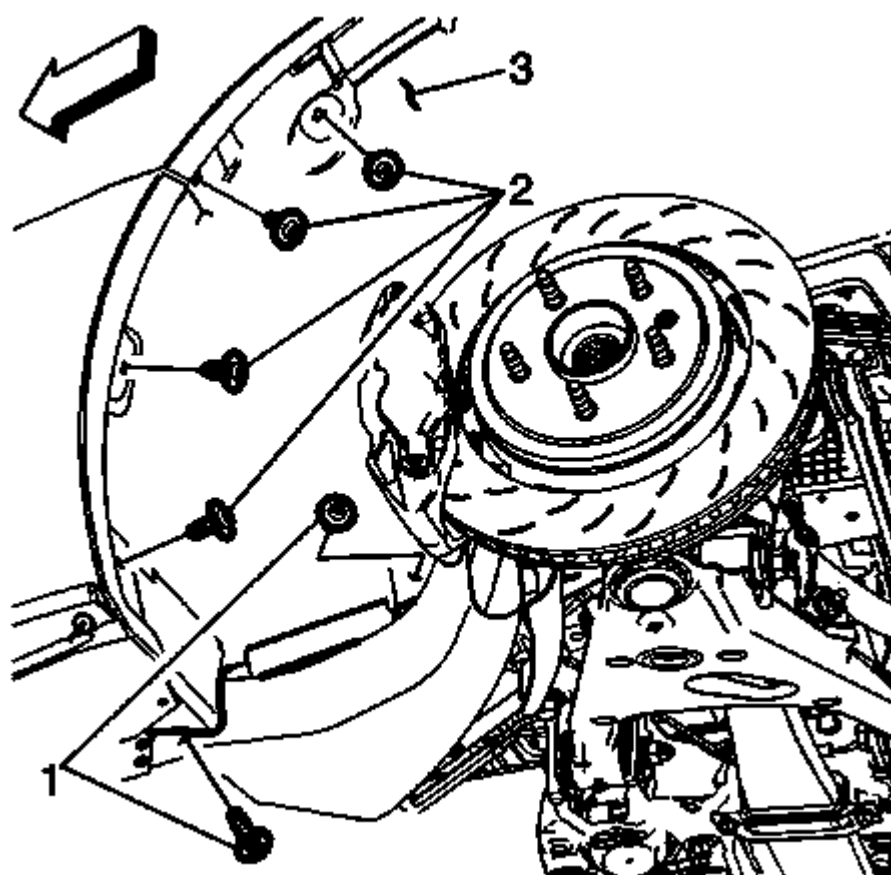


Fig. 46: Rear Wheelhouse Liner Fasteners
Courtesy of GENERAL MOTORS COMPANY

5. Remove the rear wheelhouse liner fasteners (1, 2) and remove the rear wheelhouse liner (3) from the vehicle.

Installation Procedure

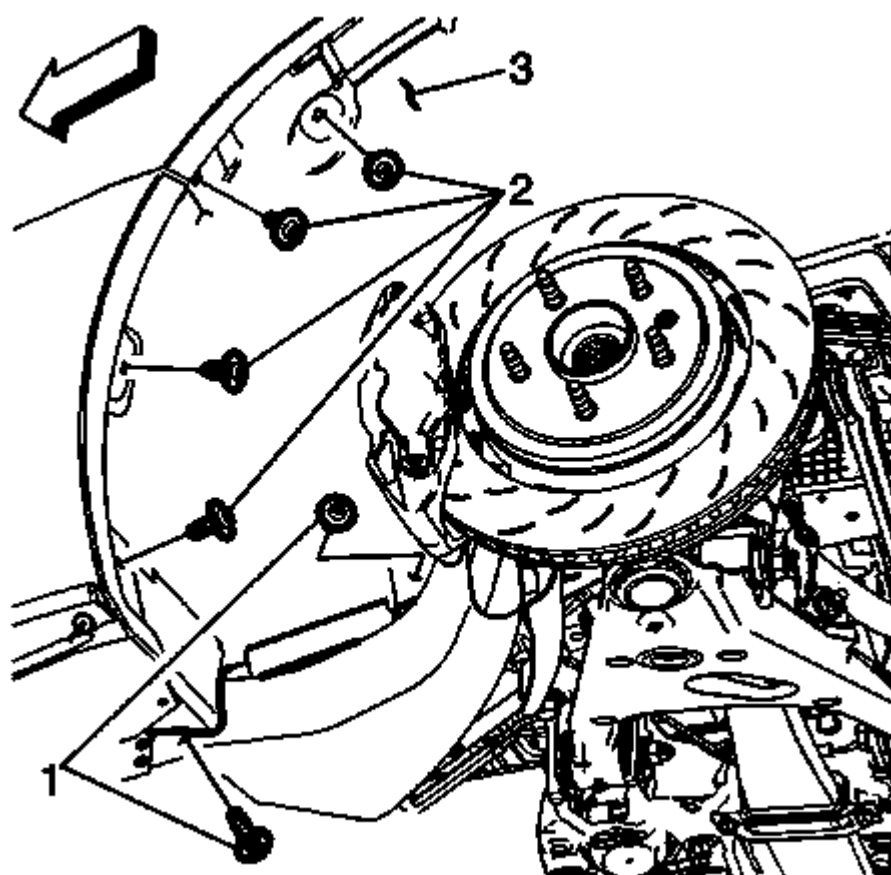


Fig. 47: Rear Wheelhouse Liner Fasteners
Courtesy of GENERAL MOTORS COMPANY

1. Install the rear wheelhouse liner (3) into position.

CAUTION: Refer to Fastener Caution .

2. Install the rear wheelhouse liner fasteners (1) and tighten to 9 (80 lb in).
3. Install the rear wheelhouse liner fasteners (2) and tighten to 2.5 (22 lb in).

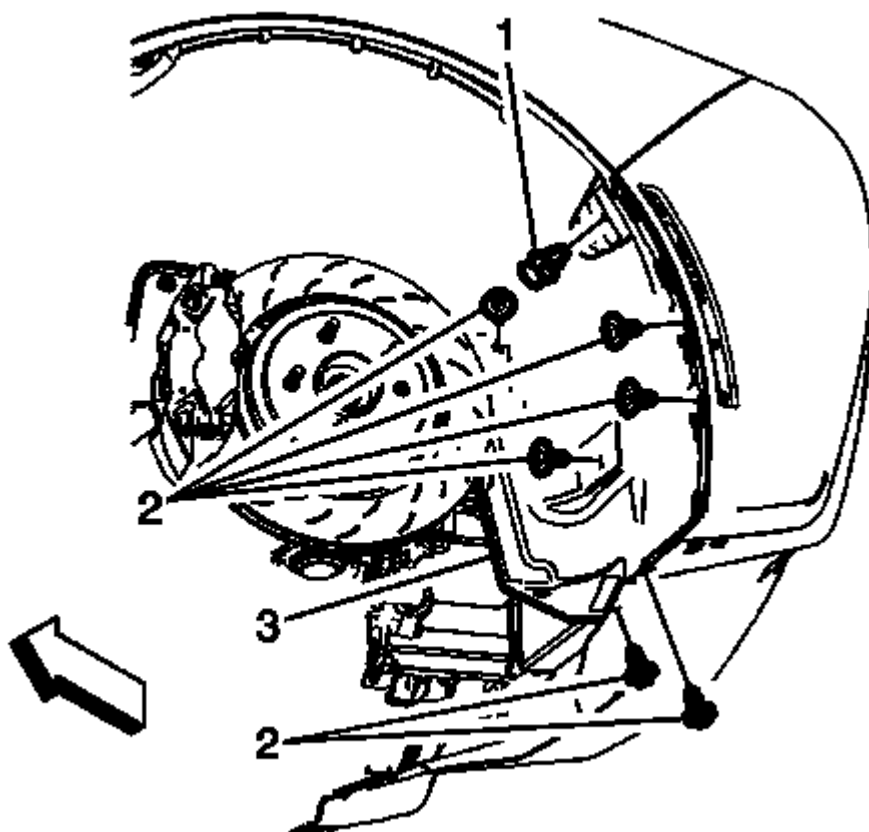


Fig. 48: Rear Wheelhouse Liner Retainer
Courtesy of GENERAL MOTORS COMPANY

4. Install the rear wheelhouse liner retainer (1) and tighten the fasteners (2) to 2.5 (22 lb in).

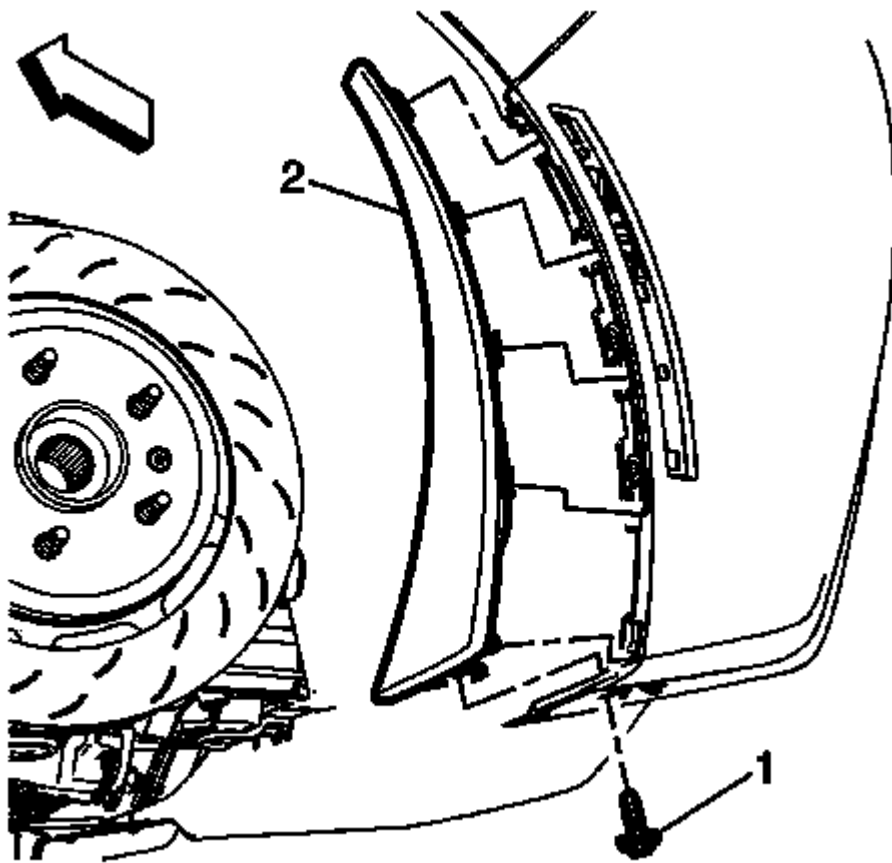


Fig. 49: Rear Wheelhouse Opening Rear Molding Fastener
Courtesy of GENERAL MOTORS COMPANY

5. Install the rear wheelhouse opening rear molding (2) and tighten the fastener (1) to 2.5 (22 lb in).
6. Install the rear wheel. Refer to **Tire and Wheel Removal and Installation** .
7. Lower the vehicle.

FRONT BRAKE ROTOR COOLING DUCT REPLACEMENT

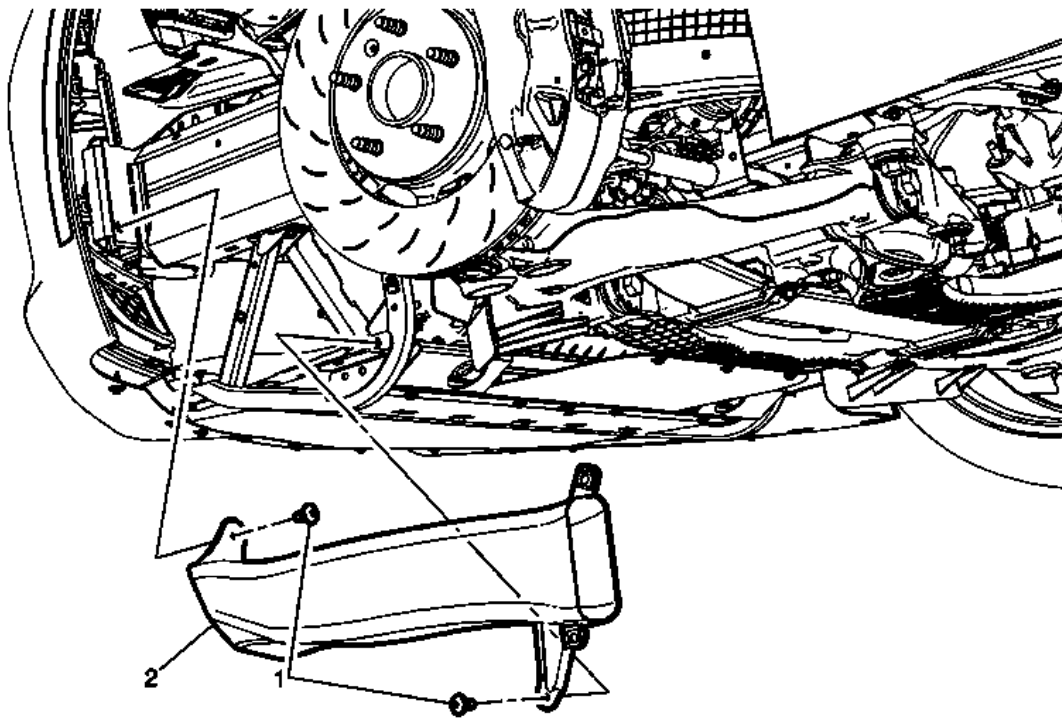


Fig. 50: Front Brake Rotor Cooling Duct
 Courtesy of GENERAL MOTORS COMPANY

Front Brake Rotor Cooling Duct Replacement

Callout	Component Name
Preliminary Procedure 1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle . 2. Remove the front wheelhouse liner. Refer to Front Wheelhouse Liner Replacement.	
1	Front Brake Cooling Duct Fasteners (Qty: 2) CAUTION: Refer to Fastener Caution . Tighten 9 (80 lb in)
2	Front Brake Cooling Duct

FRONT BRAKE CALIPER COOLING DUCT DEFLECTOR REPLACEMENT

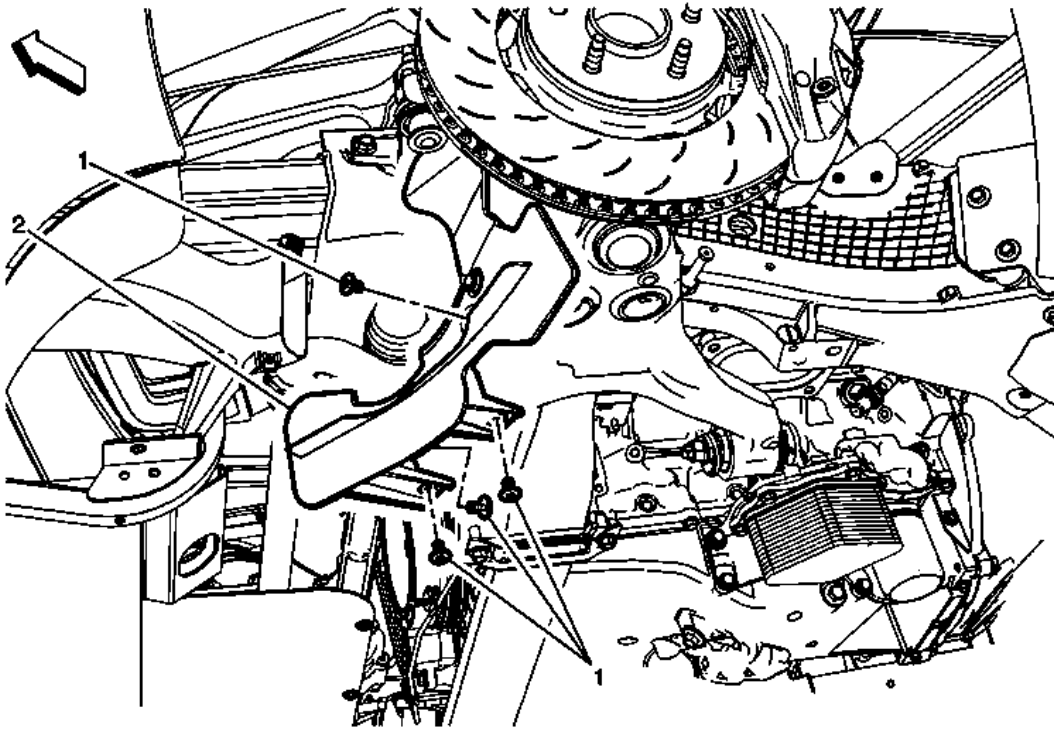


Fig. 51: Front Brake Caliper Cooling Duct Deflector
Courtesy of GENERAL MOTORS COMPANY

Front Brake Caliper Cooling Duct Deflector Replacement

Callout	Component Name
Preliminary Procedure	
1. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> . 2. Remove the front wheelhouse liner. Refer to <u>Front Wheelhouse Liner Replacement</u> .	
1	Front Brake Caliper Cooling Duct Deflector Fasteners (Qty: 4) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 4 (35 lb in)
2	Front Brake Caliper Cooling Duct Deflector

REAR BRAKE CALIPER COOLING DUCT REPLACEMENT

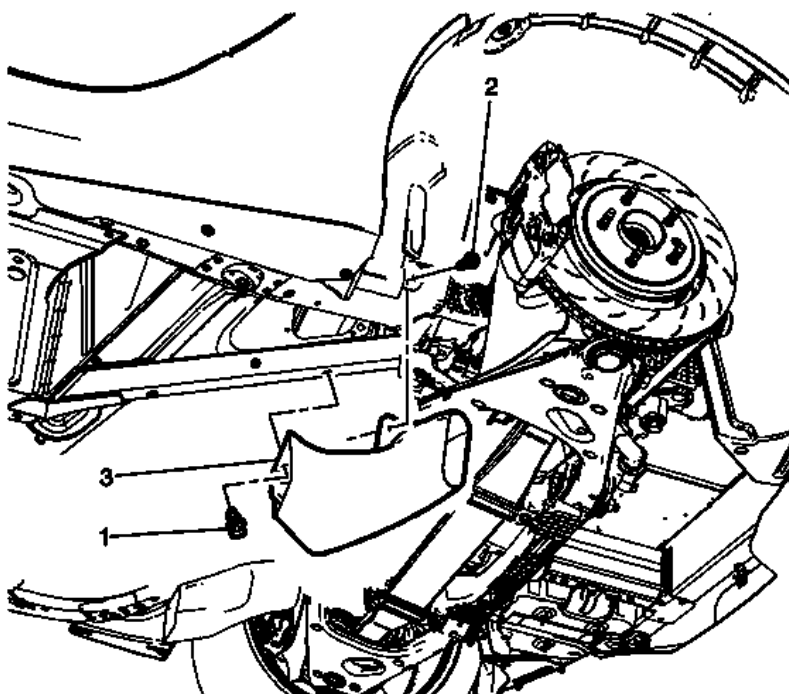


Fig. 52: Rear Brake Caliper Cooling Duct
Courtesy of GENERAL MOTORS COMPANY

Rear Brake Caliper Cooling Duct Replacement

Callout	Component Name
Preliminary Procedure	
Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .	
1	Rear Brake Cooling Duct Retainer
2	Rear Brake Cooling Duct Fastener CAUTION: Refer to Fastener Caution . Tighten 9 (80 lb in)
3	Rear Brake Cooling Duct

REAR BRAKE CALIPER COOLING DUCT DEFLECTOR REPLACEMENT

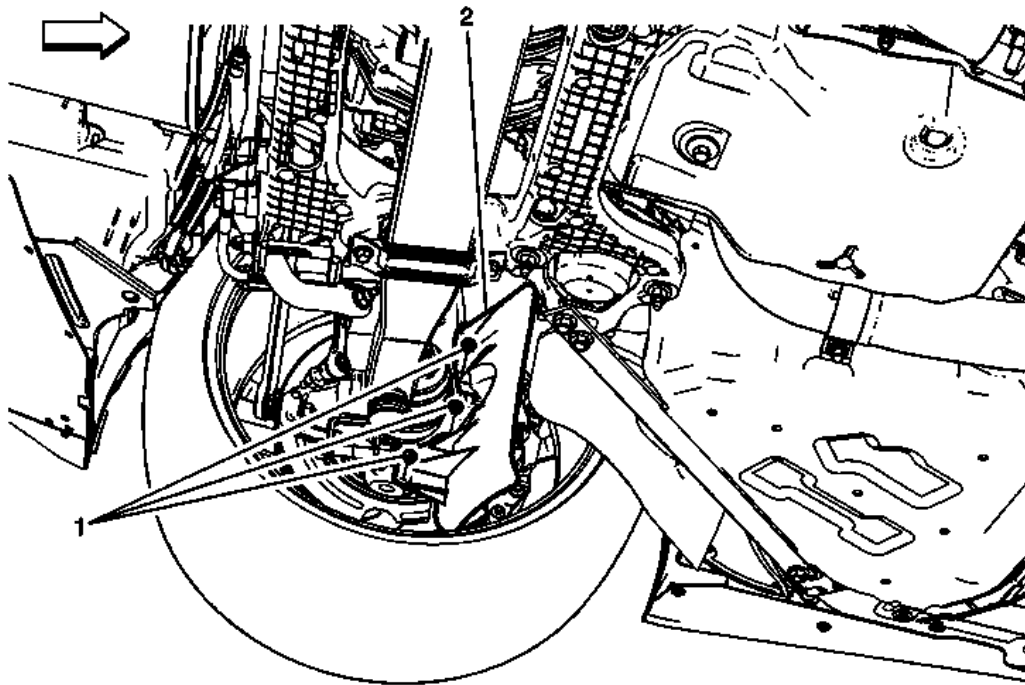


Fig. 53: Rear Brake Caliper Cooling Duct Deflector
Courtesy of GENERAL MOTORS COMPANY

Rear Brake Caliper Cooling Duct Deflector Replacement

Callout	Component Name
Preliminary Procedure Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .	
1	Rear Brake Caliper Cooling Duct Deflector (Qty: 3) CAUTION: Refer to Fastener Caution . Tighten 4 (35 lb in)
2	Rear Brake Caliper Cooling Duct Deflector

FLOOR PANEL TUNNEL PANEL REINFORCEMENT REPLACEMENT

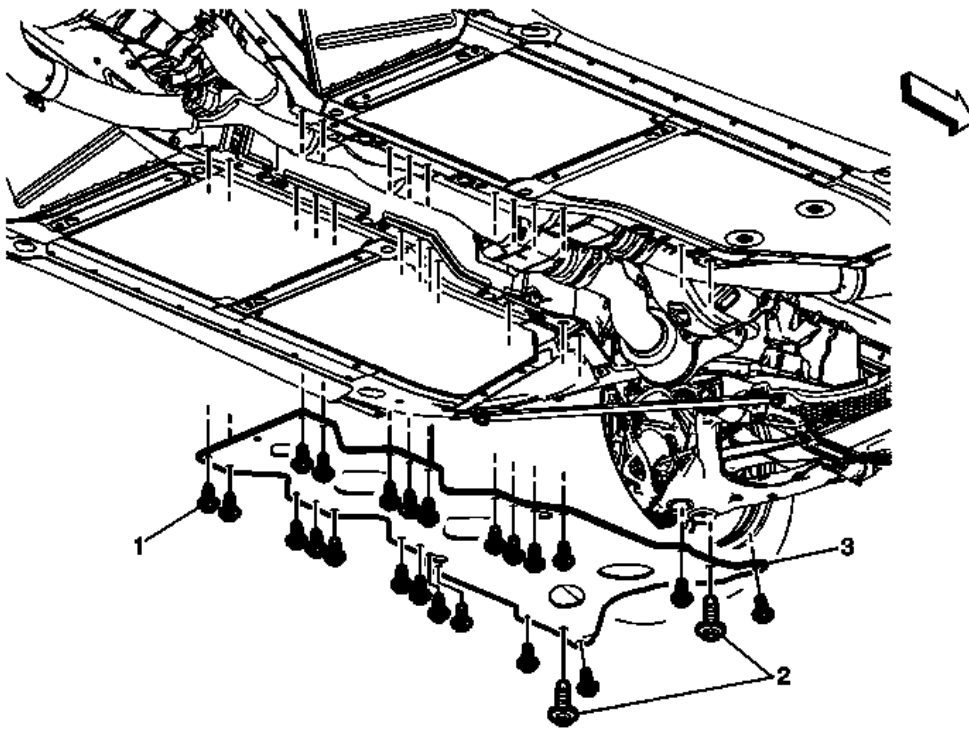


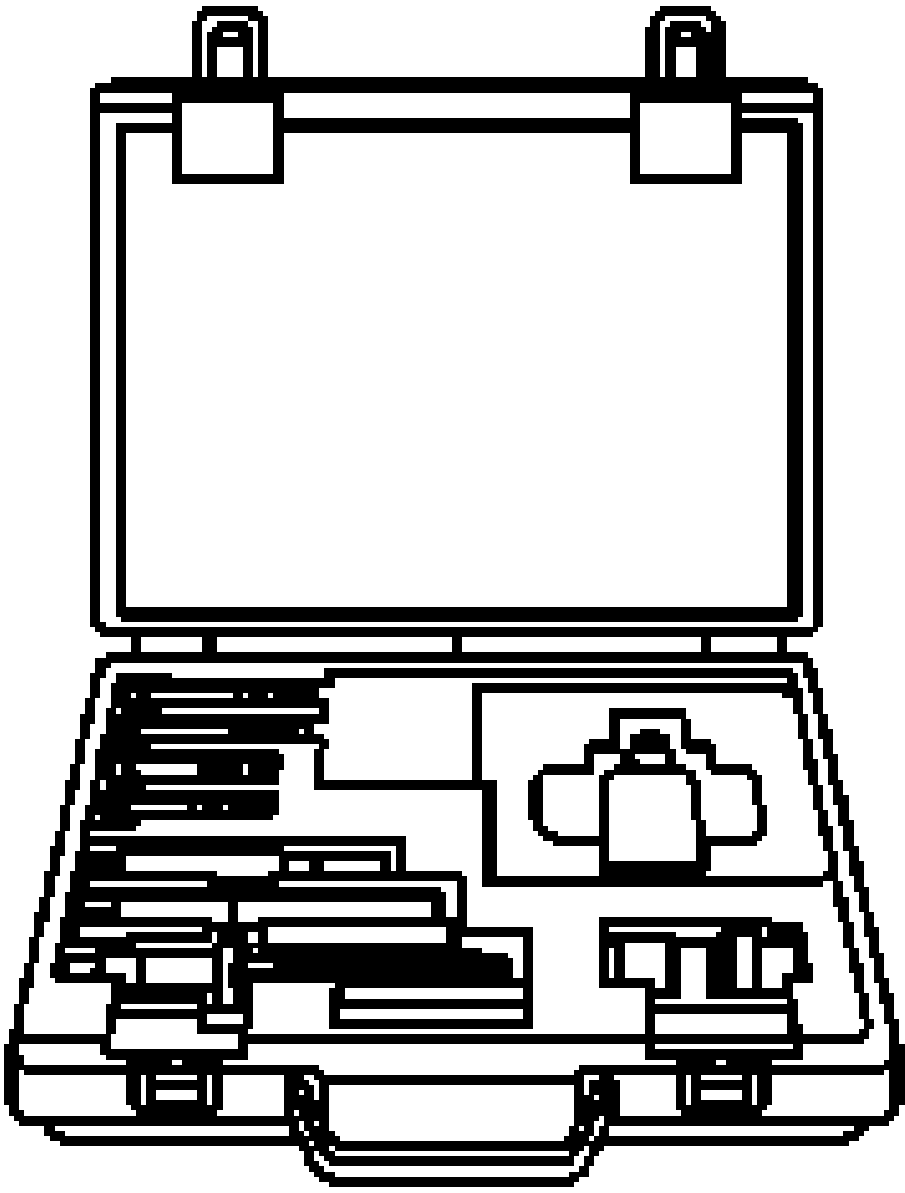
Fig. 54: Floor Panel Tunnel Panel Reinforcement
 Courtesy of GENERAL MOTORS COMPANY

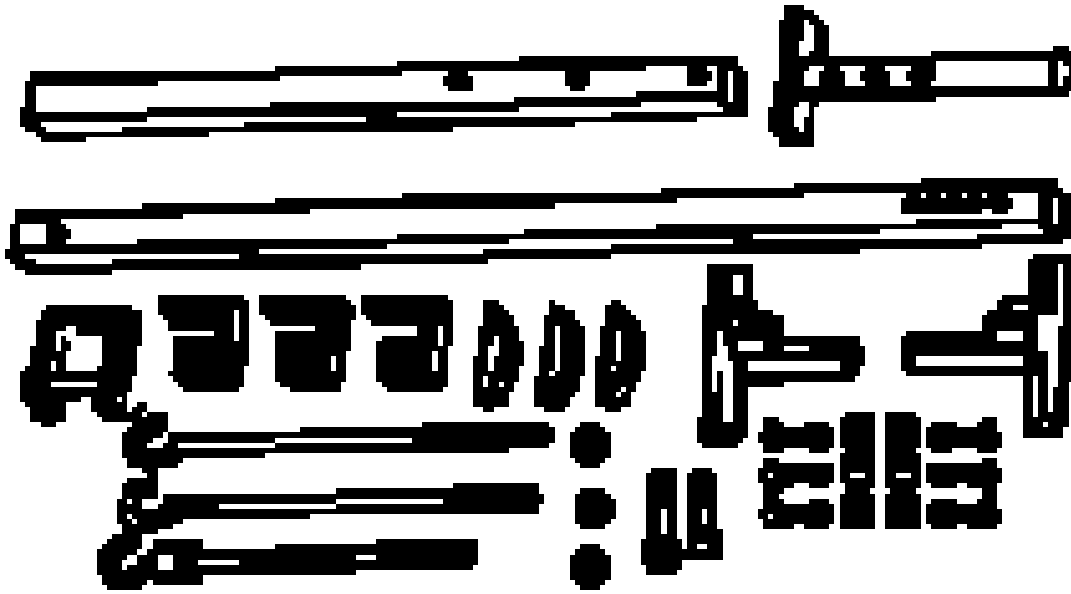
Floor Panel Tunnel Panel Reinforcement Replacement

Callout	Component Name
Preliminary Procedure Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
1	Floor Panel Tunnel Reinforcement Fasteners (Qty: 22) WARNING: Refer to <u>Hot Exhaust System Warning</u> . CAUTION: Refer to <u>Fastener Caution</u> . Tighten 27 (20 lb ft)
2	Floor Panel Tunnel Reinforcement Fasteners (Qty: 2) Tighten 100 (74 lb ft)
3	Floor Panel Tunnel Reinforcement

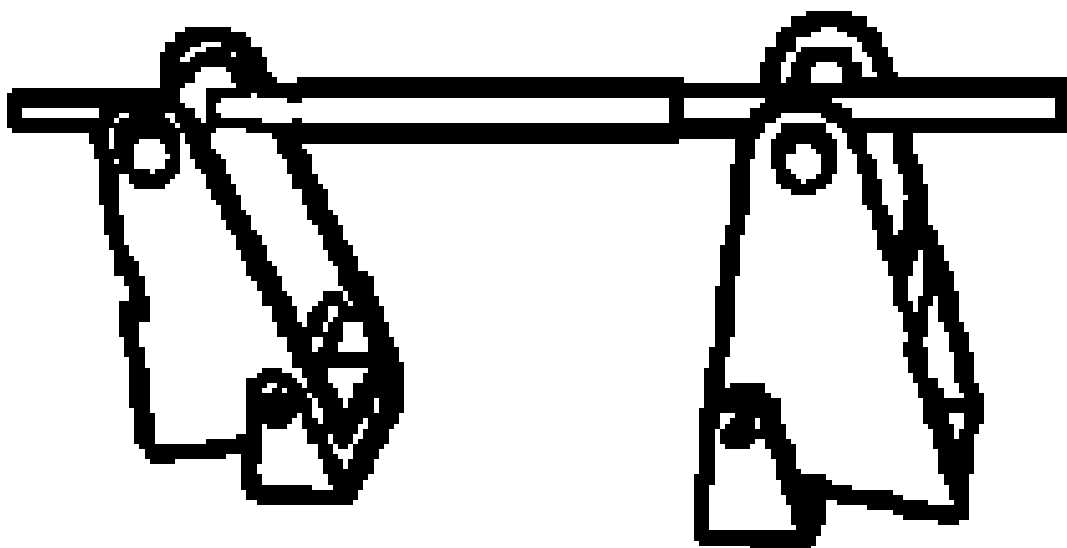
SPECIAL TOOLS AND EQUIPMENT

SPECIAL TOOLS

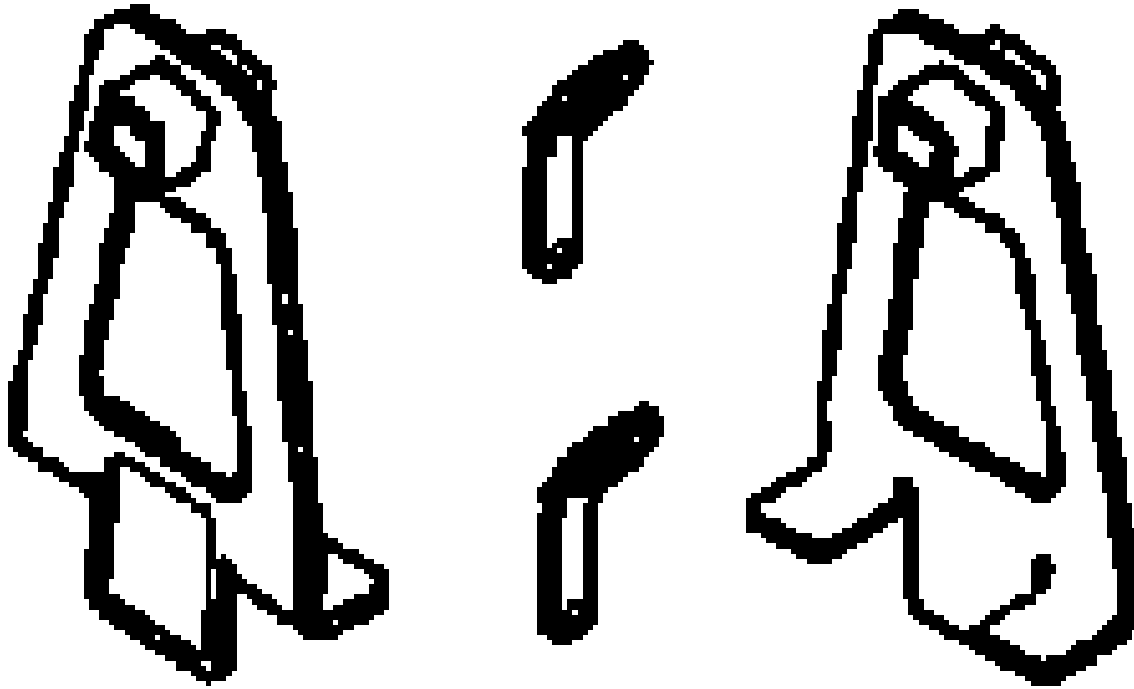
Illustration	Tool Number/ Description
	CH 48106 Suspension Thread Repair Kit



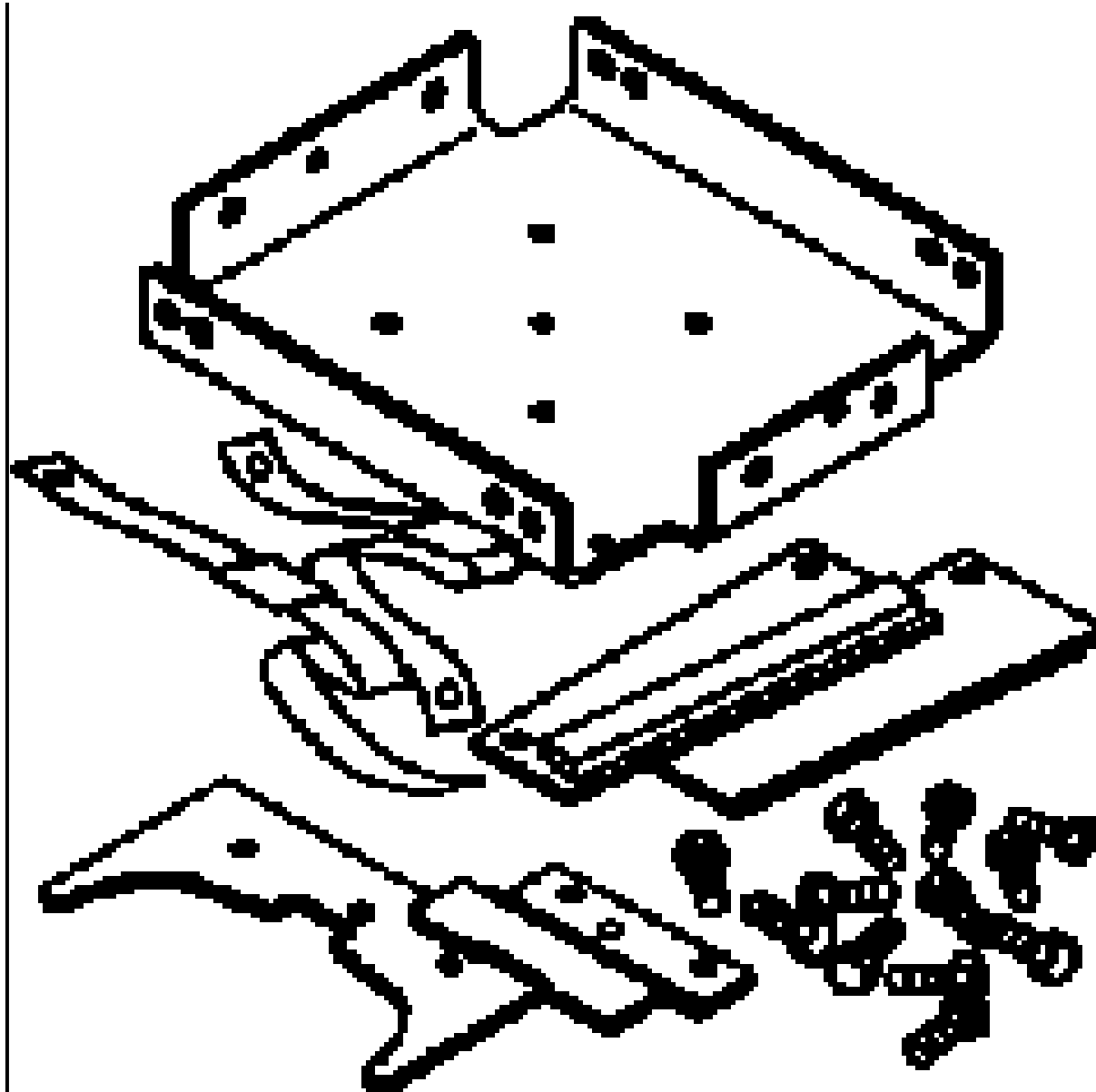
J-28467-B
Universal
Engine
Support
Fixture



J-33432-A
Spring
Compressor



J-41803
Engine
Support
Fixture



J-42055
Transmission
Support
Fixture