

2017 ACCESSORIES & EQUIPMENT**Frame and Underbody - Encore, Trax****SPECIFICATIONS****FASTENER SPECIFICATIONS****Reusable Threaded Fastener Tightening Specifications**

NOTE: <i>All fasteners listed in this table can be reused after removal.</i>	
Application	Specification
	Metric (English)
Drivetrain and Front Suspension Frame Bolt Center	145 N.m (107 lb ft)
Drivetrain and Front Suspension Frame Bolt Front	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	30 to 45 Degrees
Drivetrain and Front Suspension Frame Bolt Rear	
• First Pass:	160 N.m (118 lb ft)
• Final Pass:	30 to 45 Degrees
Front Compartment Front Insulator Cover Bolt	22 N.m (16 lb ft)
Front Compartment Front Insulator Cover Screw - Europe Only	2.5 N.m (22 lb in)
Front Wheelhouse Liner Inner Front Extension Screw	3 N.m (27 lb in)
Front Wheelhouse Liner Screw - Front	3 N.m (27 lb in)
Front Wheelhouse Rear Liner Nut	3 N.m (27 lb in)
Front Wheelhouse Rear Liner Screw	3 N.m (27 lb in)
Power Steering Fluid Cooling Pipe Bolt, if equipped	9 N.m (80 lb in)
Power Steering Inlet and Outlet Hose Bolt, if equipped	9 N.m (80 lb in)
Rear Differential Carrier Bolt	108 N.m (80 lb ft)
Rear Suspension Frame Bolt	100 N.m (74 lb ft)
Rear Wheelhouse Panel Liner Nut	2 N.m (18 lb in)
Rear Wheelhouse Panel Liner Screw	3 N.m (27 lb in)
Transmission Protector Fastener	22 N.m (16 lb ft)
Underbody Number 4 Cross Shield Fastener	2.5 N.m (22 lb in)

REPAIR INSTRUCTIONS**FRONT COMPARTMENT FRONT CENTER INSULATOR REPLACEMENT**

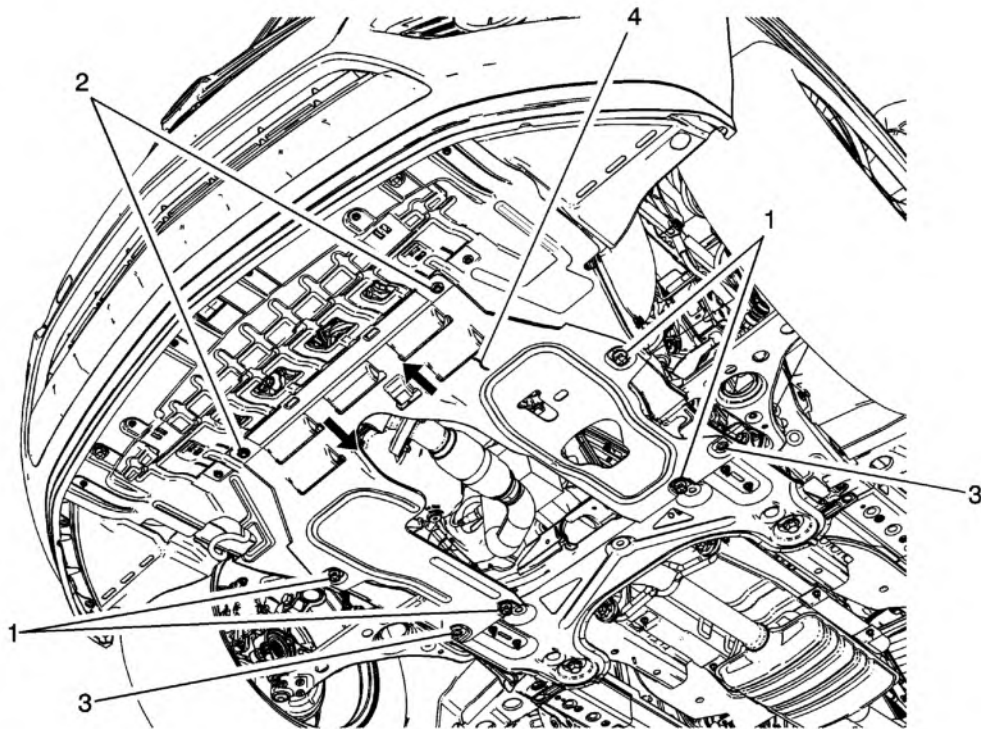


Fig. 1: Front Compartment Front Center Insulator
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle	
1	Front Compartment Front Center Insulator Push-In Retainer (Qty: 4)
2	Front Compartment Front Center Insulator Bolt (Qty: 2) CAUTION: Refer to Fastener Caution . Tighten 9 N.m (80 lb in)
3	Front Compartment Front Center Insulator Screw (Qty: 2) Tighten 2.5 N.m (22 lb in)
4	Front Compartment Front Center Insulator Procedure Disengage the fascia opening lower cover front alignment tabs.

DRIVETRAIN AND FRONT SUSPENSION FRAME TRANSMISSION PROTECTOR REPLACEMENT

Removal Procedure

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

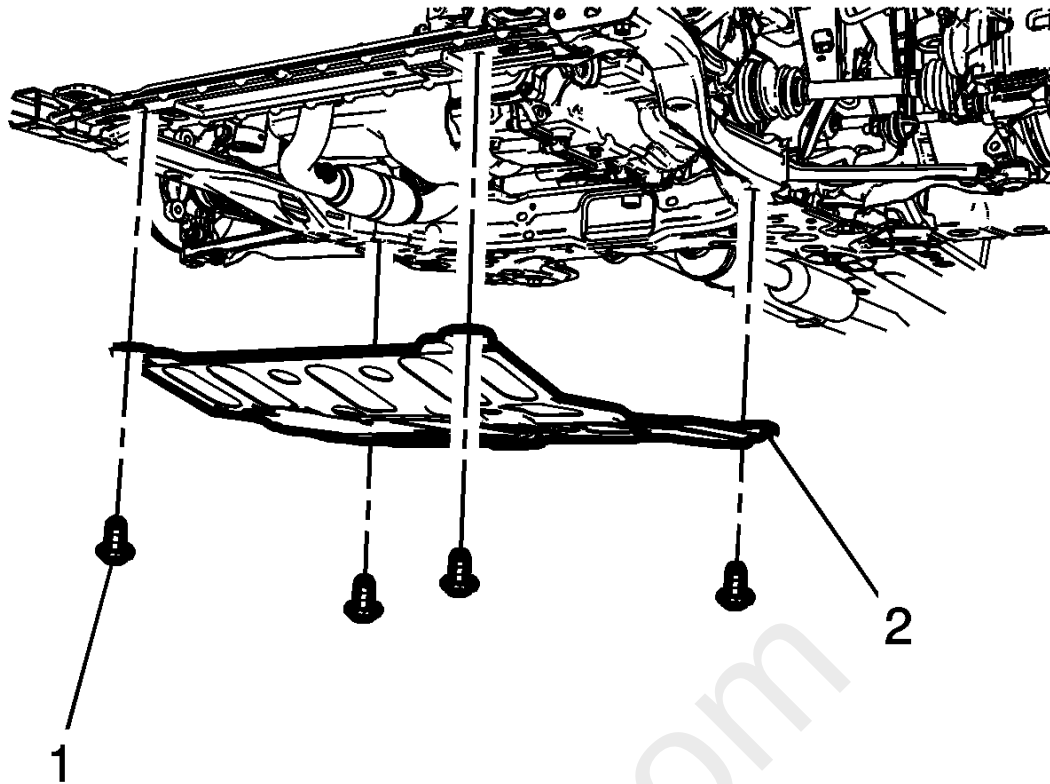


Fig. 2: Front Suspension Skid Plate & Bolts

Courtesy of GENERAL MOTORS COMPANY

2. Remove the mounting bolts (1) for the front suspension frame transmission protector.
3. Remove the front suspension frame transmission protector (2).

Installation Procedure

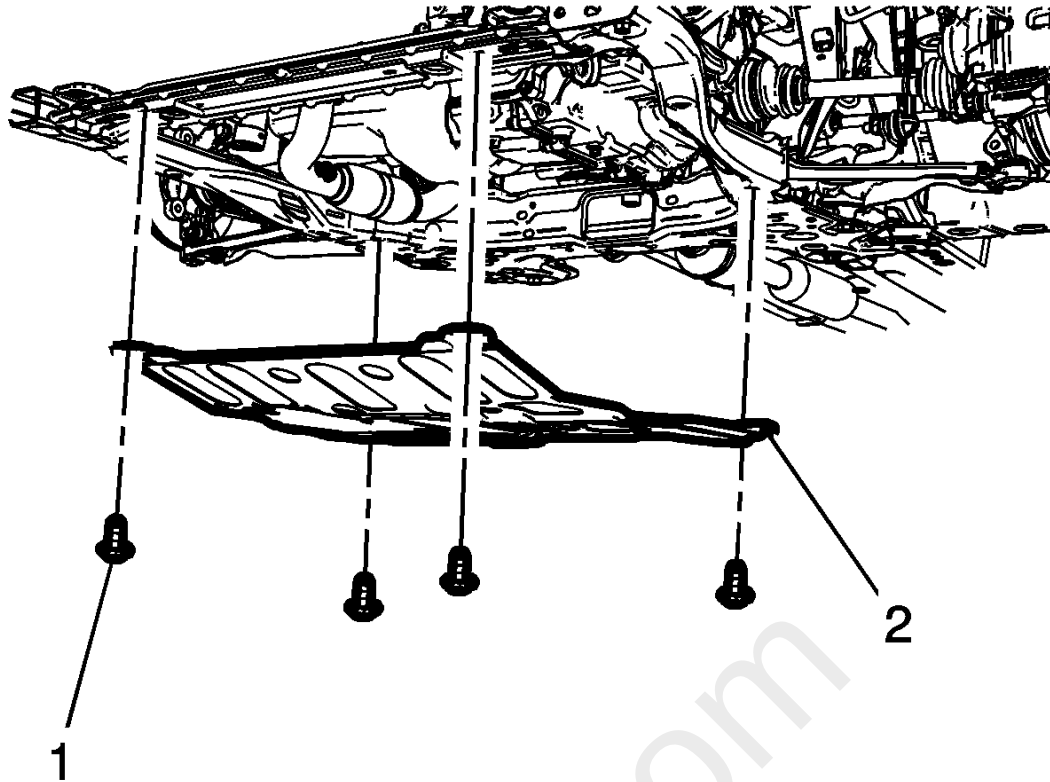


Fig. 3: Front Suspension Skid Plate & Bolts

Courtesy of GENERAL MOTORS COMPANY

1. Position the front suspension frame transmission protector (2) on the frame.

CAUTION: Refer to Fastener Caution .

2. Install the front suspension frame transmission protector mounting bolts (2) and tighten to 22 N.m (16 lb ft).
3. Lower the vehicle.

UNDERBODY FRONT AIR DEFLECTOR REPLACEMENT

Removal Procedure

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

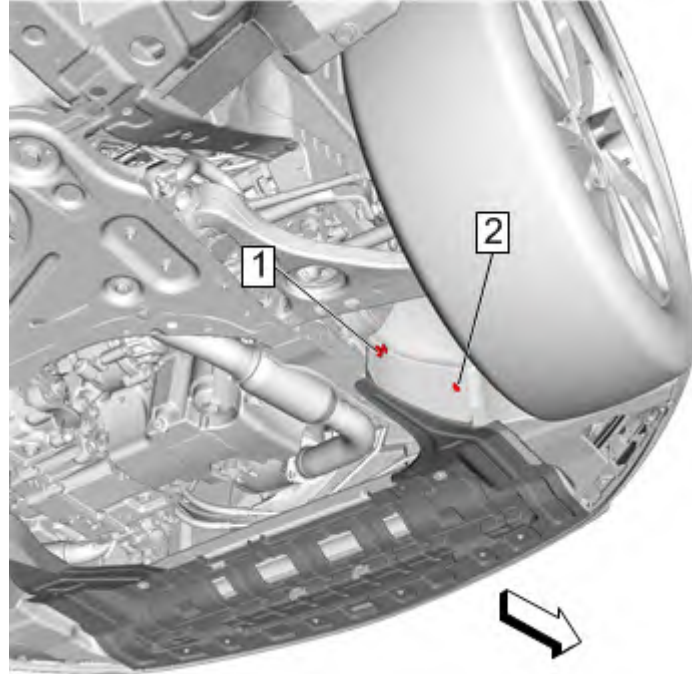


Fig. 4: Front Wheelhouse Liner Retainer And Front Wheelhouse Liner Screw
 Courtesy of GENERAL MOTORS COMPANY

2. Remove Front Wheelhouse Liner Retainer (1)
3. Remove Front Wheelhouse Liner Screw (2)

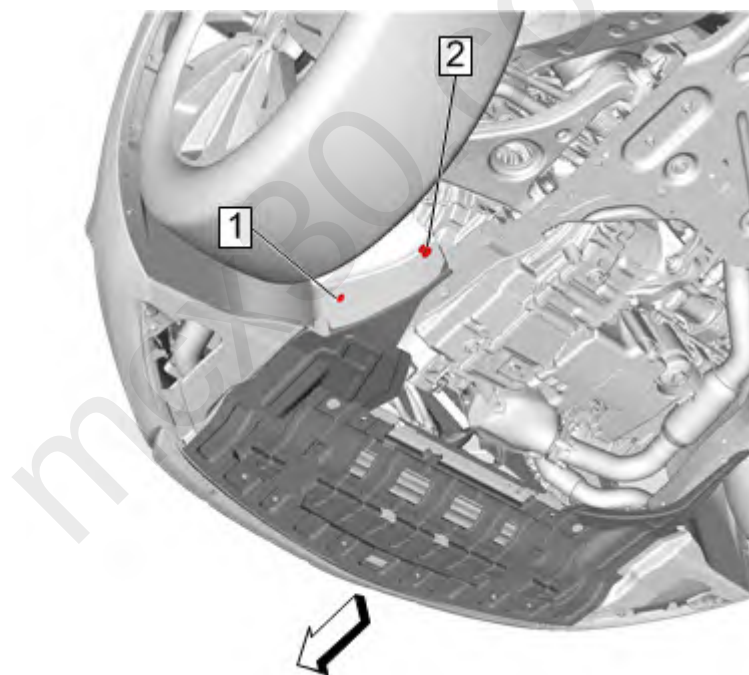


Fig. 5: Front Wheelhouse Liner Screw And Front Wheelhouse Liner Retainer
 Courtesy of GENERAL MOTORS COMPANY

4. Remove Front Wheelhouse Liner Screw (1)
5. Remove Front Wheelhouse Liner Retainer (2)

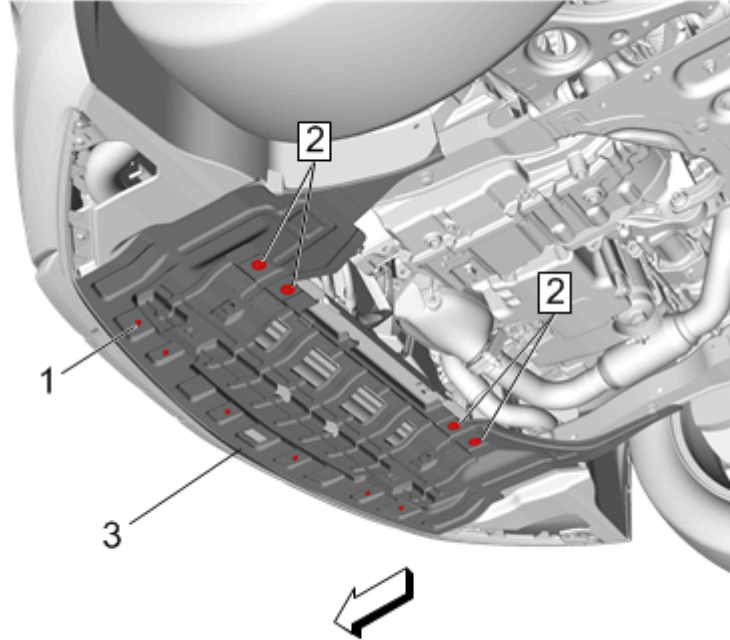


Fig. 6: Underbody Front Air Deflector And Bolt
Courtesy of GENERAL MOTORS COMPANY

6. Remove Underbody Front Air Deflector Bolt (1)
7. Remove Underbody Front Air Deflector Bolt (2)
8. Remove Underbody Front Air Deflector (3)

Installation Procedure

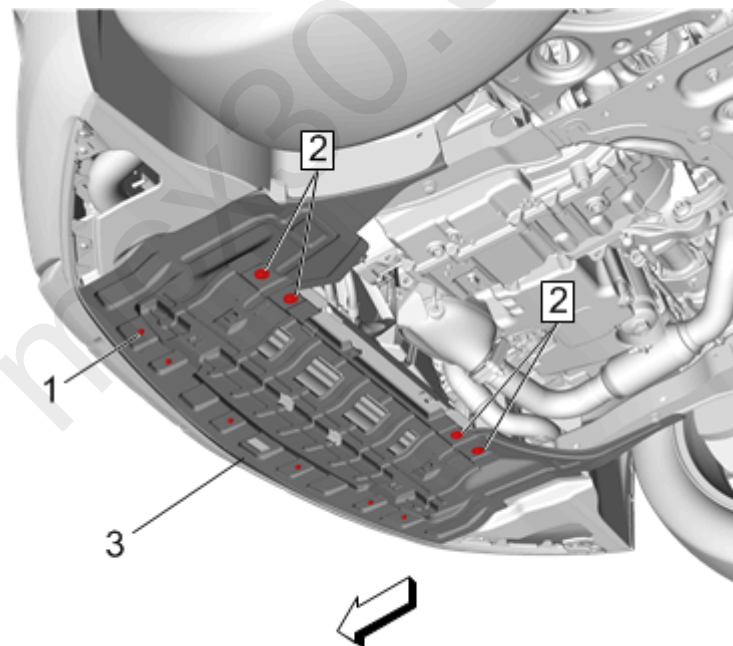


Fig. 7: Underbody Front Air Deflector And Bolt
Courtesy of GENERAL MOTORS COMPANY

1. Install Underbody Front Air Deflector (3)

CAUTION: Refer to **Fastener Caution**

2. Install Underbody Front Air Deflector Bolt (2) and tighten 9 N.m (80 lb in)
3. Install Underbody Front Air Deflector Bolt (1) and tighten 2.5 N.m (22 lb in)

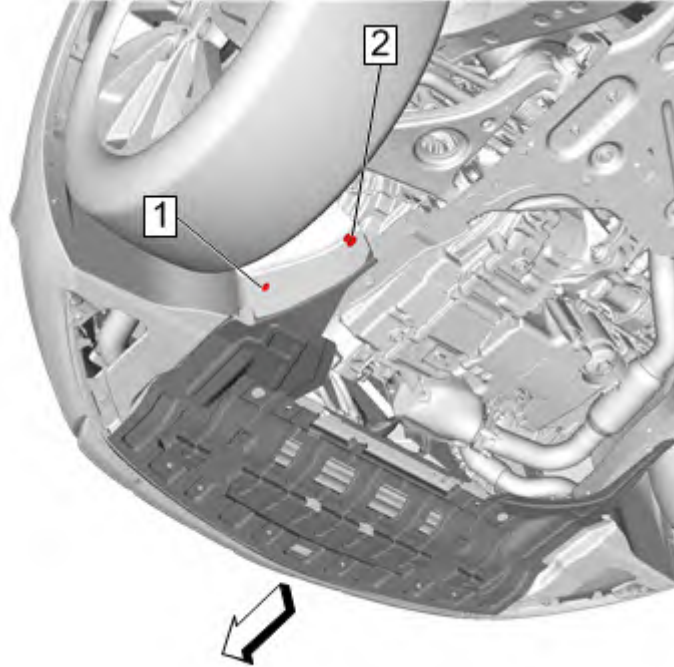


Fig. 8: Front Wheelhouse Liner Screw And Front Wheelhouse Liner Retainer
Courtesy of GENERAL MOTORS COMPANY

4. Install Front Wheelhouse Liner Screw (1) and tighten 2.5 N.m (22 lb in)
5. Install Front Wheelhouse Liner Retainer (2)

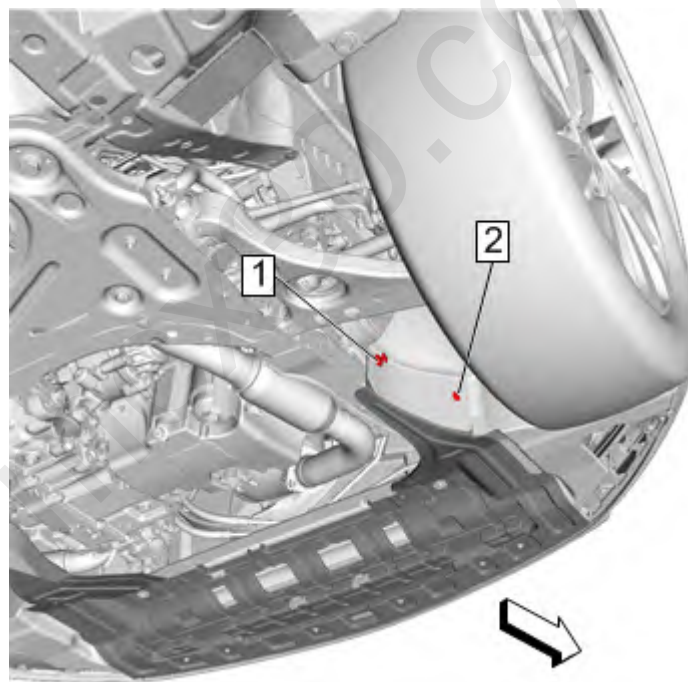


Fig. 9: Front Wheelhouse Liner Retainer And Front Wheelhouse Liner Screw
Courtesy of GENERAL MOTORS COMPANY

6. Install Front Wheelhouse Liner Retainer (1)
7. Install Front Wheelhouse Liner Screw (2) and tighten 2.5 N.m (22 lb in)
8. Lower the vehicle.

UNDERBODY NUMBER 4 CROSS SILL SHIELD REPLACEMENT

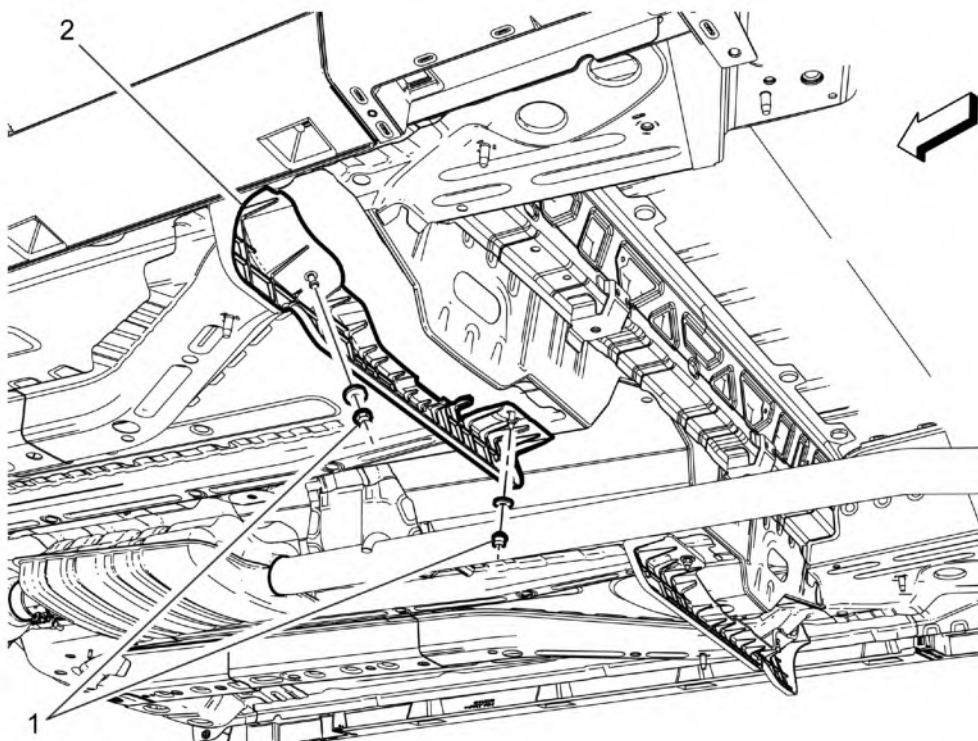


Fig. 10: Underbody Number 4 Cross Sill Shield
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .	
1	Underbody Number 4 Cross Sill Shield Fastener (Qty: 2) CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Underbody Number 4 Cross Sill Shield

REAR CROSSMEMBER REPLACEMENT (AWD)

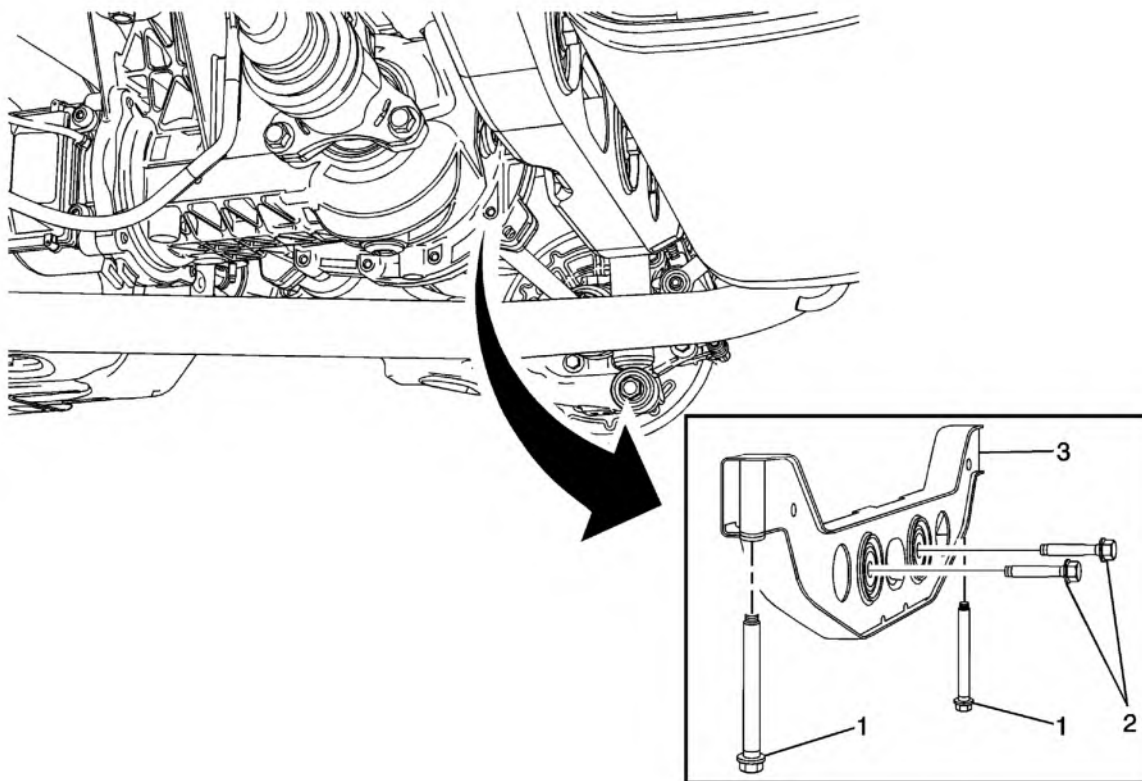


Fig. 11: Rear Crossmember (AWD)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle . 2. Remove the exhaust system. Refer to Exhaust Muffler Replacement (2H0), Exhaust Muffler Replacement (LUV), Exhaust Muffler Replacement (LE2) .	
1	Rear Suspension Frame Bolt (Qty:2) CAUTION: Refer to Fastener Caution . Tighten 100 N.m (74 lb ft)
2	Rear Differential Carrier Bolt (Qty:2) Tighten 108 N.m (80 lb ft)
3	Rear Crossmember Procedure Support the right side of the rear differential Module (RDM) assembly with a hydraulic jack before removing the rear crossmember and rear suspension frame bolts.

DRIVETRAIN AND FRONT SUSPENSION FRAME REPLACEMENT (LONG CRADLE)

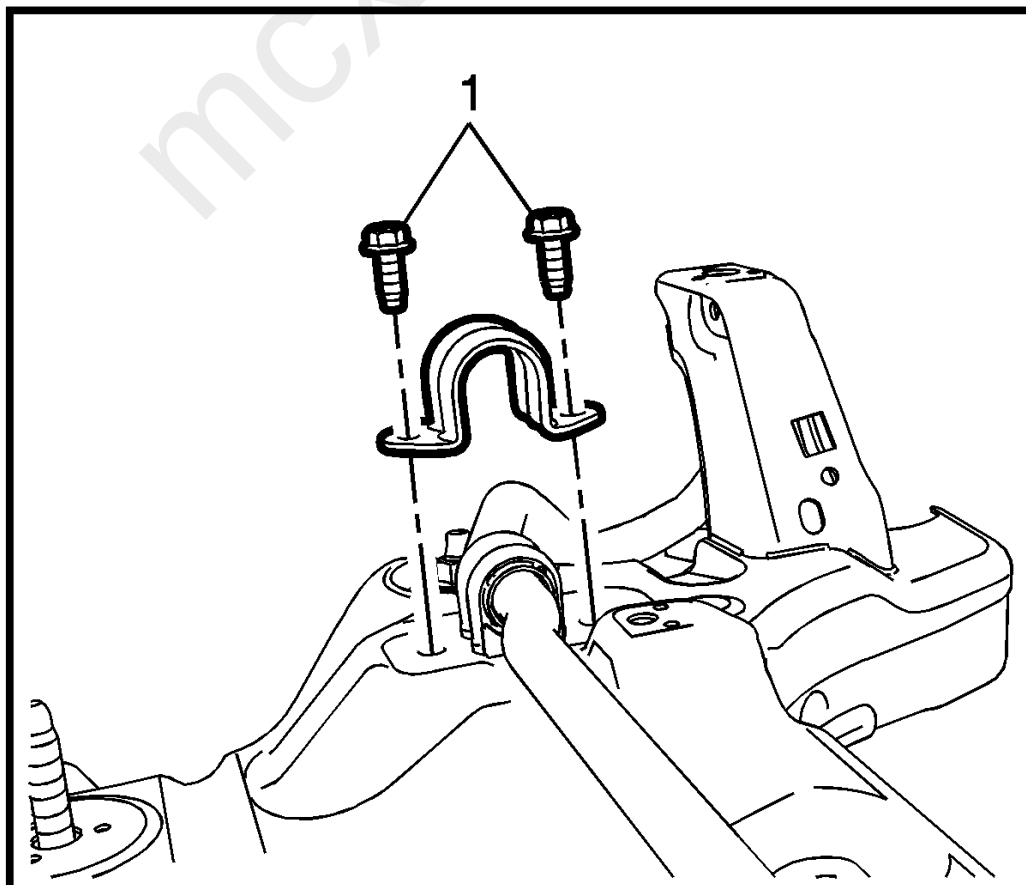
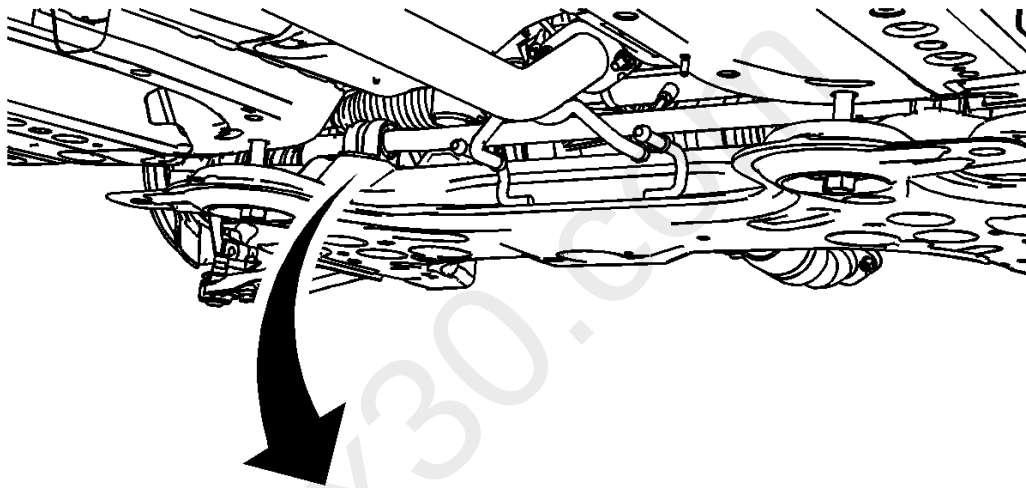
Removal Procedure

NOTE: Suspension components attached to the frame use Torque-to-Yield fasteners and must be **DISCARDED** and replaced with **NEW** Torque Angle Yield (TAY) fasteners. The frame to body fasteners are not TAY fasteners.

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 the cradle with a NEW part and transferring components.

1. Support the radiator and condenser from above using the upper brackets on each side.
2. Raise the vehicle on a hoist. Refer to [Lifting and Jacking the Vehicle](#).
3. Remove the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#).
4. Remove the drivetrain and front suspension frame transmission protector from the front frame, if equipped. Refer to [Drivetrain and Front Suspension Frame Transmission Protector Replacement](#).
5. Remove the front compartment front center insulator, if equipped. Refer to [Front Compartment Front Center Insulator Replacement](#).
6. Disconnect the lower ball joints from the steering knuckles. Refer to [Lower Control Arm Replacement](#).



7. Remove the four fasteners (1) retaining the stabilizer shaft to the drivetrain and front suspension.

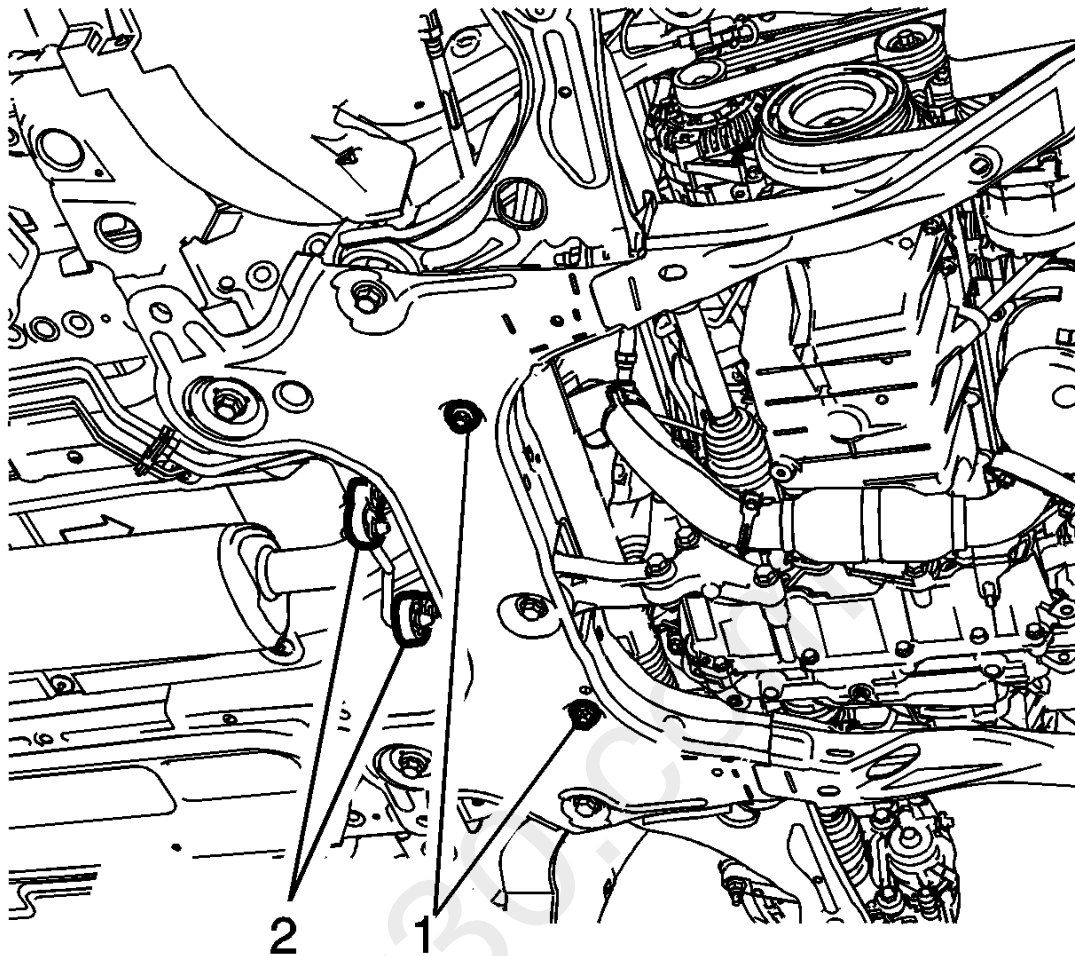


Fig. 13: Steering Rack Retaining Bolts & Exhaust Isolators
Courtesy of GENERAL MOTORS COMPANY

8. Remove the steering rack retaining bolts (1) and discard.
9. Using mechanics wire, secure the power steering gear and stabilizer shaft to the vehicle.
10. Disconnect the hydraulic power steering hoses from the front frame.
11. Disconnect the exhaust isolators (2) from the front suspension frame.
12. Disconnect the power brake booster pump hose and connector, if equipped.

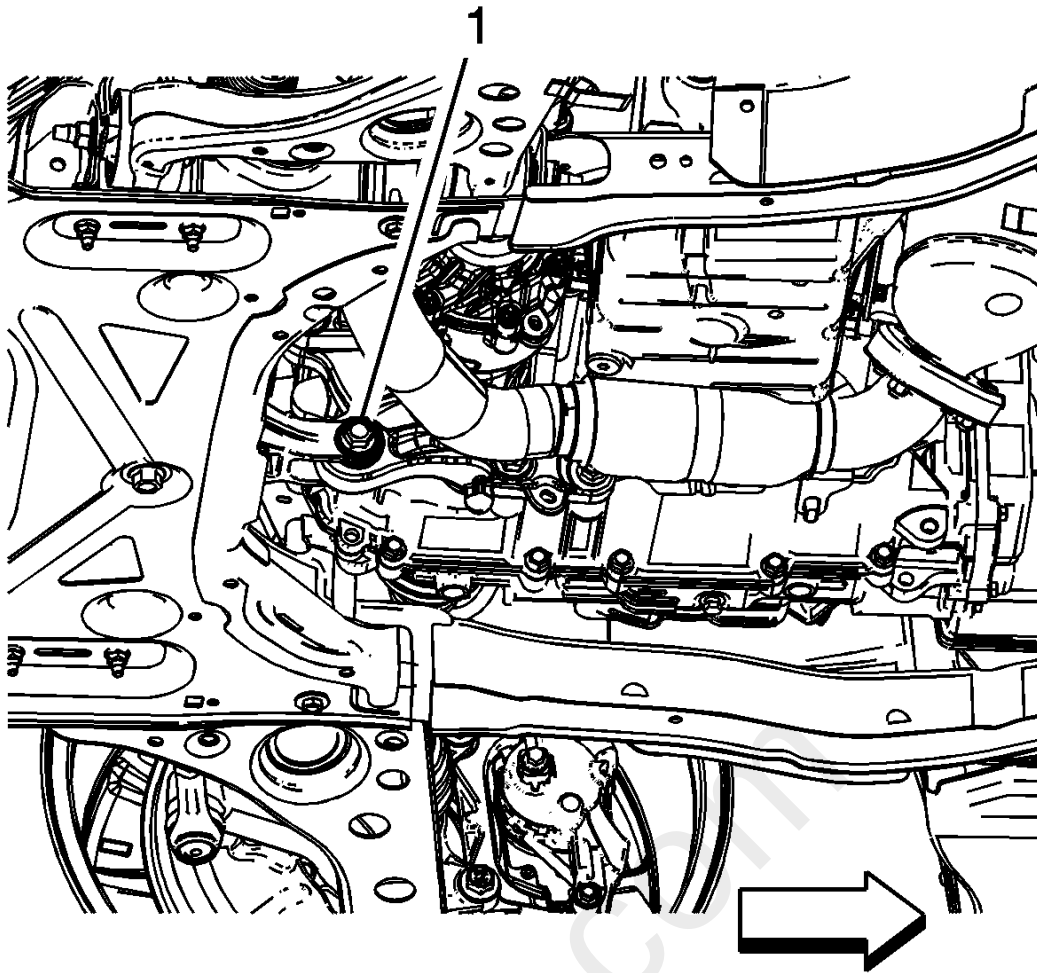


Fig. 14: Transmission Mount Bracket To Rear Mount Through Bolt
Courtesy of GENERAL MOTORS COMPANY

13. Remove the rear transmission mount bracket to rear mount through bolt (1).
14. Using a suitable support table or equivalent, support the front suspension frame.

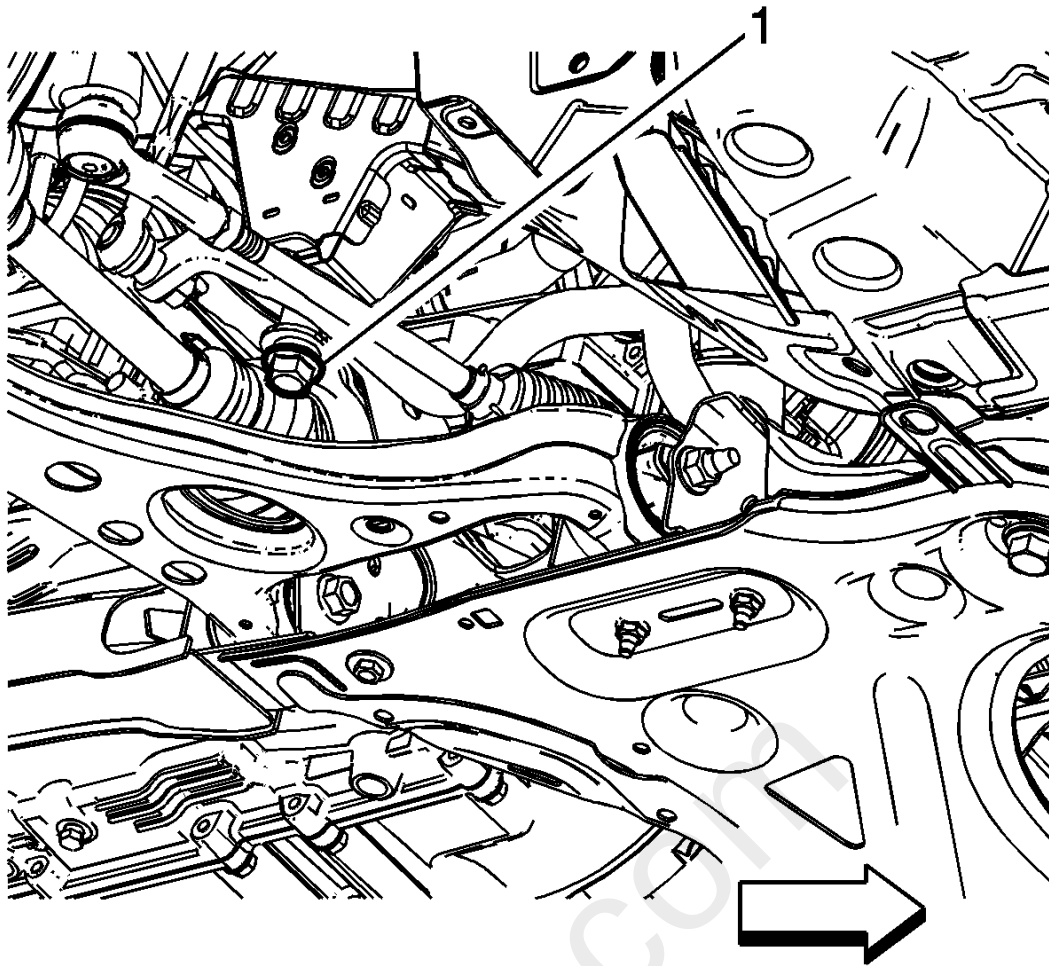


Fig. 15: Upper Frame Suspension Retaining Bolts
Courtesy of GENERAL MOTORS COMPANY

15. Remove the upper frame suspension retaining bolts (1).

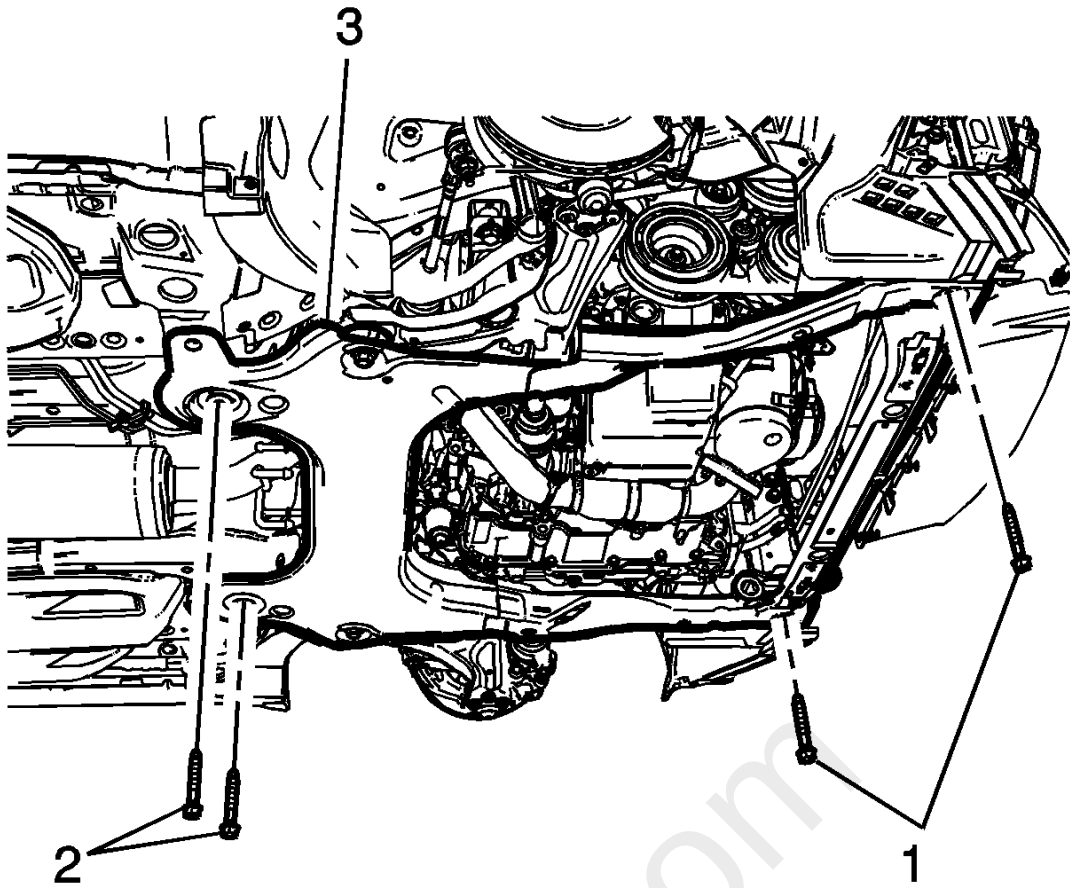


Fig. 16: Frame & Bolts

Courtesy of GENERAL MOTORS COMPANY

16. Remove the frame front bolts (1).
17. Remove the frame rear bolts (2).
18. Remove the frame (3) from the vehicle.
19. Remove the following components, if replacing the frame:
 - The lower control arms-Refer to [Lower Control Arm Replacement](#) .
 - The front bumper lower impact bar-Refer to [Front Bumper Lower Impact Bar Replacement \(Chevrolet\)](#) .
 - The power brake booster pump, if equipped-Refer to [Power Brake Booster Pump Replacement](#) .
 - The rear transmission mount bracket-Refer to [Transmission Mount Bracket Replacement - Rear \(All Wheel Drive\)](#), [Transmission Mount Bracket Replacement - Rear \(Front Wheel Drive\)](#) .

Installation Procedure

1. Install the following components on the drivetrain and front suspension frame if removed:
 - The rear transmission mount bracket-Refer to [Transmission Mount Bracket Replacement - Rear \(All Wheel Drive\)](#), [Transmission Mount Bracket Replacement - Rear \(Front Wheel Drive\)](#) .
 - The power brake booster pump, if equipped-Refer to [Power Brake Booster Pump Replacement](#) .
 - The front bumper lower impact bar-Refer to [Front Bumper Lower Impact Bar Replacement \(Chevrolet\)](#) .
 - The lower control arms-Refer to [Lower Control Arm Replacement](#) .
2. Install the frame (3) into the vehicle.

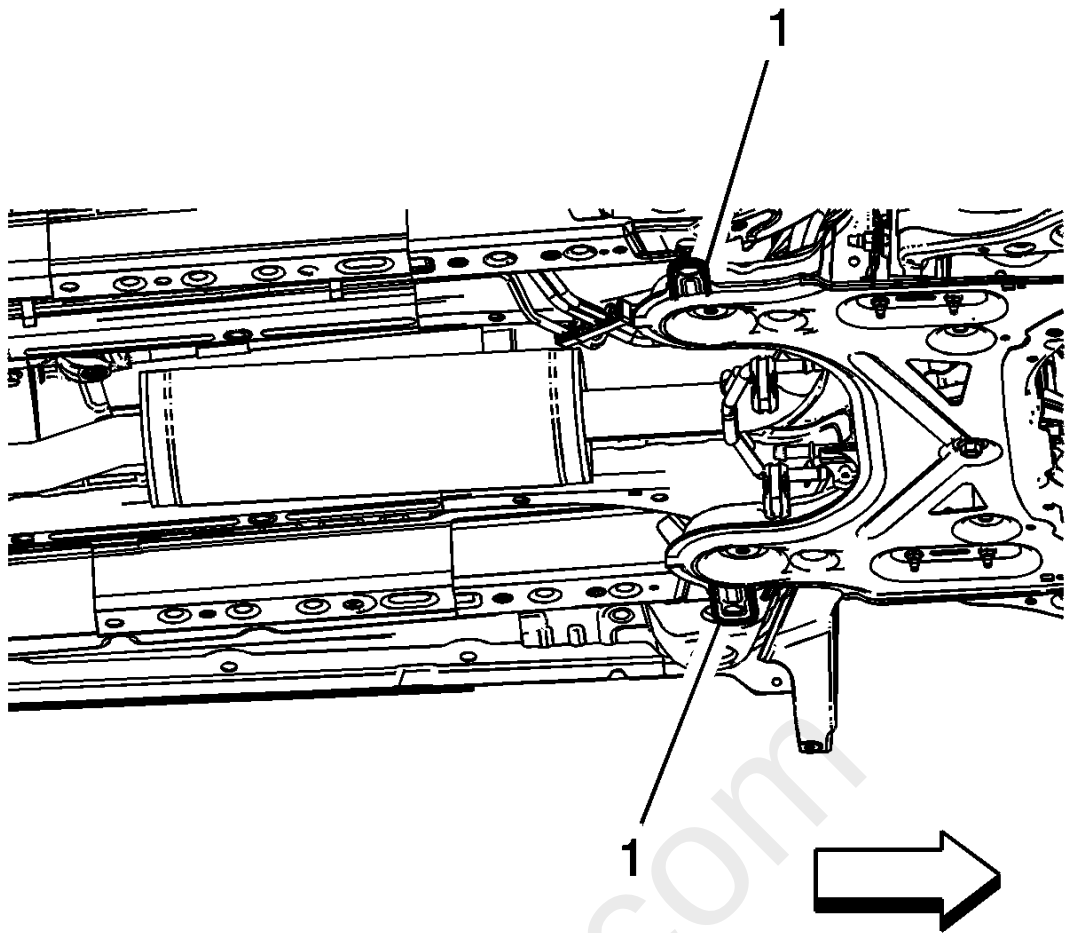


Fig. 17: Front Suspension Frame And Floor Panel

Courtesy of GENERAL MOTORS COMPANY

3. Using a commercially available guide pin, have an assistant vertically insert and hold the pins through the front suspension frame and floor panel (1).

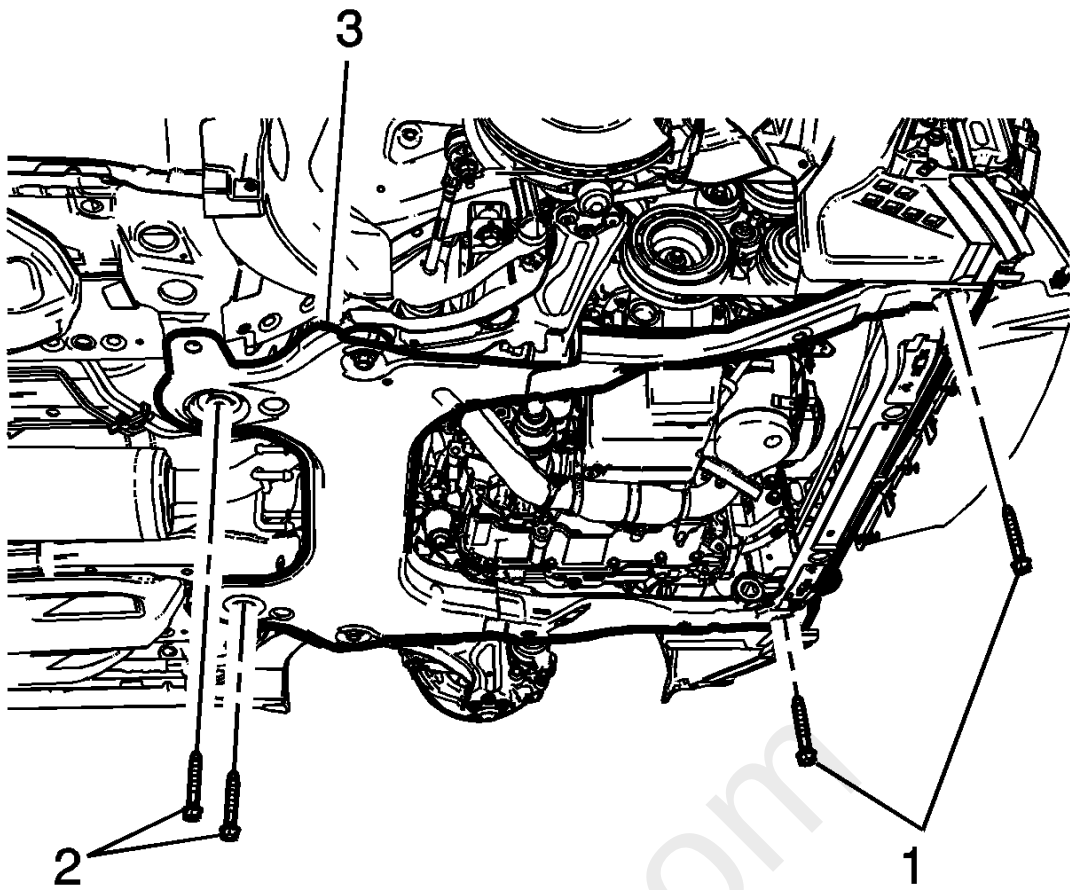


Fig. 18: Frame & Bolts

Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

4. Install the frame (3) rear fasteners (2) and tighten:
 1. First pass: 160 N.m (118 lb ft)
 2. Final pass: plus 30 to 45 degrees
5. Install the frame front bolts and tighten:
 1. First pass: 100 N.m (74 lb ft)
 2. Final pass: plus 30 to 45 degrees

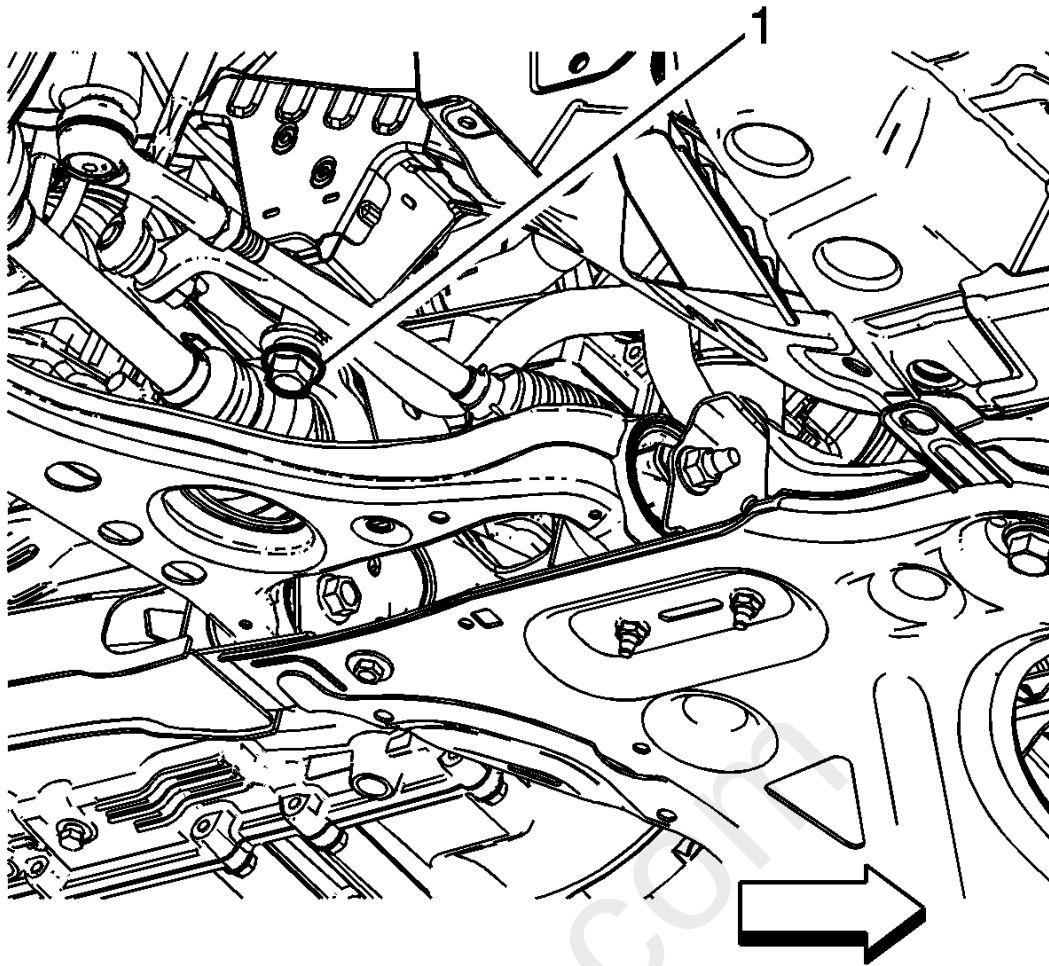


Fig. 19: Upper Frame Suspension Retaining Bolts

Courtesy of GENERAL MOTORS COMPANY

6. Install the upper frame suspension retaining bolts (1) and tighten to 145 N.m (107 lb ft).
7. Remove the wire retaining the power steering gear and stabilizer shaft to the vehicle.

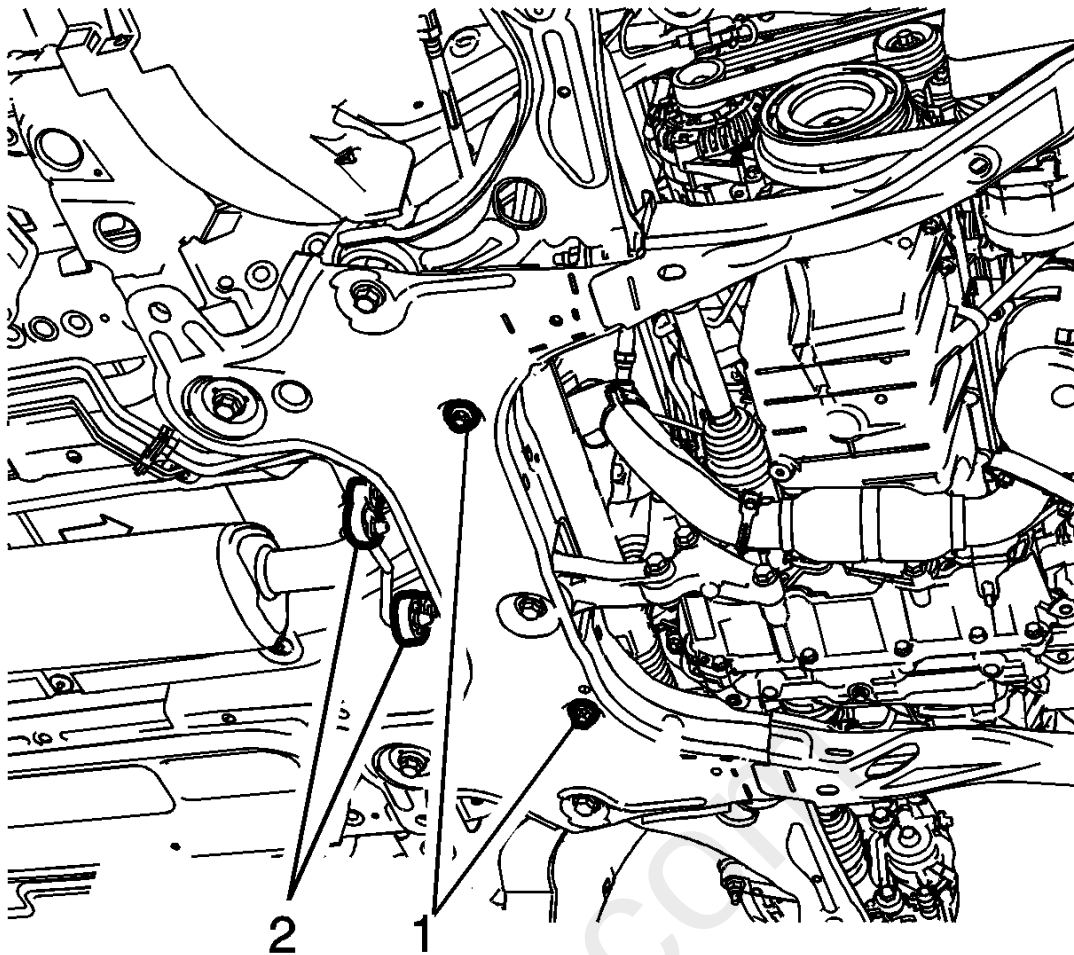


Fig. 20: Steering Rack Retaining Bolts & Exhaust Isolators

Courtesy of GENERAL MOTORS COMPANY

8. Install the steering gear retaining fasteners (1). Refer to [Steering Gear Replacement \(N40 With MNK\)](#), [Steering Gear Replacement \(NJ1 With MNH or MNK\)](#), [Steering Gear Replacement \(NJ1 With MR5\)](#), [Steering Gear Replacement \(N40 With M4P\)](#).
9. Connect the hydraulic power steering hoses to the front frame, if equipped.
10. Connect the exhaust isolators (2) to the front suspension frame.

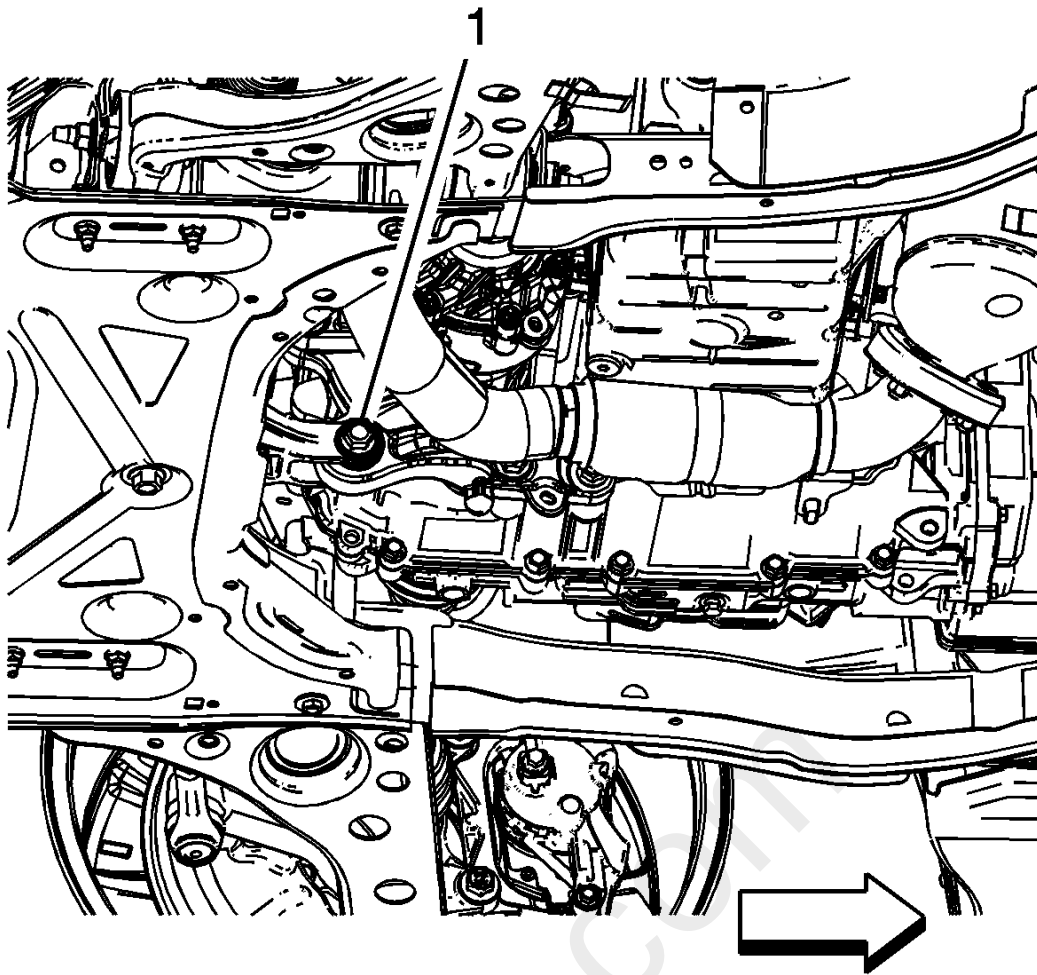


Fig. 21: Transmission Mount Bracket To Rear Mount Through Bolt
Courtesy of GENERAL MOTORS COMPANY

11. Install the rear transmission mount bracket to rear mount through bolt (1). Refer to [Transmission Rear Mount Replacement \(AWD\)](#) [Transmission Rear Mount Replacement \(FWD\)](#) .
12. Connect the power brake booster pump hose and connector, if equipped.
13. Connect the lower ball joints to the steering knuckles. Refer to [Lower Control Arm Replacement](#) .

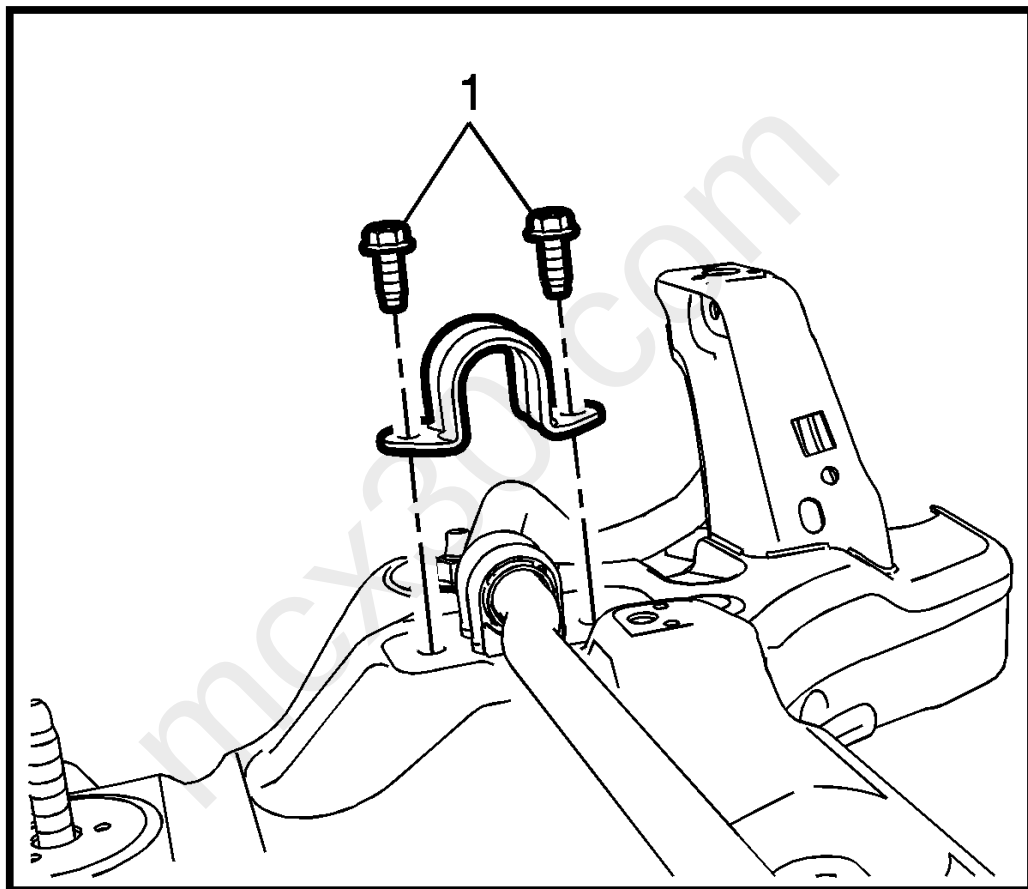
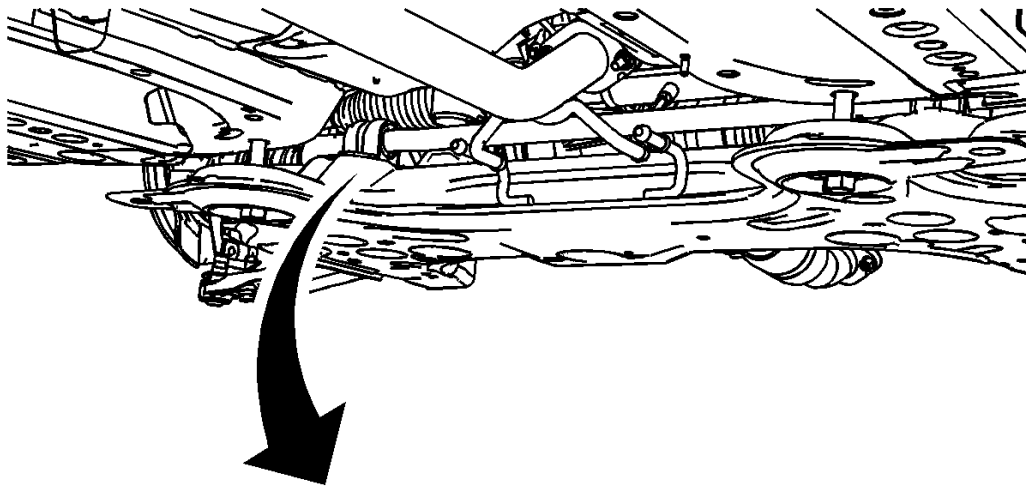


Fig. 22: Stabilizer Shaft Insulator Bracket And Bolts

Courtesy of GENERAL MOTORS COMPANY

14. Connect the stabilizer shaft to the drivetrain and front suspension frame. Refer to [Stabilizer Shaft Replacement](#) .
15. Install the front compartment front center insulator, if equipped. Refer to [Front Compartment Front Center Insulator Replacement](#).
16. Install the skid plate to the front frame, if equipped. Refer to [Drivetrain and Front Suspension Frame Transmission Protector Replacement](#).
17. Install the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) .
18. Lower the vehicle.
19. Remove the support of the radiator and condenser.

DRIVETRAIN AND FRONT SUSPENSION FRAME REPLACEMENT (SHORT CRADLE)

Removal Procedure

NOTE: Suspension components attached to the frame use Torque-to-Yield fasteners and must be DISCARDED and replaced with NEW Torque Angle Yield (TAY) fasteners. The frame to body fasteners are not TAY fasteners.

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 the cradle with a NEW part and transferring components.

1. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) .
2. Remove the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) .
3. Remove the drivetrain and front suspension frame transmission protector from the front frame, if equipped. Refer to [Drivetrain and Front Suspension Frame Transmission Protector Replacement](#) .
4. Remove the front compartment front center insulator, if equipped. Refer to [Front Compartment Front Center Insulator Replacement](#) .
5. Disconnect the lower ball joints from the steering knuckles. Refer to [Lower Control Arm Replacement](#) .

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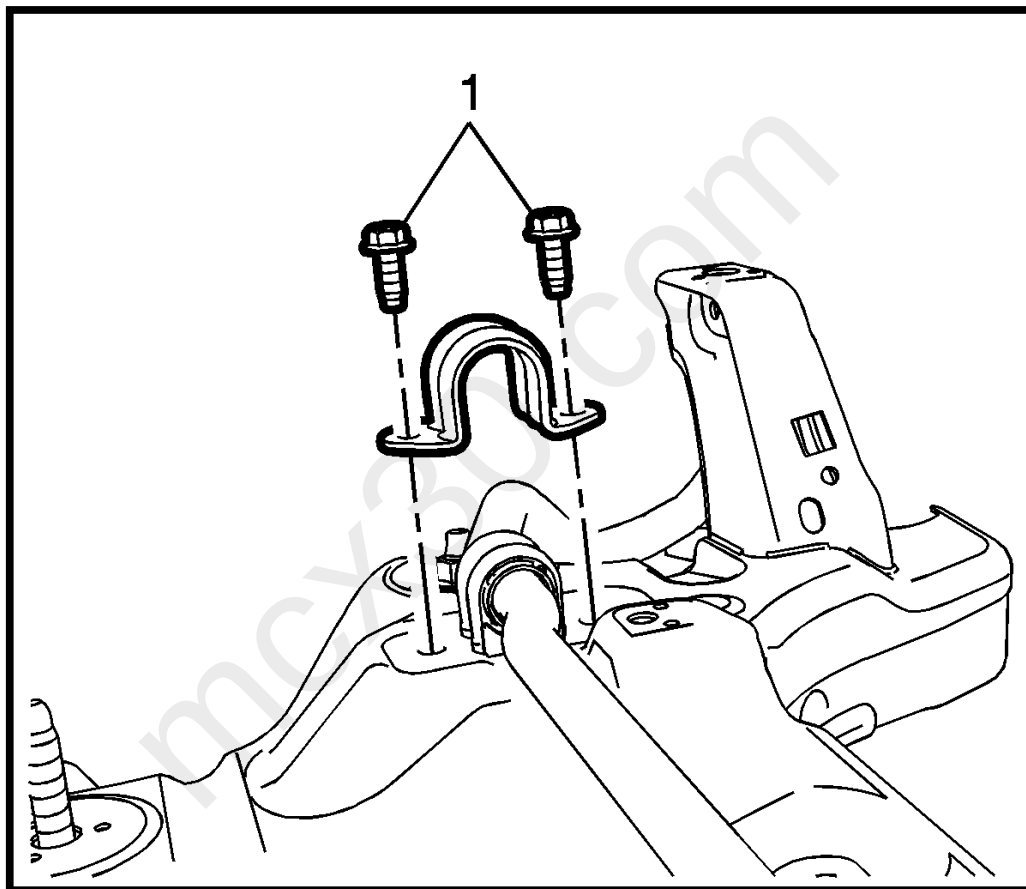
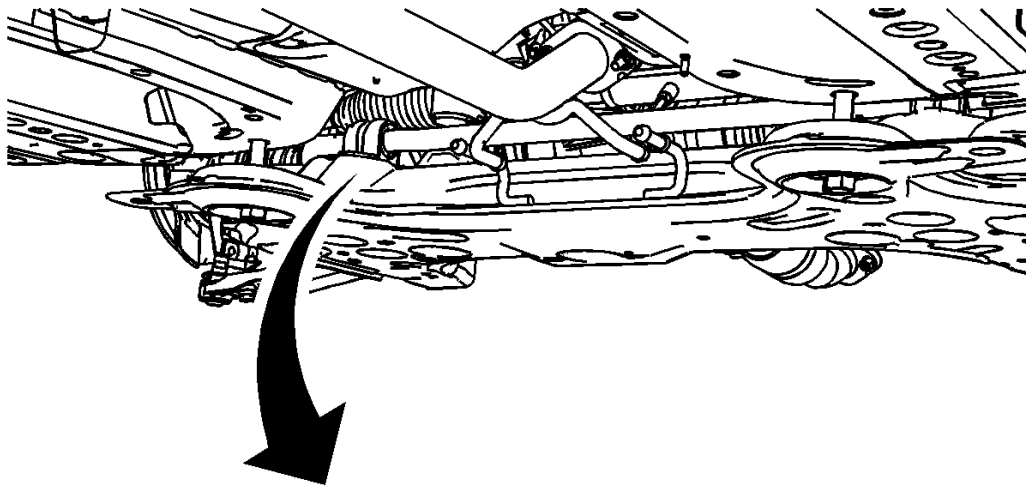


Fig. 23: Stabilizer Shaft Insulator Bracket And Bolts

Courtesy of GENERAL MOTORS COMPANY

6. Remove the four fasteners (1) retaining the stabilizer shaft to the drivetrain and front suspension.

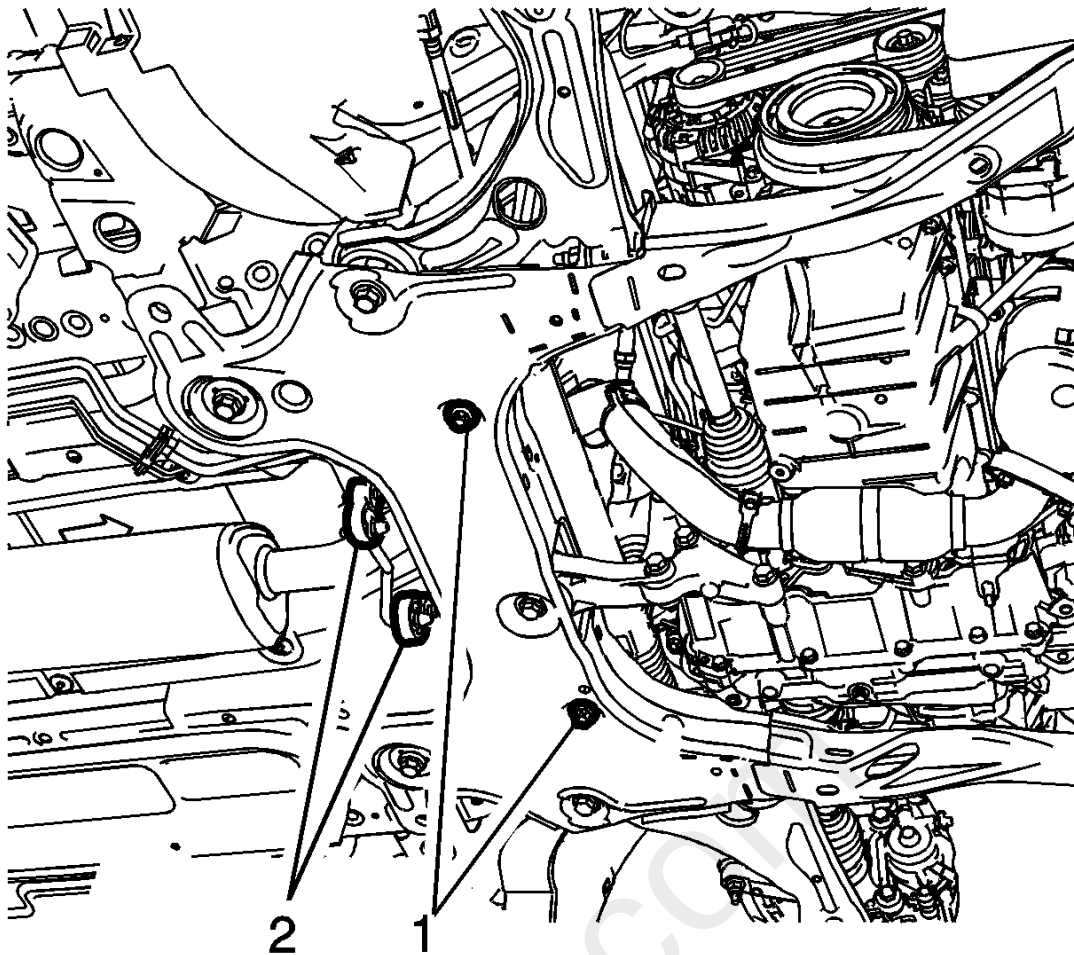


Fig. 24: Steering Rack Retaining Bolts & Exhaust Isolators

Courtesy of GENERAL MOTORS COMPANY

7. Remove the steering rack retaining fasteners (1) and discard.
8. Using mechanics wire, secure the power steering gear and stabilizer shaft to the vehicle.
9. Disconnect the hydraulic power steering hoses from the front frame.
10. Disconnect the exhaust isolators (2) from the front suspension frame.
11. Disconnect the power brake booster pump hose and connector, if equipped.

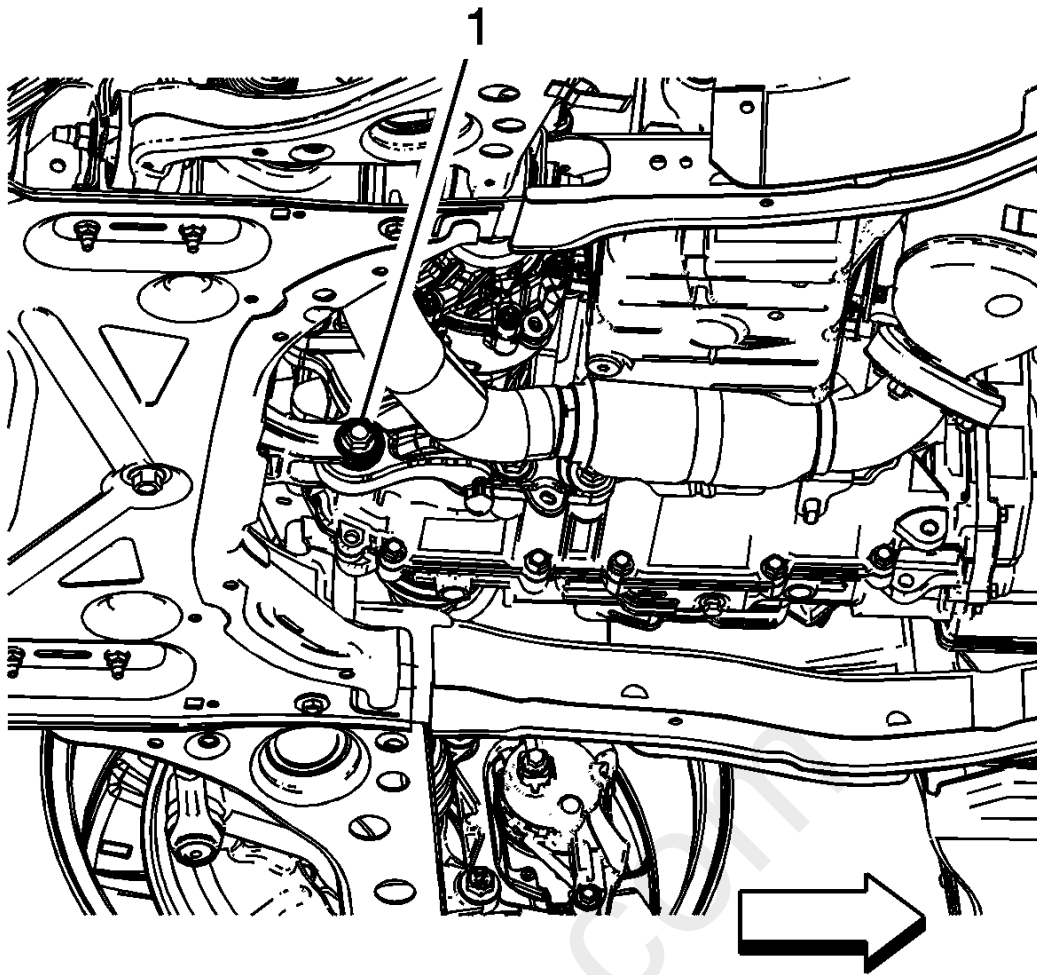


Fig. 25: Transmission Mount Bracket To Rear Mount Through Bolt
Courtesy of GENERAL MOTORS COMPANY

12. Remove the rear transmission mount bracket to rear mount through fasteners (1).
13. Using a suitable support table or equivalent, support the front suspension frame.

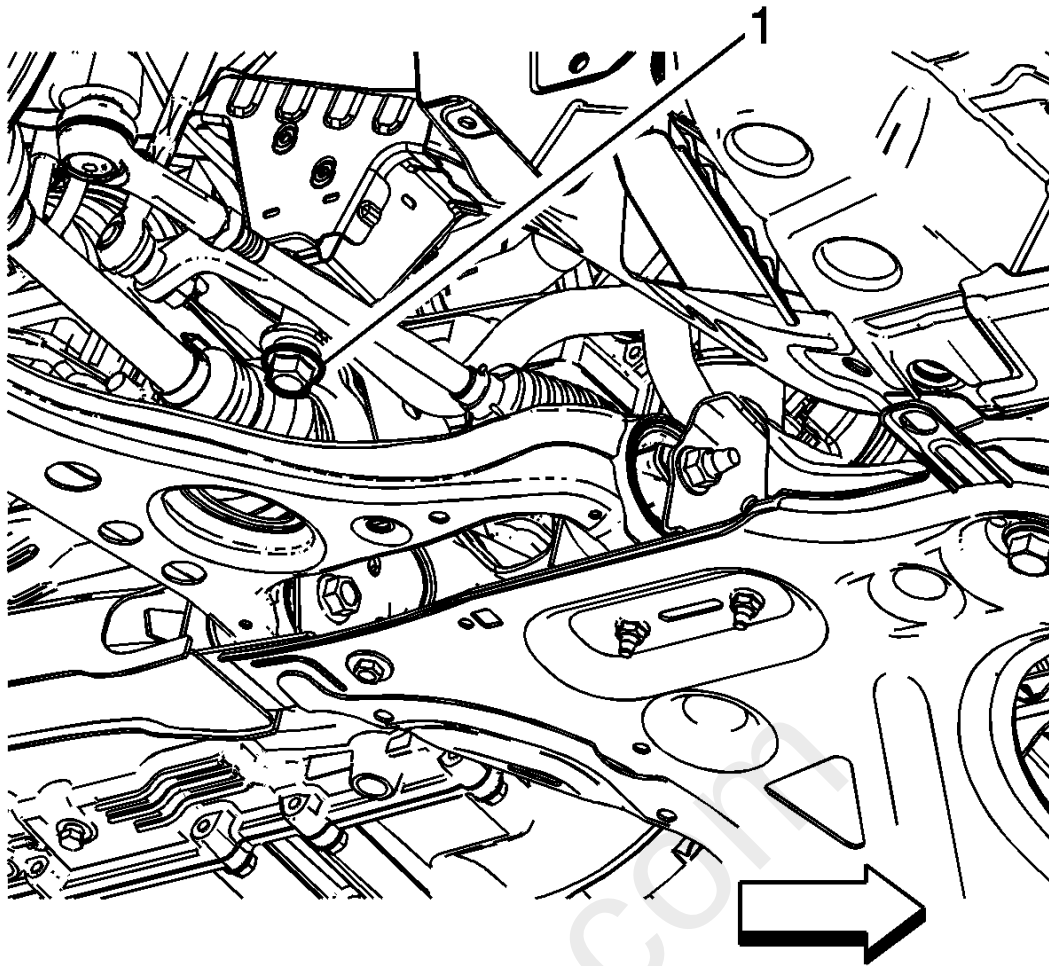


Fig. 26: Upper Frame Suspension Retaining Bolts
Courtesy of GENERAL MOTORS COMPANY

14. Remove the two upper frame suspension retaining fasteners (1).

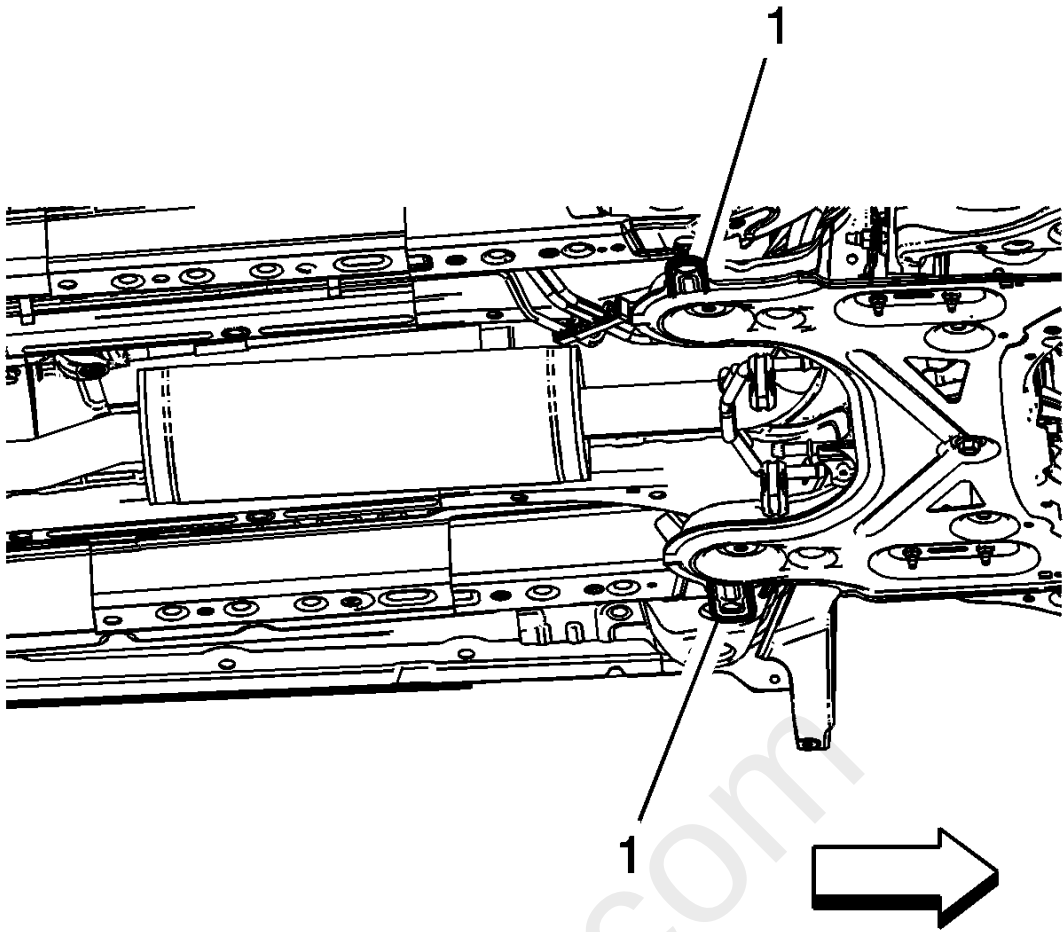


Fig. 28: Front Suspension Frame And Floor Panel

Courtesy of GENERAL MOTORS COMPANY

3. Using a commercially available guide pin, have an assistant vertically insert and hold the pins through the front suspension frame and floor panel (1).

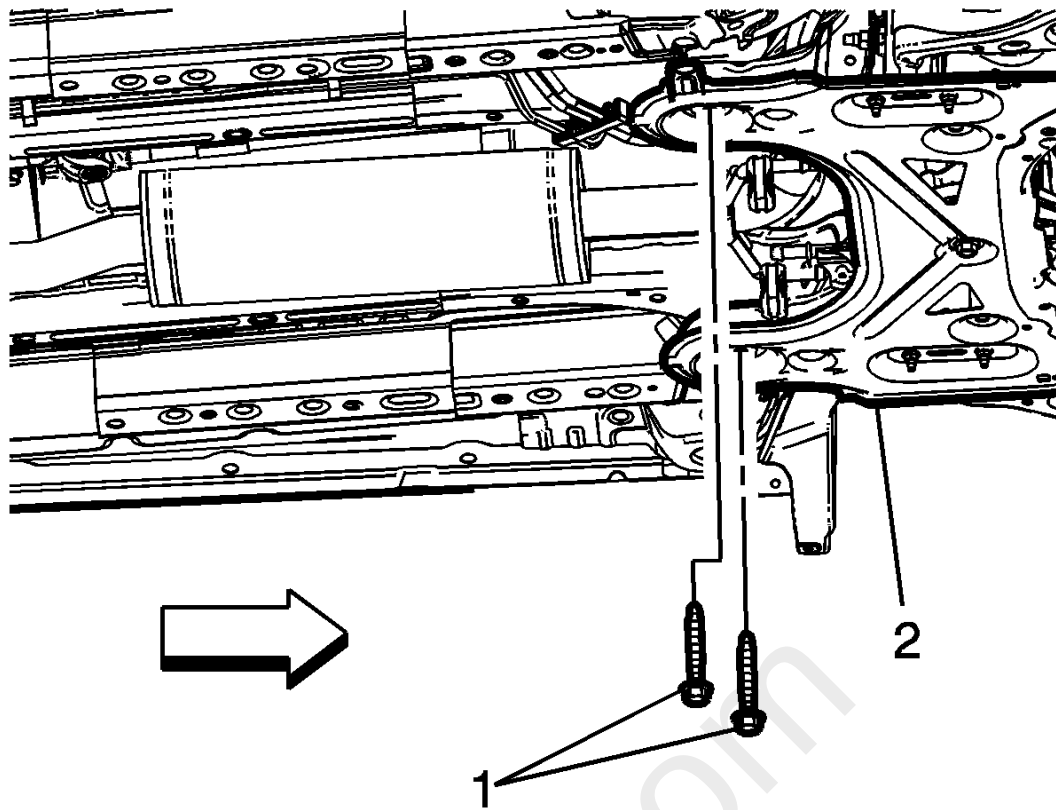


Fig. 29: Frame Rear Fasteners

Courtesy of GENERAL MOTORS COMPANY

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

4. Install the frame (2) rear fasteners (1) and tighten:
 1. First Pass: 160 N.m (118 lb ft).
 2. Final Pass: an additional 30 to 45 degrees.

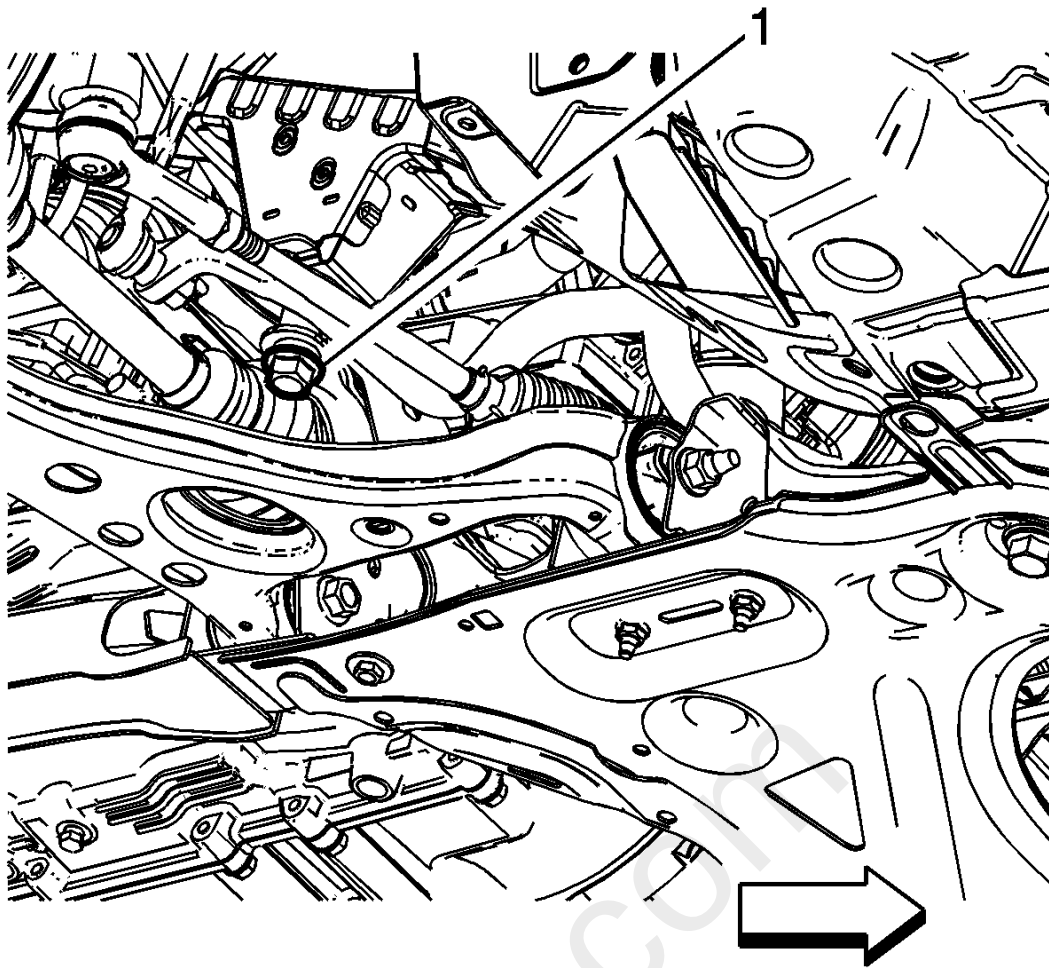


Fig. 30: Upper Frame Suspension Retaining Bolts

Courtesy of GENERAL MOTORS COMPANY

5. Install the two upper frame suspension retaining fasteners (1) and tighten to 145 N.m (107 lb ft).
6. Remove the wire retaining the power steering gear and stabilizer shaft to the vehicle.

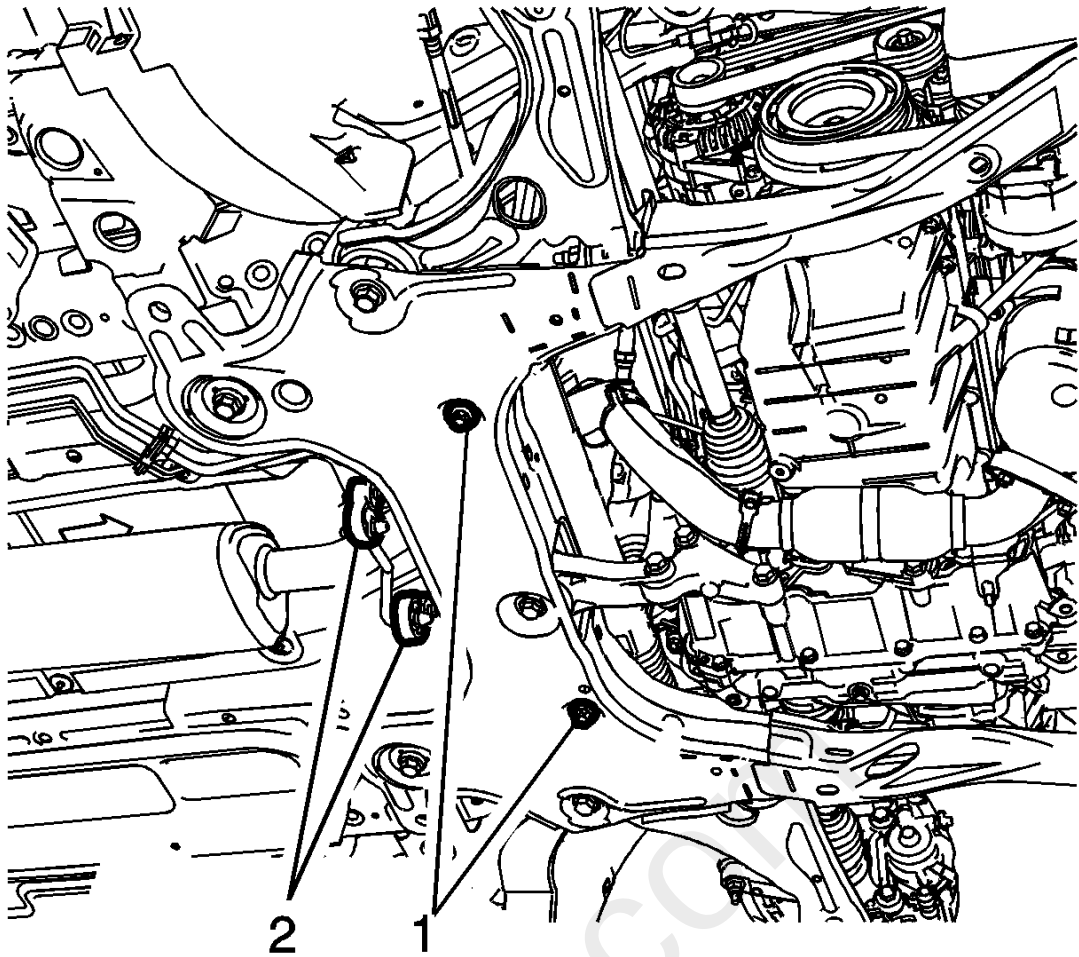


Fig.31: Steering Rack Retaining Bolts & Exhaust Isolators

Courtesy of GENERAL MOTORS COMPANY

7. Install the steering gear retaining fasteners (1). Refer to [Steering Gear Boot Replacement](#) .
8. Connect the hydraulic power steering hoses to the front frame.
9. Connect the exhaust isolators (2) to the front suspension frame.

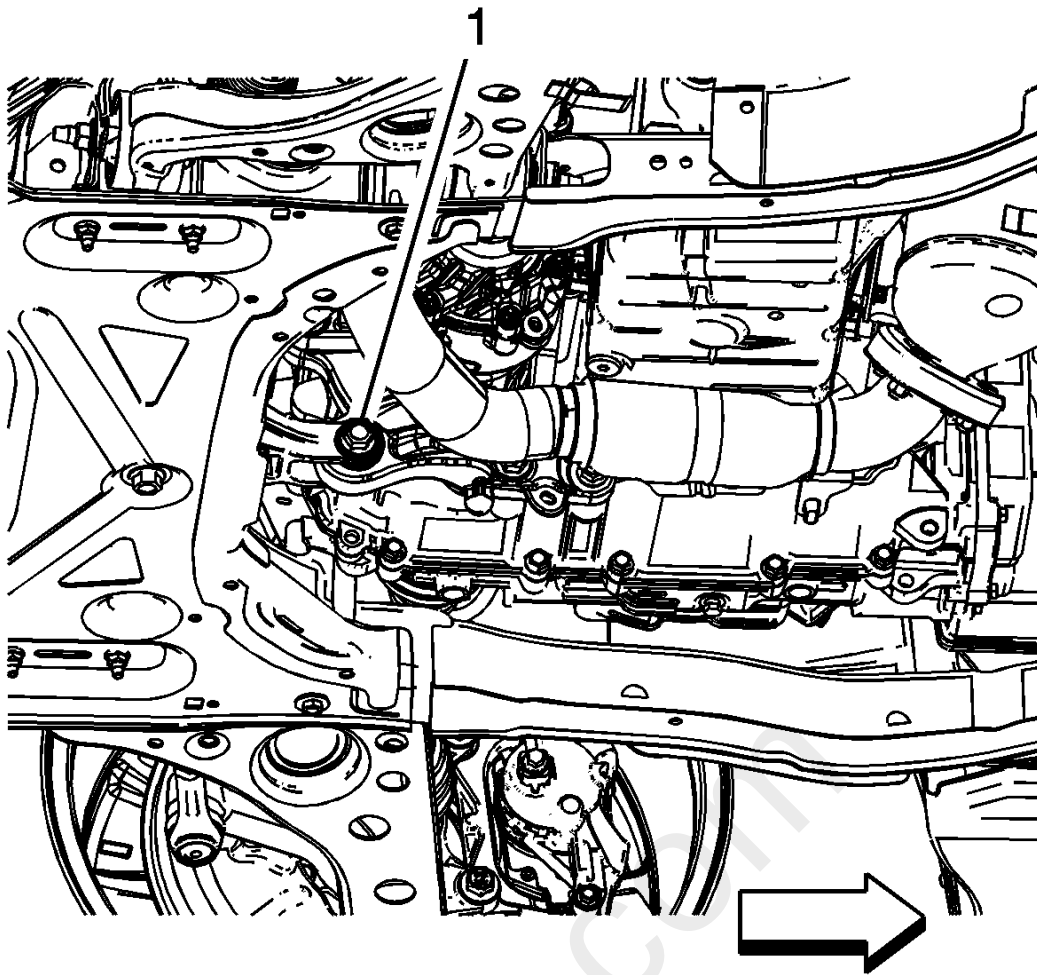


Fig. 32: Transmission Mount Bracket To Rear Mount Through Bolt
Courtesy of GENERAL MOTORS COMPANY

10. Install the rear transmission mount bracket to rear mount through fasteners (1). Refer to [Transmission Rear Mount Replacement \(AWD\)](#) [Transmission Rear Mount Replacement \(FWD\)](#) .
11. Connect the power brake booster pump hose and connector, if equipped.
12. Connect the lower ball joints to the steering knuckles. Refer to [Lower Control Arm Replacement](#) .

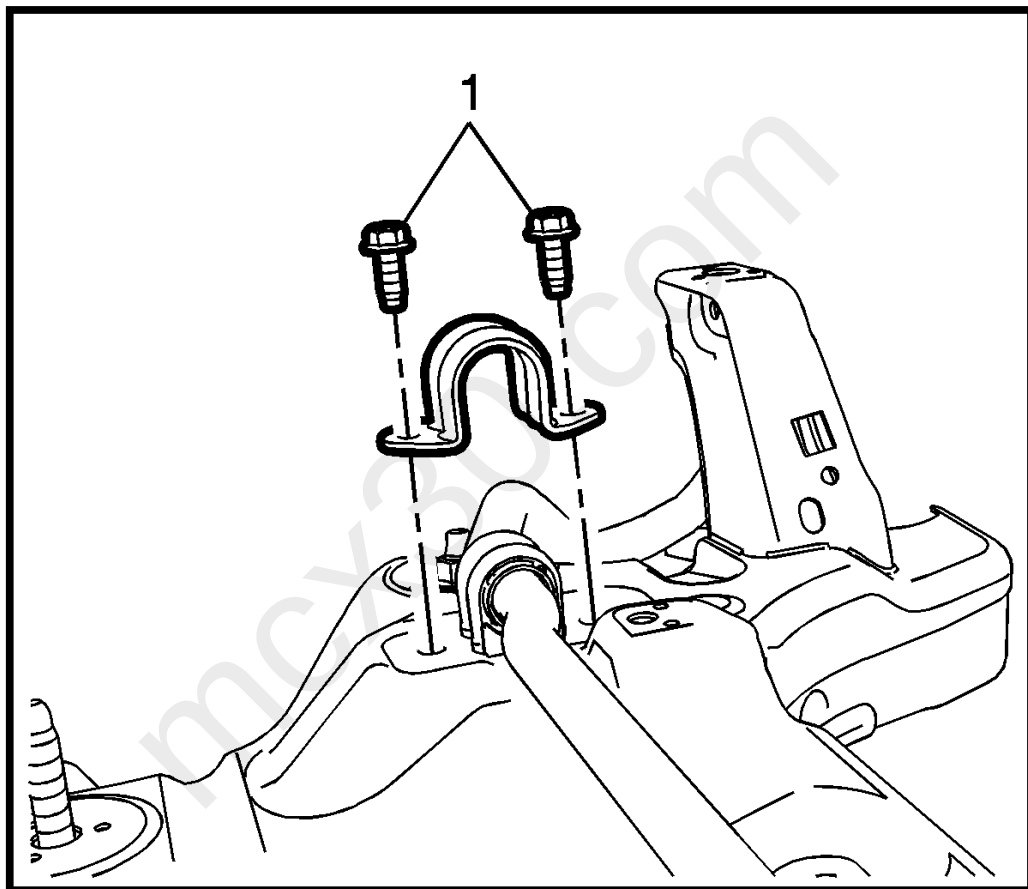
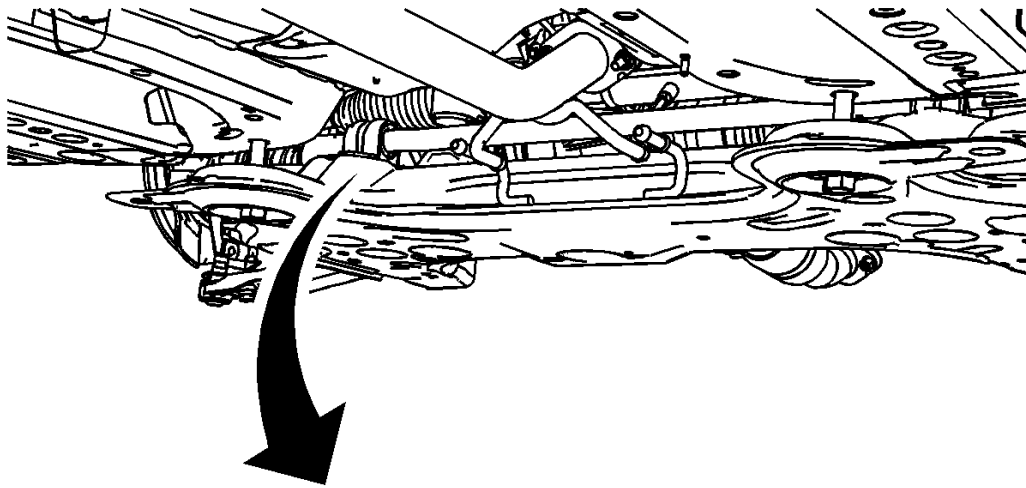


Fig. 33: Stabilizer Shaft Insulator Bracket And Bolts

Courtesy of GENERAL MOTORS COMPANY

13. Connect the stabilizer shaft to the drivetrain and front suspension frame. Refer to [Stabilizer Shaft Replacement](#) .
14. Install the front compartment front center insulator, if equipped. Refer to [Front Compartment Front Center Insulator Replacement](#).
15. Install the drivetrain and front suspension frame transmission protector to the front frame, if equipped. Refer to [Drivetrain and Front Suspension Frame Transmission Protector Replacement](#).
16. Install the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) .
17. Lower the vehicle.

DRIVETRAIN AND FRONT SUSPENSION FRAME REPLACEMENT (LONG CRADLE - V50)

- NOTE:** Suspension components attached to the frame use Torque-to-Yield fasteners and must be **DISCARDED** and replaced with **NEW** Torque Angle Yield (TAY) fasteners. The frame to body fasteners are not TAY fasteners.
- 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 the cradle with a **NEW** part and transferring components.

1. Support the radiator and condenser from above using the upper brackets on each side.
2. Raise the vehicle on a hoist. Refer to [Lifting and Jacking the Vehicle](#) .
3. Remove the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) .
4. Remove the drivetrain and front suspension frame transmission protector from the front frame, if equipped. Refer to [Drivetrain and Front Suspension Frame Transmission Protector Replacement](#).
5. Remove the front compartment front center insulator, if equipped. Refer to [Front Compartment Front Center Insulator Replacement](#).
6. Disconnect the lower ball joints from the steering knuckles. Refer to [Lower Control Arm Replacement](#) .

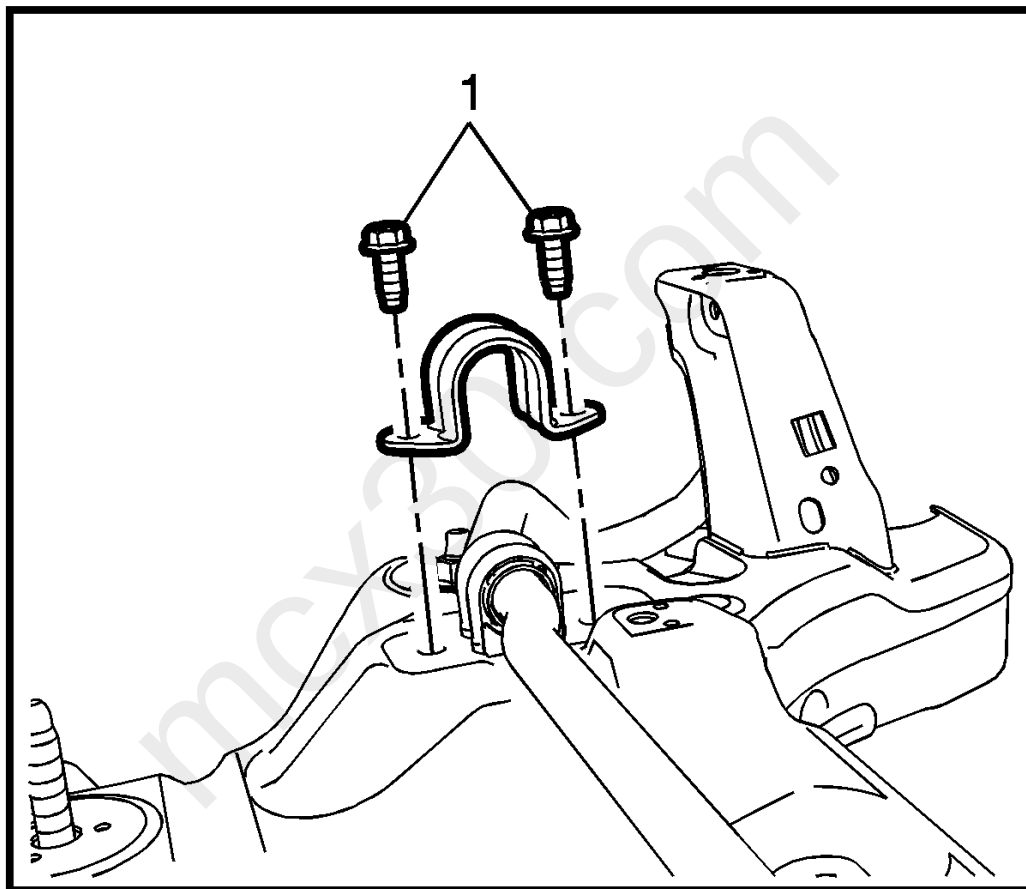
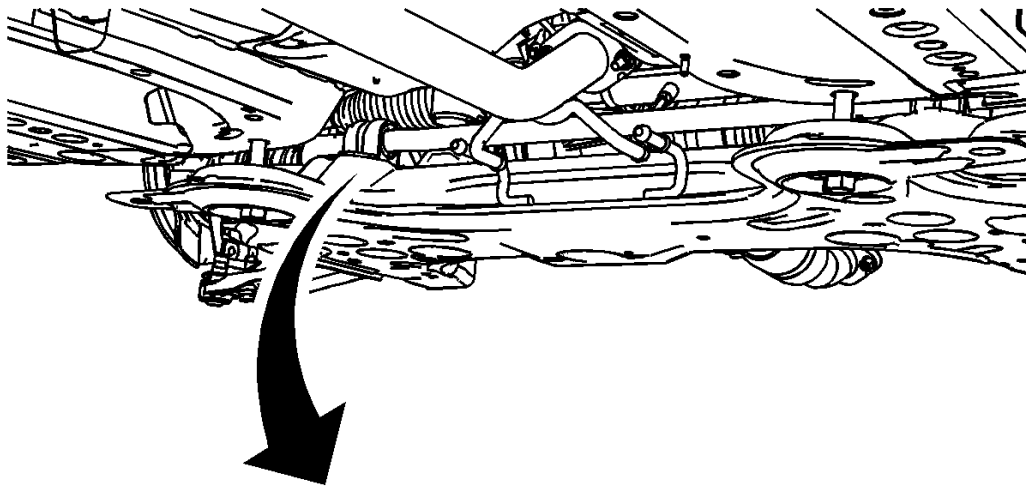


Fig. 34: Stabilizer Shaft Insulator Bracket And Bolts

Courtesy of GENERAL MOTORS COMPANY

7. Remove the four fasteners (1) retaining the stabilizer shaft to the drivetrain and front suspension.

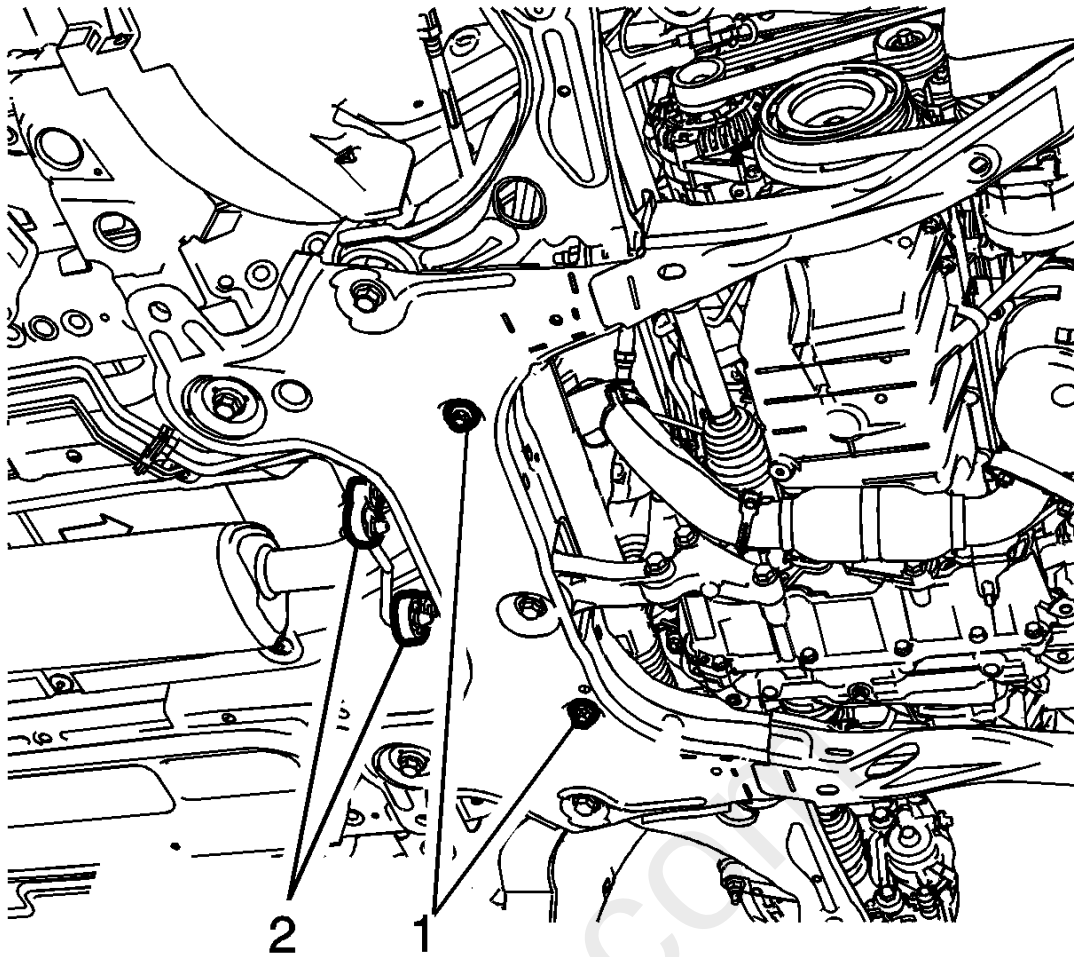


Fig. 35: Steering Rack Retaining Bolts & Exhaust Isolators

Courtesy of GENERAL MOTORS COMPANY

8. Remove the steering rack retaining bolts (1) and discard.
9. Using mechanics wire, secure the power steering gear and stabilizer shaft to the vehicle.
10. Disconnect the hydraulic power steering hoses from the front frame.
11. Disconnect the exhaust isolators (2) from the front suspension frame.
12. Disconnect the power brake booster pump hose and connector, if equipped.

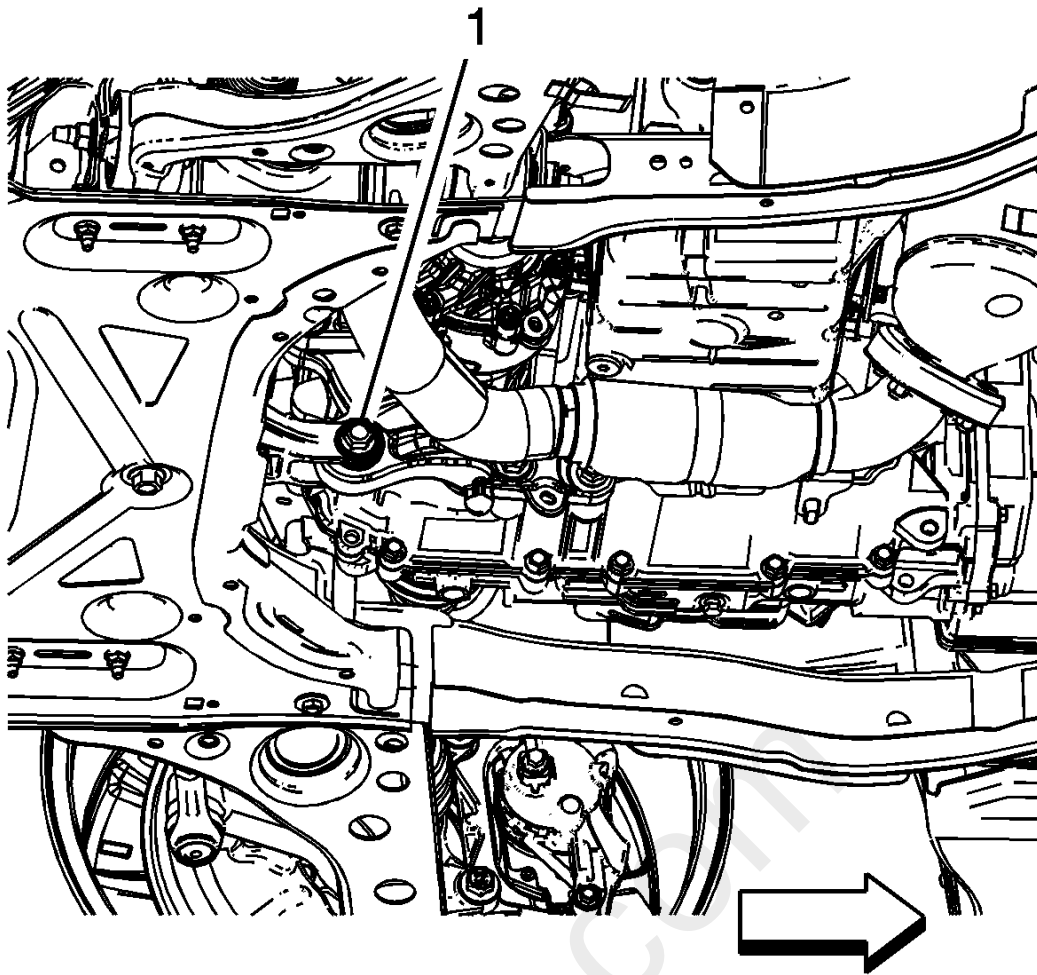


Fig. 36: Transmission Mount Bracket To Rear Mount Through Bolt
Courtesy of GENERAL MOTORS COMPANY

13. Remove the rear transmission mount bracket to rear mount through bolt (1).
14. Using a suitable support table or equivalent, support the front suspension frame.

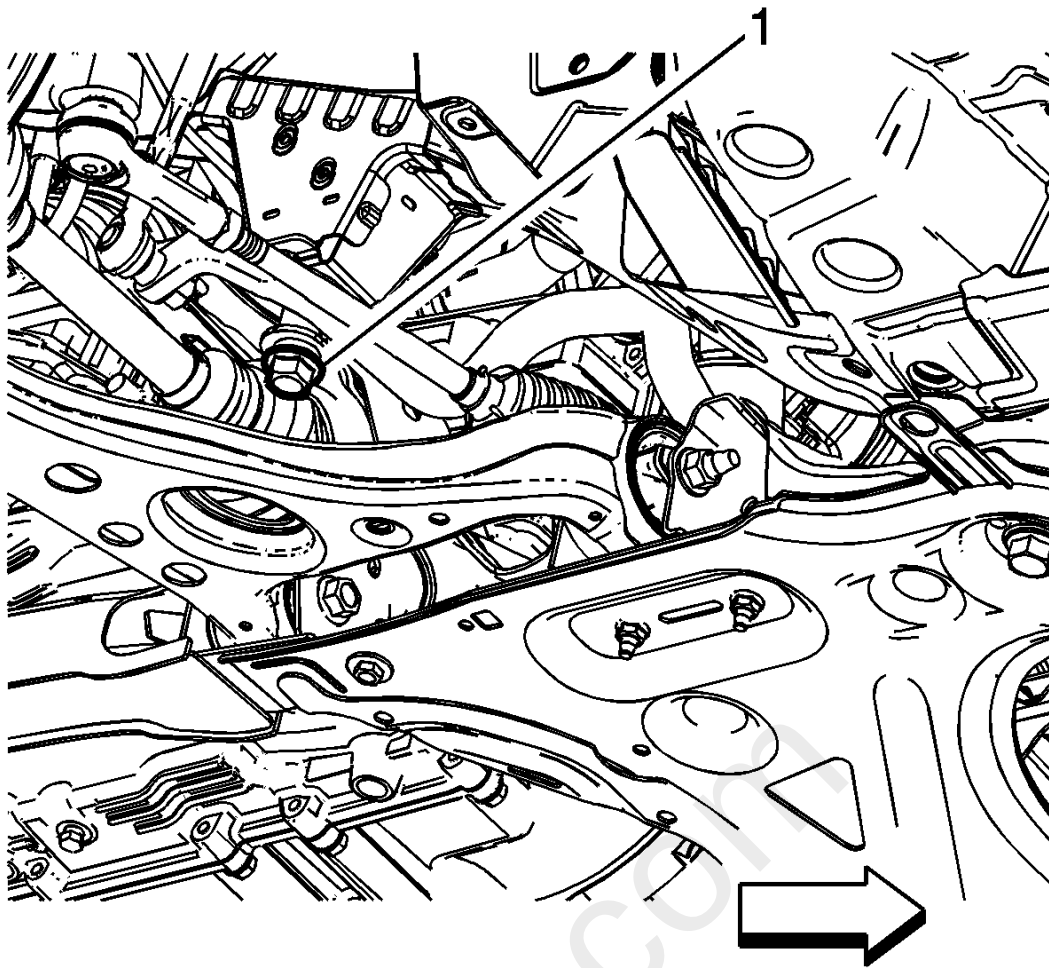


Fig. 37: Upper Frame Suspension Retaining Bolts
 Courtesy of GENERAL MOTORS COMPANY

15. Remove the upper frame suspension retaining bolts (1).

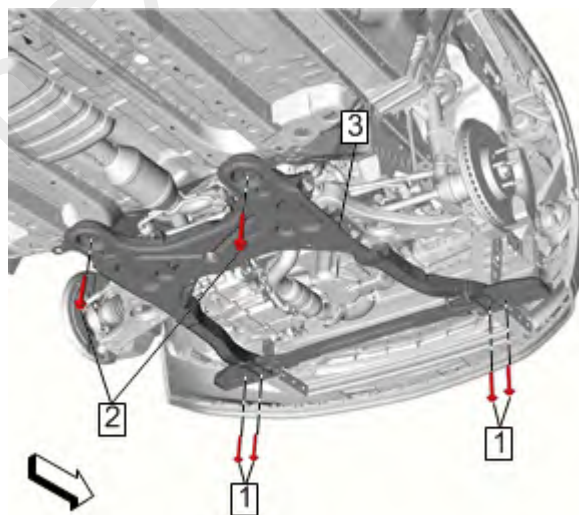


Fig. 38: Frame (Long Cradle)
 Courtesy of GENERAL MOTORS COMPANY

16. Remove the frame front bolts (1).
17. Remove the frame rear bolts (2).
18. Remove the frame (3) from the vehicle.
19. Remove the following components, if replacing the frame:
 - The lower control arms-Refer to [Lower Control Arm Replacement](#) .

- The front bumper lower impact bar-Refer to [Front Bumper Lower Impact Bar Replacement \(Chevrolet\)](#) .
- The power brake booster pump, if equipped-Refer to [Power Brake Booster Pump Replacement](#) .
- The rear transmission mount bracket-Refer to [Transmission Mount Bracket Replacement - Rear \(All Wheel Drive\)](#), [Transmission Mount Bracket Replacement - Rear \(Front Wheel Drive\)](#) .

Installation Procedure

1. Install the following components on the drivetrain and front suspension frame if removed:
 - The rear transmission mount bracket-Refer to [Transmission Mount Bracket Replacement - Rear \(All Wheel Drive\)](#), [Transmission Mount Bracket Replacement - Rear \(Front Wheel Drive\)](#) .
 - The power brake booster pump, if equipped-Refer to [Power Brake Booster Pump Replacement](#) .
 - The front bumper lower impact bar-Refer to [Front Bumper Lower Impact Bar Replacement \(Chevrolet\)](#) .
 - The lower control arms-Refer to [Lower Control Arm Replacement](#) .
2. Install the frame (3) into the vehicle.

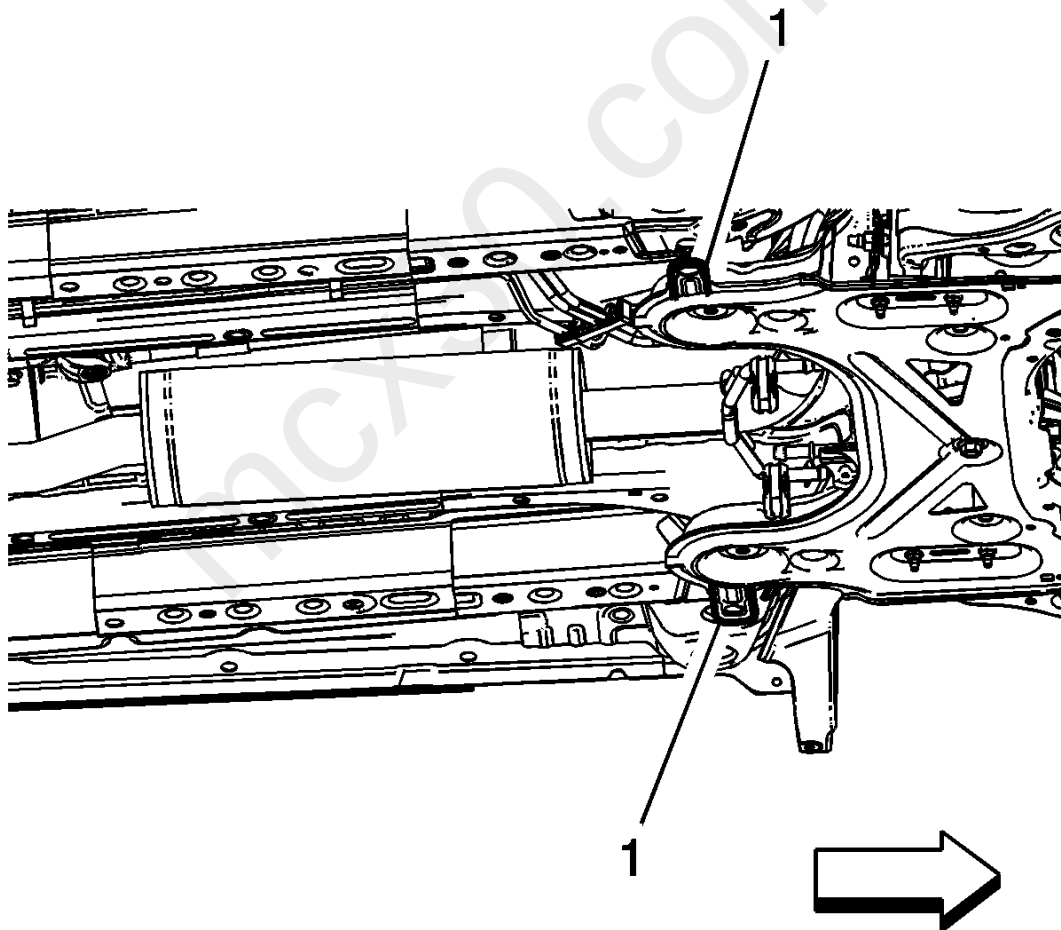


Fig. 39: Front Suspension Frame And Floor Panel
 Courtesy of GENERAL MOTORS COMPANY

3. Using a commercially available guide pin, have an assistant vertically insert and hold the pins through the front suspension frame and floor panel (1).

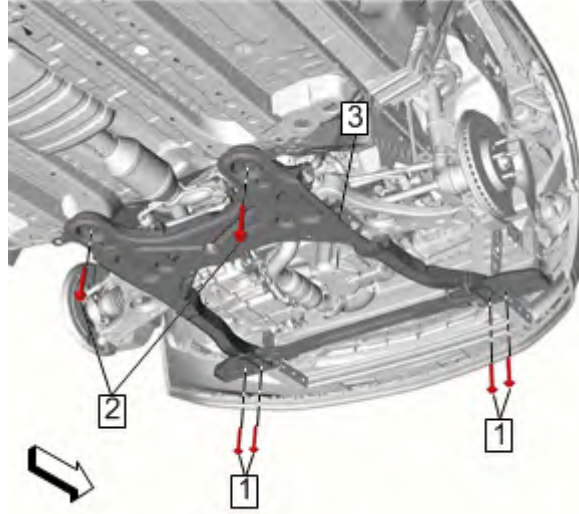
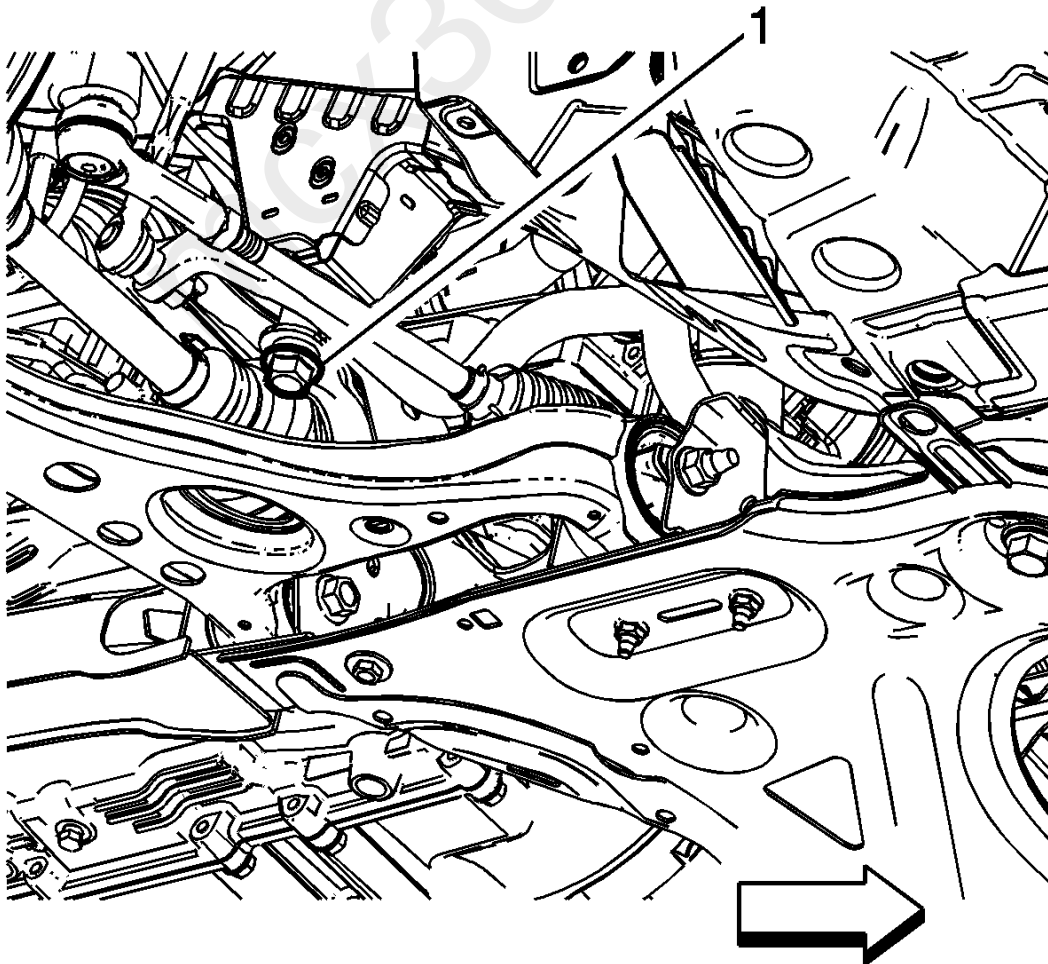


Fig. 40: Frame (Long Cradle)

Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to **Fastener Caution** .

4. Install the frame (3) rear fasteners (2) and tighten:
 1. First pass: 160 N.m (118 lb ft)
 2. Final pass: plus 30 to 45 degrees
5. Install the frame front bolts (1) and tighten:
 1. First pass: 100 N.m (74 lb ft)
 2. Final pass: plus 30 to 45 degrees



6. Install the upper frame suspension retaining bolts (1) and tighten to 145 N.m (107 lb ft).
7. Remove the wire retaining the power steering gear and stabilizer shaft to the vehicle.

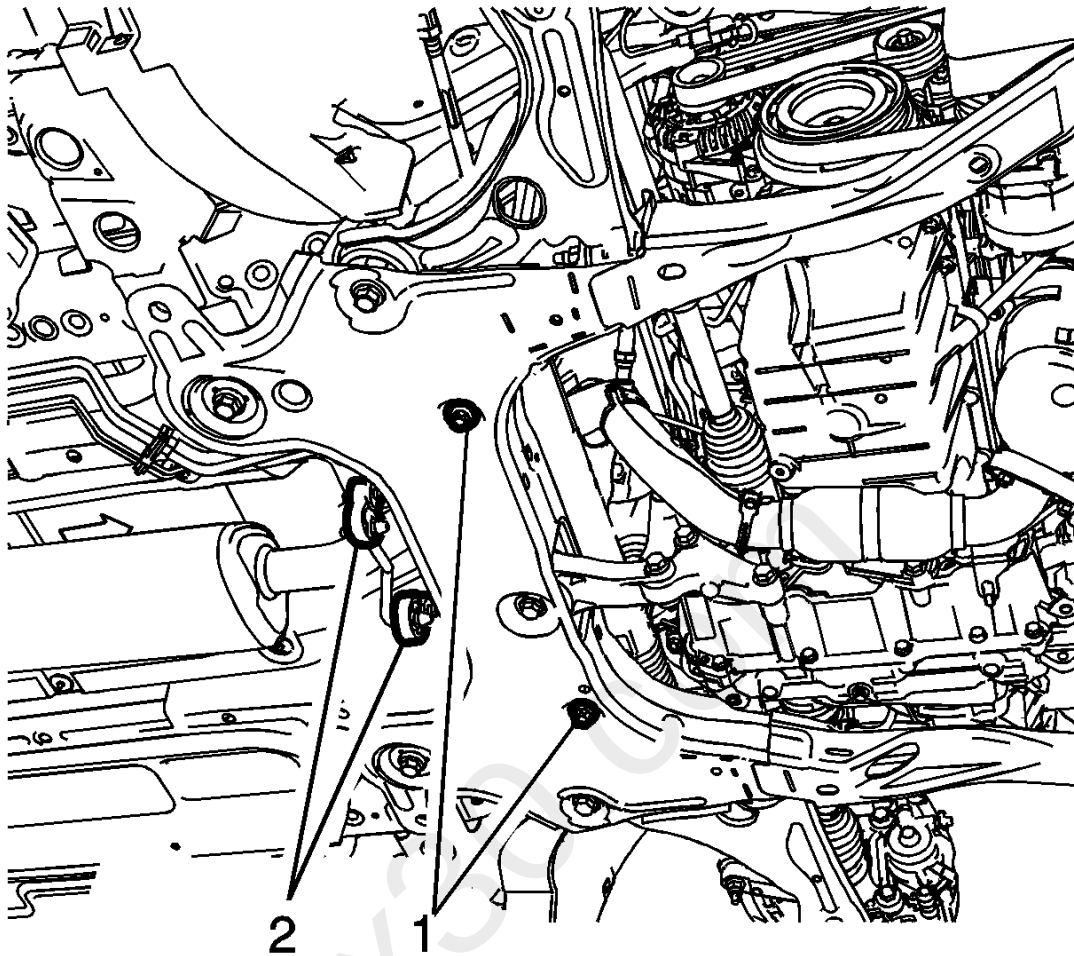


Fig. 42: Steering Rack Retaining Bolts & Exhaust Isolators
Courtesy of GENERAL MOTORS COMPANY

8. Install the steering gear retaining fasteners (1). Refer to [Steering Gear Replacement \(N40 With MNK\)](#), [Steering Gear Replacement \(NJ1 With MNH or MNK\)](#), [Steering Gear Replacement \(NJ1 With MR5\)](#), [Steering Gear Replacement \(N40 With M4P\)](#).
9. Connect the hydraulic power steering hoses to the front frame, if equipped.
10. Connect the exhaust isolators (2) to the front suspension frame.

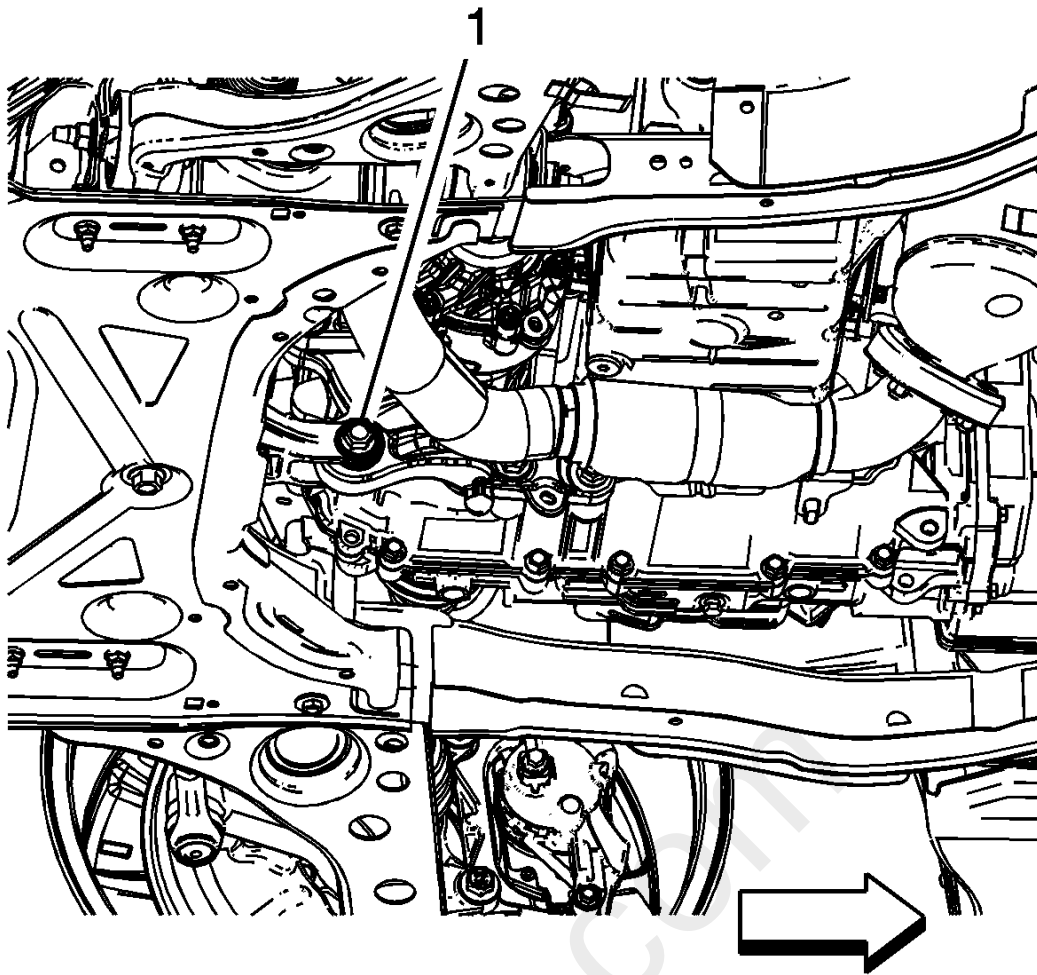


Fig. 43: Transmission Mount Bracket To Rear Mount Through Bolt
Courtesy of GENERAL MOTORS COMPANY

11. Install the rear transmission mount bracket to rear mount through bolt (1). Refer to [Transmission Rear Mount Replacement \(AWD\)](#) [Transmission Rear Mount Replacement \(FWD\)](#) .
12. Connect the power brake booster pump hose and connector, if equipped.
13. Connect the lower ball joints to the steering knuckles. Refer to [Lower Control Arm Replacement](#) .

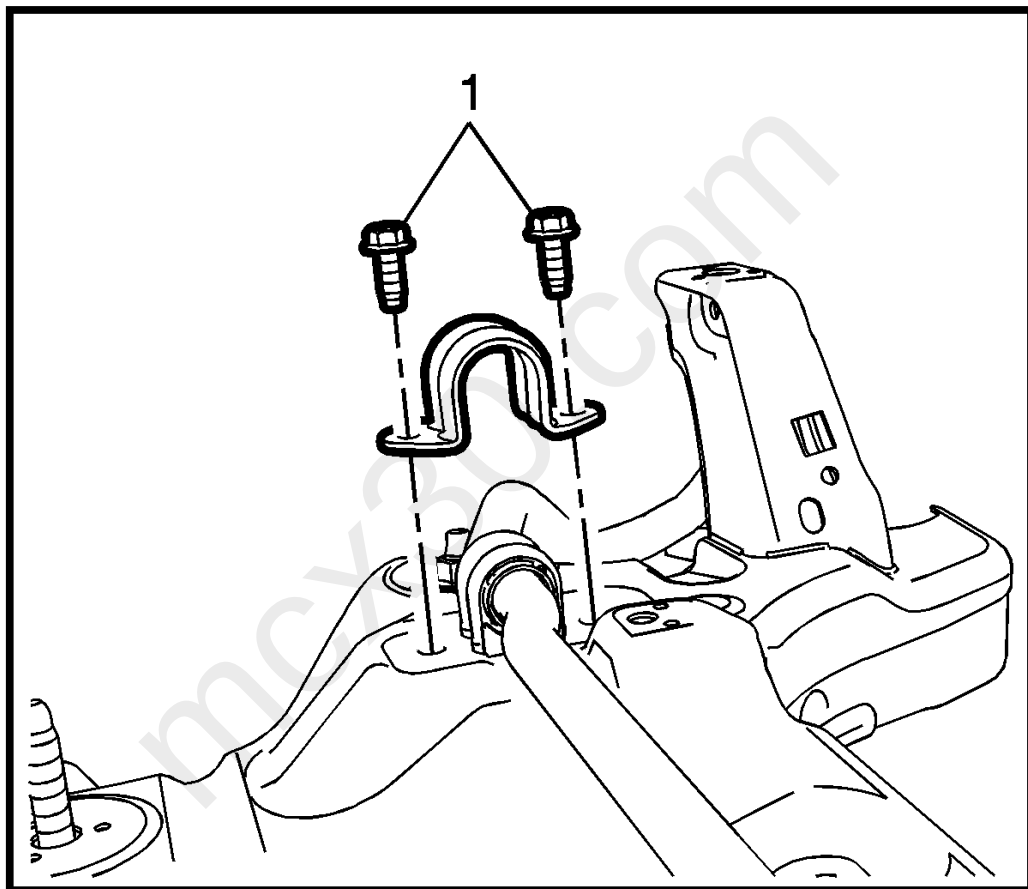
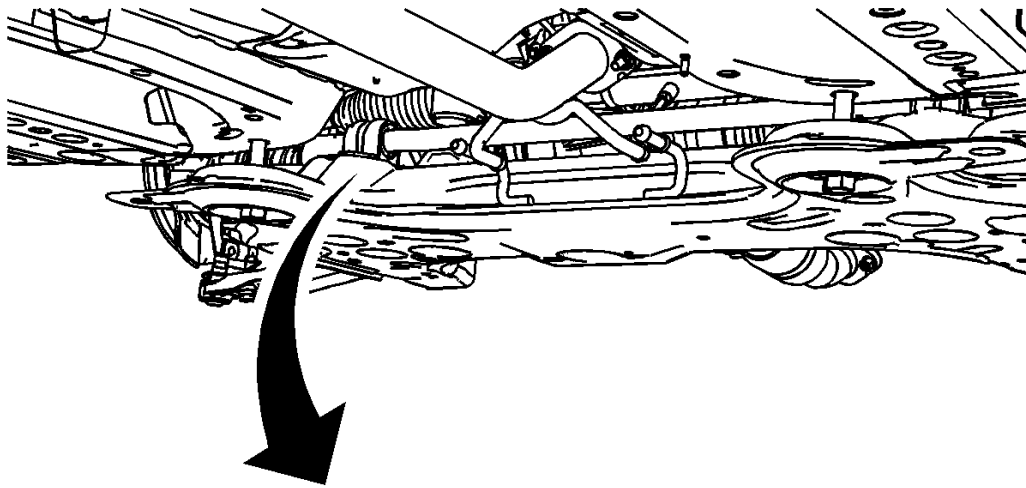


Fig. 44: Stabilizer Shaft Insulator Bracket And Bolts

Courtesy of GENERAL MOTORS COMPANY

14. Connect the stabilizer shaft to the drivetrain and front suspension frame. Refer to [Stabilizer Shaft Replacement](#) .
15. Install the front compartment front center insulator, if equipped. Refer to [Front Compartment Front Center Insulator Replacement](#).
16. Install the skid plate to the front frame, if equipped. Refer to [Drivetrain and Front Suspension Frame Transmission Protector Replacement](#).
17. Install the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) .
18. Lower the vehicle.
19. Remove the support of the radiator and condenser.

FRONT WHEELHOUSE LINER REPLACEMENT (CHEVROLET)

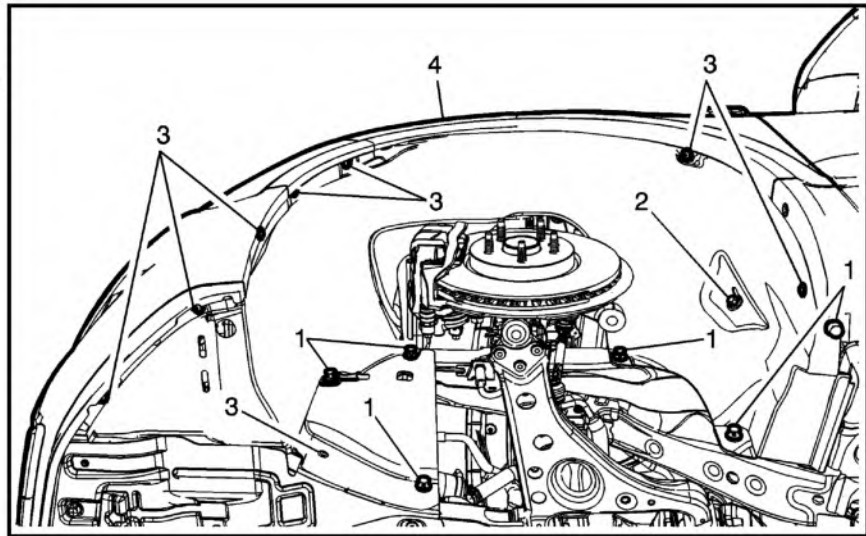


Fig. 45: Front Wheelhouse Liner (Trax)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation .	
1	Front Wheelhouse Liner Push-In Retainer (Qty: 6)
2	Front Wheelhouse Front Liner Nut CAUTION: Refer to Fastener Caution . Tighten 1.8 N.m (16 lb in)
3	Front Wheelhouse Liner Screw (Qty: 8) Tighten 2.5 N.m (22 lb in)
4	Front Wheelhouse Liner

FRONT WHEELHOUSE LINER REPLACEMENT (BUICK)

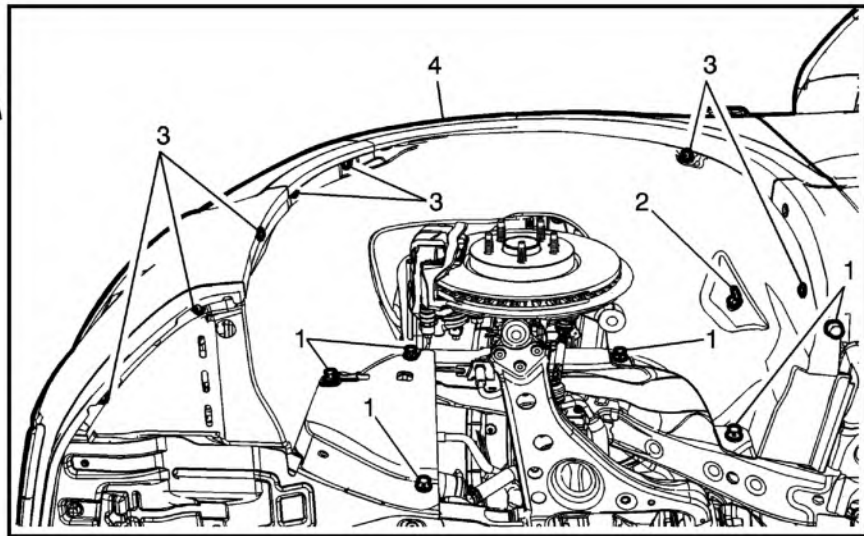


Fig. 46: Front Wheelhouse Liner (Encore)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation .	
1	Front Wheelhouse Liner Push-In Retainer (Qty: 6)
2	Front Wheelhouse Front Liner Nut CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
3	Front Wheelhouse Liner Screw (Qty: 8) Tighten 2.5 N.m (22 lb in)
4	Front Wheelhouse Liner

REAR WHEELHOUSE LINER REPLACEMENT

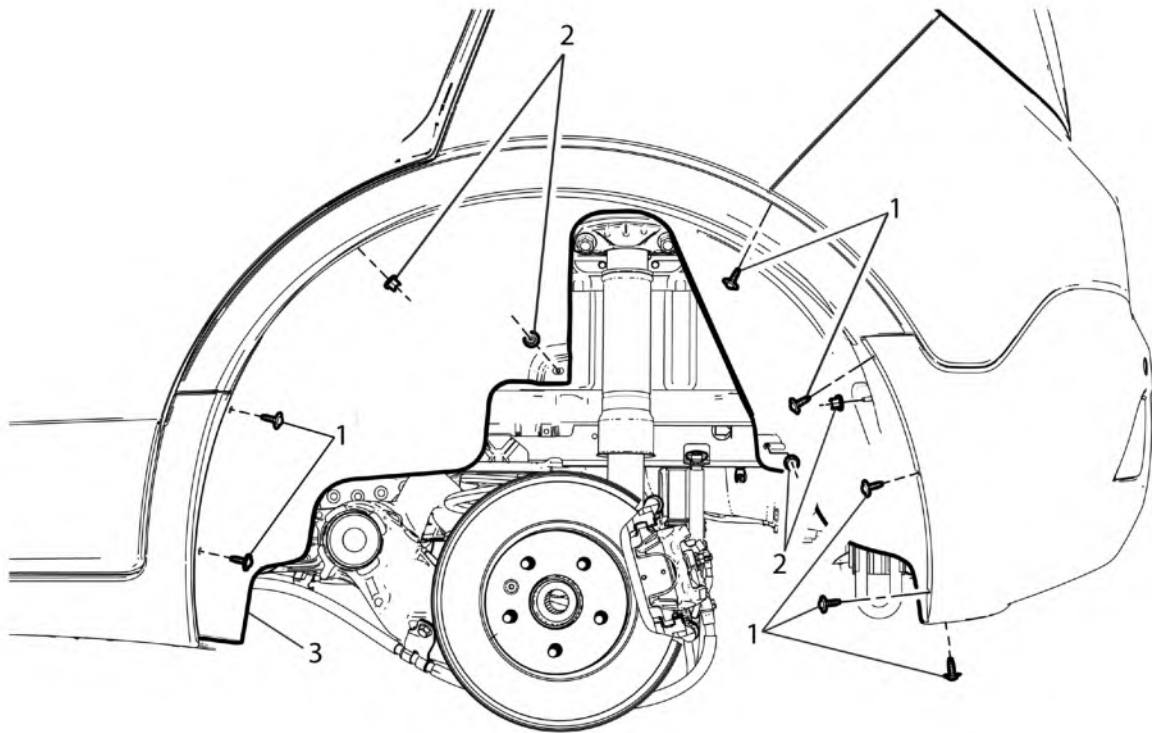


Fig. 47: Rear Wheelhouse Liner

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation. 2. Remove the rocker panel rear molding push-in retainers (Qty: 2).	
1	Rear Wheelhouse Panel Liner Screw (Qty: 7) CAUTION: Refer to Fastener Caution . Tighten: 2.5 N.m (22 lb in)
2	Rear Wheelhouse Panel Liner Nut (Qty: 4) Tighten: 1.8 N.m (16 lb in)
3	Rear Wheelhouse Panel Liner Procedure Transfer parts as needed.

REAR WHEELHOUSE PANEL AIR DEFLECTOR REPLACEMENT

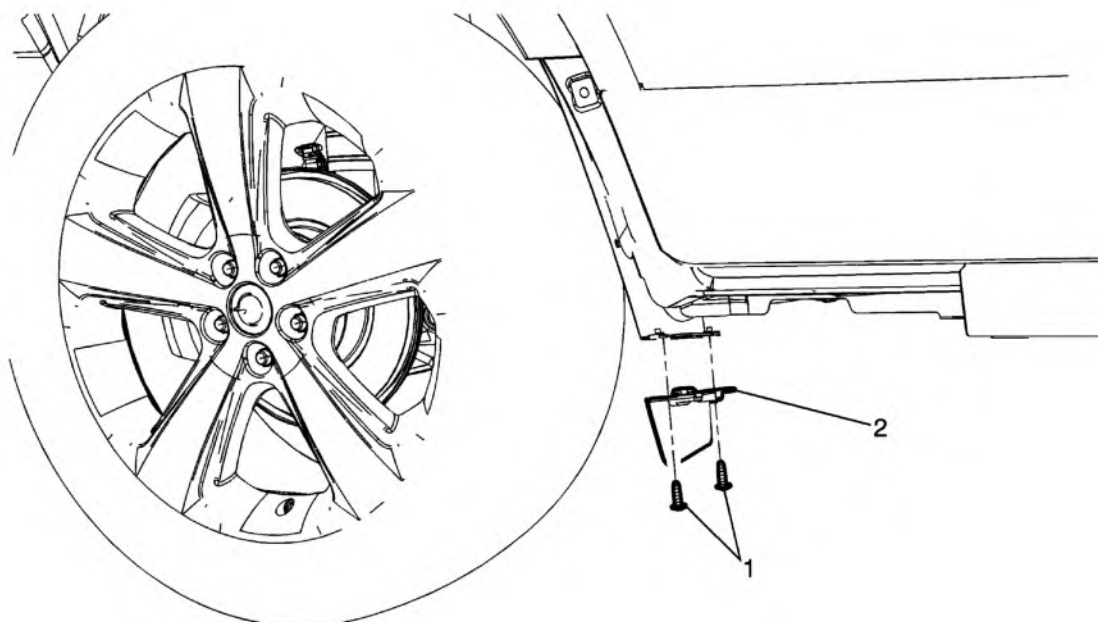


Fig. 48: Rear Wheelhouse Panel Air Deflector
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the rocker panel rear molding. Refer to Rocker Panel Rear Molding Replacement .	
1	Rear Wheelhouse Panel Air Deflector Screw (Qty: 2) CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Rear Wheelhouse Panel Air Deflector